

Списък на цитиранията на научните трудове (без автоцитирания) на Мирослав Абрашев

Общ брой – 3429 h-индекс = 30

(с 30 и повече цитирания са 30 работи: [20], [22], [26], [27], [28], [31], [36], [37], [39], [42], [43], [45], [46], [52], [54], [55], [56], [58], [59], [62], [65], [68], [71], [72], [75], [86], [89], [90], [91], [103])

1. *"Raman Study of Hydrogenated RBa₂ Cu₃ O_{7-x} (R = Y, Gd)"*

V. G. Hadjiev, M. V. Abrashev, M. N. Iliev, and L. N. Bozukov

Physica C 171 (1990) 257 - 264.

11. Hydrogen in a Nonstoichiometric YBa₂Cu₃O_{6.96} Compound: Study by Raman Spectroscopy

Bobylev, I. B.; Ponosov, Yu. S.; Zyuzeva, N. A.; et al.

PHYSICS OF METALS AND METALLOGRAPHY Volume: 119 Issue: 7 Pages: 643-649 Published: JUL 2018

10. Sumadiyasa, M., Adnyana, I.G.A.P., Widagda, I.G.A., Suharta, W.G.

Study synthesis of (La_{1-x}Gd_x)Ba₂Cu₃O_{7-δ} superconductors at low temperature

Journal of Physics: Conference Series 725(1), 12001 (2016)

9. Bobylev, I.B., Ponosov, Y.S., Zyuzeva, N.A.

Raman study of the effect of water vapor during low-temperature annealing on the structure and electrophysical properties of YBa₂Cu₃O_y

Materials Chemistry and Physics 167, 1-8 (2015)

8. Bobylev, I. B.; Ponosov, Yu. S.; Zyuzeva, N. A.

Interaction of YBa₂Cu₃O_{6.8} with atmospheric moisture during low-temperature annealing

PHYSICS OF THE SOLID STATE 56 (8) pp. 1536-1541 AUG 2014

7. Ponosov, Yu S.; Bobylev, I. B.; Zyuzeva, N. A.

Antiferromagnetic fluctuations in water-intercalated YBa₂Cu₃O_{6.8}

JETP LETTERS 99 (6), pp. 340-345 MAY 2014

6. Tsaneva, V.N., Vickers, M.E., Blamire, M.G., Barber, Z.H., Evetts, J.E., Popov, T.K., Donchev, T.I., Ariosa, D.

Diagnostics of sputtering plasma variations affecting Y-Ba-Cu-O thin film growth and properties

Superconductor Science and Technology 17 (9), pp. S465-S472 (2004)

5. Hirata T

Hydrogen in high-T_c superconductors

PHYS STATUS SOLIDI A 156: (2) 227-250 AUG 16 1996

4. Harrington, I., Korn, C., Goren, S.D., Shaked, H., Kimmel, G.

X-ray diffraction study of the influence of hydrogen on the crystallographic structure of H_xYBa₂Cu₃O_{7-δ}

Physica C: Superconductivity and its applications 226, 255-261 (1994).

3. Goren, S.D., Korn, C., Volterra, V., Riesemeier, H., Rössler, E., Vieth, H.M., Lüders, K.

NMR OF H-1 AND 2D IN HYDROGEN-DOPED AND DEUTERIUM-DOPED YBa₂Cu₃O₇

PHYS REV B 46: (21) 14142-14149 DEC 1 1992

2. Kamei, M., Yoshida, I., Takahashi, H., Itti, R., Morishita, T.

RESIDUAL HYDROGEN GAS INDUCED DEFECTS IN HETEROEPITAXIAL Y₁Ba₂Cu₃O_{7-x} FILMS

J APPL PHYS 72: (8) 3622-3625 OCT 15 1992

1. Richter, A., Irmer, G., Keßler, G., Panzner, M., Herzog, K.

RAMAN AND IR SPECTROSCOPY OF HYDROGEN-CHARGED YBa₂Cu₃O_{7-Δ} FILMS

J ALLOY COMPD 187: (1) 59-66 AUG 27 1992

2. *"Destruction of Non-Superconducting YBa₂ Cu₃ O_{6.3} and PrBa₂ Cu₃ O_{6.8} due to the Hydrogenation: Raman Scattering and X-Ray Diffraction Study"*

Physica C 178 (1991) 317 - 323.

M. V. Abrashev, L. N. Bozukov and M. N. Iliev

3. CELANI F, BOUTET M, DIGIOACCHINO D, et al.

1ST RESULTS ABOUT HYDROGEN LOADING BY MEANS OF PULSED ELECTROLYSIS OF Y₁Ba₂Cu₃O₇ PELLETS

PHYS LETT A 189: (5) 395-402 JUN 27 1994

2. KAMEI M, YOSHIDA I, TAKAHASHI H, et al.

RESIDUAL HYDROGEN GAS INDUCED DEFECTS IN HETEROEPITAXIAL Y₁Ba₂Cu₃O_{7-x} FILMS

J APPL PHYS 72: (8) 3622-3625 OCT 15 1992

1. CELANI F, SPALLONE A, LIBERATORI L, et al.

3. "Polarized Raman Spectra of Y2 BaCuO5: Normal Mode Assignment from Substitution for Y and Ba"

M. V. Abrashev and M. N. Iliev

Phys. Rev. B 45 (1992) 8046 - 8051.

11. Das, Dhruba; Muralidhar, M.; Rao, M. S. Ramachandra; et al.

Top-seeded infiltration growth of (Y,Gd)Ba(2)Cu(3)Oy bulk superconductors with high critical current densities
SUPERCONDUCTOR SCIENCE & TECHNOLOGY 30 (10), 105015 OCT 2017

10. Shi, Y., Hasan, T., Babu, N.H., Torrisi, F., Milana, S., Ferrari, A.C., Cardwell, D.A.

Synthesis of YBa2Cu3O7- δ and Y2BaCuO5 nanocrystalline powders for YBCO superconductors using carbon nanotube templates
ACS Nano 6 (6), pp. 5395-5403, 2012.

9. Gupta, H.C., Sharma, V.

Interatomic forces in Pnma, Immm, P4/mbm and I4/mcm phase of R 2BaMO5(R= yttrium or lanthanides; M= Ni, Cu or Zn)
Journal of Physics: Conference Series 92 (1), art. no. 012163 (2007).

8. Gouadec, G., Colombari, P.

Raman Spectroscopy of nanomaterials: How spectra relate to disorder, particle size and mechanical properties
Progress in Crystal Growth and Characterization of Materials 53 (1), pp. 1-56 (2007).

7. Gupta HC, Sharma V

Lattice dynamic investigation of the Raman and infrared wavenumbers of orthorhombic R2BaCuO5 (R = Y, Ho, Gd) oxides
JOURNAL OF RAMAN SPECTROSCOPY 36 (1): 83-88 JAN 2005

6. Capsoni D, Bini M, Massarotti V, et al.

Micro-Raman and X-ray diffraction study of Y2BaNi1-xMxO5 (M = Mg, Zn) polymorphs
SOLID STATE COMMUN 122 (7-8): 367-372 2002

5. Provoost R, Rosseel K, Dierickx D, et al.

Stress analysis in melt processed RBa2Cu3O7 (R = Y, Nd) by micro-Raman spectroscopy
APPL SUPERCOND 6: (2-5) 185-192 FEB-MAY 1998

4. Dietrich M, Thurian P, Loa I, et al.

Crystal-field transitions of Nd3+ and Er3+ in perovskite-type crystals
MATER SCI FORUM 258-2: 1589-1594 Part 1-3 1997

3. Provoost R, Rosseel K, Dierickx D, et al.

Observation of local variations of stress in fast melt processed YBa2Cu3O7 superconductors at Y2BaCuO5 inclusions
INST PHYS CONF SER (158) 1595-1598 1997

2. Provoost R, Rosseel K, Moshchalkov VV, et al.

Stress release at Y2BaCuO5 inclusions in fast melt processed YBa2Cu3O7-x observed by micro-Raman spectroscopy
APPL PHYS LETT 70: (21) 2897-2899 MAY 26 1997

1. DE ANDRES A, TABOADA S, MARTINEZ JL, et al.

OPTICAL PHONONS IN R2BAMO5 OXIDES WITH M = CO, NI, CU, AND R = A RARE-EARTH
PHYS REV B 47: (22) 14898-14904 JUN 1 1993

4. "Raman Spectroscopy of (Pb(1+x)/2 Cu(1-x)/2)Sr2 (Y1-x Cax)Cu2 O7+y (x = 0; 0.35)"

M. V. Abrashev, M. N. Iliev and L. N. Bozukov

Physica C 200 (1992) 189 - 194.

1. Ren, Y.T., Chang, H., Xiong, Q., Wang, Y.Q., Sun, Y.Y., Meng, R.L., Xue, Y.Y., Chu, C.W..

Micro-Raman scattering on superconducting HgBa2Can-1CunO2n+2+ δ (n = 1, 2, 3) ceramics
Physica C: Superconductivity and its applications 217, 273-279 (1993)

5. "Raman-active phonons in R2 BaCuO5 (R = La,Nd)"

M. V. Abrashev, G. A. Zlateva and E. Dinolova

Phys. Rev. B 47 (1993) 8320 - 8323.

6. Antony, C.J., Aatiq, A., Panicker, C.Y., Bushiri, M.J., Varghese, H.T., Manojkumar, T.K.

FT-IR and FT-Raman study of Nasicon type phosphates, ASnFe(PO4)(3) [A = Na(2), Ca, Cd]
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY 78 (1) Pages: 415-419, JAN 2011.

5. Gupta, H.C., Sharma, V.

Interatomic forces in Pnma, Immm, P4/mbm and I4/mcm phase of R 2BaMO5(R= yttrium or lanthanides; M= Ni, Cu or Zn)
Journal of Physics: Conference Series 92 (1), art. no. 012163 (2007).

4. Gupta, H.C., Sharma, V.
Lattice dynamics of tetragonal R_2BaCuO_5 ($\text{R} = \text{La}, \text{Nd}$) oxides in the $\text{P4}/\text{mbm}$ structure
Journal of Raman Spectroscopy 38 (7), pp. 885-889 (2007).
 3. Provoost R, Rosseel K, Dierickx D, et al.
Stress analysis in melt processed $\text{RBa}_2\text{Cu}_3\text{O}_7$ ($\text{R} = \text{Y}, \text{Nd}$) by micro-Raman spectroscopy
APPL SUPERCOND 6: (2-5) 185-192 FEB-MAY 1998
 2. Dareys B, Thurian P, Taboada S, et al.
Luminescence properties of $\text{Nd}_2\text{BaZnO}_5$
J LUMIN 72-4: 174-176 JUN 1997
 1. TABOADA S, DEANDRES A, MARTINEZ JL, et al.
EFFECT OF THE RARE-EARTH SUBSTITUTION ON THE OPTICAL PHONONS OF LaBaCuO_5 ($\text{R}=\text{Nd}$ AND Eu) OXIDES
J ALLOY COMPD 225: (1-2) 216-219 JUL 15 1995
6. "Micro-Raman, SEM and X-ray characterization of $(\text{Pb}_{0.5}\text{Cu}_{0.5})\text{LaSrCan-1 Cu}_n\text{O}_x$ ($n = 1, 2$) ceramics"
M. V. Abrashev, V. N. Hadjimitov, E. Dinolova, and L. N. Bozakov
Physica C 215 (1993) 421 - 428.
7. Wang, J., Lin, Y., Zou, H., Pu, S., Shi, J.
Structural transition, electrical and magnetic properties of the B-site Co doped $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$ compounds
Journal of Physics Condensed Matter 21 (7), art. no. 075601 (2009).
 6. Hu Ni, Xiong Rui, Wei Wei, et al.
Raman scattering study of the spin ladder compound $\text{Sr}_{14}(\text{Cu}_{1-y}\text{Fe}_y)_{24}\text{O}_{41}$
ACTA PHYSICA SINICA 57 (8) 5267-5271 AUG 2008
 5. Carvalho CL, Guedes I
Spectroscopic characterization of BPSCCO thin films grown by dip-coating technique
PHYSICA C 390 (3): 239-242 JUL 1 2003
 4. Ogita N, Fujita Y, Sakaguchi Y, et al.
Raman scattering study of $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$
J PHYS SOC JPN 69: (8) 2684-2690 AUG 2000
 3. Osada M, Kakihana M, Nagai I, et al.
Raman-active phonons and their doping dependence in spin-ladder $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$
PHYSICA C 338: (1-2) 161-165 AUG 1 2000
 2. Nagai, I., Osada, M., Kakihana, M., Noji, T., Adachi, T., Koike, Y.
Raman scattering study of $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$
Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy 46 (9), pp. 1004-1008 (1999)
 1. Leonyuk L, Babonas GJ, Maltsev V
Regularities of cation sublattice structure in crystals of layered cuprates
INT J APPL ELECTROM 8: (3) 229-242 SEP 1997
7. "Preparation of a Calcium-substituted Copper-rich Yttrium Barium Copper Oxide Superconductor from a spray-dried nitrate precursor"
G. Gyurov, I. Khristova, P. Peshev and M. V. Abrashev
Mat. Res. Bull. 28 (1993) 1067 - 1074.
7. Nenartaviciene G, Jasaitis D, Kareiva A
Sol-gel synthesis and characterization of $\text{YBa}_2(\text{Cu}_{1-x}\text{Cr}_x)_4\text{O}_{-8}$ superconductor
ACTA CHIMICA SLOVENICA 51 (4): 661-674 (2004).
 6. Baranauskas, A., Jasaitis, D., Kareiva, A.
Characterization of sol-gel process in the Y-Ba-Cu-O acetate-tartrate system using IR spectroscopy
Vibrational Spectroscopy 28 (2), pp. 263-275 (2002)
 5. Mathur S, Shen H, Lecerc N, et al.
Sol-gel synthesis route for the preparation of $\text{Y}(\text{Ba}_{1-x}\text{Sr}_x)_2\text{Cu}_4\text{O}_8$ superconducting oxides
J SOL-GEL SCI TECHN 24 (1): 57-68 MAY 2002
 4. Baranauskas A, Jasaitis D, Kareiva A, et al.
Sol-gel preparation and characterization of manganese-substituted superconducting $\text{YBa}_2(\text{Cu}_{1-x}\text{Mn}_x)_4\text{O}_{-8}$ compounds
J EUR CERAM SOC 21 (3): 399-408 MAR 2001
 3. Van Bael MK, Kareiva A, Vanhoyland G, et al.

- Influence of calcium substitution on the formation and thermal stability of the YBa₂Cr₄O₈ superconductor
THERMOCHIM ACTA 341: 407-416 Sp. Iss. SI DEC 14 1999
2. Van Bael MK, Kareiva A, Vanhoyland G, et al.
Enhancement of T_c by substituting strontium for barium in the YBa₂Cu₄O₈ superconductor prepared by a sol-gel method
PHYSICA C 307 (3-4): 209-220 OCT 20 1998
1. Kareiva A, Bryntse I, Karppinen M, et al.
Influence of complexing agents on properties of YBa₂Cu₄O₈ superconductors prepared by the sol-gel method
J SOLID STATE CHEM 121 (2): 356-361 FEB 1 1996
8. *"Morphological and compositional changes of the target surface during RF magnetron sputtering of the Y-Ba-Cu-O system"*
R. Chakalov and M. V. Abrashev
Physica C 223 (1994) 173 - 178.
9. *"Optical Phonons in Nd₂ BaMO₅ (M = Zn, Cu)"*
M. V. Abrashev, G. A. Zlateva, M. N. Iliev, and M. Gyulmezov
Phys. Rev. B 49 (1994) 11783 - 11788.
9. Ten Kate, Otmar M.; van der Kolk, Erik
Quantum tripling in Tm³⁺ doped La₂BaZnO₅ phosphors for efficiency enhancement of small band gap solar cells
JOURNAL OF LUMINESCENCE Volume: 156 Pages: 262-265 Published: DEC 2014
8. Cao, Renping; Cao, Chunyan; Yu, Xiaoguang; et al.
Visible to near-infrared luminescence properties of Nd³⁺-doped La₂BaZnO₅ phosphor
JOURNAL OF SOLID STATE CHEMISTRY 215, pp. 22-25 JUL 2014
7. Rosli, A.N., Kassim, H.A., Shrivastava, K.N.
DFT calculation of vibrations in the clusters of zinc and oxygen atoms
Sains Malaysiana 42 (5), pp. 649-654, 2013
6. Gupta, H.C., Sharma, V.
Interatomic forces in Pnma, Immm, P4/mbm and I4/mcm phase of R₂BaMO₅ (R= yttrium or lanthanides; M= Ni, Cu or Zn)
Journal of Physics: Conference Series 92 (1), art. no. 012163 (2007).
5. Gupta, H.C., Sharma, V.
Lattice dynamics of tetragonal Nd₂BaZnO₅
Journal of Raman Spectroscopy 38 (12), pp. 1554-1560 (2007).
4. Gupta, H.C., Sharma, V.
Lattice dynamics of tetragonal R₂BaCuO₅ (R = La, Nd) oxides in the P4/mbm structure
Journal of Raman Spectroscopy 38 (7), pp. 885-889 (2007)
3. Dietrich M, Thurian P, Loa I, et al.
Crystal-field transitions of Nd³⁺ and Er³⁺ in perovskite-type crystals
MATER SCI FORUM 258-2: 1589-1594 Part 1-3 1997
2. Dareys B, Thurian P, Taboada S, et al.
Luminescence properties of Nd₂BaZnO₅
J LUMIN 72-4: 174-176 JUN 1997
1. de Andres A, Taboada S, Martinez JL, et al.
Nd³⁺ crystal-field transitions studied by raman and FIR spectroscopies in Nd₂BaZnO₅
PHYS REV B 55: (6) 3568-3573 FEB 1 1997
10. *"Raman-active Phonons in R₂ BaMO₅ (R - rare earth, M = Cu, Zn)"*
M. V. Abrashev, G. A. Zlateva, and M. N. Iliev
Proc. Suppl. of Balkan Physics Letters 2 (1994) 538 - 542.
11. *"Raman Study of R_{0.5} Pr_{0.5} Ba₂ Cu₃ O₇ (R = Y, Rare Earth)"*
G. G. Bogachev, M. V. Abrashev, M. N. Iliev, N. Poulakis, E. Liarokapis, C. Mitros, A. Koufoudakis, and V. Psyharis
Phys. Rev. B 49 (1994) 12151 - 12158.
10. Zhang, A.-M., Zhang, Q.-M.
Electron-phonon coupling in cuprate and iron-based superconductors revealed by Raman scattering
Chinese Physics B 22 (8), art. no. 087103, 2013
9. Barba D, Jandl S, Nekvasil V, et al.

- Infrared transmission study of crystal-field excitations in Al- and Sr-doped $\text{Pr}_{1-x}\text{Ba}_2\text{Cu}_3\text{O}_6$
 PHYS REV B 69 (2): Art. No. 024528 JAN 2004
8. Gantis A, Calamiotou M, Palles D, et al.
 Phase formation and lattice strain in superconducting compound $\text{Y}_{1-x}\text{La}_x\text{Ba}_2\text{Cu}_3\text{O}_y$ ($0 \leq x \leq 1$)
 PHYS REV B 68 (6): Art. No. 064502 AUG 1 2003
7. Calamiotou M, Gantis A, Palles D, et al.
 Phase separation and internal strains in the mixed $\text{La}_{0.5}\text{R}_{0.5}\text{Ba}_2\text{Cu}_3\text{O}_y$ compounds (R = rare-earth element)
 PHYS REV B 58: (22) 15238-15246 DEC 1 1998
6. Jin H, Ruan KQ, Wang CY, et al.
 Ion size effect on the charge transfer and Raman spectrum of the $(\text{Pb}_{0.65}\text{Sr}_{0.35})\text{Sr}_2(\text{R}_{0.5}\text{Ca}_{0.5})\text{Cu}_2\text{O}_y$ compound
 PHYSICA C 292: (3-4) 211-217 DEC 20 1997
5. Faulques E, Ivanov VG
 Raman line shapes from sputtered thin films of $\text{Y}(\text{Pr})\text{Ba}_2\text{Cu}_3\text{O}_{6+\delta}$: Fine structures and oxygen ordering
 PHYS REV B 55: (6) 3974-3986 FEB 1 1997
4. Mayer M, Knoll P, HolzingerSchweiger E
 Phononic and spin excitations in $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{6.9}$ crystals
 J SUPERCOND 9: (4) 463-465 AUG 1996
3. Kall M, Litvinchuk AP, Berastegui P, et al.
 Phonon Raman scattering in $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_4\text{O}_8$ ($x=0-1$) and $(\text{Y}_{1-x}\text{Pr}_x)_2\text{Ba}_4\text{Cu}_7\text{O}_{15-\delta}$ ($x=0-0.6$)
 PHYS REV B 53: (6) 3590-3597 FEB 1 1996
2. LIKODIMOS V, GUSKOS N, PALIOS G, et al.
 EPR STUDY OF LOCALIZED Cu^{2+} PARAMAGNETIC-IONS AND Cu^{2+} PAIRS IN THE OXYGEN-DEFICIENT
 $\text{PrBa}_2\text{Cu}_3\text{O}_{6+x}$ AND $\text{Pr}(\text{O}.5)\text{R}(\text{O}.5)\text{Ba}_2\text{Cu}_3\text{O}_{6+x}$ (R=Y,ER) COMPOUNDS
 PHYS REV B 52: (10) 7682-7688 SEP 1 1995
1. SHIN HS, YANG IS, LEE WC
 RAMAN-STUDY OF $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ AND $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ SINGLE-CRYSTALS
 PHYSICA C 250: (3-4) 275-281 AUG 15 1995
12. *"Mossbauer, Crystal Structure, Magnetic and Raman Study of $(\text{Y,Ce})_2\text{Sr}_2\text{CuFeO}_8$ Isomorphic with T^* Structure Superconductors"*
 M. Pissas, C. Mitros, D. Niarchos, A. Kostikas, A. Simopoulos, M. Abrashev, V. Hadjimitov, and M. N. Iliev
 Phys. Rev. B 50 (1994) 10157.
13. *"Raman Study of the 1222 Compound $(\text{Bi,Cu})\text{Sr}_2(\text{R,Ce})_2\text{Cu}_2\text{O}_{9-x}$ ($\text{R} = \text{Y, Ho}$)"*
 M. V. Abrashev, V. N. Hadjimitov, L. N. Bozukov, and M. N. Iliev
 Solid State Commun. 93 (1995) 563.
5. Sathe, V.G., Awana, V.P.S., Deshpande, A., Kishan, H., Narlikar, A.V.
 Raman spectroscopy of $\text{RuSr}_2(\text{Eu}_{1.5}\text{Ce}_{0.5})\text{Cu}_2\text{O}_{10}$ magneto-superconductor
 Solid State Communications 141 (12), pp. 658-662 (2007)
4. Xu GJ, Pu QR, Ding ZJ, et al.
 Microstructure and phonon vibration of the Fe-doped $\text{Bi}2201$ system
 PHYSICA C 340: (2-3) 178-184 DEC 1 2000
3. Chen XH, Ruan KQ, Qian GG, et al.
 Effects of doping on phonon Raman scattering in the Bi-based 2212 system
 PHYS REV B 58: (9) 5868-5872 SEP 1 1998
2. Choy JH, Hwang SJ, Kim DK
 Raman spectroscopic evidence on molecular mercuric bromide in the two-dimensional lattice of $(\text{HgBr}_2)_{0.5}\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$
 PHYS REV B 55: (9) 5674-5677 MAR 1 1997
1. Pissas, M., Kallias, G., Poulakis, N., Niarchos, D., Simopoulos, A., Liarokapis, E.
 Structural, Mössbauer, and Raman studies of the $(\text{Y,Ce})_2\text{Sr}_2\text{Cu}_2\text{FeO}_{8+y}$ compound
 Physical Review B 52(14), 10610 (1995)
14. *"Raman-active phonons in $\text{La}_4\text{BaCu}_5\text{O}_{13}$: polarized Raman spectroscopy and lattice dynamical calculations"*
 M. V. Abrashev and V. N. Popov
 J. Phys.: Condens. Matter 7 (1995) 4967.

15. "Preparation of a $\text{YBa}_2\text{Cu}_4\text{O}_8$ high-temperature superconductor from a spray dried nitrate precursor"

G. Gyurov, I. Khristova, and M. V. Abrashev
J. Mater. Sci. Lett. 15 (1996) 1559 - 1561.

16. "Raman spectroscopy and lattice dynamical calculations of mixed copper-titanium oxides"

M. V. Abrashev, C. Thomsen, V. N. Popov, and L. N. Bozukov
Physica C 274 (1997) 141 - 148.

1. Lim, G.H
Vibration of plates and shells using finite elements (1996-1997)
Finite Elements in Analysis and Design 31 (3), pp. 223-230 1999

17. "Optical properties of Nd^{3+} in $\text{Nd}_2\text{BaZnO}_5$ "

B. Dareys, P. Thurian, M. Dietrich, M. V. Abrashev, A. P. Litvinchuk, C. Thomsen, A. de Andres, and S. Taboada
Phys. Rev. B 55 (1997) 6871 - 6879.

5. Gupta, H.C., Sharma, V.
Lattice dynamics of tetragonal $\text{Nd}_2\text{BaZnO}_5$
Journal of Raman Spectroscopy 38 (12), pp. 1554-1560 (2007).

4. Klimin SA, Popova MN, Mill BV
Infrared spectroscopy of the Nd^{3+} ion in $\text{Nd}_2\text{BaCuO}_5$ and $\text{Nd}_2\text{BaZnO}_5$
PHYS SOLID STATE+ 44 (8): 1564-1569 2002

3. Klimin SA, Popova MN, Antic-Fidancev E, et al.
Optical and crystal-field analysis of Nd^{3+} ion in $\text{Nd}_2\text{BaCuO}_5$ and $\text{Nd}_2\text{BaZnO}_5$
J SOLID STATE CHEM 162 (1): 42-51 NOV 15 2001

2. Cruz GK, Carvalho RA, Basso HC
Energy assignments for the I-4(15/2) and S-4(3/2) multiplets of the Er^{3+} ion in $(\text{Er}_{0.05}\text{Y}_{0.95})_2\text{BaZnO}_5$
J APPL PHYS 89: (4) 2194-2201 FEB 15 2001

1. Cruz GK, Basso HC, Terrile MC, et al.
Spectroscopic properties of $\text{Y}_2\text{BaZnO}_5 : \text{Er}^{3+}$
J LUMIN 86: (2) 155-160 MAR 2000

18. "Optical phonons in the orthorhombic double-chain $\text{Sr}_{1-x}\text{Ca}_x\text{CuO}_2$ ($x = 0, 0.5$)"

M. V. Abrashev, A. P. Litvinchuk, C. Thomsen, and V. N. Popov
Phys. Rev. B 55 (1997) 9136 - 9141.

13. Finite size effect on the magnetic excitations spectra, phonons and heat conduction of the quasi- one-dimensional spin chains system SrCuO_2
Bounoua, D., Saint-Martin, R., Petit, S., Bourdarot, F., Pinsard-Gaudart, L.
Physica B: Condensed Matter Volume 536 Page 323-326 Published MAY 1 2018

12. Khan, Afzal; Jimenez, Carmen; Chaix-Pluchery, Odette; et al.
Effect of thermal annealing on electrical and optical properties of Ba-doped SrCu_2O_2 thin films on glass substrates
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 210 (12), pp. 2569-2574 DEC 2013

11. Montagnese, M., Otter, M., Zotos, X., Fishman, D.A., Hlubek, N., Mityashkin, O., Hess, C., (...), Van Loosdrecht, P.H.M.
Phonon-magnon interaction in low dimensional quantum magnets observed by dynamic heat transport measurements
Physical Review Letters 110 (14), art. no. 147206, 2013

10. Cheng Li; Xiong Rui; Shi Jing
Raman scattering study of the spin ladder compound $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41+\delta}$
ACTA PHYSICA SINICA 59 (7) Pages: 5078-5084, JUL 2010.

9. Nunner TS, Brune P, Kopp T, et al.
Phonon-assisted magnetic absorption of $(\text{La,Ca})_{14}\text{Cu}_{24}\text{O}_{41}$: Contribution of different phonon modes
ACTA PHYS POL B 34 (2): 1545-1548 Sp. Iss. SI FEB 2003

8. Popovic ZV, Ivanov VA, Konstantinovic MJ, et al.
Optical studies of gap, hopping energies, and the Anderson-Hubbard parameter in the zigzag-chain compound SrCuO_2
PHYS REV B 63 (16): art. no. 165105 APR 15 2001

7. Popovic ZV, Konstantinovic MJ, Gajic R, et al.

Polarized far-infrared and Raman spectra of SrCuO₂ single crystals
PHYSICA C 351 (4): 386-394 APR 15 2001

6. Lee YS, Noh TW, Choi HS, et al.
Polarization-dependent infrared phonon spectra of quasi-one-dimensional Sr₂CuO₃ and SrCuO₂
PHYS REV B 62: (9) 5285-5288 SEP 1 2000

5. Popovic ZV, Konstantinovic MJ, Ivanov VA, et al.
Optical properties of the spin-ladder compound Sr₁₄Cu₂₄O₄₁
PHYS REV B 62: (8) 4963-4972 AUG 15 2000

4. Nagai, I., Osada, M., Kakihana, M., Noji, T., Adachi, T., Koike, Y.
Raman scattering study of Sr_{14-x}Ca_xCu₂₄O₄₁
Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy 46 (9), pp. 1004-1008 (1999)

3. Ruzicka B, Degiorgi L, Meijer GI, et al.
Optical properties of Sr_{14-x}Ca_xCu₂₄O₄₁ and Sr_{0.73}CuO₂
PHYSICA C 318: 282-285 MAY 1999

2. Milicic SN, Popovic ZV, Konstantinovic MJ, et al.
Phonons in SrCuO₂ single crystals
SOLID STATE PHENOM 61-2: 305-308 (1998).

1. Popovic ZS, Vukajlovic FR
Coulomb correlated band structure of one-dimensional SrCuO₂
SOLID STATE COMMUN 106: (7) 415-420 MAY 1998

19. *"Frohlich-interaction induced multi-phonon Raman scattering in SrCuO₂ and Sr_{0.5}Ca_{0.5}CuO₂"*
M. V. Abrashev, A. P. Litvinchuk, and C. Thomsen
Phys. Rev. B 55 (1997) R8638 - R8641

19. Finite size effect on the magnetic excitations spectra, phonons and heat conduction of the quasi- one-dimensional spin chains system
SrCuO₂
Bounoua, D., Saint-Martin, R., Petit, S., Bourdarot, F., Pinsard-Gaudart, L.
Physica B: Condensed Matter Volume 536 Page 323-326 Published MAY 1 2018

18. Cristian Vasquez, G.; Maestre, David; Cremades, Ana; et al.
Assessment of the Cr doping and size effects on the Raman-active modes of rutile TiO₂ by UV/Visible polarized Raman spectroscopy
JOURNAL OF RAMAN SPECTROSCOPY 48 (6), 847-854 JUN 2017

17. Baibarac, M.; Smaranda, I.; Scocioreanu, M.; et al.
Exciton-phonon interaction in PbI₂ revealed by Raman and photoluminescence studies using excitation light overlapping the fundamental absorption edge
MATERIALS RESEARCH BULLETIN Volume: 70 Pages: 762-772 Published: OCT 2015

16. de la Flor, G.; Wehber, M.; Rohrbeck, A.; et al.
Resonance Raman scattering of perovskite-type relaxor ferroelectrics under nonambient conditions
PHYSICAL REVIEW B 90 (6), Art. No: 064107 AUG 12 2014

15. Bielecki, J., Svedlindh, P., Tibebe, D.T., Cai, S., Eriksson, S.-G., Börjesson, L., Knee, C.S.
Structural and magnetic properties of isovalently substituted multiferroic BiFeO₃: Insights from Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 86 (18), art. no. 184422, 2012

14. Andreasson, J., Holmlund, J., Singer, S.G., Knee, C.S., Rauer, R., Schulz, B., Käll, M., (...), Lichtenstein, A.
Electron-lattice interactions in the perovskite LaFe_{0.5}Cr_{0.5}O₃ characterized by optical spectroscopy and LDA+U calculations
Physical Review B - Condensed Matter and Materials Physics 80 (7), art. no. 075103 (2009).

13. Andreasson, J., Holmlund, J., Rauer, R., Käll, M., Börjesson, L., Knee, C.S., Eriksson, A.K., (...), Chaudhury, R.P.
Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution
Physical Review B - Condensed Matter and Materials Physics 78 (23), art. no. 235103 (2008).

12. Hu Ni; Xiong Rui; Wei Wei; et al.
Raman scattering study of the spin ladder compound Sr₁₄(Cu_{1-y}Fe_y)(₂₄)O₄₁
ACTA PHYSICA SINICA Volume: 57 Issue: 8 Pages: 5267-5271 Published: AUG 2008

11. Holmlund, J., Andreasson, J., Knee, C.S., Bäckström, J., Käll, M., Osada, M., Noji, T., (...), Börjesson, L.
Resonant two-phonon Raman scattering as a probe of hole crystal formation in Sr_{14-x}Ca_xCu₂₄O₄₁
Physical Review B - Condensed Matter and Materials Physics 74 (13), art. no. 134502 (2006)

10. Choi, K.-Y., Gnezdilov, V.P., Lemmens, P., Capogna, L., Johnson, M.R., Sofin, M., Maljuk, A., Keimer, B.
Magnetic excitations and phonons in the spin-chain compound Na₂Cu₂O₂
Physical Review B - Condensed Matter and Materials Physics 73 (9), art. no. 094409, pp. 1-8 (2006)

9. Livneh T, Sterer E
Effect of pressure on the resonant multiphonon Raman scattering in UO₂
PHYSICAL REVIEW B 73 (8): Art. No. 085118 FEB 2006
8. Popovic ZV, Ivanov VA, Konstantinovic MJ, et al.
Optical studies of gap, hopping energies, and the Anderson-Hubbard parameter in the zigzag-chain compound SrCuO₂
PHYS REV B 63 (16): art. no. 165105 APR 15 2001
7. Popovic ZV, Konstantinovic MJ, Gajic R, et al.
Polarized far-infrared and Raman spectra of SrCuO₂ single crystals
PHYSICA C 351 (4): 386-394 APR 15 2001
6. Lee YS, Noh TW, Choi HS, et al.
Polarization-dependent infrared phonon spectra of quasi-one-dimensional Sr₂CuO₃ and SrCuO₂
PHYS REV B 62: (9) 5285-5288 SEP 1 2000
5. Popovic ZS, Vukajlovic FR
Coulomb-correlated band structure of one-dimensional spin-Peierls α' -NaV₂O₅
PHYS REV B 59: (8) 5333-5340 FEB 15 1999
4. Konstantinovic MJ
Raman scattering in copper-oxide based antiferromagnets
SOLID STATE PHENOM 61-2: 59-66 1998
3. Milicic SN, Popovic ZV, Konstantinovic MJ, et al.
Phonons in SrCuO₂ single crystals
SOLID STATE PHENOM 61-2: 305-308 (1998).
2. Lin Y, Eldridge JE
Fluctuation effects on the Raman scattering from the charge-density-wave system TTF-TCNQ
PHYS REV B 58: (7) 3477-3481 AUG 15 1998
1. Popovic ZS, Vukajlovic FR
Coulomb correlated band structure of one-dimensional SrCuO₂
SOLID STATE COMMUN 106: (7) 415-420 MAY 1998

20. *"Raman and infrared-active phonons in hexagonal YMnO₃: Experiment and lattice dynamical calculations"*

M. N. Iliev, H. G. Lee, V. N. Popov, M. V. Abrashev, A. Hamed, R. L. Meng, and C. W. Chu
Phys. Rev. B 56 (1997) 2488 - 2494.

173. Study of gadolinium substitution effects in hexagonal yttrium manganite YMnO₃
Karoblis, D (Karoblis, Dovydas) Zarkov, A (Zarkov, Aleksej) Garskaite, E (Garskaite, Edita) Mazeika, K (Mazeika, Kestutis) Baltrunas, D (Baltrunas, Dalis) Niaura, G (Niaura, Gediminas) Beganskiene, A (Beganskiene, Aldona) Kareiva, A (Kareiva, Aivaras)
SCIENTIFIC REPORTS Volume11 Issue1 Article Number2875 PublishedFEB 3 2021
172. Unusual magnetic ordering transitions in nanoscale biphasic LuFeO₃: the role of the ortho-hexa phase ratio and the local structure
Chaturvedi, S (Chaturvedi, Smita) Shyam, P (Shyam, Priyank) Shirolkar, MM (Shirolkar, Mandar M.) Krishna, SS (Krishna, Swathi S.) Sinha, B (Sinha, Bhavesh) Caliebe, W (Caliebe, Wolfgang) Kalinko, A (Kalinko, Aleksandr) Srinivasan, G (Srinivasan, Gopalan) Ogale, S (Ogale, Satishchandra)
JOURNAL OF MATERIALS CHEMISTRY C Volume8 Issue47 Page17000-17008 PublishedDEC 21 2020
171. Effect of oxygen vacancy gradient on ion-irradiated Ca-doped YMnO₃ thin films
Rathod, KN (Rathod, Kunalsinh N.) Gadani, K (Gadani, Keval) Dhruv, D (Dhruv, Davit) Shrimali, VG (Shrimali, Vipul G.) Solanki, S (Solanki, Sapana) Joshi, AD (Joshi, Ashvini D.) Singh, JP (Singh, Jitendra P.) Chae, KH (Chae, Keun H.) Asokan, K (Asokan, Kandasami) Solanki, PS (Solanki, Piyush S.)
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B Volume38 Issue6 Article Number062208 PublishedNOV 2020
170. h-ErMnO₃ absorbance, reflectivity, and emissivity in the terahertz to mid-infrared from 2 to 1700 K: Carrier screening, Frohlich resonance, small polarons, and bipolarons
Massa, NE (Massa, Nestor E.) del Campo, L (del Campo, Leire) Holidack, K (Holidack, Karsten) Canizares, A (Canizares, Aurelien) Phuoc, VT (Phuoc, Vinh Ta) Kayser, P (Kayser, Paula) Alonso, JA (Antonio Alonso, Jose)
PHYSICAL REVIEW B Volume102 Issue13 Article Number134305 PublishedOCT 12 2020
169. Magnetoelastic excitations in multiferroic hexagonal YMnO₃ studied by inelastic x-ray scattering
Park, K (Park, Kisoo) Oh, J (Oh, Joosung) Lee, KH (Lee, Ki Hoon) Leiner, JC (Leiner, Jonathan C.) Sim, H (Sim, Hasung) Nahm, HH (Nahm, Ho-Hyun) Kim, T (Kim, Taehun) Jeong, J (Jeong, Jaehong) Ishikawa, D (Ishikawa, Daisuke) Baron, AQR (Baron, Alfred Q. R.)
PHYSICAL REVIEW B Volume102 Issue8 Article Number085110 PublishedAUG 5 2020
168. Valence fluctuation and magnetic frustration in Ga substituted YMnO₃
Paul, P (Paul, Pralay) Rajarajan, AK (Rajarajan, A. K.) Debnath, AK (Debnath, A. K.) Rao, R (Rao, Rekha) Rao, TVC (Rao, T. V. Chandrasekhar)
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume503 Article Number166617 PublishedJUN 1 2020

167. Domain structure and multiferroic properties of epitaxial hexagonal ErMnO₃ films
Chen, Y (Chen, Yi) Li, Y (Li, Ye) Zheng, DF (Zheng, Dongfeng) Li, LY (Li, Lei) Zeng, M (Zeng, Min) Qin, MH (Qin, Minghui) Hou, ZP (Hou, Zhipeng) Fan, Z (Fan, Zhen) Gao, XS (Gao, Xingsen) Lu, XB (Lu, Xubing)
JOURNAL OF ALLOYS AND COMPOUNDS Volume821 Article Number153529 PublishedAPR 25 2020
166. Parametric Excitation of an Optically Silent Goldstone-Like Phonon Mode
Juraschek, DM (Juraschek, Dominik M.) Meier, QN (Meier, Quintin N.) Narang, P (Narang, Prineha)
PHYSICAL REVIEW LETTERS Volume124 Issue11 Article Number117401 PublishedMAR 16 2020
165. The particle size effect of Yb_{0.8}R_{0.2}MnO₃ (R is Sm, Nd, and Eu) on some physical properties
Abdel-Latif, IA (Abdel-Latif, I. A.)
JOURNAL OF NANOPARTICLE RESEARCH Volume22 Issue2 Article Number45 PublishedFEB 6 2020
164. Structure distortion and magnetic properties of Ru-doped H-LuMnO₃
Cao, HF (Cao, H. F.) Zhang, AM (Zhang, A. M.) Cui, JY (Cui, J. Y.) Yang, LP (Yang, L. P.) Wu, XS (Wu, X. S.)
SOLID STATE COMMUNICATIONS Volume 306 Article Number 113753 Published FEB 2020
163. Synthesized and Photocatalytic Mechanism of the NiO Supported YMnO₃ Nanoparticles for Photocatalytic Degradation of the Methyl Orange Dye
Wang, YJ (Wang, Yajuan) Song, JJ (Song, Jingjing)
ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS Volume234 Issue 1 Page 153-170 Published JAN 2020
162. Strain-dependent structure and Raman behaviours in the heavy-ion irradiated manganite at extreme low dose
Hoang, NN (Nam Nhat Hoang) Pham, DHY (Duc Huyen Yen Pham) Nguyen, TN (The Nghia Nguyen)
SCIENTIFIC REPORTS Volume 9 Article Number 19204 Published DEC 16 2019
161. Competition of magnetic ordering and spin-phonon coupling in multiferroic hexagonal YMn_{1-x}Cr_xO₃
Cui, JY (Cui, J. Y.) Zhang, AM (Zhang, A. M.) Shi, JY (Shi, J. Y.) Cao, HF (Cao, H. F.) Wu, XS (Wu, X. S.) Zhang, YM (Zhang, Y. M.)
JOURNAL OF APPLIED PHYSICS Volume 126 Issue 11 Article Number 114103 Published SEP 21 2019
160. Investigations on the Electronic Excitations through Spectroscopic Measures for Resistive Switching Character of Manganite Thin Films
Rathod, KN (Rathod, Kunalsinh N.) Gadani, K (Gadani, Keval) Dhruv, D (Dhruv, Davit) Boricha, H (Boricha, Hetal) Zankat, A (Zankat, Alpa) Joshi, AD (Joshi, Ashvini D.) Singh, JP (Singh, Jitendra P.) Chae, KH (Chae, Keun H.) Asokan, K (Asokan, Kandasami) Solanki, PS (Solanki, Piyuhs S.)
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume 256 Issue 12 Article Number 1900264 Published DEC 2019
159. Hybridization and Decay of Magnetic Excitations in Two-Dimensional Triangular Lattice Antiferromagnets
Kim, T (Kim, Taehun) Park, K (Park, Kisoo) Leiner, JC (Leiner, Jonathan C.) Park, JG (Park, Je-Geun)
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume 88 Issue 8 Article Number 081003 Published AUG 15 2019
158. Crystal structure and vibrational spectra of hexagonal manganites YMnO₃ and LuMnO₃ under high pressure
Jabarov, SH (Jabarov, S. H.) Dang, NT (Dang, N. T.) Kichanov, SE (Kichanov, S. E.) Kozlenko, DP (Kozlenko, D. P.) Dubrovinsky, LS (Dubrovinsky, L. S.) Park, JG (Park, Je-Geun) Lee, S (Lee, Seongsu) Mammadov, AI (Mammadov, A., I) Mehdiyeva, RZ (Mehdiyeva, R. Z.) Savenko, BN (Savenko, B. N.)
MATERIALS RESEARCH EXPRESS Volume 6 Issue 8 Article Number 086110 Published AUG 2019
157. Lattice and spin dynamics in multiferroic BiFeO₃ and RMnO₃
Song, Y (Song, Yan) Xu, B (Xu, Ben) Nan, CW (Nan, Ce-Wen)
NATIONAL SCIENCE REVIEW Volume 6 Issue 4 Page 642-652 Published JUL 2019
156. Effects of a strong gravitational field on Mn-trimers and magnetic properties of hexagonal YMnO₃ single crystal
Tokuda, M (Tokuda, Makoto) Mashimo, T (Mashimo, Tsutomu) Ma, WJ (Ma, Weijian) Hayami, S (Hayami, Shinya) Ando, S (Ando, Shinji) Nishiyama, T (Nishiyama, Tadao) Yoshiasa, A (Yoshiasa, Akira)
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume 129 Page 172-179 Published JUN 2019
155. Structural, ferroelectric and dielectric properties of multiferroic YMnO₃ synthesized via microwave assisted radiant hybrid sintering
Kumar, M (Kumar, Manish) Phase, DM (Phase, D. M.) Choudhary, RJ (Choudhary, R. J.)
HELIVON Volume 5 Issue 5 Article Number 01691 Published MAY 2019
154. Characteristics of Coherent Optical Phonons in a Hexagonal YMnO₃ Thin Film
Hasegawa, T (Hasegawa, Takayuki)
APPLIED SCIENCES-BASEL Volume 9 Issue 4 Article Number704 Published FEB 2 2019
153. High pressure structural investigations on hexagonal YInO₃
Dwivedi, A (Dwivedi, Abhilash) Poswal, HK (Poswal, H. K.) Shukla, R (Shukla, R.) Velaga, S (Velaga, Srihari) Sahoo, BD (Sahoo, B. D.) Grover, V (Grover, V.) Deo, MN (Deo, M. N.)
HIGH PRESSURE RESEARCH Volume 39 Issue 1 Page 17-35 Published JAN 2 2019
152. New insight into the structure of PuGaO₃ from ab initio particle-swarm optimization methodology
Li, SC (Li, Shichang) Ye, XQ (Ye, Xiaoqiu) Liu, T (Liu, Tao) Gao, T (Gao, Tao) Ma, SG (Ma, Shenggui) Ao, BY (Ao, Bingyun)
JOURNAL OF MATERIALS CHEMISTRY A Volume 6 Issue 45 Page 22798-22808 Published DEC 7 2018
151. Thermal stable blue pigment with tunable color of DyIn_{1-x}Mn_xO(3) (0 ≤ x ≤ 0.1)

- Zhang, YM (Zhang, Yimeng) Qi, H (Qi, Hui) Liu, HH (Liu, Huanhuan) Wang, S (Wang, Shan) Yuan, L (Yuan, Long) Hou, CM (Hou, Changmin)
 DYES AND PIGMENTS Volume 156 Page 192-198 Published SEP 2018
150. Synthesis, Structure and Spectral Properties of Fe-doped DyInO₃ Yellow Pigments
 Zhang, YM (Zhang Yimeng) Yuan, L (Yuan Long) Liu, HH (Liu Huanhuan) Hou, CM (Hou Changmin)
 CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE Volume 39 Issue 7 Page 1400-1405 Published JUL 10 2018
149. Rare earth indates (RE: La-Yb): influence of the synthesis route and heat treatment on the crystal structure
 Shukla, R (Shukla, Rakesh) Grover, V (Grover, Vinita) Srinivasu, K (Srinivasu, Kancharlapalli) Paul, B (Paul, Barnita) Roy, A (Roy, Anushree) Gupta, R (Gupta, Ruma) Tyagi, AK (Tyagi, Avesh Kumar)
 DALTON TRANSACTIONS Volume 47 Issue 19 Page 6787-6799 Published MAY 21 2018
148. Magnetic ground state of the multiferroic hexagonal LuFeO₃
 Suresh, P (Suresh, Pittala) Laxmi, KV (Laxmi, K. Vijaya) Bera, AK (Bera, A. K.) Yusuf, SM (Yusuf, S. M.) Chittari, BL (Chittari, Bheema Lingam) Jung, J (Jung, Jeil) Kumar, PSA (Kumar, P. S. Anil)
 PHYSICAL REVIEW B Volume 97 Issue 18 Article Number 184419 Published MAY 15 2018
147. Hole doping effect on structure, transport and magnetic properties of Dy_{1-x}Ba_xMnO₃ (0 ≤ x ≤ 1)
 Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Satya, AT (Satya, A. T.) Sethupathi, K (Sethupathi, K.)
 JOURNAL OF ALLOYS AND COMPOUNDS Volume 744 Page 82-89 Published MAY 5 2018
146. The magnetic transition temperature tuned by strain in YMn_{0.9}Ru_{0.1}O₃ thin films
 Yang LP, Zhang AM, Wang K, Wu XS, Zhai ZY,
 AIP ADVANCES Volume 8 Issue 5 Article Number 055805 Published MAY 2018
145. Momentum-resolved observations of the phonon instability driving geometric improper ferroelectricity in yttrium manganite
 Bansal D., Niedziela JL, Sinclair R, Garlea VO, Abernathy DL, Chi SX, Ren Y, Zhou HD, Delaire O,
 NATURE COMMUNICATIONS Volume 9 Article Number 15 Published JAN 2 2018
144. Demirel, S.; Oz, E.; Altin, S.; et al.
 Structural, magnetic, electrical and electrochemical properties of SrCo_{0.5}, Sr₉Co₂Mn₅O₂₁ and SrMnO₃ compounds
 CERAMICS INTERNATIONAL Volume: 43 Issue: 17 Pages: 14818-14826 Published: DEC 1 2017
143. Zhang, Xiong; Song, Hongjia; Tan, Congbing; et al.
 Epitaxial growth and magnetic properties of h-LuFeO₃ thin films
 JOURNAL OF MATERIALS SCIENCE Volume: 52 Issue: 24 Pages: 13879-13885 Published: DEC 2017
142. Hasegawa, Takayuki; Fujimura, Norifumi; Nakayama, Masaaki
 Ultrafast dynamics of coherent optical phonon correlated with the antiferromagnetic transition in a hexagonal YMnO₃ epitaxial film
 APPLIED PHYSICS LETTERS Volume: 111 Issue: 19 Article Number: 192901 Published: NOV 6 2017
141. Rawat, Ritu; Phase, D. M.; Choudhary, R. J.
 Spin-phonon coupling in hexagonal Sr_{0.6}Ba_{0.4}MnO₃
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 441 Pages: 398-403 Published: NOV 1 2017
140. Muneeswaran, M.; Jang, Jae Won; Choi, Byung Chun; et al.
 Structural, optical and multiferroic properties of pure and Dy modified YMnO₃
 JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 22 Pages: 16788-16796 Published: NOV 2017
139. Qiang, Gang; Fang, Yifei; Zhang, Jincang
 Two-dimensional antiferromagnetic perturbation and enhanced ferroelectricity in h-Yb_{1-x}HoxMnO₃
 SOLID STATE COMMUNICATIONS Volume: 266 Pages: 46-49 Published: OCT 2017
138. Zhang, Zhenya; Wang, Saisai
 High-temperature phase transition, coordination mechanism and magnetism in multiferroic YMnO₃ nanopowders
 JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 15 Pages: 10940-10950 Published: AUG 2017
137. Yang, L. P.; Zhang, A. M.; Dai, Y.; et al.
 The effect of Dy-Fe co-doping on the structural and magnetic properties of h-YMnO₃
 JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 12 Pages: 8872-8877 Published: JUN 2017
136. Chakraborty, Keka R.; Paul, Barnita; Shukla, R.; et al.
 Revealing magnetic ordering and spin-phonon coupling in Y-1-xTbxMnO₃ (0.1 ≤ x ≤ 0.3) compounds
 JOURNAL OF PHYSICS-CONDENSED MATTER 29 (15), 155804 APR 2017
135. Sarkar, Tanushree; Manna, Kaustuv; Elizabeth, Suja; et al.
 Investigation of multiferroicity, spin-phonon coupling, and unusual magnetic ordering close to room temperature in LuMn_{0.5}Fe_{0.5}O₃
 JOURNAL OF APPLIED PHYSICS 121 (8), 084102 FEB 2017
134. Nguyen, TMH, Nguyen, TH, Chen, XB, Park, Y, Jung, YM, Lee, D, Noh, TW, Cheong, SW, Yang, IS
 Correlation between magnon and magnetic symmetries of hexagonal RMnO₃ (R = Er, Ho, Lu)

JOURNAL OF MOLECULAR STRUCTURE Volume: 1124 Special Issue: SI Pages: 103-109 DOI: 10.1016/j.molstruc.2016.03.043
Published: NOV 15 2016

133. Mustafa, G., Islam, M.U., Zhang, W., Arshad, M.I., Jamil, Y., Anwar, H., Murtaza, G., Hussain, M., Ahmad, M.
Investigation of the Role of Ce³⁺ Substituted Ions on Dielectric Properties of Co-Cr Ferrites Prepared by Co-precipitation Method
JOURNAL OF ELECTRONIC MATERIALS Volume: 45 Issue: 11 Pages: 5830-5838 DOI: 10.1007/s11664-016-4783-z Published: NOV 2016

132. Biswas, T., Jain, M.
Quasiparticle band structure and optical properties of hexagonal-YMnO₃
JOURNAL OF APPLIED PHYSICS Volume: 120 Issue: 15 Article Number: 155102 DOI: 10.1063/1.4964690 Published: OCT 21 2016

131. Bekheet, M.F., Svoboda, I., Liu, N., Bayarjargal, L., Irran, E., Dietz, C., Stark, R.W., Riedel, R., Gurlo, A.
Ferroelectric InMnO₃: Growth of single crystals, structure and high-temperature phase transitions
JOURNAL OF SOLID STATE CHEMISTRY Volume: 241 Pages: 54-63 DOI: 10.1016/j.jssc.2016.05.031 Published: SEP 2016

130. Paul, B., Chatterjee, S., Gop, S., Roy, A., Grover, V., Shukla, R., Tyagi, A.K.
Evolution of lattice dynamics in ferroelectric hexagonal REInO₃ (RE = Ho, Dy, Tb, Gd, Eu, Sm) perovskites
MATERIALS RESEARCH EXPRESS Volume: 3 Issue: 7 Article Number: UNSP 075703 DOI: 10.1088/2053-1591/3/7/075703
Published: JUL 2016

129. Cheng, S., Li, M., Deng, S., Bao, S., Tang, P., Duan, W., Ma, J., Nan, C., Zhu, J.
Manipulation of Magnetic Properties by Oxygen Vacancies in Multiferroic YMnO₃
ADVANCED FUNCTIONAL MATERIALS Volume: 26 Issue: 21 Pages: 3589-3598 DOI: 10.1002/adfm.201505031 Published: JUN 7 2016

128. Nguyen, D.T., Nguyen, M.T.T., Kim, H.-J.
Optimization of the growth of epitaxial hexagonal YMnO₃ on different substrates via pulsed laser deposition
New Physics: Sae Mulli 66(4), 398-401 DOI: 10.3938/NPSM.66.398 (2016)

127. Sim, H., Oh, J., Jeong, J., Le, M.D., Park, J.-G.
Hexagonal RMnO₃: a model system for two-dimensional triangular lattice antiferromagnets
ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE CRYSTAL ENGINEERING AND MATERIALS Volume: 72 Pages: 3-19 DOI: 10.1107/S2052520615022106 Part: 1 Published: FEB 2016

126. Chai, J.-S., Tian, H., Mao, A.-J., Deng, L.-J., Kuang, X.-Y.
Pressure effect on the properties of magnetic moments and phase transitions in YMnO₃ from first principles
RSC ADVANCES Volume: 6 Issue: 59 Pages: 54041-54048 DOI: 10.1039/c6ra08539c Published: 2016

125. Romaguera-Barcelay, Y., Moreira, J.A., Almeida, A., Tavares, P.B., Fernandes, L., de la Cruz, J.P.
Persistence of the orthorhombic phase in YMnO₃ hexagonal thin films
FERROELECTRICS Volume: 498 Issue: 1 Special Issue: SI Pages: 80-84 DOI: 10.1080/00150193.2016.1168211 Part: 2 Published: 2016

124. Balamurugan, C., Lee, D.-W.
Perovskite hexagonal YMnO₃ nanopowder as p-type semiconductor gas sensor for H₂S detection
Sensors and Actuators B: Chemical Volume 221, Pages 857–866, 31 December 2015

123. Li, S.-C., Zheng, Y.-L., Ma, S.-G., Gao, T., Ao, B.-Y.
First-principles calculation of the electronic structure, chemical bonding, and thermodynamic properties of beta-US2
CHINESE PHYSICS B Volume: 24 Issue: 12 Article Number: 127101 DOI: 10.1088/1674-1056/24/12/127101 Published: DEC 2015

122. Zhou, G., Gu, X., Xie, W., Gao, T., Peng, J., Wu, X.S.
Polarized Raman Scattering Studies of Hexagonal YMnO₃ Single Crystal
IEEE TRANSACTIONS ON MAGNETICS Volume: 51 Issue: 11 Article Number: 2501904 DOI: 10.1109/TMAG.2015.2438154
Published: NOV 2015

121. Kozlenko, D.P., Dang, N.T., Kichanov, S.E., Lukin, E.V., Pashayev, A.M., Mammadov, A.I., Jabarov, S.H., Dubrovinsky, L.S., Liermann, H.-P., Morgenroth, W., Mehdiyeva, R.Z., Smotrakov, V.G., Savenko, B.N.
Competing magnetic and structural states in multiferroic YMn₂O₅ at high pressure
PHYSICAL REVIEW B Volume: 92 Issue: 13 Article Number: 134409 DOI: 10.1103/PhysRevB.92.134409 Published: OCT 12 2015

120. Paul, Arpita; Sharma, Priya; Waghmare, Umesh V.
Spin-orbit interaction, spin-phonon coupling, and anisotropy in the giant magnetoelastic effect in YMnO₃
PHYSICAL REVIEW B Volume: 92 Issue: 5 Article Number: 054106 Published: AUG 11 2015

119. Bouyanfif, H.; Salah, A. M.; Zaghrioui, M.; et al.
High-temperature lattice-dynamics evolution of YMnO₃ and YbMnO₃
PHYSICAL REVIEW B Volume: 91 Issue: 22 Article Number: 224104 Published: JUN 12 2015

118. Zhou, G., Gu, X., Peng, J., Wu, X.
Behavior of atomic displacements and Mn-Mn coupling in YMnO₃ single crystal
2015 IEEE MAGNETICS CONFERENCE (INTERMAG) Meeting Abstract: FT-06, art. No. 7157355 Published: 2015

117. Gupta, M.K., Mittal, R., Zbiri, M., Sharma, N., Rols, S., Schober, H., Chaplot, S.L.
Spin-phonon coupling and high-temperature phase transition in multiferroic material YMnO₃
JOURNAL OF MATERIALS CHEMISTRY C Volume: 3 Issue: 44 Pages: 11717-11728 DOI: 10.1039/c5tc02096d Published: 2015

116. Shukla, R.; Gupta, Santosh K.; Grover, V.; et al.
The role of reaction conditions in the polymorphic control of Eu³⁺-doped YInO₃: structure and size sensitive luminescence
DALTON TRANSACTIONS Volume: 44 Issue: 23 Pages: 10628-10635 Published: 2015
115. Kumar, Manish; Choudhary, R. J.; Phase, D. M.
Structural and Multiferoic Properties of Self Doped Yttrium Manganites YMn¹⁺XO₃
AIP Conference Proceedings Volume: 1661 Article Number: 070005 Published: 2015
114. Satoh, Takuya; Iida, Ryugo; Higuchi, Takuya; et al.
Writing and reading of an arbitrary optical polarization state in an antiferromagnet
NATURE PHOTONICS Volume: 9 Issue: 1 Pages: 25-29 Published: JAN 2015
113. Shukla, Rakesh; Sayed, Farheen N.; Grover, Vinita; et al.
Quest for Lead Free Relaxors in YIn_{1-x}FexO₃ (0.0 ≤ x ≤ 1.0) System: Role of Synthesis and Structure
INORGANIC CHEMISTRY Volume: 53 Issue: 19 Pages: 10101-10111 Published: OCT 6 2014
112. Patete, Jonathan M.; Han, Jinkyu; Tian, Amanda L.; et al.
Observation of Ferroelectricity and Structure-Dependent Magnetic Behavior in Novel One-Dimensional Motifs of Pure, Crystalline Yttrium Manganese Oxides
JOURNAL OF PHYSICAL CHEMISTRY C 118 (37), pp. 21695-21705 SEP 18 2014
111. Basistyy, R.; Stanislavchuk, T. N.; Sirenko, A. A.; et al.
Infrared-active optical phonons and magnetic excitations in the hexagonal manganites RMnO₃ (R = Ho, Er, Tm, Yb, and Lu)
PHYSICAL REVIEW B 90 (2), Art. No. 024307 JUL 23 2014
110. Massa, Nestor E.; del Campo, Leire; Meneses, Domingos De Sousa; et al.
Phonons and hybrid modes in the high and low temperature far infrared dynamics of hexagonal TmMnO₃
JOURNAL OF PHYSICS-CONDENSED MATTER 26 (27), Art. No. 275901 JUL 9 2014
109. Iliescu, I.; Boudard, M.; Rapenne, L.; et al.
MOCVD selective growth of orthorhombic or hexagonal YMnO₃ phase on Si(100) substrate
APPLIED SURFACE SCIENCE 306, pp. 27-32 JUL 1 2014
108. Cano, A.
Hidden order in hexagonal RMnO₃ multiferroics (R = Dy-Lu, In, Y, and Sc)
PHYSICAL REVIEW B 89 (21), Art. No. 214107 JUN 17 2014
107. Chernyshev, V. A.; Petrov, V. P.; Nikiforov, A. E.
Phonon Spectra of YTiO₃ and Y₂Ti₂O₇: Ab Initio Calculations
OPTICS AND SPECTROSCOPY 116 (6), 864-867 JUN 2014
106. Chaix, L.; de Brion, S.; Petit, S.; et al.
Magneto- to Electroactive Transmutation of Spin Waves in ErMnO₃
PHYSICAL REVIEW LETTERS 112 (13), Art. No. 137201 APR 2 2014
105. Toulouse, C.; Liu, J.; Gallais, Y.; et al.
Lattice and spin excitations in multiferroic h-YMnO₃
PHYSICAL REVIEW B 89 (9), Art. No. 094415 MAR 19 2014
104. Wang ShiFa; Zhang ChuanFei; Sun GuangAi; et al.
Chelating agents role on phase formation and surface morphology of single orthorhombic YMn₂O₅ nanorods via modified polyacrylamide gel route
SCIENCE CHINA-CHEMISTRY 57 (3), pp. 402-408 MAR 2014
103. Nakayama, Masaaki; Furukawa, Yoshiaki; Maeda, Kazuhiro; et al.
Correlation between the intra-atomic Mn³⁺ photoluminescence and antiferromagnetic transition in an YMnO₃ epitaxial film
APPLIED PHYSICS EXPRESS 7 (2), Art. No. 023002 FEB 2014
102. Xie, Miao; Winkler, Bjoern; Mao, Zhu; et al.
Raman scattering from superhard rhenium diboride under high pressure
APPLIED PHYSICS LETTERS 104 (1), Art. No. 011904 JAN 6 2014
101. Jandl, S.; Mansouri, S.; Vermette, J.; et al.
Study of crystal-field excitations and infrared active phonons in the multiferroic hexagonal DyMnO₃
JOURNAL OF PHYSICS-CONDENSED MATTER 25 (47), Art. No. 475403 NOV 27 2013
100. Shukla, Rakesh; Grover, Vinita; Deshpande, S. K.; et al.
Synthesis and Structural and Electrical Investigations of a Hexagonal Y_{1-x}GdxInO₃ (0.0 ≤ x ≤ 1.0) System Obtained via Metastable C-Type Intermediates
INORGANIC CHEMISTRY Volume: 52 Issue: 22 Pages: 13179-13187 Published: NOV 18 2013
99. Du, Yi; Wang, Xiaolin; Chen, Dapeng; et al.
Manipulation of domain wall mobility by oxygen vacancy ordering in multiferroic YMnO₃
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 15 (46), pp. 20010-20015 2013

98. Lin, C., Liu, J., Li, Y., Li, X., Li, R.
Pressure-induced structural and vibrational evolution in ferroelectric RInO₃ (R=Eu, Gd,Dy)
Solid State Communications 173, pp. 51-55, 2013
97. Raneesh, B., Saha, A., Kalarikkal, N.
Effect of gamma radiation on the structural, dielectric and magnetoelectric properties of nanostructured hexagonal YMnO₃
Radiation Physics and Chemistry 89, pp. 28-32, 2013
96. Kumar, M., Choudhary, R.J., Phase, D.M.
Valence band structure of YMnO₃ and the spin orbit coupling
Applied Physics Letters 102 (18), art. no. 182902, 2013
95. Namdeo, S., Sinha, A.K., Singh, M.N., Awasthi, A.M.
Investigation of charge states and multiferroicity in Fe-doped h-YMnO₃
Journal of Applied Physics 113 (10), art. no. 104101, 2013
94. Chen, X.-B., Minh, H.N.T., Yang, I.-S., Lee, D., Noh, T.-W.
A raman study of the origin of oxygen defects in hexagonal manganite thin films
Chinese Physics Letters 29 (12), 126103, 2012
93. Liu, J., Toulouse, C., Rovillain, P., Cazayous, M., Gallais, Y., Measson, M.-A., Lee, N., (...), Sacuto, A.
Lattice and spin excitations in multiferroic h-YbMnO₃
Physical Review B - Condensed Matter and Materials Physics 86 (18), art. no. 184410, 2012
92. El Amrani, M., Ta Phuoc, V., Ammar, M.R., Zaghrioui, M., Gervais, F.
Structural modifications of disordered YMn_{1-x}In_xO₃ solid solutions evidenced by infrared and Raman spectroscopies
Solid State Sciences 14 (9), pp. 1315-1320, 2012
91. Rushchanskii, K.Z., Leai, M.
Ab initio phonon structure of h-YMnO₃ in low-symmetry ferroelectric phase
Ferroelectrics 426 (1), pp. 90-96, 2012.
90. Standard, E.C., Stanislavchuk, T., Sirenko, A.A., Lee, N., Cheong, S.-W.
Magnons and crystal-field transitions in hexagonal RMnO₃ (R = Er, Tm, Yb, Lu) single crystals
Physical Review B - Condensed Matter and Materials Physics 85 (14), art. no. 144422, 2012.
89. Vermette, J., Jandl, S., Orlita, M., Gospodinov, M.M.
Role of the apical oxygen in the low-temperature magnetoelectric effect in RMnO₃ (R=Ho and Lu)
Physical Review B - Condensed Matter and Materials Physics 85 (13), art. no. 134445, 2012.
88. Jiang, N., Zhang, X.
Atomistic simulation of Mn-site substitution in multiferroic h-YMnO₃
Journal of Physics Condensed Matter 24 (23), art. no. 235402, 2012.
87. Vieira, L.G., Ribeiro, J.L., Santo, O., Tavares, P.B.
Infrared anisotropy averaging in polycrystalline samples and resonant scattering: The example of YMnO₃
Journal of Optics 14 (4) , art. no. 045707, 2012.
86. Ji, Y., Cao, J., Zhu, Z., Li, J., Wang, Y., Tu, C.
Synthesis and white light emission of Dy³⁺ ions doped hexagonal structure YAlO₃ nanocrystalline
Journal of Luminescence 132 (3) , pp. 702-706, 2012.
85. Prikockyte, A., Bilc, D., Hermet, P., Dubourdieu, C., Ghosez, P.
First-principles calculations of the structural and dynamical properties of ferroelectric YMnO₃
Physical Review B - Condensed Matter and Materials Physics 84 (21) , art. no. 214301 (2011).
84. Zaghrioui, M., Ta Phuoc, V.
Phonon dynamics of hexagonal YMn_{1-x}Fe_xO₃
Solid State Communications 151 (22), 1704-1707 (2011).
83. Hien, N.T.M., Oh, S.-Y., Chen, X.-B., Lee, D., Jang, S.-Y., Noh, T.W., Yang, I.-S.
Raman scattering studies of hexagonal rare-earth RMnO₃ (R = Tb, Dy, Ho, Er) thin films
Journal of Raman Spectroscopy 42 (9), pp. 1774-1779, 2011.
82. Zhou Shuang; Mao Shao-Yu; Xie Zhao-Xiong; et al.
Preparation and gas sensing properties of Fe-doped yttrium manganate nanoparticles
SENSORS AND ACTUATORS B-CHEMICAL 156 (1) Pages: 23-27, AUG 10 2011.
81. Cheng, Z.X., Zhao, H.Y., Du, Y., Kimura, H., Ozawa, K., Wang, X.L.
Exchange bias in multiferroic BiFeO₃ and YMnO₃ multilayers: One more parameter for magnetoelectric manipulation
SCRIPTA MATERIALIA 65 (3) Pages: 249-252, AUG 2011.
80. Gao, P., Chen, Z., Tyson, T.A., Wu, T., Ahn, K.H., Liu, Z., Tappero, R., (...), Cheong, S.-W.
High-pressure structural stability of multiferroic hexagonal RMnO₃ (R = Y, Ho, Lu)
PHYSICAL REVIEW B 83 (22) Article Number: 224113, JUN 27 2011.

79. Zhang ChengGuo; Zhang XiaoZhong; Sun YongHao; et al.
Atomistic simulation of dynamical and defect properties of multiferroic hexagonal YMnO(3)
SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY 54 (5) Pages: 836-840, MAY 2011.
78. Rusakov, D.A., Belik, A.A., Kamba, S., Savinov, M., Nuzhnyy, D., Kolodiazhnyi, T., Yamaura, K., (...), Kroupa, J.
Structural Evolution and Properties of Solid Solutions of Hexagonal InMnO(3) and InGaO(3)
INORGANIC CHEMISTRY 50 (8) Pages: 3559-3566, APR 18 2011.
77. Zhang Chengguo; Zhang X.; Sun Yonghao; et al.
Atomistic simulation of Y-site substitution in multiferroic h-YMnO(3)
PHYSICAL REVIEW B 83 (5) Article Number: 054104, FEB 15 2011.
76. Vermette, J., Jandl, S., Mukhin, A.A., Ivanov, V.Y., Balbashov, A., Gospodinov, M.M., Pinsard-Gaudart, L.
Raman study of the antiferromagnetic phase transitions in hexagonal YMnO(3) and LuMnO(3)
JOURNAL OF PHYSICS-CONDENSED MATTER 22 (35) Article Number: 356002, SEP 8 2010.
75. Nguyen Thi Minh Hien; Chen Xiang-Bai; Luc Huy Hoang; et al.
Raman scattering studies of the magnetic ordering in hexagonal HoMnO(3) thin films
JOURNAL OF RAMAN SPECTROSCOPY 41 (9) Pages: 983-988, SEP 2010.
74. Das Raja; Jaiswal Adhish; Adyanthaya Suguna; et al.
Origin of Magnetic Anomalies below the Neel Temperature in Nanocrystalline LuMnO(3)
JOURNAL OF PHYSICAL CHEMISTRY C 114 (28) Pages: 12104-12109, JUL 22 2010.
73. Jang, K.-J., Lee, H.-G., Lee, S., Ahn, J., Ahn, J.S., Hur, N., Cheong, S.-W.
Strong spin-lattice coupling in multiferroic hexagonal manganite YMnO(3) probed by ultrafast optical spectroscopy
APPLIED PHYSICS LETTERS 97 (3) Article Number: 031914, JUL 19 2010.
72. Goian, V., Kamba, S., Kadlec, C., Nuzhnyy, D., Kužel, P., Agostinho Moreira, J., Almeida, A., Tavares, P.B.
THz and infrared studies of multiferroic hexagonal Y1-xEuxMnO3 (x=0-0.2) ceramics
PHASE TRANSITIONS 83 (10-11) Pages: 931-941, 2010.
71. Kovachev, S., Wesselinowa, J.M.
Impact of the spin-phonon interaction on the phonon properties of multiferroic hexagonal RMnO3 thin films
Journal of Physics Condensed Matter 22 (25), art. no. 255901 (2010).
70. Liu, Y.-F., Wang, B., Zheng, H.-W., Liu, X.-Y., Gu, Y.-Z., Zhang, W.-F.
Temperature-dependent raman spectrum of hexagonal YMnO3 films synthesized by chemical solution method
Chinese Physics Letters 27 (5), art. no. 056801 (2010).
69. Dixit, A., Smith, A.E., Subramanian, M.A., Lawes, G.
Suppression of multiferroic order in hexagonal YMn1 - x Inx O3 ceramics
Solid State Communications 150 (15-16), pp. 746-750 (2010).
68. Jang, K.-J., Lim, J., Ahn, J., Kim, J.-H., Yee, K.-J., Ahn, J.S., Cheong, S.-W.
Ultrafast IR spectroscopic study of coherent phonons and dynamic spin-lattice coupling in multiferroic LuMnO3
New Journal of Physics 12, art. no. 023017 (2010).
67. Wang, W.-R., Song, G.-X., Zhao, Y., Han, X.-Y.
Raman active phonons in RMnO3 (R=La, Pr, Nd, Sm) manganites
Proceedings of SPIE - The International Society for Optical Engineering 7282, art. no. 72822R (2009).
66. Choithrani, R., Rao, M.N., Chaplot, S.L., Gaur, N.K., Singh, R.K.
Lattice dynamics of manganites RMnO3 (R = Sm, Eu or Gd): Instabilities and coexistence of orthorhombic and hexagonal phases
New Journal of Physics 11, art. no. 073041 (2009).
65. Delaney, K.T., Mostovoy, M., Spaldin, N.A.
Superexchange-Driven Magnetoelectricity in Magnetic Vortices
PHYSICAL REVIEW LETTERS Volume: 102 Issue: 15 Article Number: 157203 DOI: 10.1103/PhysRevLett.102.157203 Published:
APR 17 2009
64. Wang, K.F., Liu, J.-M., Ren, Z.F.
Multiferroicity: The coupling between magnetic and polarization orders
Advances in Physics 58 (4), pp. 321-448 (2009).
63. Zhong, C., Jiang, Q., Zhang, H., Jiang, X.
Effect of spin frustration and spin-orbit coupling on the ferroelectric polarization in multiferroic YMnO3
Applied Physics Letters 94 (22), art. no. 224107 (2009).
62. Lou, S.-T., Zimmermann, F.M., Bartynski, R.A., Hur, N., Cheong, S.-W.
Femtosecond laser excitation of coherent optical phonons in ferroelectric LuMnO3
Physical Review B - Condensed Matter and Materials Physics 79 (21), art. no. 214301 (2009).
61. Loshkareva, N.N., Moskvina, A.S., Balbashov, A.M.
Optical 4f-4f transitions in multiferroic HoMnO3
Physics of the Solid State 51 (5), pp. 930-932 (2009).

60. Zhong, C., Jiang, X., Yu, H., Jiang, Q., Fang, J., Li, Z.
First-principles studies of the magnetic structure and exchange interactions in the frustrated multiferroic YMnO₃
Journal of Magnetism and Magnetic Materials 321 (9), pp. 1260-1265 (2009).
59. Fukumura, H., Hasuike, N., Harima, H., Kisoda, K., Fukae, K., Yoshimura, T., Fujimura, N.
Spin-phonon coupling in multiferroic YbMnO₃ studied by Raman scattering
Journal of Physics Condensed Matter 21 (6), art. no. 064218 (2009).
58. Talbayev, D., Laforge, A.D., Trugman, S.A., Hur, N., Taylor, A.J., Averitt, R.D., Basov, D.N.
Magnetic Exchange Interaction between Rare-Earth and Mn Ions in Multiferroic Hexagonal Manganites
PHYSICAL REVIEW LETTERS Volume: 101 Issue: 24 Article Number: 247601 DOI: 10.1103/PhysRevLett.101.247601 Published: DEC 12 2008
57. Zaghrioui, M., Ta Phuoc, V., Souza, R.A., Gervais, M.
Polarized reflectivity and lattice dynamics calculation of multiferroic YMnO₃
Physical Review B - Condensed Matter and Materials Physics 78 (18), art. no. 184305 (2008).
56. Vermette, J., Jandl, S., Gospodinov, M.M.
Raman study of spin-phonon coupling in ErMnO₃
Journal of Physics Condensed Matter 20 (42), art. no. 425219 (2008).
55. Petit, S., Pailhès, S., Fabrèges, X., Hennion, M., Moussa, F., Pinsard, L., Regnault, L.-P., Ivanov, A.
Spin lattice coupling in multiferroic hexagonal YMnO₃
PRAMANA-JOURNAL OF PHYSICS Volume: 71 Issue: 4 Special Issue: SI Pages: 869-876 Published: OCT 2008
54. Lü, W., Ma, X., Zhou, H., Chen, G., Li, J., Zhu, Z., You, Z., Tu, C.
White up-conversion luminescence in rare-earth-ion-doped YAlO₃ nanocrystals
Journal of Physical Chemistry C 112 (38), pp. 15071-15074 (2008).
53. Möller, A., Löw, U., Taetz, T., Kriener, M., André, G., Damay, F., Heyer, O., (...), Mydosh, J.A.
Structural domain and finite-size effects of the antiferromagnetic S=1/2 honeycomb lattice in InCu_{2/3}V_{1/3}O₃
Physical Review B - Condensed Matter and Materials Physics 78 (2), art. no. 024420 (2008).
52. Feng, S.M., Wang, L.J., Zhu, J.L., Li, F.Y., Yu, R.C., Jin, C.Q., Wang, X.H., Li, L.T.
Pressure-induced phase transition in Ho_{0.8}Dy_{0.2}MnO₃ multiferroic compound
Journal of Applied Physics 103 (2), art. no. 026102 (2008).
51. Petit, S., Moussa, F., Hennion, M., Pailhès, S., Pinsard-Gaudart, L., Ivanov, A.
Spin phonon coupling in hexagonal multiferroic YMnO₃
PHYSICAL REVIEW LETTERS Volume: 99 Issue: 26 Article Number: 266604 DOI: 10.1103/PhysRevLett.99.266604 Published: DEC 31 2007
50. Fukumura, H., Hasuike, N., Harima, H., Kisoda, K., Fukae, K., Takahashi, T., Yoshimura, T., Fujimura, N.
Spin-coupled phonons in multiferroic YbMnO₃ epitaxial films by Raman scattering
Journal of Physics: Conference Series 92 (1), art. no. 012126 (2007).
49. Nénert, G., Pollet, M., Marinell, S., Blake, G.R., Meetsma, A., Palstra, T.T.M.
Experimental evidence for an intermediate phase in the multiferroic YMnO₃
Journal of Physics Condensed Matter 19 (46), art. no. 466212 (2007)
48. Poirier, M., Laliberté, F., Pinsard-Gaudart, L., Revcolevschi, A.
Magnetoelastic coupling in hexagonal multiferroic YMnO₃ using ultrasound measurements
Physical Review B - Condensed Matter and Materials Physics 76 (17), art. no. 174426 (2007)
47. Ribeiro, J.L.
Symmetry and magnetically driven ferroelectricity in rare-earth manganites RMnO₃ (R=Gd,Tb,Dy)
Physical Review B - Condensed Matter and Materials Physics 76 (14), art. no. 144417 (2007)
46. Wesselinowa, J.M., Kovachev, St.
Theoretical study of the phonon spectra of hexagonal multiferroics RMnO₃
Journal of Physics Condensed Matter 19 (38), art. no. 386218 (2007)
45. Fukumura, H., Matsui, S., Harima, H., Kisoda, K., Takahashi, T., Yoshimura, T., Fujimura, N.
Raman scattering studies on multiferroic YMnO₃
Journal of Physics Condensed Matter 19 (36), art. no. 365239 (2007)
44. Fukumura, H., Matsui, S., Harima, H., Takahashi, T., Itoh, T., Kisoda, K., Tamada, M., (...), Miyayama, M.
Observation of phonons in multiferroic BiFeO₃ single crystals by Raman scattering
Journal of Physics Condensed Matter 19 (36), art. no. 365224 (2007)
43. Rini, E.G., Rao, M.N., Chaplot, S.L., Gaur, N.K., Singh, R.K.
Phonon dynamics of lanthanum manganite LaMnO₃ using an interatomic shell model potential
Physical Review B - Condensed Matter and Materials Physics 75 (21), art. no. 214301 (2007)

42. Cho, D.-Y., Kim, J.-Y., Park, B.-G., Rho, K.-J., Park, J.-H., Noh, H.-J., Kim, B.J., Oh, S.-J., Park, H.-M., Ahn, J.-S., Ishibashi, H., Cheong, S.-W., Lee, J.H., Murugavel, P., Noh, T.W., Tanaka, A., Jo, T.
Ferroelectricity driven by Y d(0)-ness with rehybridization in YMnO₃
PHYSICAL REVIEW LETTERS Volume: 98 Issue: 21 Article Number: 217601 DOI: 10.1103/PhysRevLett.98.217601 Published: MAY 25 2007
41. Lee, C.H., Kim, S.H., Choi, J.Y., Kim, J.
Interface Mn nanoclusters in YMnO₃/Si ferroelectric gate structures revealed by electron magnetic resonance
Current Applied Physics 7 (1), pp. 10-12 (2007)
40. Lee, C.H., Kim, S.H., Choi, J.Y., Kim, J.
Interface Mn nanoclusters in YMnO₃/Si ferroelectric gate structures revealed by electron magnetic resonance
Current Applied Physics 7 (1), pp. 10-12 (2006)
39. Zhou, J.-S., Goodenough, J.B., Gallardo-Amores, J.M., Morán, E., Alario-Franco, M.A., Caudillo, R.
Hexagonal versus perovskite phase of manganite RMnO₃ (R=Y, Ho, Er, Tm, Yb, Lu)
Physical Review B - Condensed Matter and Materials Physics 74 (1), art. no. 014422 (2006)
38. Wang WR, Xu DP, Su WH
Raman shift of RMnO₃ (R = La, Pr, Nd, Sm) manganites
CHINESE PHYSICS LETTERS 22 (3): 705-707 MAR 2005
37. Fiebig M, Pavlov VV, Pisarev RV
Second-harmonic generation as a tool for studying electronic and magnetic structures of crystals: review
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS 22 (1): 96-118 JAN 2005
36. Zhang, T., Branford, W.R., Trodahl, H.J., Sharma, A., Rager, J., MacManus-Driscoll, J.L., Cohen, L.F.
Raman spectroscopy of highly aligned thin films of Sr₂FeMoO₆
Journal of Raman Spectroscopy 35 (12), pp. 1081-1085 (2004)
35. Lee CH, Han A, Kim J
Electron magnetic resonance study of a YMnO₃/Si ferroelectric gate structure
JOURNAL OF THE KOREAN PHYSICAL SOCIETY 45 (4): 1123-1126 OCT 2004
34. Sharma PA, Ahn JS, Hur N, et al.
Thermal conductivity of geometrically frustrated, ferroelectric YMnO₃: Extraordinary spin-phonon interactions
PHYSICAL REVIEW LETTERS 93 (17): Art. No. 177202 OCT 22 2004
33. Zhang MF, Liu JM, Liu ZG
Microstructural characterization of nanosized YMnO₃ powders: the size effect
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 79 (7): 1753-1756 NOV 2004
32. Tian HW, Zang JF, Ding T, et al.
The evidence of phase separation in perovskite manganites above T_c
JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION 19 (2): 62-63 JUN 2004
31. Van Aken BB, Palstra TTM, Filippetti A, et al.
The origin of ferroelectricity in magnetoelectric YMnO₃
NATURE MATER 3 (3): 164-170 MAR 2004
30. Staneva A, Gattef E, Dimitriev Y, et al.
Magnetic materials containing LaSr manganite phase
SOLID STATE SCI 6 (1): 47-51 JAN 2004
29. Wu CT, Lin BN, Ku HC, et al.
Variation of triangular antiferromagnetic order in ferroelectromagnetic Sc_{1-x}Lu_xMnO₃ manganites
CHINESE J PHYS 41 (6): 652-661 DEC 2003
28. Souchkov AB, Simpson JR, Quijada M, et al.
Exchange interaction effects on the optical properties of LuMnO₃
PHYS REV LETT 91 (2): Art. No. 027203 JUL 11 2003
27. Yoo, D.C., Lee, J.Y., Kim, I.S., Kim, Y.T.
Crystallization behavior and ferroelectric properties of YMnO₃ thin films on Si (100) substrates
Materials Research Society Symposium - Proceedings 688, pp. 73-77 (2002)
26. Park J, Kong U, Pirogov A, et al.
Neutron-diffraction studies of YMnO₃
APPL PHYS A-MATER 74: S796-S798 Part 1 Suppl. S DEC 2002
25. Jiang Q, Zhong CG
The magnetoelectric properties study for system with the coexistence of the ferroelectric and antiferromagnetic orders
PHYS LETT A 306 (2-3): 166-174 DEC 30 2002
24. Takahashi J, Kohn K, Hanamura E
Luminescence spectrum from hexagonal YMnO₃

23. Kimel AV, Pisarev RV, Bentivegna F, et al.
Ultrafast optical spectroscopy of hexagonal manganites RMnO_3 ($R = \text{Y, Er, Sc}$)
FERROELECTRICS 279: 135-146 2002
22. Takahashi J, Hagita K, Kohn K, et al.
Anomalously broad Raman scattering spectrum due to two-magnon excitation in hexagonal YMnO_3
PHYS REV LETT 89 (7): Art. No. 076404 AUG 12 2002
21. Zhong CG, Jiang Q
Theoretical study on perpendicular magnetoelectric coupling in ferroelectromagnet system
SOLID STATE COMMUN 122 (11): 601-605 (2002).
20. Filippetti A, Hill NA
Coexistence of magnetism and ferroelectricity in perovskites
PHYS REV B 65 (19): Art. No. 195120 MAY 15 2002
19. Yoshii K, Abe H
Magnetic properties of LnMnO_3 ($\text{Ln}=\text{Ho, Er, Tm, Yb, and Lu}$)
J SOLID STATE CHEM 165 (1): 131-135 APR 2002
18. Yoo DC, Lee JY, Kim IS, et al.
Crystallization behavior of ferroelectric YMnO_3 thin films on $\text{Si}(100)$ substrates
J CRYST GROWTH 234 (2-3): 454-458 JAN 2002
17. Iizuka-Sakano, T., Hanamura, E., Tanabe, Y.
Second-harmonic-generation spectra of the hexagonal manganites RMnO_3
Journal of Physics Condensed Matter 13 (13), pp. 3031-3055 (2001)
16. Kimel AV, Pisarev RV, Bentivegna F, et al.
Time-resolved nonlinear optical spectroscopy of Mn^{3+} ions in rare-earth hexagonal manganites RMnO_3 ($R = \text{Sc, Y, Er}$)
PHYS REV B 64 (20): art. no. 201103 NOV 15 2001
15. Yoo DC, Lee JY, Kim IS, et al.
Effects of post-annealing on the microstructure and ferroelectric properties of YMnO_3 thin films on Si
J CRYST GROWTH 233 (1-2): 243-247 NOV 2001
14. Degenhardt C, Fiebig M, Frohlich D, et al.
Nonlinear optical spectroscopy of electronic transitions in hexagonal manganites
APPL PHYS B-LASERS O 73 (2): 139-144 AUG 2001
13. Martin-Carron L, de Andres A, Martinez-Lope MJ, et al.
Raman phonons and light scattering in RMnO_3 ($R=\text{La, Pr, Nd, Ho, Er, Tb}$ and Y) orthorhombic and hexagonal manganites
J ALLOY COMPD 323: 494-497 JUL 12 2001
12. Tomuta DG, Ramakrishnan S, Nieuwenhuys GJ, et al.
The magnetic susceptibility, specific heat and dielectric constant of hexagonal YMnO_3 , LuMnO_3 and ScMnO_3
J PHYS-CONDENS MAT 13 (20): 4543-4552 MAY 21 2001
11. Qian MC, Dong JM, Xing DY
Optical properties of the ferroelectromagnet YMuO_3 studied from first principles
PHYS REV B 63 (15): art. no. 155101 MAR 22 2001
10. Munoz A, Alonso JA, Martinez-Lope MJ, et al.
Magnetic structure of hexagonal RMnO_3 ($R = \text{Y, Sc}$): Thermal evolution from neutron powder diffraction data
PHYS REV B 62: (14) 9498-9510 OCT 1 2000
9. Yi WC, Kwun SI, Yoon JG
Study on the electronic structure of hexagonal and orthorhombic YMnO_3
J PHYS SOC JPN 69: (8) 2706-2707 AUG 2000
8. Qian MC, Dong JM, Zheng QQ
Electronic structure of the ferroelectromagnet YMnO_3
PHYS LETT A 270: (1-2) 96-101 MAY 22 2000
7. Sa D, Valenti R, Gros C
A generalized Ginzburg-Landau approach to second harmonic generation
EUR PHYS J B 14: (2) 301-305 MAR 2000
6. Kim SH, Lee SH, Kim TH, et al.
Growth, ferroelectric properties, and phonon modes of YMnO_3 single crystal
CRYST RES TECHNOL 35: (1) 19-27 2000
5. Lee HN, Kim IS, Kim YT, et al.
Ferroelectric switching properties of highly c-axis oriented YMnO_3 gate capacitors

4. Pavlov, VV, Pisarev, RV, Frohlich, D, Leute, S
Second-harmonic spectroscopy of the ferroelectric antiferromagnet YMnO₃
LASER SPECTROSCOPY AND OPTICAL DIAGNOSTICS: NOVEL TRENDS AND APPLICATIONS IN LASER CHEMISTRY, BIOPHYSICS, AND BIOMEDICINE - ICONO'98 Book Series: PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE) Volume: 3732 Pages: 72-80 DOI: 10.1117/12.339995 Published: 1999

3. Roy C, Budhani RC
Raman, infrared and x-ray diffraction study of phase stability in La_{1-x}Ba_xMnO₃ doped manganites
J APPL PHYS 85: (6) 3124-3131 MAR 15 1999

2. Pavlov VV, Pisarev RV, Frohlich D, et al.
Nonlinear optical spectroscopy of electronic transitions and domains in ferroelectric antiferromagnet YMnO₃
FERROELECTRICS 218: (1-4) 375-380 1998

1. Frohlich D, Leute S, Pavlov VV, et al.
Nonlinear optical spectroscopy of the two-order-parameter compound YMnO₃
PHYS REV LETT 81: (15) 3239-3242 OCT 12 1998

21. "Doping Effects in the Sr₁₄Cu₂₄O₄₁ - type structure: A Raman scattering study"

M. V. Abrashev, C. Thomsen and M. Surtchev

Physica C 280 (1997) 297 - 303.

26. Khan, A., Jiménez, C., Chaix-Pluchery, O., Roussel, H., Deschanvres, J.L.
In-situ Raman spectroscopy and X-ray diffraction studies of the structural transformations leading to the SrCu₂O₂ phase from strontium-copper oxide thin films deposited by metalorganic chemical vapor deposition
Thin Solid Films 541, pp. 136-141, 2013

25. Naruse, K., Kawamata, T., Ohno, M., Matsuoka, Y., Kumagai, K., Koike, Y.
Thermal conductivity due to magnons in high-quality single crystals of the two-leg spin-ladder system (Ca,Sr,La)₁₄Cu₂₄O₄₁
Solid State Communications 154 (1), pp. 60-63, 2013

24. Cheng Li; Xiong Rui; Shi Jing
Raman scattering study of the spin ladder compound Sr₁₄(Cu₂₄)O_(41+δ)
ACTA PHYSICA SINICA 59 (7) Pages: 5078-5084, JUL 2010.

23. Wang, J., Lin, Y., Zou, H., Pu, S., Shi, J.
Structural transition, electrical and magnetic properties of the B-site Co doped Sr₁₄Cu₂₄O₄₁ compounds
Journal of Physics Condensed Matter 21 (7), art. no. 075601 (2009).

22. Hu, N, Xiong, R, Wei, W, Wang, ZY, Wang, LL, Yu, ZX, Tang, WF, Shi, J
Raman scattering study of the spin ladder compound Sr₁₄(Cu_{1-y}Fe_y)₂₄O₄₁
ACTA PHYSICA SINICA Volume: 57 Issue: 8 Pages: 5267-5271 Published: AUG 2008

21. Zeng, Y., Pan, F.-S., Yu, Z.-X., Shi, J.
Phase evolution of (14-x)SrCO₃-xCaCO₃-24CuO system under ambient pressure below 1000°C
Cailiao Kexue yu Gongyi/Material Science and Technology 15 (3), pp. 417-420 (2007)

20. Devereaux, T.P., Hackl, R.
Inelastic light scattering from correlated electrons
Reviews of Modern Physics 79 (1), pp. 175-233 (2007)

19. Holmlund, J., Andreasson, J., Knee, C.S., Bäckström, J., Käll, M., Osada, M., Noji, T., (...), Börjesson, L.
Resonant two-phonon Raman scattering as a probe of hole crystal formation in Sr_{14-x}Ca_xCu₂₄O₄₁
Physical Review B - Condensed Matter and Materials Physics 74 (13), art. no. 134502 (2006)

18. Zeng Y, Pan FS, Yu ZX, et al.
(14-x)SrCO₃-xCaCO₃-24CuO system to synthesize spin-ladder compounds Sr_{14-x}Ca_xCu₂₄O₄₁ using DTA and XRD techniques
CHINESE JOURNAL OF CHEMICAL PHYSICS 18 (4): 614-618 AUG 2005

17. Gossling A, Kuhlmann U, Thomsen C, et al.
Magnetic excitations in SrCu₂O₃: A Raman scattering study
PHYSICAL REVIEW B 67 (5): Art. No. 052403 FEB 1 2003

16. Zeng Y, Shi J, Yu ZX, et al.
Thermal behavior during the synthesis of spin-ladder compound Sr_{14-x}Ca_xCu₂₄O₄₁
MATERIALS LETTERS 59 (6): 662-666 MAR 2005

15. Lemmens P, Guntherodt G, Gros C
Magnetic light scattering in low-dimensional quantum spin systems
PHYS REP 375 (1): 1-103 FEB 2003

14. Natsume Y, Tada S, Suzuki T

The origin of the asymmetric shape for the exchange-scattering peak of $2\Delta(g)$ in the ladder antiferromagnet CaV_2O_5 with the singlet ground state

J PHYS CHEM SOLIDS 63 (6-8): 1361-1364 JUN-AUG 2002

13. Schmidt KP, Knetter C, Uhrig GS

Raman response in antiferromagnetic two-leg $S=1/2$ Heisenberg ladders
EUROPHYS LETT 56 (6): 877-883 DEC 2001

12. Tada S, Natsume Y, Suzuki T

Numerical study of magnetic Raman scattering spectra in ladder antiferromagnets - Exchange scatterings from the singlet ground state
J PHYS SOC JPN 70 (8): 2443-2447 AUG 2001

11. Cabra DC, Dobry A, Rossini GL

Nonperturbative effective-field theory for two-leg antiferromagnetic spin ladders
PHYS REV B 63 (14): art. no. 144408 APR 1 2001

10. Nucker N, Merz M, Kuntscher CA, et al.

Hole distribution in $(\text{Sr,Ca,Y,Lu})_{14}\text{Cu}_{24}\text{O}_{41}$ ladder compounds studied by x-ray absorption spectroscopy
PHYS REV B 62: (21) 14384-14392 DEC 1 2000

9. Strzeszewski J, Szymczak H, Leonyuk L, et al.

Raman scattering study of $(\text{Sr,Ca})_{10}\text{Cu}_{17}\text{O}_{29}$ single crystals
ACTA PHYS POL A 98: (4) 429-439 OCT 2000

8. Orignac E, Citro R

Raman scattering cross section of spin ladders
PHYS REV B 62: (13) 8622-8625 OCT 1 2000

7. Ogita N, Fujita Y, Sakaguchi Y, et al.

Raman scattering study of $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$
J PHYS SOC JPN 69: (8) 2684-2690 AUG 2000

6. Popovic ZV, Konstantinovic MJ, Ivanov VA, et al.

Optical properties of the spin-ladder compound $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$
PHYS REV B 62: (8) 4963-4972 AUG 15 2000

5. Osada, M, Kakihana, M, Nagai, I, Noji, T.; Adachi, T, Koike, Y, Backstrom, J, Kall, M, Borjesson, L

Charge and spin dynamics in spin-ladder $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$ investigated by Raman scattering
ADVANCES IN SUPERCONDUCTIVITY XII Pages: 188-190 Published: 2000

4. Osada M, Kakihana M, Nagai I, et al.

Raman-active phonons and their doping dependence in spin-ladder $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$
PHYSICA C 338: (1-2) 161-165 AUG 1 2000

3. Nagai, I, Osada, M., Kakihana, M., Noji, T., Adachi, T., Koike, Y.

Raman scattering study of $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$
Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy 46 (9), pp. 1004-1008 (1999)

2. Sugai S, Suzuki M

Magnetic Raman scattering in two-leg spin ladder $\text{Sr}_{14-x}\text{Y}_x\text{Cu}_{24}\text{O}_{41}$
PHYS STATUS SOLIDI B 215: (1) 653-659 SEP 1999

1. Natsume Y, Watabe Y, Suzuki T

Numerical study of magnetic Raman spectra by the exchange-scattering in the antiferromagnetic ladder with two-legs
J PHYS SOC JPN 67: (9) 3314-3315 SEP 1998

22. "Raman Spectroscopy of Orthorhombic Perovskite-Like YMnO_3 and LaMnO_3 "

M. N. Iliev, M. V. Abrashev, H. G. Lee, V. N. Popov, Y. Y. Sun, C. Thomsen, R. L. Meng, and C. W. Chu

Phys. Rev. B 57 (1998) 2872 - 2877.

519. Electrochemical and magnetic properties of perovskite type RMnO_3 ($R = \text{La, Nd, Sm, Eu}$) nanofibers

Hu, Q., Yue, B., Yang, F., (...), Wang, Y., Liu, J.
Journal of Alloys and Compounds 872,159727 (2021)

518. Characterization of structure and properties in $\text{CaO-Nd}_2\text{O}_3\text{-TiO}_2$ microwave dielectric ceramic modified by Al_2O_3

Xiong, Z., Zhang, X.,
Materials Characterization 176,111108 (2021)

517. Influence of Ba^{2+} Doping on Structural and Electrical Transport Properties of YMnO_3 Ceramics

Shukla, J., Mishra, A.
Journal of Superconductivity and Novel Magnetism 34(2), pp. 451-459 (2021)

516. Tuning Jahn-Teller distortion and electron localization of LaMnO_3 epitaxial films via substrate temperature

- Chen, X (Chen, Xin) Wang, BH (Wang, Baohua) Chen, Y (Chen, Yang) Wei, HM (Wei, Haoming) Cao, BQ (Cao, Bingqiang)
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume54 Issue23 Article Number235302 PublishedJUN 10 2021
515. Raman spectroscopy of SrZrO₃ based proton conducting electrolyte: Effect of Y-doping and Sr-nonstoichiometry
Shkerin, SN (Shkerin, S. N.) Rudakova, AV (Rudakova, A. V.) Bulanin, KM (Bulanin, K. M.) Khaliullina, AS (Khaliullina, A. Sh)
Meshcherskikh, AN (Meshcherskikh, A. N.) Vovkotrub, EG (Vovkotrub, E. G.) Dunyushkina, LA (Dunyushkina, L. A.)
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume46 Issue32 Page17007-17018 PublishedMAY 10 2021
514. Spin induced exchange bias and lattice modulation in Nd_{1-x}EuxCrO₃
Gupta, P (Gupta, Pragya) Pal, D (Pal, D.)
JOURNAL OF PHYSICS-CONDENSED MATTER Volume33 Issue13 Article Number135806 PublishedMAR 31 2021
513. A comparative study of the structural, optical, magnetic and magnetocaloric properties of HoCrO₃ and HoCr_{0.85}Mn_{0.15}O₃ orthochromites
Kanwar, K (Kanwar, Komal) Coondoo, I (Coondoo, Indrani) Anas, M (Anas, M.) Malik, VK (Malik, Vivek K.) Kumar, P (Kumar, Pradip)
Kumar, S (Kumar, Sandeep) Kulriya, PK (Kulriya, Pawan K.) Kaushik, SD (Kaushik, S. D.) Panwar, N (Panwar, Neeraj)
CERAMICS INTERNATIONAL Volume47 Issue6 Page7386-7397 PublishedMAR 15 2021
512. The Lattice Structure, Raman Spectra, Electronic Structure, and Magnetic Properties of RCrO₃ (R = Ho and Sm) Films: the Effect of Thickness
Zhang, HG (Zhang, Hongguang) Peng, HP (Peng, Haiping) Xie, L (Xie, Liang) Wang, Z (Wang, Zheng) Liu, LQ (Liu, Liqing) He, XM (He, Xuemin) Li, YT (Li, Yongtao)
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM DOI10.1007/s10948-020-05778-7 Early AccessMAR 2021
511. Spray-Flame Synthesis of LaMnO₃+delta Nanoparticles for Selective CO Oxidation (SELOX)
Angel, S (Angel, Steven) Tapia, JD (Tapia, Juan David) Gallego, J (Gallego, Jaime) Hagemann, U (Hagemann, Ulrich) Wiggers, H (Wiggers, Hartmut)
ENERGY & FUELS Volume35 Issue5 Page4367-4376 PublishedMAR 4 2021
510. Bi₂S₃ Nanowires: First-Principles Phonon Dynamics and Their Photocatalytic Environmental Remediation
Do, TAT (Do, T. Anh Thu) Vu, TTH (Vu, T. Thai Ha) Ho, GT (Giang Truong Ho) Pham, QN (Quang Ngan Pham) Giang, HT (Hong Thai Giang) Le, AT (Anh Thi Le) Man, MT (Minh Tan Man) Tran, DL (Dai Lam Tran)
JOURNAL OF PHYSICAL CHEMISTRY C Volume125 Issue7 Page4086-4091 PublishedFEB 25 2021
509. Breaking of inversion symmetry in NdGaO₃
De Krishna, B (De Krishna, Binoy) Dwij, V (Dwij, Vivek) Gupta, MK (Gupta, Mayanak K.) Mittal, R (Mittal, Ranjan) Bhatt, H (Bhatt, Himan) Reddy, VR (Reddy, V. R.) Sathe, VG (Sathe, V. G.)
PHYSICAL REVIEW B Volume103 Issue5 Article Number054106PublishedFEB 8 2021
508. Study of gadolinium substitution effects in hexagonal yttrium manganite YMnO₃
Karoblis, D (Karoblis, Dovydas) Zarkov, A (Zarkov, Aleksej) Garskaite, E (Garskaite, Edita) Mazeika, K (Mazeika, Kestutis) Baltrunas, D (Baltrunas, Dalis) Niaura, G (Niaura, Gediminas) Beganskiene, A (Beganskiene, Aldona) Kareiva, A (Kareiva, Aivaras)
SCIENTIFIC REPORTS Volume11 Issue1 Article Number2875 PublishedFEB 3 2021
507. Magnetic and Magnetocaloric Properties of Multiferroic Oxides Gd_{0.5}Y_{0.5}MnO₃ and Eu_{0.5}Dy_{0.5}MnO₃
Behera, PS (Behera, P. Suchismita) Nirmala, R (Nirmala, R.)
IEEE TRANSACTIONS ON MAGNETICS Volume57 Issue2 Article Number2200705 PublishedFEB 2021
506. Intrinsic structural distortion assisted optical and magnetic properties of orthorhombic rare-earth perovskite La_{1-x}EuxCrO₃: Effect of t-e hybridization
Siddique, MN (Siddique, M. Naseem) Faizan, M (Faizan, Mohd) Riyajuddin, S (Riyajuddin, Sk) Tripathi, P (Tripathi, P.) Ahmad, S (Ahmad, Shabbir) Ghosh, K (Ghosh, Kaushik)
JOURNAL OF ALLOYS AND COMPOUNDS Volume850 Article Number156748 PublishedJAN 5 2021
505. Strong Impact of Cr Doping on Structural and Magnetic Properties of Bi_{0.5}La_{0.5}Fe_{1-x}Cr_xO₃-delta
Dang, NT (Dang, N. T.) Rutkauskas, AV (Rutkauskas, A. V.) Kichanov, SE (Kichanov, S. E.) Kozlenko, DP (Kozlenko, D. P.) Nguyen, HH (Nguyen, H. H.) Tran, N (Tran, N.) Lee, MY (Lee, M. Y.) Lee, BW (Lee, B. W.) Phan, TL (Phan, T. L.) Khiem, LH (Khiem, L. H.)
JOURNAL OF ELECTRONIC MATERIALS Volume50 Issue3 Page1340-1348 Special IssueSI PublishedMAR 2021
504. Subsolidus phase relationship in the Y₂O₃-Mn₃O₄-CoO_x system in air
Song, YJ (Song, Y. J.) He, LM (He, L. M.) Yan, JL (Yan, J. L.)
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume41 Issue1 Page472-479 PublishedJAN 2021
503. Effect of magnesium on the XPS and Raman spectra of (Ba_{0.5}Sr_{0.5})(Al_{0.2-x}MgxFe_{0.8})O_{3-xi} (x <= 0.2)
Jaiswal, SK (Jaiswal, Shivendra Kumar) Kashyap, VK (Kashyap, Vijay Kumar) Kumar, J (Kumar, Jitendra)
JOURNAL OF ASIAN CERAMIC SOCIETIES Volume9 Issue1 Page140-149 PublishedJAN 2 2021
502. Portable handheld Raman spectrometer for the identification of new psychoactive substances
Li, B., Wang, S., Zhang, M., Jia, Q., Wang, Q.
Hongwai yu Jiguang Gongcheng/Infrared and Laser Engineering 49,20200101 (2020)
501. Influence of Fe doping on microstructure and magnetic properties of YCrO₃
Su, Y., Guo, J., Shi, C., (...), Wang, Y., Li, Z.
Gongneng Cailiao/Journal of Functional Materials 51(3), pp. 03075-03081 (2020)
500. The influence of calcination temperature on the structural properties of La₂FeMnO₆double perovskite materials

- Yunida, Triyono, D.
IOP Conference Series: Materials Science and Engineering 902(1),012027 (2020)
499. Raman spectroscopy of SrZrO₃ based proton conducting electrolyte: Effect of Y-doping and Sr-nonstoichiometry
Shkerin, S.N., Rudakova, A.V., Bulanin, K.M., (...), Vovkotrub, E.G., Dunyushkina, L.A.
International Journal of Hydrogen Energy (Article in Press) 2020
498. Phase transition and multiferroic properties of Zr-doped BiFeO₃ thin films
Ma, ZB (Ma, Zhibiao) Liu, HY (Liu, Huiying) Wang, LX (Wang, Lingxu) Zhang, FQ (Zhang, Fengqing) Zhu, LY (Zhu, Luyi) Fan, SH (Fan, Suhua)
JOURNAL OF MATERIALS CHEMISTRY C Volume8 Issue48 Page17307-17317 PublishedDEC 28 2020
497. Local ferroelectric polarization in antiferroelectric chalcogenide perovskite BaZrS₃ thin films
Pandey, J (Pandey, Juh) Ghoshal, D (Ghoshal, Debjit) Dey, D (Dey, Dibyendu) Gupta, T (Gupta, Tushar) Taraphder, A (Taraphder, A.) Koratkar, N (Koratkar, Nikhil) Soni, A (Soni, Ajay)
PHYSICAL REVIEW B Volume102 Issue20 Article Number205308 PublishedNOV 30 2020
496. Morphologically tuned LaMnO₃ as an efficient nanocatalyst for the removal of organic dye from aqueous solution under sunlight
Priyatharshni, S (Priyatharshni, S.) Kumar, SR (Kumar, S. Rajesh) Viswanathan, C (Viswanathan, C.) Ponpandian, N (Ponpandian, N.)
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING Volume8 Issue5 Article Number104146 PublishedOCT 2020
495. Co-substitution tailored dielectric relaxation and electrical conduction in lanthanum orthoferrite
Rai, A (Rai, Atma) Thakur, AK (Thakur, Awalendra K.)
CERAMICS INTERNATIONAL Volume46 Issue14 Page22752-22765 PublishedOCT 1 2020
494. Influence of Ba(2+)Doping on Structural and Electrical Transport Properties of YMnO(3)Ceramics
Shukla, J (Shukla, Jyoti) Mishra, A (Mishra, Ashutosh)
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume34 Issue2 Page451-459 PublishedFEB 2021
493. Magnetocaloric effect and spin-phonon correlations in RFe_{0.5}Cr_{0.5}O₃ (R = Er and Yb) compounds
Yadav, K (Yadav, Kavita) Kaur, G (Kaur, Gurpreet) Sharma, MK (Sharma, Mohit K.) Mukherjee, K (Mukherjee, K.)
PHYSICS LETTERS A Volume384 Issue26 Article Number126638 PublishedSEP 18 2020
492. Evidence of weak antilocalization in quantum interference effects of (001) oriented La_{0.7}Sr_{0.3}MnO₃-SrRuO₃ superlattices
Helen, RS (Helen, Roshna Sobhanan) Prellier, W (Prellier, Wilfrid) Padhan, P (Padhan, Prahallad)
JOURNAL OF APPLIED PHYSICS Volume128 Issue3 Article Number033906 PublishedJUL 21 2020
491. Impact of texturing on the phase transitions in sol-gel-processed Bi(Sm)FeO(3)thin films on LaNiO₃-buffered silicon
Liu, LS (Liu, Lisha) Qiu, XF (Qiu, Xiaofu) Zhang, SW (Zhang, Suwei) Zhou, Z (Zhou, Zhen) Huang, Y (Huang, Yu) Shu, L (Shu, Liang) Cheng, YYS (Cheng, Yue-Yu-Shan) Wang, XP (Wang, Xuping) Li, JF (Li, Jing-Feng)
JOURNAL OF THE AMERICAN CERAMIC SOCIETY Volume103 Issue11 Page6554-6564 PublishedNOV 2020
490. Re-entrant spin reorientation transition and Griffiths-like phase in antiferromagnetic TbFe_{0.5}Cr_{0.5}O₃
Mali, B (Mali, Bhawana) Nair, HS (Nair, Hari Krishnan S.) Heitmann, TW (Heitmann, T. W.) Nhalil, H (Nhalil, Hariharan) Antonio, D (Antonio, Daniel) Gofryk, K (Gofryk, Krzysztof) Bhandari, SR (Bhandari, Shalika Ram) Ghimire, MP (Ghimire, Madhav Prasad) Elizabeth, S (Elizabeth, Sujia)
PHYSICAL REVIEW B Volume102 Issue1 Article Number014418 PublishedJUL 13 2020
489. Surface Conditions That Constrain Alkane Oxidation on Perovskites
Koch, G (Koch, Gregor) Havecker, M (Havecker, Michael) Teschner, D (Teschner, Detre) Carey, SJ (Carey, Spencer J.) Wang, YQ (Wang, Yuanqing) Kube, P (Kube, Pierre) Hetaba, W (Hetaba, Walid) Lunkenbein, T (Lunkenbein, Thomas) Auffermann, G (Auffermann, Gudrun) Timpe, O (Timpe, Olaf)
ACS CATALYSIS Volume10 Issue13 Page7007-7020 PublishedJUL 2 2020
488. Dielectric relaxation, magneto-dielectric coupling, and pyrocurrent anomaly in point defect controlled HoCrO₃
Anusree, VK (Anusree, V. K.) Lekshmi, PN (Lekshmi, P. Neenu) Bhat, SG (Bhat, Shwetha G.) Wagh, AA (Wagh, Aditya A.) Das, G (Das, Gangadhar) Santhosh, PN (Santhosh, P. N.)
JOURNAL OF APPLIED PHYSICS Volume127 Issue19 Article Number194105 PublishedMAY 21 2020
487. A Fast, Low-Temperature Synthesis Method for Hexagonal YMnO₃: Kinetics, Purity, Size and Shape as Studied by In Situ X-ray Diffraction
Marshall, KP (Marshall, Kenneth P.) Blichfeld, AB (Blichfeld, Anders B.) Skjaervo, SL (Skjaervo, Susanne L.) Grendal, OG (Grendal, Ola G.) van Beek, W (van Beek, Wouter) Selbach, SM (Selbach, Sverre M.) Grande, T (Grande, Tor) Einarsrud, MA (Einarsrud, Mari-Ann)
CHEMISTRY-A EUROPEAN JOURNAL Volume26 Issue42 Page9330-9337 Special IssueSI PublishedJUL 27 2020
486. Room-temperature magnetization reversal and magnetocaloric switching in Fe substituted GdMnO₃
Pal, A (Pal, Arnab) Mohan, M (Mohan, Manu) Venimadhav, A (Venimadhav, Adyam) Murugavel, P (Murugavel, Pattukkannu)
PHYSICAL REVIEW MATERIALS Volume4 Issue4 Article Number044407 PublishedAPR 24 2020
485. Enhanced ferromagnetism and conductivity in epitaxial LaMnO₃ thin films by oxygen-atmosphere annealing
Sun, QC (Sun, Qinchao) Luo, X (Luo, Xin) Xia, QT (Xia, Qingtao) Guo, YF (Guo, Yunfeng) Su, J (Su, Jie) Li, Q (Li, Qiang) Miao, GX (Miao, Guoxing)
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume499 Article Number166317 PublishedAPR 1 2020
484. Preparation of Multiferroic YFeO₃ Nanofibers and the Photocatalytic Activity under Visible Irradiation

Zhang, RL (Zhang, Runlan) Wang, XQ (Wang, Xiaoqin) Yu, CX (Yu, Chunxia) Liu, J (Liu, Jian) Yao, JJ (Yao, Junjie) Kang, XY (Kang, Xiaoying) Xing, XX (Xing, Xingxing) Xiong, SX (Xiong, Shanxin)
 INTEGRATED FERROELECTRICS Volume206 Issue1 Page105-111 Special IssueSI PublishedMAR 23 2020

483. Atomic layer deposition of YMnO₃ thin films

Choi, JH (Choi, Ju H.)Pham, C (Pham, Calvin) Dorman, J (Dorman, James) Kim, T (Kim, Taeseung) Chang, JP (Chang, Jane P.)
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume498 Article Number166146 PublishedMAR 15 2020

482. Electronic configuration and magnetic properties of La_{0.7}Ca_{0.3}Mn_{1-x}Fe_xO₃ perovskite NPs: The effect of a lower Fe³⁺ concentration

Martinez-Rodriguez, HA (Martinez-Rodriguez, H. A.) Onyekachi, K (Onyekachi, Kalu) Concha-Balderrama, A (Concha-Balderrama, A.) Herrera-Perez, G (Herrera-Perez, G.) Matutes-Aquino, JA (Matutes-Aquino, J. A.) Jurado, JF (Jurado, J. F.) Bocanegra-Bernal, MH (Bocanegra-Bernal, M. H.) Ramos-Sanchez, VH (Ramos-Sanchez, V. -H.) Duarte-Moller, JA (Duarte-Moller, J. A.) Reyes-Rojas, A (Reyes-Rojas, A.)
 JOURNAL OF ALLOYS AND COMPOUNDS Volume816 Article Number152668 PublishedMAR 5 2020

481. Strain modulated magnetocaloric effect in (111) oriented La_{0.7}Sr_{0.3}MnO₃-SrRuO₃ superlattices

Roshna, SH (Roshna, S. H.) Prellier, WP (Prellier, W.) Padhan, PP (Padhan, P.)
 NANOSCALE Volume12 Issue8 Page5151-5158 PublishedFEB 28 2020

480. Spin phonon coupling in Mn doped HoFeO₃ compounds exhibiting spin reorientation behaviour

Prakash, P (Prakash, Pulkit) Sathe, V (Sathe, Vasant) Prajapat, CL (Prajapat, C. L.) Nigam, AK (Nigam, A. K.) Krishna, PSR (Krishna, P. S. R.) Das, A (Das, A.)
 JOURNAL OF PHYSICS-CONDENSED MATTER Volume32 Issue9 Article Number095801 PublishedFEB 27 2020

479. Magnetocaloric effect in mixed rare earth manganite Gd_{0.5}Dy_{0.5}MnO₃

Behera, PS (Behera, P. Suchismita) Nirmala, R (Nirmala, R.) Edited by Shekhawat, MS (Shekhawat, MS) Bhardwaj, S (Bhardwaj, S) Suthar, B (Suthar, B)
 3RD INTERNATIONAL CONFERENCE ON CONDENSED MATTER & APPLIED PHYSICS (ICC-2019) Book SeriesAIP Conference Proceedings Volume2220 Article Number110019 Published2020

478. Low temperature dielectric study of La₂CuMnO₆ ceramics

Singh, DN (Singh, D. N.) Mahato, DK (Mahato, Dev K.)
 MATERIALS TODAY-PROCEEDINGS Volume29 Page768-771 Special IssueSI Part3 Published2020

477. Temperature dependent X-ray diffraction and Raman spectroscopy studies of polycrystalline YCrO₃ ceramics across the T-C similar to 460 K

Mall, AK (Mall, Ashish Kumar) Paul, B (Paul, Barnita) Garg, A (Garg, Ashish) Gupta, R (Gupta, Rajeev)
 JOURNAL OF RAMAN SPECTROSCOPY Volume51 Issue3 Page537-545 PublishedMAR 2020

476. Orbital Floquet engineering of exchange interactions in magnetic materials

Chaudhary, S., Hsieh, D., Refael, G.
 Physical Review B 100(22),220403 (2019)

475. Strain-dependent structure and Raman behaviours in the heavy-ion irradiated manganite at extreme low dose

Hoang, N.N., Pham, D.H.Y., Nguyen, T.N.
 Scientific Reports 9(1), 19204 (2019)

474. Strain tuning effects in perovskites (Book Chapter)

Cheng, Z., Hong, F., Jia, T., (...), Ozawa, K., Kimura, H.
 Nanoscale Ferroelectric-Multiferroic Materials for Energy Harvesting Applications pp. 23-39 (2019)

473. Low temperature dielectric study of La₂CuMnO₆ ceramics

Singh, D.N., Mahato, D.K.
 Materials Today: Proceedings 29, pp. 768-771 (2019)

472. X-ray diffraction and Raman spectroscopy for lead halide perovskites (Book Chapter)

Rahman, M.Z., Edvinsson, T.
 Characterization Techniques for Perovskite Solar Cell Materials pp. 23-47 (2019)

471. Study of structural and dielectric properties of La_{0.9}Na_{0.1}CrO₃- and Ni_{0.5}Cu_{0.5}Fe₂O₄-based composites

Saleem, M (Saleem, M.) Chouhan, S (Chouhan, Shivani) Mishra, A (Mishra, A.)
 JOURNAL OF ADVANCED DIELECTRICS Volume9 Issue6 Article Number1950044 PublishedDEC 2019

470. Potential of Raman spectroscopy towards understanding structures of carbon-based materials and perovskites

Selvarajan, P (Selvarajan, Premkumar) Chandra, G (Chandra, Goutam) Bhattacharya, S (Bhattacharya, Susmita) Sil, S (Sil, Sanchita) Vinu, A (Vinu, Ajayan) Umapathy, S (Umapathy, Siva)
 EMERGENT MATERIALS Volume2 Issue4 Page417-439 PublishedDEC 2019

469. Yttrium Manganese Oxide Phase Stability and Selectivity Using Lithium Carbonate Assisted Metathesis Reactions

Todd, PK (Todd, Paul K.) Smith, AMM (Smith, Antoinette M. M.) Neilson, JR (Neilson, James R.)
 INORGANIC CHEMISTRY Volume58 Issue22 Page15166-15174 PublishedNOV 18 2019

468. First-principles study of structural, electronic, ferroelectric, and vibrational properties of BiInO₃ under high pressure

Kaczowski, J (Kaczowski, J.)
 JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume134 Page225-237 PublishedNOV 2019

467. In Situ Observation of Thermally Induced Structural Transitions in Vacancy-Doped Cuprous Telluride (Cu_{2-x}Te) Nanowires Using Raman Spectroscopy
Chen, CJ (Chen, Caiju) Liao, ML (Liao, Mengling) Shan, BB (Shan, Beibei) Li, M (Li, Ming)
JOURNAL OF PHYSICAL CHEMISTRY C Volume123 Issue40 Page24763-24771 PublishedOCT 10 2019
466. Structure and physical properties of $\text{SeCo}_{1-x}\text{Mn}_x\text{O}_3$
Ridley, CJ (Ridley, Christopher J.) Knight, KS (Knight, Kevin S.) Wilson, CW (Wilson, Craig W.) Smith, RI (Smith, Ronald, I) Bull, CL (Bull, Craig L.)
JOURNAL OF PHYSICS-CONDENSED MATTER Volume31 Issue39 Article Number395402 PublishedOCT 2 2019
465. Polaronic Emergent Phases in Manganite-Based Heterostructures
Moshnyaga, V (Moshnyaga, Vasily) Samwer, K (Samwer, Konrad)
CRYSTALS Volume9 Issue10 Article Number489 PublishedOCT 2019
464. Vapor-Phase Incommensurate Heteroepitaxy of Oriented Single-Crystal CsPbBr_3 on GaN: Toward Integrated Optoelectronic Applications
Zhao, LY (Zhao, Liyun) Gao, Y (Gao, Yan) Su, M (Su, Man) Shang, QY (Shang, Qiuyu) Liu, Z (Liu, Zhen) Li, Q (Li, Qi) Wei, Q (Wei, Qi) Li, ML (Li, Meili) Fu, L (Fu, Lei) Zhong, YG (Zhong, Yangguang)
ACS NANO Volume13 Issue9 Page10085-10094 PublishedSEP 2019
463. Conventional synthesis and characterization of cubically ordered $\text{La}_2\text{FeMnO}_6$ double perovskite compound
Dhilip, M (Dhilip, M.) Devi, NA (Devi, N. Aparna) Punitha, JS (Punitha, J. Stella) Anbarasu, V (Anbarasu, V) Kumar, KS (Kumar, K. Saravana)
VACUUM Volume167 Page16-20 PublishedSEP 2019
462. Significance of isostructural distortion and strong magnetoelastic coupling in the weak ferromagnet $\text{YFe}_{0.9}\text{Cr}_{0.1}\text{O}_3$
Raut, S (Raut, Subhajit) Kar, B (Kar, Biman) Velaga, S (Velaga, Srihari) Poswal, HK (Poswal, Himanshu K.) Panigrahi, S (Panigrahi, S.)
JOURNAL OF APPLIED PHYSICS Volume126 Issue7 Article Number074103 PublishedAUG 21 2019
461. Self-doped $\text{La}_{1-x}\text{MnO}_3+\delta$ perovskites: Electron state hybridization and Raman modes
Ulyanov, AN (Ulyanov, A. N.) Sidorov, AV (Sidorov, A., V) Pismenova, NE (Pismenova, N. E.) Goodilin, EA (Goodilin, E. A.) Savilov, SV (Savilov, S., V)
SOLID STATE SCIENCES Volume94 Page41-44 PublishedAUG 2019
460. Crystal structure and vibrational spectra of hexagonal manganites YMnO_3 and LuMnO_3 under high pressure
Jabarov, SH (Jabarov, S. H.) Dang, NT (Dang, N. T.) Kichanov, SE (Kichanov, S. E.) Kozlenko, DP (Kozlenko, D. P.) Dubrovinsky, LS (Dubrovinsky, L. S.) Park, JG (Park, Je-Geun) Lee, S (Lee, Seongsu) Mammadov, AI (Mammadov, A., I) Mehdiyeva, RZ (Mehdiyeva, R. Z.) Savenko, BN (Savenko, B. N.)
MATERIALS RESEARCH EXPRESS Volume6 Issue8 Article Number086110 PublishedAUG 2019
459. Photo-Fenton Activity of Magnesium Substituted Cerium Ferrite Perovskites for Degradation of Methylene Blue via Sol-Gel Method
Anantharaman, A (Anantharaman, Ashwini) Josephine, BA (Josephine, B. Avila) Teresita, VM (Teresita, V. Mary) Ajeesha, TL (Ajeesha, T. L.) George, M (George, Mary)
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY Volume19 Issue8 Page5116-5129 PublishedAUG 2019
458. Griffiths phase-like behavior and origin of spin-phonon interaction in $\text{Eu}_{0.75}\text{Y}_{0.25}\text{MnO}_3$
Gupta, S (Gupta, Surbhi) Sharma, G (Sharma, Gaurav) Reddy, VR (Reddy, V. R.) Sathe, VG (Sathe, V. G.) Siruguri, V (Siruguri, V)
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume482 Page38-43 PublishedJUL 15 2019
457. Investigation of multi-mode spin-phonon coupling and local B-site disorder in $\text{Pr}_2\text{CoFeO}_6$ by Raman spectroscopy and correlation with its electronic structure by XPS and XAS studies
Pal, A (Pal, Arkadeb) Ghosh, S (Ghosh, Surajit) Joshi, AG (Joshi, Amish G.) Kumar, S (Kumar, Shiv) Patil, S (Patil, Swapnil) Gupta, PK (Gupta, Prince K.) Singh, P (Singh, Prajyoti) Gangwar, VK (Gangwar, V. K.) Prakash, P (Prakash, P.) Singh, RK (Singh, Ranjan K.)
JOURNAL OF PHYSICS-CONDENSED MATTER Volume31 Issue27 Article Number275802 PublishedJUL 10 2019
456. Evidence for ferromagnetic clusters at room temperature in Dy and Mn site co-substituted compounds: $\text{Dy}_{0.55}\text{Sr}_{0.45}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$
Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Satya, AT (Satya, A. T.) Sethupathi, K (Sethupathi, K.)
JOURNAL OF ALLOYS AND COMPOUNDS Volume792 Page411-417 PublishedJUL 5 2019
455. Structural, electrical, optical and magnetic properties of SmCrO_3 chromites: Influence of Gd and Mn co-doping
Panwar, N (Panwar, Neeraj) Coondoo, I (Coondoo, Indrani) Kumar, S (Kumar, Surendra) Kumar, S (Kumar, Sandeep) Vasundhara, M (Vasundhara, M.) Rao, A (Rao, Ashok)
JOURNAL OF ALLOYS AND COMPOUNDS Volume792 Page1122-1131 PublishedJUL 5 2019
454. Raman spectroscopy study of the La-modified $(\text{Bi}_{0.5}\text{Na}_{0.5})(0.92)\text{Ba}_{0.08}\text{TiO}_3$ lead-free ceramic system
Mendez-Gonzalez, Y (Mendez-Gonzalez, Y.) Pelaiz-Barranco, A (Pelaiz-Barranco, A.) Curcio, AL (Curcio, A. L.) Rodrigues, AD (Rodrigues, A. D.) Guerra, JDS (Guerra, J. D. S.)
JOURNAL OF RAMAN SPECTROSCOPY Volume50 Issue7 Page1044-1050 PublishedJUL 2019
453. Correlation between lattice strain and physical (magnetic, dielectric, and magnetodielectric) properties of perovskite-spinel $(\text{Bi}_{0.85}\text{La}_{0.15}\text{FeO}_3)(1-x)-(\text{NiFe}_2\text{O}_4)(x)$ composites
Pandey, R (Pandey, Rabichandra) Pradhan, LK (Pradhan, Lagen Kumar) Kumar, S (Kumar, Sunil) Supriya, S (Supriya, Sweetie) Singh, RK (Singh, Rakesh Kumar) Kar, M (Kar, Manoranjan)
JOURNAL OF APPLIED PHYSICS Volume125 Issue24 Article Number244105 PublishedJUN 28 2019

452. Jahn-Teller reconstructed surface of the doped manganites shown by means of surface-enhanced Raman spectroscopy
Merten, S (Merten, S.) Bruchmann-Bamberg, V (Bruchmann-Bamberg, V) Damaschke, B (Damaschke, B.) Samwer, K (Samwer, K.) Moshnyaga, V (Moshnyaga, V)
PHYSICAL REVIEW MATERIALS Volume3 Issue6 Article Number060401 PublishedJUN 28 2019
451. Electric field and temperature induced local polarization switching and piezoresponse in Bi_{0.88}Sm_{0.12}FeO₃ ceramics for nanoscale applications
Anthoniappen, J (Anthoniappen, Jesuraj) Chang, WS (Chang, Wei Sea) Ruiz, FM (Ruiz, Flora Mae) Tu, CS (Tu, Chi-Shun) Blaise, CT (Blaise, Carvyn Tutong) Chen, PY (Chen, Pin-Yi) Chen, CS (Chen, Cheng-Sao) Mana-ay, H (Mana-ay, Haidee)
JOURNAL OF ALLOYS AND COMPOUNDS Volume790 Page587-596 PublishedJUN 25 2019
450. Effects of a strong gravitational field on Mn-trimers and magnetic properties of hexagonal YMnO₃ single crystal
Tokuda, M (Tokuda, Makoto) Mashimo, T (Mashimo, Tsutomu) Ma, WJ (Ma, Weijian) Hayami, S (Hayami, Shinya) Ando, S (Ando, Shinji) Nishiyama, T (Nishiyama, Tadao) Yoshiasa, A (Yoshiasa, Akira)
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume129 Page172-179 PublishedJUN 2019
449. Mechano-synthesis of the Whole Y_{1-x}BixMn_{1-x}FexO₃ Perovskite System: Structural Characterization and Study of Phase Transitions
Quintana-Cilleruelo, JA (Angel Quintana-Cilleruelo, Jose)
Veerapandiyan, VK (Veerapandiyan, Vignaswaran K.) Deluca, M (Deluca, Marco) Alguero, M (Alguero, Miguel) Castro, A (Castro, Alicia)
MATERIALS Volume12 Issue9 Article Number1515 PublishedMAY 1 2019
448. Magnetic phase transition and multiferroic phase separation in Ho_{1-x}GdxMnO₃
Zhang, N (Zhang, N.) Wang, YP (Wang, Y. P.) Li, X (Li, X.) Liu, MF (Liu, M. F.) Liu, XN (Liu, X. N.) Li, N (Li, N.) Qiu, YJ (Qiu, Y. J.) Dong, RY (Dong, R. Y.) Fu, ZM (Fu, Z. M.) Guo, YY (Guo, Y. Y.)
CERAMICS INTERNATIONAL Volume45 Issue7 Page8325-8332 PartA PublishedMAY 2019
447. Phase separation and local lattice distortions analysis of charge-ordered manganese films La_{1-x}CaxMnO_{3-δ} by Raman spectroscopy
Trotsenko, VG (Trotsenko, V. G.) Lahmar, A (Lahmar, A.) Lyanguzov, NV (Lyanguzov, N. V.) El Marssi, M (El Marssi, M.) Torgashev, VI (Torgashev, V. I.)
SUPERLATTICES AND MICROSTRUCTURES Volume127 Page100-108 PublishedMAR 2019
446. Magnetic-Field-Induced Suppression of Jahn-Teller Phonon Bands in (La_{0.6}Pr_{0.4})(0.7)Ca_{0.3}MnO₃: the Mechanism of Colossal Magnetoresistance shown by Raman Spectroscopy
Merten, S (Merten, S.) Shapoval, O (Shapoval, O.) Damaschke, B (Damaschke, B.) Samwer, K (Samwer, K.) Moshnyaga, V (Moshnyaga, V)
SCIENTIFIC REPORTS Volume9 Article Number2387 PublishedFEB 20 2019
445. Mild Hydrothermal Crystallization of Heavy Rare-Earth Chromite RECrO₃ (RE = Er, Tm, Yb, Lu) Perovskites and Magnetic Properties
Wang, S (Wang, Shan) Wu, XF (Wu, Xiaofeng) Wang, TS (Wang, Tiesheng) Zhang, JQ (Zhang, Jiaqi) Zhang, CY (Zhang, Chenyang) Yuan, L (Yuan, Long) Cui, XQ (Cui, Xiaoqiang) Lu, DY (Lu, Dayong)
INORGANIC CHEMISTRY Volume58 Issue4 Page2315-2329 PublishedFEB 18 2019
444. Accelerated Ionic Motion in Amorphous Memristor Oxides for Nonvolatile Memories and Neuromorphic Computing
Schmitt, R (Schmitt, Rafael) Kubicek, M (Kubicek, Markus) Sediva, E (Sediva, Eva) Trassin, M (Trassin, Morgan) Weber, MC (Weber, Mads C.) Rossi, A (Rossi, Antonella) Hutter, H (Hutter, Herbert) Kreisel, J (Kreisel, Jens) Fiebig, M (Fiebig, Manfred) Rupp, JLM (Rupp, Jennifer L. M.)
ADVANCED FUNCTIONAL MATERIALS Volume29 Issue5 Article Number1804782 PublishedFEB 1 2019
443. Selective Formation of Yttrium Manganese Oxides through Kinetically Competent Assisted Metathesis Reactions
Todd, PK (Todd, Paul K.) Neilson, JR (Neilson, James R.)
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume141 Issue3 Page1191-1195 PublishedJAN 23 2019
442. Enhancing Capacitance of Nickel Cobalt Chalcogenide via Interface Structural Design
Lu, F (Lu, Fei) Zhou, M (Zhou, Min) Su, K (Su, Kun) Ye, T (Ye, Tao) Yang, YJ (Yang, Yijun) Lam, TD (Lam, Tran Dai) Bando, Y (Bando, Yoshio) Wang, X (Wang, Xi)
ACS APPLIED MATERIALS & INTERFACES Volume11 Issue2 Page2082-2092 PublishedJAN 16 2019
441. Effect of Ni doping on the structural, vibrational, optical and magnetic properties of YMn_{0.4}Fe_{0.6-x}Ni_xO₃ (0 ≤ x ≤ 0.1) nanoparticles
Chihouai, S (Chihouai, S.) Koubaa, M (Koubaa, M.) Cheikhrouhou-Koubaa, W (Cheikhrouhou-Koubaa, W.) Cheikhrouhou, A (Cheikhrouhou, A.) Guermazi, H (Guermazi, H.)
JOURNAL OF ALLOYS AND COMPOUNDS Volume771 Page327-334 PublishedJAN 15 2019
440. High pressure structural investigations on hexagonal YInO₃
Dwivedi, A (Dwivedi, Abhilash) Poswal, HK (Poswal, H. K.) Shukla, R (Shukla, R.) Velaga, S (Velaga, Srihari) Sahoo, BD (Sahoo, B. D.) Grover, V (Grover, V.) Deo, MN (Deo, M. N.)
HIGH PRESSURE RESEARCH Volume39 Issue1 Page17-35 PublishedJAN 2 2019
439. Processing and properties of pure antiferromagnetic h-YMnO₃
Pocuca-Nesic, M (Pocuca-Nesic, Milica) Stanojevic, ZM (Stanojevic, Zorica Marinkovic) Smole, PC (Smole, Patricia Cotic) Dapcevic, A (Dapcevic, Aleksandra) Tasic, N (Tasic, Nikola) Brankovic, G (Brankovic, Goran) Brankovic, Z (Brankovic, Zorica)
PROCESSING AND APPLICATION OF CERAMICS Volume13 Issue4 Page427-434 Published2019

438. Thin film nano-photocatalysts with low band gap energy for gas phase degradation of p-xylene: TiO₂ doped Cr, UiO66-NH₂ and LaBO₃ (B = Fe, Mn, and Co)
Luu, C.L., Van Nguyen, T.T., Nguyen, T., (...), Hoang, T.C., Ha, C.A.
Advances in Natural Sciences: Nanoscience and Nanotechnology 9(1),015003 2018
437. The effect of dynamic Jahn-Teller interaction on the Raman peaks in manganites
Sahu, A.K., Rout, G.C., Sahu, D.R.
African Review of Physics 13,0007, pp. 45-49 2018
436. Structural and electrical characterization of La₂ZnMnO₆ double perovskite
Singh, DN (Singh, D. N.) Mahato, DK (Mahato, Dev K.) Sinha, TP (Sinha, T. P.)
PHYSICA B-CONDENSED MATTER Volume550 Page400-406 PublishedDEC 1 2018
435. Temperature dependent percolation mechanism for conductivity in Y-0.63 Ca_{0.37}TiO₃ revealed by a microstructure study
German, R (German, R.) Zimmer, B (Zimmer, B.) Koethe, TC (Koethe, T. C.) Barinov, A (Barinov, A.) Komarek, AC (Komarek, A. C.)
Braden, M (Braden, M.) Parmigiani, F (Parmigiani, F.) van Loosdrecht, PHM (van Loosdrecht, P. H. M.)
MATERIALS RESEARCH EXPRESS Volume5 Issue12 Article Number126101 PublishedDEC 2018
434. Composition and thermal structural evolution in Pr modified bismuth ferrite near the morphotropic phase boundary
Tu, CS (Tu, Chi-Shun) Chen, CS (Chen, Cheng-Sao) Chen, PY (Chen, Pin-Yi) Hsieh, YL (Hsieh, Yi Lin) Chien, RR (Chien, R. R.)
Schmidt, VH (Schmidt, V. Hugo) Feng, KC (Feng, Kuei-Chih) Chang, HW (Chang, Huang-Wei)
JOURNAL OF ALLOYS AND COMPOUNDS Volume768 Page903-913 PublishedNOV 5 2018
433. Effect of rare earth ions on structural and optical properties of specific perovskite orthochromates; RCrO₃ (R = La, Nd, Eu, Gd, Dy, and Y)
Singh, KD (Singh, Kapil Dev) Pandit, R (Pandit, Rabia) Kumar, R (Kumar, Ravi)
SOLID STATE SCIENCES Volume85 Page70-75 PublishedNOV 2018
432. Raman Spectrum of the Organic-Inorganic Halide Perovskite CH₃NH₃PbI₃ from First Principles and High-Resolution Low-Temperature Raman Measurements
Perez-Osorio, MA (Perez-Osorio, Miguel A.) Lin, QQ (Lin, Qianqian) Phillips, RT (Phillips, Richard T.) Milot, RL (Milot, Rebecca L.)
Herz, LM (Herz, Laura M.) Johnston, MB (Johnston, Michael B.) Giustino, F (Giustino, Feliciano)
JOURNAL OF PHYSICAL CHEMISTRY C Volume122 Issue38 Page21703-21717 PublishedSEP 27 2018
431. Structural, magnetic and electrical properties of Fe substituted GdCrO₃
Dash, BB (Dash, Bibhuti. B.) Ravi, S (Ravi, S.)
SOLID STATE SCIENCES Volume83 Page192-200 PublishedSEP 2018
430. Magnetization reversal and exchange bias study in bulk Gd_{1-x}Y_xCrO₃ (x=0.0-1.0)
Dash, BB (Dash, Bibhuti B.) Ravi, S (Ravi, S.)
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume461 Page91-99 PublishedSEP 1 2018
429. Pressure induced anomalous magnetic behaviour in nanocrystalline YCrO₃ at room temperature
Jana, R (Jana, Rajesh) Pareek, V (Pareek, Vivek) Khatua, P (Khatua, Pradip) Saha, P (Saha, Pinku) Chandra, A (Chandra, Amreesh)
Mukherjee, GD (Mukherjee, Goutam Dev)
JOURNAL OF PHYSICS-CONDENSED MATTER Volume30 Issue33 Article Number335401 PublishedAUG 22 2018
428. Detail investigations of SmFeO₃ under extreme condition
Tyagi, S (Tyagi, Shekhar) Sathe, VG (Sathe, V. G.) Sharma, G (Sharma, Gaurav) Gupta, MK (Gupta, M. K.) Mittal, R (Mittal, R.) Srihari, V (Srihari, Velaga) Poswal, HK (Poswal, Himanshu Kumar)
MATERIALS CHEMISTRY AND PHYSICS Volume215 Page393-403 PublishedAUG 15 2018
427. Electric dipoles via Cr³⁺(d³) ion off-center displacement in perovskite DyCrO₃
Yi, LH (Yi, L. H.) Shi, TF (Shi, T. F.) Zhang, RR (Zhang, R. R.) Park, CB (Park, C. B.) Kim, KH (Kim, Kee Hoon) Yang, J (Yang, J.)
Tong, P (Tong, P.) Song, WH (Song, W. H.) Dai, JM (Dai, J. M.) Zhu, XB (Zhu, X. B.)
PHYSICAL REVIEW B Volume98 Issue5 Article Number054301 PublishedAUG 2 2018
426. Colossal magnetoresistance manganites
Bebenin, NG (Bebenin, N. G.) Zainullina, RI (Zainullina, R. I.) Ustinov, VV (Ustinov, V. V.)
PHYSICS-USPEKHI Volume61 Issue8 Page719-738 PublishedAUG 2018
425. The Jahn-Teller distortion influenced ferromagnetic order in Pr_{1-x}La_xMnO₃
He, FF (He, Feifei) Mao, ZQ (Mao, Zhongquan) Tang, LY (Tang, Lingyun) Zhang, J (Zhang, Jiang) Chen, X (Chen, Xi)
SOLID STATE COMMUNICATIONS Volume274 Page21-26 PublishedJUN 2018
424. Enhancement in magnetocaloric properties of ErCrO₃ via A-site Gd substitution
Shi, JH (Shi, Jianhang) Yin, SQ (Yin, Shiqi) Seehra, MS (Seehra, Mohindar S.) Jain, M (Jain, Menka)
JOURNAL OF APPLIED PHYSICS Volume123 Issue19 Article Number193901 PublishedMAY 21 2018
423. Rare earth indates (RE: La-Yb): influence of the synthesis route and heat treatment on the crystal structure
Shukla, R (Shukla, Rakesh) Grover, V (Grover, Vinita) Srinivasu, K (Srinivasu, Kancharlapalli) Paul, B (Paul, Barnita) Roy, A (Roy, Anushree) Gupta, R (Gupta, Ruma) Tyagi, AK (Tyagi, Avesh Kumar)
DALTON TRANSACTIONS Volume47 Issue19 Page6787-6799 PublishedMAY 21 2018

422. Grain boundary-dominated electrical conduction and anomalous optical-phonon behaviour near the Neel temperature in YFeO₃ ceramics
Raut, S (Raut, Subhajit) Babu, PD (Babu, P. D.) Sharma, RK (Sharma, R. K.) Pattanayak, R (Pattanayak, Ranjit) Panigrahi, S (Panigrahi, Simanchalo)
JOURNAL OF APPLIED PHYSICS Volume123 Issue17 Article Number174101 PublishedMAY 7 2018
421. The magnetic transition temperature tuned by strain in YMn_{0.9}Ru_{0.1}O₃ thin films
Yang, LP (Yang, L. P.) Zhang, AM (Zhang, A. M.) Wang, K (Wang, K.) Wu, XS (Wu, X. S.) Zhai, ZY (Zhai, Z. Y.)
AIP ADVANCES Volume8 Issue5 Article Number055805 PublishedMAY 2018
420. An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes
Chen, Y (Chen, Yu) Yoo, S (Yoo, Seonyoung) Li, XX (Li, Xiaxi) Ding, D (Ding, Dong) Pei, K (Pei, Kai) Chen, DC (Chen, Dongchang)
Ding, Y (Ding, Yong) Zhao, BT (Zhao, Bote) Murphy, R (Murphy, Ryan) Deglee, B (Deglee, Ben)
NANO ENERGY Volume47 Page474-480 PublishedMAY 2018
419. Spin-phonon coupling in HoCr_{1-x}FexO₃ (x=0 and 0.5) compounds
Kotnana, G (Kotnana, Ganesh) Sathe, VG (Sathe, Vasant. G.) Jammalamadaka, SN (Jammalamadaka, S. Narayana)
JOURNAL OF RAMAN SPECTROSCOPY Volume49 Issue4 Page764-770 PublishedAPR 2018
418. Effect of Yttrium substitution on the structural and magnetic properties of GdCrO₃
Dash, BB (Dash, Bibhuti B.) Ravi, S (Ravi, S.)
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume448 Page355-359 PublishedFEB 15 2018
417. Orbital wave in the Raman scattering cross section of LaMnO₃
Munkhbaatar, P (Munkhbaatar, Purevdorj) Myung-Whun, K (Myung-Whun, Kim)
PHYSICAL REVIEW B Volume97 Issue8 Article Number085101 PublishedFEB 1 2018
416. An In Situ Formed, Dual-Phase Cathode with a Highly Active Catalyst Coating for Protonic Ceramic Fuel Cells
Chen, Y (Chen, Yu) Yoo, S (Yoo, Seonyoung) Pei, K (Pei, Kai) Chen, DC (Chen, Dongchang) Zhang, L (Zhang, Lei) deGlee, B (deGlee, Ben) Murphy, R (Murphy, Ryan) Zhao, BT (Zhao, Bote) Zhang, YX (Zhang, Yanxiang) Chen, Y (Chen, Yan)
ADVANCED FUNCTIONAL MATERIALS Volume28 Issue5 Article Number1704907 PublishedJAN 31 2018
415. Structural dielectric and magnetic properties of (1-x) BiFeO₃-xBa(0.9)Ca(0.1)Ti(0.9)Sn(0.1)O(3) ceramics
Mizouri, F (Mizouri, F.) Kallel, I (Kallel, I.) Abdelmoula, N (Abdelmoula, N.) Mezzane, D (Mezzane, D.) Khemakhem, H (Khemakhem, H.)
JOURNAL OF ALLOYS AND COMPOUNDS Volume731 Page458-464 PublishedJAN 15 2018
414. Superconductor sandwiches: cuprate-manganite multilayers with a remarkable new ground state
Mallett, BPP (Mallett, B. P. P.) Marsik, P (Marsik, P.) Khmaladze, J (Khmaladze, J.) Arul, R (Arul, R.) Minola, M (Minola, M.) Simpson, MC (Simpson, M. C.) Bernhard, C (Bernhard, C.) Edited by Rogers, DJ (Rogers, DJ) Look, DC (Look, DC) Teherani, FH (Teherani, FH)
OXIDE-BASED MATERIALS AND DEVICES IX Book SeriesProceedings of SPIE Volume10533 Article NumberUNSP 105330Y
Published2018
413. Magnetocaloric effect and magnetic properties in YMnO₃ perovskite
Jabar, A (Jabar, A.) Masrour, R (Masrour, R.)
PHASE TRANSITIONS Volume91 Issue3 Page284-292 Published2018
412. The tunable spin reorientation, temperature induced magnetization reversal, and spontaneous exchange bias effect of Sm_{0.7}Y_{0.3}Cr_{1-x}GaxO₃
Ma, ZJ (Ma, Zhijie) Liu, GH (Liu, Guanghui) Gao, WJ (Gao, Weijun) Liu, YZ (Liu, Yuzhuang) Xie, L (Xie, Liang) He, XM (He, Xuemin) Liu, LQ (Liu, Liqing) Li, YT (Li, Yongtao) Zhang, HG (Zhang, Hongguang)
RSC ADVANCES Volume8 Issue58 Page33487-33495 Published2018
411. High pressure studies on nanocrystalline YCrO₃
Jana, R (Jana, Rajesh) Chandra, A (Chandra, Amreesh) Mukherjee, GD (Mukherjee, Goutam Dev)
Edited by Shekhawat, MS (Shekhawat, MS) Bhardwaj, S (Bhardwaj, S) Suthar, B (Suthar, B)
2ND INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND APPLIED PHYSICS (ICC-2017) Book SeriesAIP
Conference Proceedings Volume1953 Article Number030081 Published2018
410. Effect of Pb²⁺ Substitution at A-site on Structural and Magnetic Properties of LaMnO₃
Kumar, S (Kumar, Sunil) Pal, J (Pal, Jaswinder) Kaur, S (Kaur, Shubhpreet) Agrawal, P (Agrawal, P.) Singh, M (Singh, Mandeep) Singh, A (Singh, Anupinder)
Edited by Shekhawat, MS (Shekhawat, MS) Bhardwaj, S (Bhardwaj, S) Suthar, B (Suthar, B)
2ND INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND APPLIED PHYSICS (ICC-2017) Book SeriesAIP
Conference Proceedings Volume1953 Article Number120030 Published2018
409. Studies of dielectric and electrical transport characteristics of BaTiO₃BiFeO₃-CaSnO₃ ternary system
Hajra, S (Hajra, Sugato) Sahoo, S (Sahoo, Sushrisangita) Mishra, T (Mishra, Twinkle) Rout, PK (Rout, Pravat Kumar) Choudhary, RNP (Choudhary, Ram Naresh Prasad)
PROCESSING AND APPLICATION OF CERAMICS Volume12 Issue2 Page165-171 Published2018
408. Structural and spectroscopic studies on HoCr_{1-x}FexO₃ (x=0 and 0.5) Compounds
Kotnana, G (Kotnana, Ganesh) Sathe, VG (Sathe, V. G.) Jammalamadaka, SN (Jammalamadaka, S. Narayana)
62ND DAE SOLID STATE PHYSICS SYMPOSIUM Book SeriesAIP Conference Proceedings Volume1942 Article Number090040
Published2018

407. Modification of low temperature magnetic interactions in $\text{Dy}_{1-x}\text{Eu}_x\text{MnO}_3$
Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Sharma, S (Sharma, Shilpam) Satya, AT (Satya, A. T.)
RSC ADVANCES Volume8 Issue24 Page13537-13545 Published2018
406. Intrinsic structural distortion and exchange interactions in $\text{SmFe}_x\text{Cr}_{1-x}\text{O}_3$ compounds
Xiang, ZC (Xiang, Zhongcheng) Li, WP (Li, Wenping) Cui, YM (Cui, Yimin)
RSC ADVANCES Volume8 Issue16 Page8842-8848 Published2018
405. Tailoring of magnetic orderings in Fe substituted GdMnO_3 bulk samples towards room temperature
Pal, A (Pal, A.) Sekhar, CD (Sekhar, C. Dhana) Venimadhav, A (Venimadhav, A.) Murugavel, P (Murugavel, P.)
JOURNAL OF PHYSICS-CONDENSED MATTER Volume29 Issue40 Article Number405803 PublishedOCT 11 2017
404. Stojadinovic, Bojan; Dohcevic-Mitrovic, Zorana; Stepanenko, Dimitrije; et al.
Dielectric and ferroelectric properties of Ho-doped BiFeO_3 nanopowders across the structural phase transition
CERAMICS INTERNATIONAL Volume: 43 Issue: 18 Pages: 16531-16538 Published: DEC 15 2017
403. Ulyanov, A. N.; Savilov, S. V.; Sidorov, A. V.; et al.
Electron structure, Raman "vacancy" modes and Griffiths-like phase of self-doped $\text{Pr}_{1-x}\text{MnO}_3+\delta$ manganites
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 722 Pages: 77-82 Published: OCT 25 2017
402. Gross, Nelson; Sun, Yi-Yang; Perera, Samanthe; et al.
Stability and Band-Gap Tuning of the Chalcogenide Perovskite BaZrS_3 in Raman and Optical Investigations at High Pressures
PHYSICAL REVIEW APPLIED Volume: 8 Issue: 4 Article Number: 044014 Published: OCT 25 2017
401. Mansouri, Sabeur; Jandl, Serge; Mukhin, Alexander; et al.
A comparative Raman study between PrMnO_3 , NdMnO_3 , TbMnO_3 and DyMnO_3
SCIENTIFIC REPORTS Volume: 7 Article Number: 13796 Published: OCT 23 2017
400. Turki, D.; Ghouri, Zafar Khan; Al-Meer, Saeed; et al.
Synthesis and Physicochemical Studies of Perovskite Manganite $\text{La}_{0.8}\text{Ca}_{0.2}\text{Nn}_{1-x}\text{Co}_x\text{O}_3$ ($0 \leq x \leq 0.3$)
JOURNAL OF MAGNETICS Volume: 22 Issue: 3 Pages: 353-359 Published: SEP 2017
399. Kumar, Shiv; Dwivedi, G. D.; Joshi, Amish G.; et al.
Study of structural, dielectric, optical properties and electronic structure of Cr-doped LaInO_3 perovskite nanoparticles
MATERIALS CHARACTERIZATION Volume: 131 Pages: 108-115 Published: SEP 2017
398. Antunes, Isabel; Amador, Ulises; Alves, Adriana; et al.
Structure and Electrical -Transport Relations in $\text{Ba}(\text{Zr},\text{Pr})\text{O}_{3-\delta}$ Perovskites
INORGANIC CHEMISTRY Volume: 56 Issue: 15 Pages: 9120-9131 Published: AUG 7 2017
397. Hernandez-Rodriguez, M. A.; Monteseguro, V.; Lozano-Gorrin, A. D.; et al.
Structural, Vibrational, and Elastic Properties of Yttrium Orthoaluminate Nanoperovskite at High Pressures
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 121 Issue: 28 Pages: 15353-15367 Published: JUL 20 2017
396. Lazarevic, Zorica Z.; Jovalekic, Cedimir; Gilic, Martina; et al.
Yttrium Orthoferrite Powder Obtained by the Mechanochemical Synthesis
SCIENCE OF SINTERING Volume: 49 Issue: 3 Pages: 277-284 Published: JUL-SEP 2017
395. Abdel-Latif, I. A.; Ismail, Adel A.; Faisal, M.; et al.
Impact of the annealing temperature on perovskite strontium doped neodymium manganites nanocomposites and their photocatalytic performances
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS Volume: 75 Pages: 174-182 Published: JUN 2017
394. Thygesen, Peter M. M.; Young, Callum A.; Beake, Edward O. R.; et al.
Local structure study of the orbital order/disorder transition in LaMnO_3
PHYSICAL REVIEW B Volume: 95 Issue: 17 Article Number: 174107 Published: MAY 30 2017
393. Shimamoto, Kenta; Mukherjee, Saumya; Bingham, Nicholas S.; et al.
Single-axis-dependent structural and multiferroic properties of orthorhombic RMnO_3 ($\text{R} = \text{Gd-Lu}$)
PHYSICAL REVIEW B Volume: 95 Issue: 18 Article Number: 184105 Published: MAY 8 2017
392. Singh, Amit Kumar; Chauhan, Samta; Balasubramanian, Padmanabhan; et al.
Influence of substrate induced strain on B-site ordering and magnetic properties of $\text{Nd}_2\text{NiMnO}_6$ epitaxial thin films
THIN SOLID FILMS Volume: 629 Pages: 49-54 Published: MAY 1 2017
391. Koval, Vladimir; Skorvanek, Ivan; Durisin, Juraj; et al.
Terbium-induced phase transitions and weak ferromagnetism in multiferroic bismuth ferrite ceramics
JOURNAL OF MATERIALS CHEMISTRY C Volume: 5 Issue: 10 Pages: 2669-2685 Published: MAR 14 2017
390. Sarkar, Tanushree; Manna, Kaustuv; Elizabeth, Suja; et al.
Investigation of multiferroicity, spin-phonon coupling, and unusual magnetic ordering close to room temperature in $\text{LuMn}_{0.5}\text{Fe}_{0.5}\text{O}_3$
JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 8 Article Number: 084102 Published: FEB 28 2017
389. Narayanan, N.; Graham, P. J.; Reynolds, N.; et al.
Subpicometer-scale atomic displacements and magnetic properties in the oxygen-isotope substituted multiferroic DyMnO_3

388. Thakur, Samita; Singh, K.; Pandey, O. P.
Sr doped BiMO₃ (M = Mn, Fe, Y) perovskites: Structure correlated thermal and electrical properties
MATERIALS CHEMISTRY AND PHYSICS Volume: 187 Pages: 96-103 Published: FEB 1 2017
387. Concha-Balderrama, A.; Rojas-George, G.; Alvarado-Flores, J.; et al.
Nucleation and growth kinetics of La_{0.7}Sr_{0.3}Cr_{0.4}Mn_{0.6}O_{3-δ} SOFC perovskite: Symmetry alteration evolution induced by Cu²⁺ and Ni²⁺ impregnation
PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL Volume: 26 Issue: 6 Pages: 665-670 Published: DEC 2016
386. Sathe, V.G., Tyagi, S., Sharma, G.
Electron-phonon coupling in perovskites studied by Raman Scattering
Journal of Physics: Conference Series 755(1), 12008 DOI: 10.1088/1742-6596/755/1/012008 (2016)
385. Abdel-Latif, I.A.
Study on structure, electrical and dielectric properties of Eu_{0.65}Sr_{0.35}Fe_{0.3}Mn_{0.7}O₃
IOP Conference Series: Materials Science and Engineering 146(1), 12003 DOI: 10.1088/1757-899X/146/1/012003 (2016)
384. Sarswat, P.K., Free, M.L.
Long-Term stability of mixed perovskites
Materials Research Society Symposium Proceedings 1771, 193-198 DOI: 10.1557/opl.2015.612 (2016)
383. Wang, S., Hou, C., Yuan, L., Qu, M., Zou, B., Lu, D.
Hydrothermal preparation of perovskite structures DyCrO₃ and HoCrO₃
Dalton Transactions 45(44), 17593-17597 DOI: 10.1039/c6dt02661c (2016)
382. Gopalarao, T.R., Ravi, S., Pamu, D.
Effect of Film Thickness in Electrical Resistivity and Magnetic Properties of Nd_{0.7}Sr_{0.3}MnO₃ Thin Films
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume: 29 Issue: 10 Pages: 2567-2572 DOI: 10.1007/s10948-016-3563-6 Published: OCT 2016
381. Pomar, Alberto; Konstantinovic, Zorica; Bagues, Nuria; et al.
Formation of Self-Organized Mn₃O₄ Nanoinclusions in LaMnO₃ Films
FRONTIERS IN PHYSICS Volume: 4 Article Number: 41 Published: SEP 20 2016
380. Patri, T., Ponnaiah, J., Kutty, P., Ghosh, A.
Raman and dielectric spectroscopic analysis of magnetic phase transition in Y(Fe_{0.5}Cr_{0.5})O-3 multiferroic ceramics
CERAMICS INTERNATIONAL Volume: 42 Issue: 12 Pages: 13834-13840 DOI: 10.1016/j.ceramint.2016.05.188 Published: SEP 2016
379. Shukla, R., Patwe, S.J., Deshpande, S.K., Achary, S.N., Krishna, P.S.R., Shinde, A.B., Gopalakrishnan, J., Tyagi, A.K.
Structural manipulation and tailoring of dielectric properties in SrTi_{1-x}FexTaxO₃ perovskites: Design of new lead free relaxors
SCIENTIFIC REPORTS Volume: 6 Article Number: 23400 DOI: 10.1038/srep23400 Published: AUG 12 2016
378. Gopalarao, TR (Gopalarao, T. R.); Ravi, S (Ravi, S.); Pamu, D (Pamu, D.)
Electrical transport and magnetic properties of epitaxial Nd_{0.7}Sr_{0.3}MnO₃ thin films on (001)-oriented LaAlO₃ substrate
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 409 Pages: 148-154 DOI: 10.1016/j.jmmm.2016.02.069
Published: JUL 1 2016
377. Vadnala, S., Pal, P., Asthana, S.
Investigation of near room temperature magnetocaloric, magnetoresistance and bolometric properties of Nd_{0.5}La_{0.2}Sr_{0.3}MnO₃: Ag₂O manganites
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 27 Issue: 6 Pages: 6156-6165 DOI: 10.1007/s10854-016-4543-0 Published: JUN 2016
376. Chaturvedi, S., Shyam, P., Apte, A., Kumar, J., Bhattacharyya, A., Awasthi, A.M., Kulkarni, S.
Dynamics of electron density, spin-phonon coupling, and dielectric properties of SmFeO₃ nanoparticles at the spin-reorientation temperature: Role of exchange striction
PHYSICAL REVIEW B Volume: 93 Issue: 17 Article Number: 174117 DOI: 10.1103/PhysRevB.93.174117 Published: MAY 26 2016
375. Behera, B.C., Padhan, P., Prellier, W.
Effect of La_{0.7}Sr_{0.3}MnO₃ crystal structures on magnetization of (111) oriented La_{0.7}Sr_{0.3}MnO₃-SrRuO₃ superlattices
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 28 Issue: 19 Article Number: 196004 DOI: 10.1088/0953-8984/28/19/196004 Published: MAY 18 2016
374. Bhat, I (Bhat, Irshad); Husain, S (Husain, Shahid); War, TA (War, Tariq Ahmad)
Magnetic Magnetic and Raman spectroscopic study of laser ablated 100 (nm) thin film of La_{0.85}Te_{0.15}MnO₃ deposited on LaAlO₃
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 667 Pages: 225-228 DOI: 10.1016/j.jallcom.2016.01.149 Published: MAY 15 2016
373. Vrejoiu, I., Hincinschi, C., Jin, L., Jia, C.-L., Raab, N., Engelmayer, J., Waser, R., Dittmann, R., Van Loosdrecht, P.H.M.
Probing orbital ordering in LaVO₃ epitaxial films by Raman scattering
APL MATERIALS Volume: 4 Issue: 4 Article Number: 046103 DOI: 10.1063/1.4945658 Published: APR 2016
372. Perera, S., Hui, H., Zhao, C., Xue, H., Sun, F., Deng, C., Gross, N., Milleville, C., Xu, X., Watson, D.F., Weinstein, B., Sun, Y.-Y., Zhang, S., Zeng, H.

- Chalcogenide perovskites - an emerging class of ionic semiconductors
NANO ENERGY Volume: 22 Pages: 129-135 DOI: 10.1016/j.nanoen.2016.02.020 Published: APR 2016
371. Siaï, A., Horchani-Naifer, K., Haro-González, P., Férid, M.
Effects of the preparation processes on structural, electronic, and optical properties of LaHoO₃
MATERIALS RESEARCH BULLETIN Volume: 76 Pages: 179-186 DOI: 10.1016/j.materresbull.2015.12.019 Published: APR 2016
370. Arnache, O., Osorio, J..
Comparative study of the Raman vibrational modes in pure and Fe-doped La₂/3Ca₁/3MnO₃ thin films
SUPERLATTICES AND MICROSTRUCTURES Volume: 92 Pages: 181-189 DOI: 10.1016/j.spmi.2016.02.020 Published: APR 2016
369. Gupta, S.K., Ghosh, P.S., Yadav, A.K., Pathak, N., Arya, A., Jha, S.N., Bhattacharyya, D., Kadam, R.M.
Luminescence Properties of SrZrO₃/Tb³⁺ Perovskite: Host-Dopant Energy-Transfer Dynamics and Local Structure of Tb³⁺
INORGANIC CHEMISTRY Volume: 55 Issue: 4 Pages: 1728-1740 DOI: 10.1021/acs.inorgchem.5b02639 Published: FEB 15 2016
368. Elsässer, S., Geurts, J., Mukhin, A.A., Balbashov, A.M.
Lattice dynamics and spin-phonon coupling in orthorhombic Eu_{1-x}HoxMnO₃ ($x \leq 0.3$) studied by Raman spectroscopy
PHYSICAL REVIEW B Volume: 93 Issue: 5 Article Number: 054301 DOI: 10.1103/PhysRevB.93.054301 Published: FEB 4 2016
367. Yuan, B., Yang, J., Zuo, X.Z., Kan, X.C., Zhu, X.B., Dai, J.M., Song, W.H., Sun, Y.P.
Observation of ferroelectricity and magnetoelectric coupling in Mn-doped orthochromite DyCr_{0.5}Mn_{0.5}O₃
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 656 Pages: 830-834 DOI: 10.1016/j.jallcom.2015.10.030 Published: JAN 25 2016
366. Das, P.T., Singh, R., Das, A., Nath, T.K.
Structural, magnetic, and physical properties of La(1-x)MnO₃ +/-delta nano-manganite
PHILOSOPHICAL MAGAZINE Volume: 96 Issue: 3 Pages: 286-300 DOI: 10.1080/14786435.2015.1131344 Published: JAN 22 2016
365. Chai, J.-S., Tian, H., Mao, A.-J., Deng, L.-J., Kuang, X.-Y.
Pressure effect on the properties of magnetic moments and phase transitions in YMnO₃ from first principles
RSC ADVANCES Volume: 6 Issue: 59 Pages: 54041-54048 DOI: 10.1039/c6ra08539c Published: 2016
364. Bukhari, S.H., Ahmad, J.
Infrared Active Phonons and Optical Band Gap in Multiferroic GdMnO₃ Studied by Infrared and UV-Visible Spectroscopy
ACTA PHYSICA POLONICA A Volume: 129 Issue: 1 Pages: 43-48 Published: JAN 2016
363. Kumar, P., Shankwar, N., Srinivasan, A., Kar, M.
Oxygen octahedra distortion induced structural and magnetic phase transitions in Bi_{1-x}CaxFe_{1-x}MnxO₃ ceramics
Journal of Applied Physics 117(19), 194103 DOI: 10.1063/1.4921433 (2015)
362. Panwar, N., Kumbhare, P., Singh, A.K., Venkataramani, N., Ganguly, U.
Effect of morphological change on unipolar and bipolar switching characteristics in Pr_{0.7}Ca_{0.3}MnO₃ based RRAM
Materials Research Society Symposium Proceedings 1729, 47-52 DOI: 10.1557/opl.2015.192 (2015)
361. Balamurugan, C., Lee, D.-W.
Perovskite hexagonal YMnO₃ nanopowder as p-type semiconductor gas sensor for H₂S detection
SENSORS AND ACTUATORS B-CHEMICAL Volume: 221 Pages: 857-866 DOI: 10.1016/j.snb.2015.07.018 Published: DEC 31 2015
360. Zhu, J., Yang, L., Wang, H.-W., Zhang, J., Yang, W., Hong, X., Jin, C., Zhao, Y.
Local structural distortion and electrical transport properties of Bi(Ni₁/2Ti₁/2)O-3 perovskite under high pressure
SCIENTIFIC REPORTS Volume: 5 Article Number: 18229 DOI: 10.1038/srep18229 Published: DEC 16 2015
359. Karchev, N (Karchev, Naoum)
Leggett's modes in magnetic systems with Jahn-Teller distortion
ANNALS OF PHYSICS Volume: 363 Pages: 371-384 DOI: 10.1016/j.aop.2015.10.008 Published: DEC 2015
358. Handayani, I.P., Nugroho, A.A., Riyadi, S., Blake, G.R., Mufti, N., Palstra, T.T.M., Van Loosdrecht, P.H.M.
Correlation between lattice vibrations with charge, orbital, and spin ordering in the layered manganite Pr_{0.5}Ca_{1.5}MnO₄
PHYSICAL REVIEW B Volume: 92 Issue: 20 Article Number: 205101 DOI: 10.1103/PhysRevB.92.205101 Published: NOV 2 2015
357. Zhang, X., Zhang, A.M., Xie, W.M., Lin, J.G., Wu, X.S.
Effect of strain-modulated lattice distortion on the magnetic properties of LaMnO₃ films
PHYSICA B-CONDENSED MATTER Volume: 476 Pages: 114-117 DOI: 10.1016/j.physb.2015.04.038 Published: NOV 1 2015
356. Blessington Selvadurai, A.P., Pazhanivelu, V., Jagadeeshwaran, C., Murugaraj, R., Panneer Muthuselvam, I., Chou, F.C.
Influence of Cr substitution on structural, magnetic and electrical conductivity spectra of LaFeO₃
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 646 Pages: 924-931 DOI: 10.1016/j.jallcom.2015.05.213 Published: OCT 15 2015
355. Kozlenko, D.P., Dang, N.T., Kichanov, S.E., Lukin, E.V., Pashayev, A.M., Mammadov, A.I., Jabarov, S.H., Dubrovinsky, L.S., Liermann, H.-P., Morgenroth, W., Mehdiyeva, R.Z., Smotrakov, V.G., Savenko, B.N.
Competing magnetic and structural states in multiferroic YMn₂O₅ at high pressure
PHYSICAL REVIEW B Volume: 92 Issue: 13 Article Number: 134409 DOI: 10.1103/PhysRevB.92.134409 Published: OCT 12 2015
354. Ulrich, C., Khaliullin, G., Guennou, M., Roth, H., Lorenz, T., Keimer, B.
Spin-Orbital Excitation Continuum and Anomalous Electron-Phonon Interaction in the Mott Insulator LaTiO₃

353. Sood, K (Sood, Kapil); Singh, K (Singh, K.); Basu, S (Basu, Suddhasatwa); Pandey, OP (Pandey, O. P.)
Preferential occupancy of Ca²⁺ dopant in La_{1-x}Ca_xInO_{3-δ} (x=0-0.20) perovskite: structural and electrical properties
IONICS Volume: 21 Issue: 10 Pages: 2839-2850 DOI: 10.1007/s11581-015-1461-8 Published: OCT 2015
352. Kotnana, G (Kotnana, Ganesh); Jammalamadaka, SN (Jammalamadaka, S. Narayana)
Band gap tuning and orbital mediated electron-phonon coupling in HoFe_{1-x}Cr_xO₃ (0 ≤ x ≤ 1)
JOURNAL OF APPLIED PHYSICS Volume: 118 Issue: 12 Article Number: 124101 DOI: 10.1063/1.4931155 Published: SEP 28 2015
351. Gao, Y, Wang, JJ, Wu, L, Bao, SY, Shen, Y, Lin, YH, Nan, CW
Tunable magnetic and electrical behaviors in perovskite oxides by oxygen octahedral tilting
Science China-Materials Volume: 58 Issue: 4 Pages: 302-312 DOI: 10.1007/s40843-015-0047-0 Published: APR 2015
350. Lee, N., Lansac, Y., Hwang, H., Jang, Y.H.
Switching mechanism of Al/La_{1-x}Sr_xMnO₃ resistance random access memory. I. Oxygen vacancy formation in perovskites
RSC ADVANCES Volume: 5 Issue: 124 Pages: 102772-102779 DOI: 10.1039/c5ra21982e Published: 2015
349. Sayed, F.N., Shukla, R., Tyagi, A.K.
A chemical method for stabilizing a new series of solid solution Pr_{1-x}Ce_xScO₃ (0.0 ≤ x ≤ 1.0) systems
DALTON TRANSACTIONS Volume: 44 Issue: 38 Pages: 16929-16936 DOI: 10.1039/c5dt01459j Published: 2015
348. Behera, B. C.; Padhan, P.; Prellier, W.
Influence of substrate in all-ferromagnetic superlattices
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 388 Pages: 22-27 Published: AUG 15 2015
347. Singh, Dheeraj Kumar; Lee, Ki Hoon; Takimoto, Tetsuya
On the Origin of CE-Type Orbital Fluctuations in the Ferromagnetic Metallic Phase of La_{2-2x}Sr_{1+2x}Mn₂O₇ near x=0.4
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 84 Issue: 6 Article Number: 064709 Published: JUN 15 2015
346. McDannald, A.; Kuna, L.; Seehra, M. S.; et al.
Magnetic exchange interactions of rare-earth-substituted DyCrO₃ bulk powders
PHYSICAL REVIEW B Volume: 91 Issue: 22 Article Number: 224415 Published: JUN 11 2015
345. Zhang, Jing; Wu, Yu-Jie; Chen, Xiao-Jia
Structural evolution and enhanced magnetization of Bi_{1-x}Pr_xO₃
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 382 Pages: 1-6 Published: MAY 15 2015
344. Gopal Rao, T. R.; Ravi, S.; Pamu, D.
Effect of Post Annealing Process on Electrical and Magnetic Properties of Nd_{0.7}Sr_{0.3}MnO₃ Thin Films
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume: 28 Issue: 5 Pages: 1571-1576 Published: MAY 2015
343. Vitzthum, Daniela; Hering, Stefanie A.; Perfler, Lukas; et al.
High-pressure syntheses and crystal structures of orthorhombic DyGaO₃ and trigonal GaBO₃
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES Volume: 70 Issue: 4 Pages: 207-214 Published: APR 2015
342. Habib, Zubida; Majid, Kowsar; Ikram, M.; et al.
Structural Analysis and Dielectric Properties of HoFe_{1-x}Ni_xO₃ (0 ≤ x ≤ 0.5)
JOURNAL OF ELECTRONIC MATERIALS Volume: 44 Issue: 4 Pages: 1044-1053 Published: APR 2015
341. Varshney, Dinesh; Choudhary, Dinesh; Khan, Elias
Electrical transport in the ferromagnetic state of silver substituted manganites La_{1-x}Ag_xMnO₃ (x=0.05 and 0.1)
JOURNAL OF MATERIALS RESEARCH Volume: 30 Issue: 5 Pages: 654-665 Published: MAR 14 2015
340. Munkhbaatar, Purevdorj; Marton, Zsolt; Tsermaa, Baatarchuluun; et al.
Room temperature optical anisotropy of a LaMnO₃ thin-film induced by ultra-short pulse laser
APPLIED PHYSICS LETTERS Volume: 106 Issue: 9 Article Number: 092907 Published: MAR 2 2015
339. Qian, Gujie; Li, Yubiao; Gerson, Andrea R.
Applications of surface analytical techniques in Earth Sciences
SURFACE SCIENCE REPORTS Volume: 70 Issue: 1 Pages: 86-133 Published: MAR 2015
338. Mishra, Dileep K.; Sathe, V. G.; Rawat, R.; et al.
Controlling phase separation in La_{5/8-y}PryCa_{3/8}MnO₃ (y=0.45) epitaxial thin films by strain disorder
APPLIED PHYSICS LETTERS Volume: 106 Issue: 7 Article Number: 072401 Published: FEB 16 2015
337. Ding, Jun-Chao; Li, Hua-Yao; Cai, Ze-Xing; et al.
LaCoO₃-based sensors with high sensitivity to carbon monoxide
RSC ADVANCES Volume: 5 Issue: 81 Pages: 65668-65673 Published: 2015
336. Sun, Wei; Li, Jing-Feng; Zhu, Fangyuan; et al.
Thickness-dependent phase boundary in Sm-doped BiFeO₃ piezoelectric thin films on Pt/Ti/SiO₂/Si substrates
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 17 Issue: 30 Pages: 19759-19765 Published: 2015

335. Sun, Wei; Li, Jing-Feng; Yu, Qi; et al.
Phase transition and piezoelectricity of sol-gel-processed Sm-doped BiFeO₃ thin films on Pt(111)/Ti/SiO₂/Si substrates
JOURNAL OF MATERIALS CHEMISTRY C Volume: 3 Issue: 9 Pages: 2115-2122 Published: 2015
334. Gupta, Preeti; Poddar, Pankaj
Using Raman and dielectric spectroscopy to elucidate the spin phonon and magnetoelectric coupling in DyCrO₃ nanoplatelets
RSC ADVANCES Volume: 5 Issue: 14 Pages: 10094-10101 Published: 2015
333. Nova, T.F., Cartella, A., Cantaluppi, A., Mikhaylovskiy, R., Razdolski, I., Först, M., Kimel, A.V., Cavalleri, A.
Controlling coherent energy flow between collective THz excitations in condensed matter
Optics InfoBase Conference Papers, Code 107128 (2014)
332. Sultan, K., Habib, Z., Jan, A., Ahmad Mir, S., Ikram, M., Asokan, K.
Temperature dependent Raman spectroscopy of La_{1-x}Ca_xMnO₃ (x = 0.0, and 0.3)
Advanced Materials Letters 5(1), 9-13 DOI: 10.5185/amlett.2013.6496 (2014)
331. Bhadram, V.S., Swain, D., Dhanya, R., Polentarutti, M., Sundaresan, A., Narayana, C.
Effect of pressure on octahedral distortions in RCrO₃ (R=Lu, Tb, Gd, Eu, Sm): the role of R-ion size and its implications
MATERIALS RESEARCH EXPRESS Volume: 1 Issue: 2 Article Number: 026111 DOI: 10.1088/2053-1591/1/2/026111 Published: JUN 2014
330. Iliescu, I.; Boudard, M.; Chaix-Pluchery, O.; et al.
Phase transformations and selective growth in YMnO₃ films
JOURNAL OF SOLID STATE CHEMISTRY Volume: 220 Pages: 245-253 Published: DEC 2014
329. Ganeshraj, C.; Santhosh, P. N.
First-principles study of structural, electronic, vibrational, dielectric and elastic properties of tetragonal Ba₂YTaO₆
JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 14 Article Number: 144104 Published: OCT 14 2014
328. Matsui, Hiroaki; Hasuike, Noriyuki; Harima, Hiroshi; et al.
Engineering of optical polarization based on electronic band structures of A-plane ZnO layers under biaxial strains
JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 11 Article Number: 113505 Published: SEP 21 2014
327. Lee, Hong-Sub; Choi, Sun Gyu; Yeom, Geun Young; et al.
The effect of Gd substitution in perovskite lanthanum strontium manganite films for use in resistive switching devices
JOURNAL OF THE CERAMIC SOCIETY OF JAPAN 122 (1428), pp. 622-625 AUG 2014
326. Nieto, S.; Roque-Malherbe, R.; Polanco, R.; et al.
High temperature proton transport in BaCe_{0.95}Th_{0.05}O₃ (δ) perovskite
CERAMICS INTERNATIONAL 40 (7), pp.11359-11367 Part: B AUG 2014
325. Iliescu, I.; Boudard, M.; Rapenne, L.; et al.
MOCVD selective growth of orthorhombic or hexagonal YMnO₃ phase on Si(100) substrate
APPLIED SURFACE SCIENCE 306, pp. 27-32 JUL 1 2014
324. Sharma, Yogesh; Sahoo, Satyaprakash; Perez, William; et al.
Phonons and magnetic excitation correlations in weak ferromagnetic YCrO₃
JOURNAL OF APPLIED PHYSICS 115 (18), Art. No. 183907 MAY 14 2014
323. Zagorac, J.; Zarubica, A.; Radosavljevic-Mihajlovic, A.; et al.
Structural study of nanosized yttrium-doped CaMnO₃ perovskites
BULLETIN OF MATERIALS SCIENCE 37 (3), pp. 407-416 MAY 2014
322. Kumar, Pradeep; Ghara, Somnath; Rajeswaran, B.; et al.
Temperature dependent magnetic, dielectric and Raman studies of partially disordered La₂NiMnO₆
SOLID STATE COMMUNICATIONS 184, 47-51 APR 2014
321. Ahmed, M. A.; Khafagy, Rasha M.; El-sayed, O.
Laser-induced down-conversion and infrared phosphorescence emissivity of novel ligand-free perovskite nanomaterials
JOURNAL OF MOLECULAR STRUCTURE 1062, pp. 133-140 MAR 24 2014
320. Varshney, Dinesh; Shaikh, M. W.
Substitutional effects on structural and magnetotransport properties of La_{0.85-x}Sm_xK_{0.15}MnO₃ (x=0.05, 0.1 and 0.15)
JOURNAL OF ALLOYS AND COMPOUNDS 589, pp. 558-567 MAR 15 2014
319. Behera, B. C.; Ravindra, A. V.; Padhan, P.; et al.
Raman spectra and magnetization of all-ferromagnetic superlattices grown on (110) oriented SrTiO₃
APPLIED PHYSICS LETTERS 104 (9), Art. No. 092406 MAR 3 2014
318. Kaminskii, A. A.
Cascaded and cross-cascaded chi⁽³⁾ nonlinear optical effects in a new SRS-active YAlO₃ crystal
DOKLADY PHYSICS 59 (3), pp. 115-118 MAR 2014
317. Kozlenko, D. P.; Dang, N. T.; Jabarov, S. H.; et al.
Structural polymorphism in multiferroic BiMnO₃ at high pressures and temperatures

- JOURNAL OF ALLOYS AND COMPOUNDS 585, pp. 741-747 FEB 5 2014
316. Yin, L. H.; Yang, J.; Zhang, R. R.; et al.
Multiferroicity and magnetoelectric coupling enhanced large magnetocaloric effect in DyFe_{0.5}Cr_{0.5}O₃
APPLIED PHYSICS LETTERS 104 (3), Art. No. 032904 JAN 20 2014
315. By: Sahu, A. K.; Rout, G. C.
The Effect of External Magnetic Field on the Raman Peaks in Manganites
SOLID STATE PHYSICS: PROCEEDINGS OF THE 58TH DAE SOLID STATE PHYSICS SYMPOSIUM 2013, PTS A & B Book Series: AIP Conference Proceedings 1591, pp. 1557-1559 2014
314. Liu, Yun; Chua, Kun Ting Eddie; Sum, Tze Chien; et al.
First-principles study of the lattice dynamics of Sb₂S
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16 (1), pp. 345-350 2014
313. Sultan, Khalid; Ikram, M.; Asokan, K.
Structural, optical and dielectric study of Mn doped PrFeO₃ ceramics
VACUUM 99, pp. 251-258 JAN 2014
312. Lee, Jun Hee; Delaney, Kris T.; Bousquet, Eric; et al.
Strong coupling of Jahn-Teller distortion to oxygen-octahedron rotation and functional properties in epitaxially strained orthorhombic LaMnO₃
PHYSICAL REVIEW B 88 (17), Art. No. 174426 NOV 27 2013
311. Silva, R. X.; Reichlova, H.; Marti, X.; et al.
Spin-phonon coupling in Gd(Co_{1/2}Mn_{1/2})O-3 perovskite
JOURNAL OF APPLIED PHYSICS 114 (19) Art. No. 194102 NOV 21 2013
310. Yu, Chonglong; Ren, Yuhang; Chen, Zhuo; et al.
First-principles study of structural phase transitions in CsSnI₃
JOURNAL OF APPLIED PHYSICS 114 (16), Art. No. 163505 OCT 28 2013
309. Wu, Yu-Jie; Chen, Xiao-Kun; Zhang, Jing; et al.
Pressure effect on structural and vibrational properties of Sm-substituted BiFeO₃
JOURNAL OF APPLIED PHYSICS 114 (15), Art. No. 154110 OCT 21 2013
308. Daniels, Luke M.; Weber, Mads C.; Lees, Martin R.; et al.
Structures and Magnetism of the Rare-Earth Orthochromite Perovskite Solid Solution La_xSm_{1-x}CrO₃
INORGANIC CHEMISTRY 52 (20), pp. 12161-12169 OCT 21 2013
307. Beltran-Huarac, J., Carpena-Nuñez, J., Barrionuevo, D., Mendoza, F., Katiyar, R.S., Fonseca, L.F., Weiner, B.R., Morell, G.
Synthesis and transport properties of La_{0.67}Sr_{0.33}MnO₃ conformally-coated on carbon nanotubes
Carbon 65, pp. 252-260, 2013
306. Lantieri, M, Spina, G, Cianchi, L, Del Giallo, F
Eu-151 Mossbauer study of multiferroic Eu_{0.75}Y_{0.25}MnO₃
EUROPEAN PHYSICAL JOURNAL B Volume: 86 Issue: 7 Article Number: 333 DOI: 10.1140/epjb/e2013-40409-4 Published: JUL 2013
305. Chu, Q., Wang, X., Li, B., Liu, F., Liu, X.
High pressure flux synthesis of LaMnO₃+delta with charge ordering
RSC ADVANCES Volume: 3 Issue: 44 Pages: 21311-21314 DOI: 10.1039/c3ra43779e Published: 2013
304. Derras, M., Hamdad, N., Derras, M., Gessoum, A.
New theoretical model on the electronic structure and magnetic properties of the YMnO₃ perovskite oxide: Implementation of the U-Hubbard Hamiltonian
RESULTS IN PHYSICS Volume: 3 Pages: 219-230 DOI: 10.1016/j.rinp.2013.09.011 Published: 2013
303. Chaturvedi, A., Sathe, V.G.
Raman spectroscopy and X-ray diffraction study of PrMnO₃ oriented thin films deposited on LaAlO₃ and SrTiO₃ substrates
Journal of Magnetism and Magnetic Materials 344, pp. 230-234, 2013
302. Varshney, D., Choudhary, D., Khan, E.
Electrical transport in the ferromagnetic and paramagnetic state of potassium-substituted manganites La_{1-x}K_xMnO₃ (x = 0.05, 0.1 and 0.15)
Journal of Materials Science 48 (17), pp. 5904-5916, 2013
301. Hu, Y., Stender, D., Medarde, M., Lippert, T., Wokaun, A., Schneider, C.W.
Lattice distortion and strain relaxation in epitaxial thin films of multiferroic TbMnO₃ probed by X-ray diffractometry and micro-Raman spectroscopy
Applied Surface Science 278, pp. 92-95, 2013
300. Phong, P.T., Jang, S.J., Huy, B.T., Lee, Y.-I., Lee, I.-J.
Structural, magnetic, infrared and Raman studies of La_{0.8}Sr_xCa_{0.2-x}MnO₃ (0 ≤ x ≤ 0.2)
Journal of Materials Science: Materials in Electronics 24 (7), pp. 2292-2301, 2013

299. Nikolaev, S.A., Mazurenko, V.G., Rudenko, A.N.
Influence of magnetic order on phonon spectra of multiferroic orthorhombic YMnO₃
Solid State Communications 164, pp. 16-21, 2013
298. Choi, S.G., Lee, H.-S., Yeom, G.Y., Park, H.-H.
Investigation of the properties of Ba-substituted La_{0.7}Sr_{0.3-x}Ba_xMnO₃ perovskite manganite films for resistive switching applications
Journal of Electronic Materials 42 (6), pp. 1196-1201, 2013
297. Noked, O., Melchior, A., Shuker, R., Livneh, T., Steininger, R., Kennedy, B.J., Sterer, E.
Pressure-induced amorphization of La_{1/3}TaO₃
Journal of Solid State Chemistry 202, pp. 38-42, 2013
296. Sidorov, T.A.
Identification of complex anions in La_{1-x}A_xMnO₃ manganites (A = Ca, Sr) from neutron diffraction data and refinement of their structures on the basis of raman spectroscopy data
Russian Journal of Inorganic Chemistry 58 (6), pp. 706-710, 2013
295. Zhang, J., Wu, Y.-J., Chen, X.-K., Chen, X.-J.
Structural evolution and magnetization enhancement of Bi_{1-x}TbxFeO₃
Journal of Physics and Chemistry of Solids 74 (6), pp. 849-853, 2013
294. Wang, Y.T., Luo, C.W., Kobayashi, T.
Understanding multiferroic hexagonal manganites by static and ultrafast optical spectroscopy
Advances in Condensed Matter Physics 2013, art. no. 104806, 2013
293. Chen, C., Li, Y., Wang, B.
Tunable competition and possible coexistence between superconductivity and ferromagnetism in the multilayers of YBa₂Cu₃O_{7-δ}/La_{0.67}Sr_{0.33}MnO₃
Solid State Communications 161, pp. 1-4, 2013
292. Kovaleva, N.N., Kusmartseva, O.E., Kugel, K.I., Maksimov, A.A., Nuzhnyy, D., Balbashov, A.M., Demikhov, E.I., (...), Stoneham, A.M.
Anomalous multi-order Raman scattering in LaMnO₃: A signature of quantum lattice effects in a Jahn-Teller crystal
Journal of Physics Condensed Matter 25 (15), art. no. 155602, 2013
291. Zheng, Y.-N., Wu, Y.-J., Qin, Z.-X., Chen, X.-J.
Structural transition and magnetic property of Bi_{1-x}Yb_xFeO₃
Chinese Journal of Chemical Physics 26 (2), pp. 157-162, 2013
290. Wang, C., Li, J.-B., Gao, Q., Li, G., Liu, G., Rao, G., Luo, J., (...), Liang, J.
Subsolidus phase relations of the BaO - Y₂O₃ - MnO₂ system in air
Journal of the American Ceramic Society 96 (4), pp. 1332-1336, 2013
289. Prado-Gonjal, J., Schmidt, R., Romero, J.-J., Ávila, D., Amador, U., Morán, E.
Microwave-assisted synthesis, microstructure, and physical properties of rare-earth chromites
Inorganic Chemistry 52 (1), pp. 313-320, 2013
288. Srinu Bhadram, V., Rajeswaran, B., Sundaresan, A., Narayana, C.
Spin-phonon coupling in multiferroic RCrO₃ (R=Y, Lu, Gd, Eu, Sm): A Raman study
EPL 101 (1), art. no. 17008, 2013
287. Harada, T., Takahashi, R., Lippmaa, M.
Nonmagnetic Sc substitution in a perovskite ferromagnetic insulator Pr_{0.8}Ca_{0.2}MnO₃
Journal of the Physical Society of Japan 82 (1), art. no. 014801, 2013
286. Jativa, J.; Jurado, J. F.; Vargas-Hernandez, C.
Hydrothermal synthesis, magnetic susceptibility, electrical transport and vibrational order of the polycrystalline structure La_{0.5}Ba_{0.5}MnO₃
REVISTA MEXICANA DE FISICA 58 (2), Suppl. S, 19-23, DEC 2012
285. Wdowik, U.D., Koza, M.M., Chatterji, T.
Phonons in lanthanum manganite: Inelastic neutron scattering and density functional theory studies
Physical Review B - Condensed Matter and Materials Physics 86 (17), art. no. 174305, 2012
284. Bielecki, J., Svedlindh, P., Tibebe, D.T., Cai, S., Eriksson, S.-G., Börjesson, L., Knee, C.S.
Structural and magnetic properties of isovalently substituted multiferroic BiFeO₃: Insights from Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 86 (18), art. no. 184422, 2012
283. Mir, F.A., Ikram, M., Kumar, R.
Amorphization and disorder of PrFeO₃ thin films after heavy ion irradiation
Applied Radiation and Isotopes 70 (10), pp. 2409-2415, 2012
282. Bai, Y., Xia, Y., Li, H., Han, L., Wang, Z., Wu, X., Lv, S., (...), Meng, J.
A-site-doping enhanced B-site ordering and correlated magnetic property in La_{2-x}Bi_xCoMnO₆
Journal of Physical Chemistry C 116 (32), pp. 16841-16847, 2012

281. Mishra, D.K., Sathe, V.G.
Evidence of the Fano resonance in a temperature dependent Raman study of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ and $\text{SrCu}_3\text{Ti}_4\text{O}_{12}$
Journal of Physics Condensed Matter 24 (25), art. no. 252202, 2012.
280. Runka, T., Berkowski, M.
Perovskite $\text{La}_{1-x}\text{Sr}_x\text{Ga}_{1-y}\text{Mn}_y\text{O}_3$ solid solution crystals: Raman spectroscopy characterization
Journal of Materials Science 47 (14), pp. 5393-5401, 2012.
279. Abdel-Latif, I.A., Saleh, S.A.
Effect of iron doping on the physical properties of europium manganites
Journal of Alloys and Compounds 530, pp. 116-120, 2012.
278. Rovillain, P., Liu, J., Cazayous, M., Gallais, Y., Measson, M.-A., Sakata, H., Sacuto, A.
Electromagnon and phonon excitations in multiferroic TbMnO_3
Physical Review B - Condensed Matter and Materials Physics 86 (1), art. no. 014437, 2012.
277. Kuznetsova T. G.; Sadykov V. A.; Lunin V. V.
Nanocomposite Structure and Reactivity of Perovskites Based on Lanthanum Manganites
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A 86 (4), 606-620, APR 2012.
276. Parida, S., Rout, S.K., Subramanian, V., Barhai, P.K., Gupta, N., Gupta, V.R.
Structural, microwave dielectric properties and dielectric resonator antenna studies of $\text{Sr}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ ceramics
Journal of Alloys and Compounds 528, pp. 126-134, 2012.
275. Wu, Y.-J., Chen, X.-K., Zhang, J., Chen, X.-J.
Magnetic enhancement across a ferroelectric-antiferroelectric phase boundary in $\text{Bi}_{1-x}\text{Nd}_x\text{FeO}_3$
Journal of Applied Physics 111 (5), art. no. 053927, 2012.
274. Weber, M.C., Kreisel, J., Thomas, P.A., Newton, M., Sardar, K., Walton, R.I.
Phonon Raman scattering of RCrO_3 perovskites ($\text{R}=\text{Y}, \text{La}, \text{Pr}, \text{Sm}, \text{Gd}, \text{Dy}, \text{Ho}, \text{Yb}, \text{Lu}$)
Physical Review B - Condensed Matter and Materials Physics 85 (5), art. no. 054303, 2012.
273. Lee, Y.-L., Morgan, D.
Ab initio and empirical defect modeling of $\text{LaMnO}_{3\pm\delta}$ for solid oxide fuel cell cathodes
Physical Chemistry Chemical Physics 14 (1), pp. 290-302, 2012.
272. Roberge, B., Jandl, S., Nugroho, A.A., Palstra, T.T.M.
Micro-Raman study of orbiton-phonon coupling in YbVO_3
Journal of Raman Spectroscopy 43 (1), pp. 127-130, 2012.
271. Wu, Y.-J., Zhang, J., Chen, X.-K., Chen, X.-J.
Phase evolution and magnetic property of $\text{Bi}_1\text{-X}\text{HoxFeO}_3$ powders
Solid State Communications 151 (24), pp. 1936-1940, 2011.
270. Casu, A., Ricci, P.C.
Raman and structural characterization of LuAlO_3
Journal of Solid State Chemistry 184 (11), pp. 3028-3033, 2011.
269. Chopelas, A.
Single-crystal Raman spectra of YAlO_3 and GdAlO_3 : Comparison to several orthorhombic ABO_3 perovskites
Physics and Chemistry of Minerals 38 (9), pp. 709-726, 2011.
268. Dhiman, I., Das, A., Priolkar, K.R., Murthy, P.S.R.
Infrared absorption study of charge ordered $\text{La}_{0.5}\text{Ca}_{0.5-x}\text{Sr}_x\text{MnO}_3$ ($0.1 \leq x \leq 0.5$) manganites
Physica B: Condensed Matter 406 (4), pp. 1028-1033, 2011.
267. Mandal, P., Bhadram, V.S., Sundarayya, Y., Narayana, C., Sundaresan, A., Rao, C.N.R.
Spin-Reorientation, Ferroelectricity, and Magnetodielectric Effect in $\text{YFe}_{1-x}\text{Mn}_x\text{O}_3$ ($0.1 \leq x \leq 0.40$)
PHYSICAL REVIEW LETTERS 107 (13) Article Number: 137202, SEP 19 2011.
266. Noked, O., Yakovlev, S., Greenberg, Y., Garbarino, G., Shuker, R., Avdeev, M., Sterer, E.
Pressure-induced amorphization of $\text{La}_{1/3}\text{NbO}_3$
JOURNAL OF NON-CRYSTALLINE SOLIDS 357 (18) Pages: 3334-3337, SEP 15 2011.
265. Cheng, Z.X., Wang, X.L., Dou, S.X., Osada, M., Kimura, H.
Strain modulated magnetization and colossal resistivity of epitaxial $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ film on BaTiO_3 substrate
APPLIED PHYSICS LETTERS 99 (9) Article Number: 092103, AUG 29 2011.
264. Dhak, P., Pramanik, P., Bhattacharya, S., Roy, A., Achary, S.N., Tyagi, A.K.
Structural phase transition in lanthanum gallate as studied by Raman and X-ray diffraction measurements
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 248 (8) Pages: 1884-1893, AUG 2011.
263. Varshney Dinesh; Dodiya N.
Interpretation of metallic and semiconducting temperature dependent resistivity of $\text{La}_{0.91}\text{Rb}_{0.06}\text{Mn}_{0.94}\text{O}_3$ manganites
SOLID STATE SCIENCES 13 (8) Pages: 1623-1632, AUG 2011.

262. Chen, Z., Ma, C.-L., Wu, F.-X., Chen, Y.B., Zhou, J., Yuan, G.-L., Gu, Z.-B., (...), Chen, Y.-F.
The electrical and magnetic properties of epitaxial orthorhombic YMnO(3) thin films grown under various oxygen pressures
APPLIED SURFACE SCIENCE 257 (18) Pages: 8033-8037, JUL 1 2011.
261. Shi, L., Wang, Y., Zhou, S.M., Chu, S.N., Guo, Y.Q., Zhao, J.Y.
A-site ion-size effect on the transport and magnetic properties of Ce doping Pr(0.3)Ce(0.2)Ca(x)Sr(0.5-x)MnO(3) ($0 \leq x \leq 0.25$)
JOURNAL OF APPLIED PHYSICS 109 (12) Article Number: 123909, JUN 15 2011.
260. Li, S.-L., Li, J., Zhang, Y., Zheng, D.-N., Tsukagoshi, K.
Unipolar resistive switching in high-resistivity Pr(0.7)Ca(0.3)MnO(3) junctions
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 103 (1) Pages: 21-26, APR 2011.
259. Antonakos, A., Liarokapis, E., Aydogdu, G.H., Habermeier, H.-U.
Strain induced phase separation on La(0.5)Ca(0.5)MnO(3) thin films
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 323 (5) Pages: 620-630, MAR 2011.
258. Baldini, M., Struzhkin, V.V., Goncharov, A.F., Postorino, P., Mao, W.L.
Persistence of Jahn-Teller Distortion up to the Insulator to Metal Transition in LaMnO(3)
PHYSICAL REVIEW LETTERS 106 (6) Article Number: 066402, FEB 11 2011.
257. Glowacki, M., Runka, T., Domukhovski, V., Diduszko, R., Mirkowska, M., Berkowski, M., Dabrowski, B.
Growth and characterization of perovskite LaGaO(3) crystals doped with Sr and Mn
JOURNAL OF ALLOYS AND COMPOUNDS 509 (5) Pages: 1756-1759, FEB 3 2011.
256. Sardar, K., Lees, M.R., Kashtiban, R.J., Sloan, J., Walton, R.I.
Direct Hydrothermal Synthesis and Physical Properties of Rare-Earth and Yttrium Orthochromite Perovskites
CHEMISTRY OF MATERIALS 23 (1) Pages: 48-56, JAN 11 2011.
255. Chaix-Pluchery O.; Kreisel J.
Raman scattering of perovskite SmScO3 and NdScO3 single crystals
PHASE TRANSITIONS Volume: 84 (5-6) Pages: 542-554, 2011.
254. Fontcuberta, J., Fina, I., Fabrega, L., Sánchez, F., Martí, X., Skumryev, V.
Ferroelectricity and strain effects in orthorhombic YMnO3 thin films
PHASE TRANSITIONS Volume: 84 (5-6) Pages: 555-568, 2011.
253. Jugdersuren, B., Kang, S., DiPietro, R.S., Heiman, D., McKeown, D., Pegg, I.L., Philip, J.
Large low field magnetoresistance in La(0.67)Sr(0.33)MnO(3) nanowire devices
JOURNAL OF APPLIED PHYSICS 109 (1) Article Number: 016109, JAN 1 2011.
252. Lee Nodoo; Lansac Yves; Jang Yun Hee
Aluminum Oxide Formation at Al/La(1-x)Sr(x)MnO(3) Interface: A Computational Study for Resistance Random Access Memory Applications
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 11 (1) Pages: 339-343, JAN 2011.
251. Kozlenko, D.P., Chan, T.A., Kichanov, S.E., Jiráček, Z., Dubrovinsky, L.S., Savenko, B.N.
Structural and magnetic phase transitions in Pr(0.7)Ca(0.3)MnO(3) at high pressures
JETP LETTERS 92 (9) Pages: 590-594, JAN 2011.
250. Anisimov, V., Izyumov, Y
Electronic Structure of Strongly Correlated Materials
ELECTRONIC STRUCTURE OF STRONGLY CORRELATED MATERIALS Book Series: Springer Series in Solid-State Sciences
Volume: 163 Pages: 1-288 DOI: 10.1007/978-3-642-04826-5 Published: 2010
249. Liu, Y.-F., Zheng, H.-W., Zhang, W.-F., Gu, Y.-Z., Li, Y.-L., Zhang, H.-R.
Investigation of preparation, microstructure and magnetic property of hexagonal YMnO3 nanorods
Gongneng Cailiao/Journal of Functional Materials 41 (8), pp. 1336-1339, 2010.
248. Martí, X., Skumryev, V., Laukhin, V., Bachelet, R., Ferrater, C., García-Cuenca, M.V., Varela, M., (...), Fontcuberta, J.
Strain-driven noncollinear magnetic ordering in orthorhombic epitaxial YMnO(3) thin films
JOURNAL OF APPLIED PHYSICS 108 (12) Article Number: 123917, DEC 15 2010.
247. Issing, S., Pimenov, A., Ivanov, Y.Vu., Mukhin, A.A., Geurts, J.
Spin-phonon coupling in multiferroic manganites RMnO(3): comparison of pure (R = Eu, Gd, Tb) and substituted (R = Eu(1-x)Y(x)) compounds
EUROPEAN PHYSICAL JOURNAL B 78 (3) Pages: 367-372, DEC 2010.
246. Yang Y. -F.; Held K.
Dynamical mean field theory for manganites
PHYSICAL REVIEW B 82 (19) Article Number: 195109, NOV 9 2010.
245. Zhao L. Z.; Chen Y. W.; Wang G. R.
Raman spectra study of orthorhombic LiMnO(2)
SOLID STATE IONICS 181 (31-32) Pages: 1399-1402, OCT 7 2010.
244. Guennou, M., Bouvier, P., Krikler, B., Kreisel, J., Haumont, R., Garbarino, G.

- High-pressure investigation of CaTiO_3 up to 60 GPa using x-ray diffraction and Raman spectroscopy
PHYSICAL REVIEW B 82 (13) Article Number: 134101, OCT 4 2010.
243. Rout G. C.; Panda Saswati; Behera S. N.
Theoretical study of the Raman active CDW gap mode in manganites
JOURNAL OF PHYSICS-CONDENSED MATTER 22 (37) Article Number: 376003, SEP 22 2010.
242. Baldassarre, L., Perucchi, A., Lupi, S., Dore, P.
Far infrared properties of the rare-earth scandate DyScO_3
JOURNAL OF PHYSICS-CONDENSED MATTER 22 (35) Article Number: 355402, SEP 8 2010.
241. Chaban, N., Weber, M., Pignard, S., Kreisel, J.
Phonon Raman scattering of perovskite LaNiO_3 thin films
APPLIED PHYSICS LETTERS 97 (3) Article Number: 031915, JUL 19 2010
240. Varshney D.; Choudhary D.; Shaikh M. W.; et al.
Electrical resistivity behaviour of sodium substituted manganites: electron-phonon, electron-electron and electron-magnon interactions
EUROPEAN PHYSICAL JOURNAL B 76 (2) Pages: 327-338, JUL 2010
239. Zagorac, J., Bošković, S., Matović, B., Babić-Stojić, B.
Structure and Magnetic Investigations of $\text{Ca}_{1+x}\text{Y}_x\text{MnO}_3$ ($x=0, 0.1, 0.2, 0.3$) and $\text{Mn}(4+)/\text{Mn}(3+)$ Relation Analysis
SCIENCE OF SINTERING 42 (2) Pages: 221-232, MAY-AUG 2010
238. Moreira, J.A., Almeida, A., Ferreira, W.S., Araújo, J.E., Pereira, A.M., Chaves, M.R., Kreisel, J., (...), Tavares, P.B.
Coupling between phonons and magnetic excitations in orthorhombic $\text{Eu}_{1-x}\text{Y}_x\text{MnO}_3$
PHYSICAL REVIEW B 81 (5) Article Number: 054447, FEB 2010
237. Marti, X., Skumryev, V., Ferrater, C., García-Cuenca, M.V., Varela, M., Sánchez, F., Fontcuberta, J.
Emergence of ferromagnetism in antiferromagnetic TbMnO_3 by epitaxial strain
Applied Physics Letters 96 (22), art. no. 222505 (2010).
236. Chaix-Pluchery, O., Sauer, D., Kreisel, J.
Temperature-dependent Raman scattering of DyScO_3 and GdScO_3 single crystals
Journal of Physics Condensed Matter 22 (16), art. no. 165901 (2010).
235. Malavasi, L., Baldini, M., Di Castro, D., Nucara, A., Crichton, W., Mezouar, M., Blasco, J., Postorino, P.
High pressure behavior of Ga-doped LaMnO_3 : A combined X-ray diffraction and optical spectroscopy study
Journal of Materials Chemistry 20 (7), pp. 1304-1311 (2010).
234. Salama, H.A., Stewart, G.A., Hutchison, W.D., Nishimura, K., Scott, D.R., O'Neill, H.StC.
A ^{169}Tm -Mössbauer spectroscopy investigation of orthorhombic phase o-TmMnO_3
Solid State Communications 150 (5-6), pp. 289-291 (2010).
233. Issing, S., Fuchs, F., Ziereis, C., Batke, E., Pimenov, A., Ivanov, Y.V., Mukhin, A.A., Geurts, J.
Lattice dynamics of $\text{Eu}_{1-x}\text{Y}_x\text{MnO}_3$ ($0 \leq x \leq 0.5$)
European Physical Journal B 73 (3), pp. 353-360 (2010).
232. Jehanathan, N., Lebedev, O., Gélard, I., Dubourdieu, C., Van Tendeloo, G.
Structure and defect characterization of multiferroic ReMnO_3 films and multilayers by TEM
Nanotechnology 21 (7), art. no. 075705 (2010).
231. Issing, S., Pimenov, A., Ivanov, V.Y., Mukhin, A.A., Geurts, J.
Composition-dependent spin-phonon coupling in mixed crystals of the multiferroic manganite $\text{Eu}_{1-x}\text{Y}_x\text{MnO}_3$ ($0 \leq x \leq 0.5$) studied by Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 81 (2) Article Number: 024304 (2010).
230. Chen, C.Z., Cai, C.B., Liu, Z.Y., Peng, L., Gao, B., Fan, F., Lu, Y.M., (...), Dou, S.X.
Stress evolution and lattice distortion induced by thickness variation and lattice misfit in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3 - \delta$ films
Solid State Communications 150 (1-2), pp. 66-69 (2010).
229. Varshney, D., Choudhary, D., Shaikh, M.W.
Interpretation of metallic and semiconducting temperature-dependent resistivity of $\text{La}_{1-x}\text{Na}_x\text{MnO}_3$ ($x = 0.07, 0.13$) manganites
Computational Materials Science 47 (3), pp. 839-847 (2010).
228. Sopracase, R., Gruener, G., Olive, E., Soret, J.-C.
Infrared study of the phonon modes in PrMnO_3 and CaMnO_3
Physica B: Condensed Matter 405 (1), pp. 45-52 (2010).
227. Yusa, H., Belik, A.A., Takayama-Muromachi, E., Hirao, N., Ohishi, Y.
High-pressure phase transitions in BiMO_3 ($M=\text{Al, Ga, and In}$): In situ x-ray diffraction and Raman scattering experiments
PHYSICAL REVIEW B Volume: 80 Issue: 21 Article Number: 214103 DOI: 10.1103/PhysRevB.80.214103 Published: DEC 2009
226. Casu, A., Ricci, P.C., Anedda, A.
Structural characterization of $\text{Lu}_{0.7}\text{Y}_{0.3}\text{AlO}_3$ single crystal by Raman spectroscopy
JOURNAL OF RAMAN SPECTROSCOPY Volume: 40 Issue: 9 Pages: 1224-1228 DOI: 10.1002/jrs.2266 Published: SEP 2009

225. Siranidi, E., Lampakis, D., Palles, D., Liarokapis, E., Palstra, TTM
Micro-Raman study of the spin and orbital ordering in SmVO₃
Journal of Physics Conference Series Volume: 150 Article Number: 042184 DOI: 10.1088/1742-6596/150/4/042184 Part: 4 Published: 2009
224. Wall, S., Polli, D., Rini, M., Dharmalingam, P., Boothroyd, AT, Tomioka, Y., Tokura, Y., Schoenlein, RW, Cerullo, G, Cavalleri, A
Coherent Orbital Waves in Manganites
ULTRAFAST PHENOMENA XVI Book Series: Springer Series in Chemical Physics Volume: 92 Pages: 170-172 Published: 2009
223. Rao, M.N., Kaur, N., Chaplot, S.L., Gaur, N.K., Singh, R.K.
Lattice dynamics of orthorhombic perovskite yttrium manganite, YMnO₃
Journal of Physics Condensed Matter 21 (35), art. no. 355402 (2009).
222. Kuo, C.C., Liu, W.-R., Hsieh, W.F., Hsu, C.-H., Hsu, H.C., Chen, L.C.
Crystal symmetry breaking of wurtzite to orthorhombic in nonpolar a-ZnO epi-films
Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS , art. no. 5343083, pp. 349-350 (2009).
221. Yarlagadda, S., Littlewood, P.B., Mitra, M., Monu, R.K.
Orbital ordering in undoped manganites via a generalized Peierls instability
Physical Review B - Condensed Matter and Materials Physics 80 (23), art. no. 235123 (2009).
220. Siranidi, E., Lampakis, D., Palles, D., Liarokapis, E., Palstra, T.T.M.
Micro-Raman study of the spin and orbital ordering in SmVO₃
Journal of Physics: Conference Series 150 (4), art. no. 042184 (2009).
219. Hsieh, C.C., Lin, T.H., Shih, H.C., Lin, J.-Y., Hsu, C.-H., Luo, C.W., Wu, K.H., (...), Juang, J.Y.
Electronic structure and magnetic anisotropies in orthorhombic multiferroic YMnO₃ thin films
Journal of Physics: Conference Series 150 (4), art. no. 042062 (2009).
218. Liu, X.-Q., Han, G.-J., Huang, C.-K., Lan, W.
Thickness dependence of microstructure for La_{0.9}Sr_{0.1}MnO₃/Si films determined by micro-Raman spectroscopy
Wuli Xuebao/Acta Physica Sinica 58 (11), pp. 8008-8013 (2009).
217. Truong, K.D., Singh, M.P., Jandl, S., Fournier, P.
Influence of Ni/Mn cation order on the spin-phonon coupling in multifunctional La₂NiMnO₆ epitaxial films by polarized Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 80 (13), art. no. 134424 (2009).
216. Wang, W.-R., Song, G.-X., Zhao, Y., Han, X.-Y.
Raman active phonons in RMnO₃ (R=La, Pr, Nd, Sm) manganites
Proceedings of SPIE - The International Society for Optical Engineering 7282, art. no. 72822R (2009).
215. Jang, Y.H., Gervais, F., Lansac, Y.
A -site ordering in colossal magnetoresistance manganite La_{1-x}Sr_xMnO₃? Molecular dynamics simulations and quantum mechanics calculations
Journal of Chemical Physics 131 (9), art. no. 094503 (2009).
214. Wall, S., Prabhakaran, D., Boothroyd, A.T., Cavalleri, A.
Ultrafast coupling between light, Coherent lattice vibrations, and the magnetic structure of semicovalent LaMnO₃
Physical Review Letters 103 (9), art. no. 097402 (2009).
213. Baldini, M., Di Castro, D., Cestelli-Guidi, M., Garcia, J., Postorino, P.
Phase-separated states in high-pressure LaMn_{1-x}Ga_xO₃ manganites
Physical Review B - Condensed Matter and Materials Physics 80 (4), art. no. 045123 (2009).
212. Chaboy, J.
Relationship between the structural distortion and the Mn electronic state in La_{1-x}Ca_xMnO₃: A Mn K-edge XANES study
Journal of Synchrotron Radiation 16 (4), pp. 533-544 (2009).
211. Choithrani, R., Rao, M.N., Chaplot, S.L., Gaur, N.K., Singh, R.K.
Lattice dynamics of manganites RMnO₃ (R = Sm, Eu or Gd): Instabilities and coexistence of orthorhombic and hexagonal phases
New Journal of Physics 11, art. no. 073041 (2009).
210. Kuo, C.C., Liu, W.-R., Hsieh, W.F., Hsu, C.-H., Hsu, H.C., Chen, L.C.
Crystal symmetry breaking of wurtzite to orthorhombic in nonpolar a-ZnO epifilms
Applied Physics Letters 95 (1), art. no. 011905 (2009).
209. Chaix-Pluchery, O., Kreisel, J.
Raman scattering of perovskite DyScO₃ and GdScO₃ single crystals
Journal of Physics Condensed Matter 21 (17), art. no. 175901 (2009).
208. Hao, L., Sheng, L.
Formation and temperature evolution of correlated polarons in colossal magnetoresistive manganites
Journal of Physics Condensed Matter 21 (21), art. no. 215605 (2009).
207. Sathe, V.G., Rawat, R., Dubey, A., Narlikar, A.V., Prabhakaran, D.

- Photo-induced insulator-metal transition probed by Raman spectroscopy
Journal of Physics Condensed Matter 21 (7), art. no. 075603 (2009).
206. Moskvina, A.S.
Disproportionation and electronic phase separation in parent manganite LaMnO₃
Physical Review B - Condensed Matter and Materials Physics 79 (11), art. no. 115102 (2009).
205. Antonakos, A., Filippi, M., Auban-Senzier, P., Lampakis, D., Pasquier, C.R., Prellier, W., Liarokapis, E.
Pressure and magnetic field effects on Pr_{1-x}Ca_xMnO₃ thin films
Physica Status Solidi (B) Basic Research 246 (3), pp. 622-625 (2009).
204. Antonakos, A., Filippi, M., Aydogdu, G.H., Prellier, W., Habermeier, H.-U., Liarokapis, E.
Tuning of the charge ordered state in the manganite thin films by internal or external strains
Physica Status Solidi (B) Basic Research 246 (3), pp. 635-642 (2009).
203. Varshney, D., Mansuri, I., Kaurav, N.
Interpretation of thermal conductivity in the ferromagnetic metallic phase of La_{0.83}Sr_{0.17}MnO₃ manganites: Scattering of phonons and magnons
Journal of Low Temperature Physics 155 (3-4), pp. 177-199 (2009).
202. Siranidi, E., Lampakis, D., Palles, D., Liarokapis, E., Colin, C., Palstra, T.T.M.
Raman studies of vanadates at low temperatures and high pressures
Journal of Superconductivity and Novel Magnetism 22 (2), pp. 185-188 (2009).
201. Antonakos, A., Liarokapis, E., Filippi, M., Prellier, W., Aydogdu, G.H., Habermeier, H.-U.
Infrared reflectivity spectra of manganite thin films grown on different substrates
Journal of Superconductivity and Novel Magnetism 22 (2), pp. 109-113 (2009).
200. El-Hagary, M., Shoker, Y.A., Mohammad, S., Moustafa, A.M., El-Aal, A.A., Michor, H., Reissner, M., (...), Ramadan, A.A.
Structural and magnetic properties of polycrystalline La_{0.77}Sr_{0.23}Mn_{1-x}Cu_xO₃ (0 ≤ x ≤ 0.5) manganites
Journal of Alloys and Compounds 468 (1-2), pp. 47-53 (2009).
199. Kovaleva, N.N., Boris, A.V., Capogna, L., Gavartin, J.L., Popovich, P., Yordanov, P., Maljuk, A., (...), Keimer, B.
Dipole-active optical phonons in YTiO₃: Ellipsometry study and lattice-dynamics calculations
Physical Review B - Condensed Matter and Materials Physics 79 (4), art. no. 045114 (2009).
198. Popa, M., Calderón-Moreno, J.M.
Lanthanum cobaltite thin films on stainless steel
Thin Solid Films 517 (5), pp. 1530-1533 (2009).
197. Sacchetti, A., Corridoni, T., Arcangeletti, E., Postorino, P.
High pressure Raman study of La_{1-x}Ca_xMnO_{3-δ} manganites
EUROPEAN PHYSICAL JOURNAL B Volume: 66 Issue: 3 Pages: 301-305 DOI: 10.1140/epjb/e2008-00441-1 Published: DEC 2008
196. Dubey, A., Sathe, V.G., Rawat, R.
Signature of Jahn-Teller distortion and oxygen stoichiometry in Raman spectra of epitaxial LaMnO_{3+δ} thin films
JOURNAL OF APPLIED PHYSICS Volume: 104 Issue: 11 Article Number: 113530 DOI: 10.1063/1.3040718 Published: DEC 1 2008
195. Dilawar, N., Chandra, U., Parthasarathy, G., Bandyopadhyay, A.K.
Study of high-pressure-induced phase transition in nanocrystalline perovskite (LaSr)(MnFe)O₃ by Raman spectroscopy
JOURNAL OF RAMAN SPECTROSCOPY Volume: 39 Issue: 12 Pages: 1765-1771 DOI: 10.1002/jrs.2032 Published: DEC 2008
194. Andreasson, J., Holmlund, J., Rauer, R., Käll, M., Börjesson, L., Knee, C.S., Eriksson, A.K., Eriksson, S.-G., Rübhausen, M., Chaudhury, R.P.
Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution
PHYSICAL REVIEW B Volume: 78 Issue: 23 Article Number: 235103 DOI: 10.1103/PhysRevB.78.235103 Published: DEC 2008
193. Smirnova, I.S., Bazhenov, A.V., Fursova, T.N., Dubovitskii, A.F., Uspenskaya, L.S., Maksimuk, M.Yu.
IR-active optical phonons in Pnma-1, Pnma-2 and R(3)over-bar phases of LaMnO_{3+δ}
PHYSICA B-CONDENSED MATTER Volume: 403 Issue: 21-22 Pages: 3896-3902 DOI: 10.1016/j.physb.2008.07.008 Published: NOV 30 2008
192. Vermette, J., Jandl, S., Gospodinov, M.M.
Raman study of spin-phonon coupling in ErMnO₃
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 20 Issue: 42 Article Number: 425219 DOI: 10.1088/0953-8984/20/42/425219 Published: OCT 22 2008
191. Lü, W., Ma, X., Zhou, H., Chen, G., Li, J., Zhu, Z., You, Z., Tu, C.
White up-conversion luminescence in rare-earth-ion-doped YAlO₃ nanocrystals
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 112 Issue: 38 Pages: 15071-15074 DOI: 10.1021/jp805205v Published: SEP 25 2008
190. Antonakos, A., Palles, D., Liarokapis, E., Filippi, M., Prellier, W.
Evaluation of the strains in charge-ordered Pr(1-x)Ca(x)MnO(3) thin films using Raman spectroscopy
JOURNAL OF APPLIED PHYSICS Volume: 104 Issue: 6 Article Number: 063508 DOI: 10.1063/1.2978207 Published: SEP 15 2008

189. Girardot, C., Kreisel, J., Pignard, S., Caillault, N., Weiss, F.
Raman scattering investigation across the magnetic and metal-insulator transition in rare earth nickelate RNiO_3 ($\text{R}=\text{Sm}, \text{Nd}$) thin films
PHYSICAL REVIEW B Volume: 78 Issue: 10 Article Number: 104101 DOI: 10.1103/PhysRevB.78.104101 Published: SEP 2008
188. Souza, J.A., Terashita, H., Granado, E., Jardim, R.F., Oliveira, N.F., Muccillo, R.
Polaron liquid-gas crossover at the orthorhombic-rhombohedral transition of manganites
PHYSICAL REVIEW B Volume: 78 Issue: 5 Article Number: 054411 DOI: 10.1103/PhysRevB.78.054411 Published: AUG 2008
187. Singh, M.K., Jang, H.M., Gupta, H.C., Katiyar, R.S.
Polarized Raman scattering and lattice eigenmodes of antiferromagnetic NdFeO_3
JOURNAL OF RAMAN SPECTROSCOPY Volume: 39 Issue: 7 Pages: 842-848 DOI: 10.1002/jrs.1923 Published: JUL 2008
186. Kim, M., Barath, H., Cooper, S.L., Abbamonte, P., Fradkin, E., Rübhausen, M., Zhang, C.L., Cheong, S.-W.
Raman scattering studies of the temperature- and field-induced melting of charge order in $\text{La}_x\text{Pr}_{1-x}\text{Ca}_{1-x-y}\text{MnO}_3$
PHYSICAL REVIEW B Volume: 77 Issue: 13 Article Number: 134411 DOI: 10.1103/PhysRevB.77.134411 Published: APR 2008
185. Paula, A.J., Zaghete, M.A., Longo, E., Varela, J.A.
Microwave-assisted hydrothermal synthesis of structurally and morphologically controlled sodium niobates by using niobic acid as a precursor
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY Issue: 8 Pages: 1300-1308 DOI: 10.1002/ejic.200701138 Published: MAR 2008
184. Li, N., Lin, F.-T., Ma, X.-M., Shi, W.-Z.
Effect of post-annealing on the structure and fluorescence properties of YMnO_3 thin films
SPECTROSCOPY AND SPECTRAL ANALYSIS Volume: 28 Issue: 3 Pages: 606-608 Published: MAR 2008
183. Feng, S.M., Wang, L.J., Zhu, J.L., Li, F.Y., Yu, R.C., Jin, C.Q., Wang, X.H., Li, L.T.
Pressure-induced phase transition in $\text{Ho}_{0.8}\text{Dy}_{0.2}\text{MnO}_3$ multiferroic compound
JOURNAL OF APPLIED PHYSICS Volume: 103 Issue: 2 Article Number: 026102 DOI: 10.1063/1.2829778 Published: JAN 15 2008
182. Lampakis, D., Antonakos, A., Liarokapis, E., Filippi, M., Prellier, W.
Pressure induced insulator-metal phase transition on $\text{Pr}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$ thin films
Journal of Physics Conference Series Volume: 121 Article Number: 052002 DOI: 10.1088/1742-6596/121/5/052002 Published: 2008
181. Hsieh, C.C., Lin, T.H., Shih, H.C., Hsu, C.-H., Luo, C.W., Lin, J.-Y., Wu, K.H., (...), Juang, J.Y.
Magnetic ordering anisotropy in epitaxial orthorhombic multiferroic YMnO_3 films
Journal of Applied Physics 104 (10), art. no. 103912 (2008).
180. Antonakos, A., Lampakis, D., Liarokapis, E., Filippi, M., Prellier, W., Auban-Senzier, P., Pasquier, C.
Pressure effects on the phase separation of $\text{Pr}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$ thin films
Journal of Physics Condensed Matter 20 (48), art. no. 485202 (2008).
179. Yun, H.J., Gervais, F., Lansac, Y.
A-site distribution in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$: A computational study
Materials Research Society Symposium Proceedings 1074, pp. 46-51 (2008).
178. Dubey, A., Sathe, V.G.
The effect of magnetic order and thickness in the Raman spectra of oriented thin films of LaMnO_3
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 19 Issue: 34 Article Number: 346232 DOI: 10.1088/0953-8984/19/34/346232 Published: AUG 29 2007
177. Jandl, S., Mukhin, A.A., Ivanov, V.Yu., Balbashov, A.
Micro-Raman and magnetization studies of $\text{Nd}_{1-x}\text{Ca}_x\text{MnO}_3$ phase transitions
Journal of Physics Conference Series Volume: 92 Article Number: 012125 DOI: 10.1088/1742-6596/92/1/012125 Published: 2007
176. Yang, Y.-F., Held, K.
Localization of strongly correlated electrons as Jahn-Teller polarons in manganites
Physical Review B - Condensed Matter and Materials Physics 76 (21), art. no. 212401 (2007)
175. Vali, R.
Vibrational, dielectric and scintillation properties of YAlO_3
Journal of Luminescence 127 (2), pp. 727-730 (2007)
174. Gupta, R.K., Whang, C.M.
Effects of anion and synthesis route on the structure of $(\text{La}_{0.9}\text{Sr}_{0.1})(\text{Cr}_{0.85}\text{Fe}_{0.05}\text{Co}_{0.05}\text{Ni}_{0.05})\text{O}_3 - \delta$ perovskite and removal of impurity phases
Solid State Ionics 178 (29-30), pp. 1617-1626 (2007)
173. Choi, Y., Mebane, D.S., Wang, J.-H., Liu, M.
Continuum and quantum-chemical modeling of oxygen reduction on the cathode in a solid oxide fuel cell
Topics in Catalysis 46 (3-4), pp. 386-401 (2007)
172. Antonakos, A., Liarokapis, E., Aydogdu, G.H., Habermeyer, H.-U.
Strain effects on $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
Materials Science and Engineering B: Solid-State Materials for Advanced Technology 144 (1-3), pp. 83-88 (2007)

171. Ying, Y., Fan, J., Pi, L., Hong, B., Tan, S., Zhang, Y.
The effect of Ga doping in Nd_{0.7}Sr_{0.3}MnO₃ system
Solid State Communications 144 (7-8), pp. 300-304 (2007)
170. Truong, K.D., Laverdière, J., Singh, M.P., Jandl, S., Fournier, P.
Impact of Co Mn cation ordering on phonon anomalies in La₂CoMnO₆ double perovskites: Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 76 (13), art. no. 132413 (2007)
169. Fukumura, H., Matsui, S., Harima, H., Takahashi, T., Itoh, T., Kisoda, K., Tamada, M., (...), Miyayama, M.
Observation of phonons in multiferroic BiFeO₃ single crystals by Raman scattering
Journal of Physics Condensed Matter 19 (36), art. no. 365224 (2007)
168. Zinenko, V.I., Pavlovskii, M.S.
Lattice dynamics and the phase transition from the cubic phase to the tetragonal phase in the LaMnO₃ crystal within the polarizable-ion model
Physics of the Solid State 49 (9), pp. 1749-1758 (2007)
167. Li, W.J., Zhang, B., Lu, W., Sun, Y.P., Zhang, Y.
Cr-doping effect on the structural, magnetic, transport properties and Raman spectroscopy of La_{2+x}/3Sr_{1-x}/3Mn_{1-x}Cr_xO₃ perovskites
Journal of Physics and Chemistry of Solids 68 (9), pp. 1749-1755 (2007)
166. Kawasaki, T., Ogimoto, Y., Ogawa, N., Miyano, K., Tamaru, H., Izumi, M.
Charge- and orbital-ordering patterns in Bi_{1/2}Sr_{1/2}MnO₃ thin films studied by Raman scattering
Journal of Applied Physics 101 (12), art. no. 123714 (2007)
165. Fan, J., Pi, L., He, Y., Ling, L., Dai, J., Zhang, Y.
Griffiths phase and magnetic polaronic behavior in B-site disordering manganites
Journal of Applied Physics 101 (12), art. no. 123910 (2007)
164. Rini, E.G., Rao, M.N., Chaplot, S.L., Gaur, N.K., Singh, R.K.
Phonon dynamics of lanthanum manganite LaMnO₃ using an interatomic shell model potential
Physical Review B - Condensed Matter and Materials Physics 75 (21), art. no. 214301 (2007)
163. Gupta, R.K., Whang, C.M.
Structural study of a sol-gel derived novel solid oxide fuel cell perovskite: (La_{1-x}Sr_x)(Cr_{0.85}Fe_{0.05}Co_{0.05}Ni_{0.05})O_{3-δ}
Journal of Physics Condensed Matter 19 (19), art. no. 196209 (2007)
162. Asokan, K., Dong, C.L., Bao, C.W., Tsai, H.M., Chiou, J.W., Chang, C.L., Pong, W.F., (...), Peña, O.
Electronic structures of hexagonal manganites HoMnO₃ studied by X-ray absorption near-edge structure
AIP Conference Proceedings 879, pp. 1659-1662 (2007)
161. Božin, E.S., Schmidt, M., Deconinck, A.J., Paglia, G., Mitchell, J.F., Chatterji, T., Radaelli, P.G., (...), Billinge, S.J.L.
Understanding the insulating phase in colossal magnetoresistance manganites: Shortening of the Jahn-Teller long-bond across the phase diagram of La_{1-x}Ca_xMnO₃
Physical Review Letters 98 (13), art. no. 137203 (2007)
160. Andreasson, J., Holmlund, J., Knee, C.S., Käll, M., Börjesson, L., Naler, S., Bäckström, J., (...), Eriksson, S.-G.
Franck-Condon higher order lattice excitations in the LaFe_{1-x}Cr_xO₃ (x=0, 0.1, 0.5, 0.9, 1.0) perovskites due to Fe-Cr charge transfer effects
Physical Review B - Condensed Matter and Materials Physics 75 (10), art. no. 104302 (2007)
159. Gouadec, G., Colombari, P.
Raman Spectroscopy of nanomaterials: How spectra relate to disorder, particle size and mechanical properties
Progress in Crystal Growth and Characterization of Materials 53 (1), pp. 1-56 (2007)
158. Xu, J., Park, J.H., Jang, H.M.
Orbital-spin-phonon coupling in Jahn-Teller-distorted LaMnO₃: Softening of the 490 and 610 cm⁻¹ Raman-active modes
Physical Review B - Condensed Matter and Materials Physics 75 (1), art. no. 012409 (2007)
157. Vijayanandhini, K., Kutty, T.R.N.
Effects of Zn substitution on the magnetic and transport properties of La_{0.6}Sr_{0.4}Mn_{1-y}Zn_yO_{3-δ} (0 ≤ y ≤ 0.3)
Solid State Communications 141 (5), pp. 252-257 (2007)
156. Sugai, S., Hirota, K., Kikuchi, A.
Orbital waves in YVO₃ observed by raman scattering
AIP Conference Proceedings 850, pp. 1227-1228 (2006)
155. Li, W.J., Zhang, B., Lu, W.
Structural properties and Raman spectroscopy of orthorhombic (Eu_{1-x}Pr_x)_{0.6}Sr_{0.4}MnO₃ (0 ≤ x ≤ 1.0)
Solid State Communications 140 (11-12), pp. 503-507 (2006)
154. Minh, N.V., Yang, I.-S.
A Raman scattering study of structural changes in LaMn_{1-x}CoxO_{3+δ} system
Vibrational Spectroscopy 42 (2), pp. 353-356 (2006)
153. Zhang, T., Li, G., Qian, T., Qu, J.F., Xiang, X.Q., Li, X.G.

Effect of particle size on the structure and magnetic properties of La_{0.6}Pb_{0.4}MnO₃ nanoparticles
Journal of Applied Physics 100 (9), art. no. 094324 (2006)

152. Laverdière, J., Jandl, S., Mukhin, A.A., Ivanov, V.Yu.
Raman study of orbital mediated multiphonons in RMnO₃ (R = Pr,Sm,Eu,Tb,Y)
European Physical Journal B 54 (1), pp. 67-72 (2006)

151. Kim, J., Jung, S., Park, M.S., Lee, S.-I., Drew, H.D., Cheong, H., Kim, K.H., Choi, E.J.
Infrared signature of ion displacement in the noncollinear spin state of orthorhombic YMnO₃
Physical Review B - Condensed Matter and Materials Physics 74 (5), art. no. 052406 (2006)

150. Minh, N.V., Hoc, N.Q., Ha Phuong, L.T., Yang, I.-S.
The effect of Fe substitution on the structural transition of LaMn_{1-x}Fe_xO₃ manganites: A raman spectroscopy study
Journal of Nonlinear Optical Physics and Materials 15 (3), pp. 315-321 (2006)

149. Choi, K.-Y., Pashkevich, Yu.G., Gnezdilov, V.P., Güntherodt, G., Yeremenko, A.V., Nabok, D.A., Kamenev, V.I., (...), Lemmens, P.
Orbital fluctuating state in ferromagnetic insulating LaMnO_{3+δ} (0.085 ≤ δ ≤ 0.125) studied using Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 74 (6), art. no. 064406 (2006)

148. Sartbaeva, A., Wells, S.A., Thorpe, M.F., Božin, E.S., Billinge, S.J.L.
Geometric simulation of perovskite frameworks with Jahn-Teller distortions: Applications to the cubic manganites
Physical Review Letters 97 (6), art. no. 065501 (2006)

147. Talati, M., Jha, P.K.
Structure dependent phonon properties of LaMnO₃
Computational Materials Science 37 (1-2), pp. 64-68 (2006)

146. Mondal, P., Bhattacharya, D., Choudhury, P.
Dielectric anomaly at the orbital order-disorder transition in LaMnO_{3+δ}
Journal of Physics Condensed Matter 18 (29), art. no. 024, pp. 6869-6881 (2006)

145. Hotta, T.
Orbital ordering phenomena in d- and f-electron systems
Reports on Progress in Physics 69 (7), art. no. R02, pp. 2061-2155 (2006)

144. Jandl, S., Laverdière, J., Mukhin, A.A., Ivanov, V.Yu., Balbashov, A.M.
Raman and infrared quest for orbitons in Nd_{1-x}Sr_xMnO₃
Physica B: Condensed Matter 381 (1-2), pp. 214-218 (2006)

143. Sacchetti, A., Baldini, M., Postorino, P., Martin, C., Maignan, A.
Raman spectroscopy on cubic and hexagonal SrMnO₃
Journal of Raman Spectroscopy 37 (5), pp. 591-596 (2006)

142. Sugai, S., Kikuchi, A., Mori, Y.
Raman scattering of orbital waves in YTiO₃
Physical Review B - Condensed Matter and Materials Physics 73 (16), art. no. 161101, pp. 1-4 (2006)

141. Belik, A.A., Stefanovich, S.Yu., Lazoryak, B.I., Takayama-Muromachi, E.
BiInO₃: A polar oxide with GdFeO₃-type perovskite structure
Chemistry of Materials 18 (7), pp. 1964-1968

140. Liu, H.L., Lu, K.S., Kuo, M.X., Uba, L., Uba, S., Wang, L.M., Jeng, H.-T.
Magneto-optical properties of La_{0.7}Sr_{0.3}MnO₃ thin films with perpendicular magnetic anisotropy
Journal of Applied Physics 99 (4) (2006)

139. Kartopu G, Es-Souni M
Microstructural properties of solution-deposited La_{0.7}Sr_{0.3}MnO₃ and LaMnO₃ thin films
JOURNAL OF APPLIED PHYSICS 99 (3): Art. No. 033501 FEB 1 2006

138. Sugai S, Hirota K
Orbital waves in YVO₃ studied by Raman scattering
PHYSICAL REVIEW B 73 (2): Art. No. 020409 JAN 2006

137. Roy, P., Qi, Z., Brubach, J.-B., Favaro, L., Piralli, O., Vervloet, M.
Exploiting synchrotron infrared spectra using ab initio calculations
WMSCI 2005: 9th World Multi-Conference on Systemics, Cybernetics and Informatics, Vol 6 Pages: 51-55 Published: 2005

136. Guidi, M.C., Sacchetti, E., Arcangeletti, M., Piccinini, P., Postorino, A., Nucara, A., Marcelli, P., Calvani
Pressure dependence of the phonon spectrum of La_{1-x}Ca_xMnO_{3-δ} manganites
Proceedings of SPIE - The International Society for Optical Engineering 5932, pp. 1-8 (2005)

135. Liu, H.L., Kuo, M.X., Her, J.L., Lu, K.S., Weng, S.M., Wang, L.M., Cheng, S.L., Lin, J.G.
Thickness-dependent optical properties of La_{0.7}Sr_{0.3}MnO₃ thin films
Journal of Applied Physics 97 (11), pp. 1-4 (2005)

134. Dore P, Postorino P, Sacchetti A, et al.

- Raman measurements on thin films of the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ manganite: a probe of substrate-induced effects
EUROPEAN PHYSICAL JOURNAL B 48 (2): 255-258 NOV 2005
133. Zhao BC, Song WH, Ma YQ, et al.
Reentrant metal-insulator transition in the Cu-doped manganites $\text{La}_{1-x}\text{Pb}_x\text{MnO}_3$ (x similar to 0.14) single crystals
PHYSICAL REVIEW B 72 (13): Art. No. 132401 OCT 2005
132. Varshney D, Kaurav N
Interpretation of temperature-dependent resistivity of La-Pb-MnO_3 : Role of electron-phonon interaction
JOURNAL OF LOW TEMPERATURE PHYSICS 141 (3-4): 165-178 NOV 2005
131. Rozenberg GK, Pasternak MP, Xu WM, et al.
Consequences of pressure-instigated spin crossover in RFeO_3 perovskites; a volume collapse with no symmetry modification
EUROPHYSICS LETTERS 71 (2): 228-234 JUL 2005
130. Choi KY, Lemmens P, Guntherodt G, et al.
Orbital-mediated multiphonon scattering in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$
PHYSICAL REVIEW B 72 (2): Art. No. 024301 JUL 2005
129. Jandl S, Mukhin AA, Ivanov VY, et al.
Raman-active phonons and Nd^{3+} crystal-field studies of weakly doped $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$
PHYSICAL REVIEW B 72 (2): Art. No. 024423 JUL 2005
128. Schulz B, Backstrom J, Budelmann D, et al.
Fully reflective deep ultraviolet to near infrared spectrometer and entrance optics for resonance Raman spectroscopy
REVIEW OF SCIENTIFIC INSTRUMENTS 76 (7): Art. No. 073107 JUL 2005
127. Ghosh S, Kamaraju N, Seto M, et al.
Raman scattering in CaFeO_3 and $\text{La}_{0.33}\text{Sr}_{0.67}\text{FeO}_3$ across the charge-disproportionation phase transition
PHYSICAL REVIEW B 71 (24): Art. No. 245110 JUN 2005
126. Aliaga H
Time-dependent local Green's operator and its applications to manganites
PHYSICAL REVIEW B 71 (18): Art. No. 184404 MAY 2005
125. Her JL, Liu HL, Mukovskii YM, et al.
Raman scattering studies of single-crystal $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$
CHINESE JOURNAL OF PHYSICS 43 (3): 763-766 Suppl. 2 JUN 2005
124. Choi KY, Lemmens P, Sahaoui T, et al.
Existence of orbital polarons in ferromagnetic insulating $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0.11 \leq x \leq 0.14$) revealed by giant phonon softening
PHYSICAL REVIEW B 71 (17): Art. No. 174402 MAY 2005
123. Lim D, Thorsmølle VK, Averitt RD, et al.
Coherent optical and acoustic phonon generation correlated with the charge-ordering phase transition in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$
PHYSICAL REVIEW B 71 (13): Art. No. 134403 APR 2005
122. Xiong YM, Wang GY, Luo XG, et al.
Magnetotransport properties in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.33, 0.5$) thin films deposited on different substrates
JOURNAL OF APPLIED PHYSICS 97 (8): Art. No. 083909 APR 15 2005
121. Wang WR, Xu DP, Su WH
Raman shift of RMnO_3 ($R = \text{La, Pr, Nd, Sm}$) manganites
CHINESE PHYSICS LETTERS 22 (3): 705-707 MAR 2005
120. Xu SJ, Tong W, Fan JY, et al.
Influence of doped Dy on magnetic and electronic properties in $\text{La}_{0.67-x}\text{Dy}_x\text{Sr}_{0.33}\text{MnO}_3$
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 288: 92-105 MAR 2005
119. Seikh MM, Sood AK, Narayana C
Electronic and vibrational Raman spectroscopy of $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ through the phase transitions
PRAMANA-JOURNAL OF PHYSICS 64 (1): 119-128 JAN 2005
118. Venimadhav A, Yates KA, Blamire MG
Scanning Raman spectroscopy for characterizing compositionally spread films
JOURNAL OF COMBINATORIAL CHEMISTRY 7 (1): 85-89 JAN-FEB 2005
117. Pashkevich, YG, Gnezdilov, VP, Lemmens, P, Choi, KY, Guntherodt, G, Yermenko, AV, Barilo, SN, Shiryayev, SV, Soldatov, AG
Giant phonon softening in ferromagnetic $\text{LaMnO}_3+\delta$
SPECTROSCOPY OF EMERGING MATERIALS Book Series: NATO SCIENCE SERIES, SERIES II: MATHEMATICS, PHYSICS AND CHEMISTRY Volume: 165 Pages: 185-194 Published: 2004
116. Wu L, Yu JC, Zhang LZ, et al.
Selective self-propagating combustion synthesis of hexagonal and orthorhombic nanocrystalline yttrium iron oxide
JOURNAL OF SOLID STATE CHEMISTRY 177 (10): 3666-3674 OCT 2004

115. Bull, C.L., McMillan, P.F.
Raman scattering study and electrical properties characterization of elpasolite perovskites $\text{Ln}_2(\text{BB}')\text{O}_6$ ($\text{Ln}=\text{La, Sm...Gd}$ and $\text{B,B}'=\text{Ni, Co, Mn}$)
Journal of Solid State Chemistry 177 (7), pp. 2323-2328 (2004)
114. Xiong YM, Chen T, Wang GY, et al.
Raman spectra in epitaxial thin films of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.33, 0.5$) grown on different substrates
PHYSICAL REVIEW B 70 (9): Art. No. 094407 SEP 2004
113. Varshney D, Kaurav N
Electrical resistivity in the ferromagnetic metallic state of La-Ca-MnO_3 : Role of electron-phonon interaction
EUROPEAN PHYSICAL JOURNAL B 40 (2): 129-136 JUL 2004
112. Yuan QS
Comment on "Strain effect and the phase diagram of $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$ thin films"
PHYSICAL REVIEW B 70 (6): Art. No. 066401 AUG 2004
111. Sacchetti A, Dore P, Postorino P, et al.
Pressure and temperature dependence of optical phonons in $\text{La}_{0.75}\text{Ca}_{0.25}\text{MnO}_3$
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 65 (8-9): 1431-1437 Sp. Iss. SI AUG-SEP 2004
110. Dho J, Leung CW, MacManus-Driscoll JL, et al.
Epitaxial and oriented YMnO_3 film growth by pulsed laser deposition
JOURNAL OF CRYSTAL GROWTH 267 (3-4): 548-553 JUL 1 2004
109. Arisi E, Bergenti I, Dediu V, et al.
Magnetic field-induced variations in $\text{Pr}_{0.65}\text{Ca}_{0.35}\text{MnO}_3$: Raman investigation
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 272-76: 1751-1752 Part 3 Sp. Iss. SI MAY 2004
108. Maczka M, Hanuza J, Fuentes AF, et al.
Vibrational studies of $\text{A}(\text{B}'\text{B}-2/3(1/3))\text{O}_3$ perovskites ($\text{A} = \text{Ba, Sr}$; $\text{B}' = \text{Y, Sm, Dy, Gd, In}$; $\text{B}'' = \text{Mo, W}$)
JOURNAL OF PHYSICS-CONDENSED MATTER 16 (13): 2297-2310 APR 7 2004
107. Tompsett GA, Sammes NM
Characterisation of the SOFC material, LaCrO_3 , using vibrational spectroscopy
J POWER SOURCES 130 (1-2): 1-7 MAY 3 2004
106. Mertelj T, Hrovat M, Kuscer D, et al.
Direct measurement of Polaron binding energy in AMnO_3 as a function of the A site ionic size by photoinduced IR absorption
J SUPERCOND 17 (2): 187-191 APR 2004
105. Kruger R, Schulz B, Naler S, et al.
Orbital ordering in LaMnO_3 investigated by resonance Raman spectroscopy
PHYS REV LETT 92 (9): Art. No. 097203 MAR 5 2004
104. Tsurui T, Ogita N, Udagawa M, et al.
Raman scattering investigation of $\text{Y}_{1-x}\text{Ca}_x\text{TiO}_3$
PHYS REV B 69 (2): Art. No. 024102 JAN 2004
103. Tatsi A, Papadopoulou EL, Lampakis D, et al.
Raman study in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
ACTA PHYS POL A 105 (1-2): 99-106 JAN-FEB 2004
102. Gnezdilov VP, Yermenko AV, Pashkevich YG, et al.
Phonon Raman scattering in $\text{LaMn}_{1-x}\text{Co}_x\text{O}_3$ ($x = 0, 0.2, 0.3, 0.4$, and 1.0)
LOW TEMP PHYS+ 29 (11): 963-966 NOV 2003
101. Gong F, Tong W, Tan S, et al.
Large effect of small Zn doping on the electric and magnetic properties in $\text{LaMn}_{1-x}\text{Zn}_x\text{O}_3$
PHYS REV B 68 (17): Art. No. 174410 NOV 2003
100. Takahashi J, Matsubara E, Arima T, et al.
Coherent multistep anti-Stokes and stimulated Raman scattering associated with third harmonics in YFeO_3 crystals
PHYS REV B 68 (15): Art. No. 155102 OCT 15 2003
99. Aliaga H, Magnoux D, Moreo A, et al.
Theoretical study of half-doped models for manganites: Fragility of CE phase with disorder, two types of colossal magnetoresistance, and charge-ordered states for electron-doped materials
PHYS REV B 68 (10): Art. No. 104405 SEP 1 2003
98. Suzuki K, Fu DS, Nishizawa K, et al.
Ferroelectric property of alkoxy-derived YMnO_3 films crystallized in argon
JPN J APPL PHYS 42 (9A): 5692-5695 SEP 2003
97. Liu Y, Li G, Feng SJ, et al.
Jahn-Teller distortions cooperating with magnetic interaction in the Raman spectra of $\text{La}_{0.7}\text{Ca}_{0.25}\text{MnO}_3$ thin film

96. Tatsi A, Papadopoulou EL, Lampakis D, et al.
Raman study of anharmonic effects in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
PHYS REV B 68 (2): Art. No. 024432 JUL 1 2003
95. Kreisel J, Bouvier P
High-pressure Raman spectroscopy of nano-structured ABO_3 perovskites: a case study of relaxor ferroelectrics
J RAMAN SPECTROSC 34 (7-8): 524-531 JUL-AUG 2003
94. Hu LB, Tong W, Zhu H, et al.
The effects of Jahn-Teller distortion changes on transport properties in $\text{LaMn}_{1-x}\text{Zn}_x\text{O}_3$
J PHYS-CONDENS MAT 15 (12): 2033-2043 APR 2 2003
93. Jandl S, Barilo SN, Shiryayev SV, et al.
Study of Raman active phonons in NdMnO_3
J MAGN MAGN MATER 264 (1): 36-43 AUG 2003
92. Suda J, Kamishima O, Hamaoka K, et al.
The first-order Raman spectra and lattice dynamics for YAlO_3 crystal
J PHYS SOC JPN 72 (6): 1418-1422 JUN 2003
91. Choi KY, Lemmens P, Guntherodt G, et al.
Raman scattering study of $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x = 0.3, 0.5$)
J PHYS-CONDENS MAT 15 (19): 3333-3342 MAY 21 2003
90. Filippetti A, Spaldin NA
Self-interaction-corrected pseudopotential scheme for magnetic and strongly-correlated systems
PHYS REV B 67 (12): Art. No. 125109 MAR 15 2003
89. Van Minh N, Kim SJ, Yang IS
Effect of Ni on structure and Raman scattering of $\text{LaMn}_{1-x}\text{Ni}_x\text{O}_{3+\delta}$
PHYSICA B 327 (2-4): 208-210 APR 2003
88. Popa M, Van Hong L, Kakihana M
Nanopowders of LaMeO_3 perovskites obtained by a solution-based ceramic processing technique
PHYSICA B 327 (2-4): 233-236 APR 2003
87. Souza AG, Faria JLB, Guedes I, et al.
Evidence of magnetic polaronic states in $\text{La}_{0.70}\text{Sr}_{0.30}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ manganites
PHYS REV B 67 (5): Art. No. 052405 FEB 1 2003
86. Guttler B, Amelichev VA, Gorbenko OY, et al.
Static and dynamic Jahn-Teller distortions in CMR manganites: A Raman spectrometric study
PHASE TRANSIT 76 (1-2): 63-72 Part B JAN-FEB 2003
85. Nikiforov AE, Popov SE
The lattice dynamics of LaMnO_3 : the role of the orbital degrees of freedom
APPL PHYS A-MATER 74: S1743-S1745 Part 2 Suppl. S DEC 2002
84. Popa M, Frantti J, Kakihana M
Characterization of LaMeO_3 (Me : Mn, Co, Fe) perovskite powders obtained by polymerizable complex method
SOLID STATE IONICS 154: 135-141 Part B Sp. Iss. SI DEC 2002
83. Suda J, Mori T, Saito H, et al.
First-order Raman spectra and lattice dynamics of a NdGaO_3 crystal
PHYS REV B 66 (17): Art. No. 174302 NOV 1 2002
82. Martin-Carron L, de Andres A, Martinez-Lope MJ, et al.
Raman phonons as a probe of disorder, fluctuations, and local structure in doped and undoped orthorhombic and rhombohedral manganites
PHYS REV B 66 (17): Art. No. 174303 NOV 1 2002
81. Zhou HD, Li G, Liu F, et al.
Raman spectrum and ESR of $\text{Pr}_{0.5}\text{Ca}_{0.4}\text{Sr}_{0.1}\text{MnO}_3$
SOLID STATE COMMUN 124 (3): 83-87 2002
80. Qin S, Wu X, Seifert F, et al.
Micro-Raman study of perovskites in the CaTiO_3 - SrTiO_3 system
J CHEM SOC DALTON (19): 3751-3755 2002
79. Moskvina AS, Avvakumov IL
Doped manganites beyond conventional double-exchange model
PHYSICA B 322 (3-4): 371-389 SEP 2002
78. Hill NA
Density functional studies of multiferroic magnetoelectrics

77. Suzuki, K, Nishizawa, K, Miki, T, Kato, K
Synthesis of ferroelectric YMnO₃ thin film by chemical solution deposition
KEY ENG MAT 228-2: 141-146 2002
76. Suzuki K, Nishizawa K, Miki T, et al.
Effects of composition on crystallographic properties of alkoxy-derived (Y,Yb)MnO₃ thin films
ASIAN CERAMIC SCIENCE FOR ELECTRONICS I Book Series: KEY ENGINEERING MATERIALS Volume: 214-2 Pages: 151-156
Published: 2002
75. Gontchar, L.E., Nikiforov, A.E.
Superexchange interaction in insulating manganites R_{1-x}A_xMnO₃ (x=0, 0.5)
Physical Review B - Condensed Matter and Materials Physics 66 (1), pp. 144371-144379 (2002)
74. Okamoto S, Ishihara S, Maekawa S
Theory of Raman scattering from orbital excitations in manganese oxides
PHYS REV B 66 (1): Art. No. 014435 JUL 1 2002
73. Pattabiraman M, Rangarajan G, Choi KY, et al.
Polarized Raman scattering in single crystals of Nd_{0.7}Sr_{0.3}MnO₃
PRAMANA-J PHYS 58 (5-6): 1013-1017 MAY-JUN 2002
72. Postorino P, Congeduti A, Degiorgi E, et al.
High-pressure behavior of La_xSr_{2-x}MnO₄ layered manganites investigated by Raman spectroscopy and x-ray diffraction
PHYS REV B 65 (22): Art. No. 224102 JUN 1 2002
71. Eriksson, S.-G., Valkeapää, M., Ivanov, S., Eriksen, J., Rundlöf, H., Johansson, L.-G., Mathieu, R., Svedlindh, P., Bäckström, J., Börjesson, L.
Phase transitions and magnetic order in La_{1-x}Sr_xMnO₃+ δ (x \leq 0.2; 2.85 \leq 2- δ \leq 3.00)
FERROELECTRICS Volume: 269 Pages: 309-314 DOI: 10.1080/00150190211131 Published: 2002
70. Loa I, Adler P, Grzechnik A, et al.
Suppression of Jahn-Teller distortion and insulator-to-metal transition in LaMnO₃ at high pressures
HIGH PRESSURE RES 22 (2): 325-329 Sp. Iss. SI MAY 2002
69. Kuroe H, Habu I, Kuwahara H, et al.
Low-frequency excitations in the charge-ordered phase of (Nd_{0.5}Sr_{0.5})MnO₃
PHYSICA B 316: 575-578 MAY 2002
68. Kreisel J, Lucazeau G, Dubourdieu C, et al.
Raman scattering study of La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ multilayers
J PHYS-CONDENS MAT 14 (20): 5201-5210 MAY 27 2002
67. Gupta R, Pai GV, Sood AK, et al.
Raman scattering in charge-ordered Pr_{0.63}Ca_{0.37}MnO₃: Anomalous temperature dependence of linewidth
EUROPHYS LETT 58 (5): 778-784 JUN 2002
66. Bala J, Oles AM, Sawatzky GA
Orbital-lattice polarons in ferromagnetic LaMnO₃
PHYS REV B 65 (18): Art. No. 184414 MAY 1 2002
65. Filippetti A, Hill NA
Coexistence of magnetism and ferroelectricity in perovskites
PHYS REV B 65 (19): Art. No. 195120 MAY 15 2002
64. Saitoh E, Tomioka Y, Kimura T, et al.
Role of orbital correlation in colossal magnetoresistance
J MAGN MAGN MATER 239 (1-3): 170-172 Sp. Iss. SI FEB 2002
63. Naler S, Rubhausen M, Yoon S, et al.
Lattice dynamics and charge ordering in La_{1-x}Ca_xMnO₃ (0.45 \leq x \leq 0.76)
PHYS REV B 65 (9): art. no. 092401 MAR 1 2002
62. Suzuki K, Nishizawa K, Miki T, et al.
Synthesis of ferroelectric YMnO₃ thin film by chemical solution deposition
KEY ENG MAT 7: 151-156 2002
61. Trodahl, H.J., Fainstein, A., Pregliasco, R.G., Buckley, R.G., Balakrishnan, G., Lees, M.R., Paul, D.M., Pantoja, A.E.
O(Mn) vibrational bands in double-layered manganites: First and second order Raman scattering
Physical Review B - Condensed Matter and Materials Physics 63(13), 132406 (2001)
60. Suzuki, K., Nishizawa, K., Miki, T., Kato, K.
Synthesis of YMnO₃ thin films from alkoxy-derived precursors
FERROELECTRICS Volume: 263 Issue: 1-4 Pages: 1585-1590 Published: 2001

59. Kreisel J, Lucazeau G, Dubourdieu C, et al.
A Raman scattering investigation of tensile strain in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ multilayers
J PHYS IV 11 (PR11): 227-231 DEC 2001
58. Eriksson SG, Ivanov S, Eriksen J, et al.
A neutron powder diffraction and inelastic light scattering study of $(\text{La},\text{Sr})\text{MnO}_{3+\delta}$
MATER SCI FORUM 378-3: 505-510 Part 1&2 2001
57. Zhang PX, Huang SJ, Habermeier HU, et al.
Raman spectra from isotope substituted $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$
PHYSICA C 364: 647-651 NOV 2001
56. Zhang PX, Huang SJ, Habermeier HU, et al.
Isotope effect on Raman spectra of polycrystalline $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$
J RAMAN SPECTROSC 32 (10): 812-816 OCT 2001
55. Filippetti A, Hill NA
First principles study of structural, electronic and magnetic interplay in ferroelectromagnetic yttrium manganite
J MAGN MAGN MATER 236 (1-2): 176-189 OCT 2001
54. Loa I, Adler P, Grzechnik A, et al.
Pressure-induced quenching of the Jahn-Teller distortion and insulator-to-metal transition in LaMnO_3
PHYS REV LETT 87 (12): art. no. 125501 SEP 17 2001
53. Perebeinos V, Allen PB
Multiphonon resonant Raman scattering predicted in LaMnO_3 from the Franck-Condon process via self-trapped excitons
PHYS REV B 64 (8): art. no. 085118 AUG 15 2001
52. Martin-Carron L, de Andres A
Melting of the cooperative Jahn-Teller distortion in LaMnO_3 single crystal studied by Raman spectroscopy
EUR PHYS J B 22 (1): 11-16 JUL 2001
51. Yin WG, Lin HQ, Gong CD
Single hole motion in LaMnO_3
PHYS REV LETT 87 (4): art. no. 047204 JUL 23 2001
50. Martin-Carron L, de Andres A
Raman phonons and the Jahn-Teller transition in RMnO_3 manganites
J ALLOY COMPD 323: 417-421 JUL 12 2001
49. Martin-Carron L, de Andres A, Martinez-Lope MJ, et al.
Raman phonons and light scattering in RMnO_3 ($\text{R}=\text{La}, \text{Pr}, \text{Nd}, \text{Ho}, \text{ErTb}$ and Y) orthorhombic and hexagonal manganites
J ALLOY COMPD 323: 494-497 JUL 12 2001
48. Nikiforov AE, Popov SE
Lattice dynamics of LaMnO_3 : Coupling of the lattice and orbital degrees of freedom
PHYS SOLID STATE+ 43 (6): 1132-1140 JUN 2001
47. Pantoja AE, Trodahl HJ, Buckley RG, et al.
Raman spectroscopy of orthorhombic $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$, $x=0.1-0.3$
J PHYS-CONDENS MAT 13 (16): 3741-3752 APR 23 2001
46. Dagotto E, Hotta T, Moreo A
Colossal magnetoresistant materials: The key role of phase separation
PHYS REP 344 (1-3): 1-153 APR 2001
45. Pantoja AE, Trodahl HJ, Fainstein A, et al.
O(Mn) vibrational bands in double-layered manganites: First and second order Raman scattering
PHYS REV B 63 (13): art. no. 132406 APR 1 2001
44. Amelichev VA, Guttler B, Gorbenko OY, et al.
Structural and chemical analysis of colossal magnetoresistance manganites by Raman spectrometry
PHYS REV B 63 (10): art. no. 104430 FEB 21 2001
43. Saitoh E, Okamoto S, Takahashi KT, et al.
Observation of orbital waves as elementary excitations in a solid
NATURE 410: (6825) 180-183 MAR 8 2001
42. Congeduti A, Postorino P, Caramagno E, et al.
Anomalous high pressure dependence of the Jahn-Teller phonon in $\text{La}_{0.75}\text{Ca}_{0.25}\text{MnO}_3$
PHYS REV LETT 86: (7) 1251-1254 FEB 12 2001
41. Li JM, Huan CHA, Du YW, et al.
Magnetic-field-tunable charge carrier localization in sintered polycrystalline $\text{La}_{0.75}\text{Ca}_{0.25}\text{MnO}_3$
PHYS REV B 63 (2): art. no. 024416 JAN 1 2001

40. Francis, AJ, Bagal, A, Salvador, PA
Thin film synthesis of metastable perovskites: YMnO_3
INNOVATIVE PROCESSING AND SYNTHESIS OF CERAMICS, GLASSES, AND COMPOSITES IV Book Series: CERAMIC
TRANSACTIONS Volume: 115 Pages: 565-575 Published: 2000
39. Habermeier, HU
Correlation of microstructure and magnetotransport properties of epitaxially grown La-Ca-Mn-O-3 thin films
MAGNETIC AND SUPERCONDUCTING MATERIALS, (MSM-99), VOLS A AND B Pages: 905-918 DOI:
10.1142/9789812793676_0118 Published: 2000
38. Congeduti A, Postorino P, Dore P, et al.
High pressure behavior of manganites by infrared and Raman spectroscopy
INT J MOD PHYS B 14: (29-31) 3418-3423 DEC 20 2000
37. Perebeinos V, Allen PB
Franck-condon-broadened angle-resolved photoemission spectra predicted in LaMnO_3
PHYS REV LETT 85: (24) 5178-5181 DEC 11 2000
36. Guedes I, Mitchell JF, Argyriou D, et al.
Oxygen stoichiometry in $\text{Sr}_3\text{Mn}_2\text{O}_7$ -delta: A Raman scattering investigation
PHYS REV B 62: (21) 13809-13811 DEC 1 2000
35. Guedes I, Mitchell JF, Argyriou D, et al.
Raman phonons in $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$ layered manganites
J RAMAN SPECTROSC 31: (11) 1013-1015 NOV 2000
34. Granado E, Sanjurjo JA, Rettori C, et al.
Order-disorder in the Jahn-Teller transition of LaMnO_3 : A Raman scattering study
PHYS REV B 62: (17) 11304-11307 NOV 1 2000
33. Hotta T, Malvezzi AL, Dagotto E
Charge-orbital ordering and phase separation in the two-orbital model for manganites: Roles of Jahn-Teller phononic and Coulombic interactions
PHYS REV B 62: (14) 9432-9452 OCT 1 2000
32. Saitoh E, Tomioka Y, Kimura T, et al.
Directional ordering and collective fluctuation of orbital in a colossal magnetoresistive manganite
J PHYS SOC JPN 69: (8) 2403-2406 AUG 2000
31. Yi WC, Kwun SI, Yoon JG
Study on the electronic structure of hexagonal and orthorhombic YMnO_3
J PHYS SOC JPN 69: (8) 2706-2707 AUG 2000
30. Granado E, Sanjurjo JA, Rettori C, et al.
Effects of cation vacancies in the phonon Raman spectra of LaMnO_3
PHYS STATUS SOLIDI B 220: (1) 609-613 JUL 2000
29. Ishihara S, Maekawa S
Theory of orbital excitation and resonant inelastic x-ray scattering in manganites
PHYS REV B 62: (4) 2338-2345 JUL 15 2000
28. Hill NA
Why are there so few magnetic ferroelectrics?
J PHYS CHEM B 104: (29) 6694-6709 JUL 27 2000
27. Argyriou DN, Bordallo HN, Campbell BJ, et al.
Charge ordering and phase competition in the layered perovskite $\text{LaSr}_2\text{Mn}_2\text{O}_7$
PHYS REV B 61: (22) 15269-15276 JUN 1 2000
26. Yamamoto K, Kimura T, Ishikawa T, et al.
Raman spectroscopy of the charge-orbital ordering in layered manganites
PHYS REV B 61: (21) 14706-14715 JUN 1 2000
25. Gonchar' LE, Nikiforov AE
Effect of orbital ordering on the magnetic-structure formation in the LaMnO_3 Jahn-Teller magnet
PHYS SOLID STATE+ 42: (6) 1070-1074 2000
24. Dediu V, Ferdeghini C, Maticotta FC, et al.
Jahn-Teller dynamics in charge-ordered manganites from Raman spectroscopy
PHYS REV LETT 84: (19) 4489-4492 MAY 8 2000
23. Paolone A, Roy P, Pimenov A, et al.
Infrared phonon spectrum of pure and doped LaMnO_3
PHYS REV B 61: (17) 11255-11258 MAY 1 2000
22. Pi L, Zheng L, Zhang YH

- Transport mechanism in polycrystalline $\text{La}_{0.825}\text{Sr}_{0.175}\text{Mn}_{1-x}\text{Cu}_x\text{O}_3$
 PHYS REV B 61: (13) 8917-8921 APR 1 2000
21. Bjornsson P, Rubhausen M, Backstrom J, et al.
 Lattice and charge excitations in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$
 PHYS REV B 61: (2) 1193-1197 JAN 1 2000
20. Granado, E., Moreno, N.O., Garc a, A., Sanjurjo, J.A., Rettori, C., Torriani, I., Oseroff, S.B., Neumeier, J.J., McClellan, K.J., Cheong, S.-W., Tokura, Y.
 Raman scattering in CMR manganites
 Materials Science Forum 302-303, 134-138 (1999)
19. Hotta T, Yunoki S, Mayr M, et al.
 A-type antiferromagnetic and C-type orbital-ordered states in LaMnO_3 using cooperative Jahn-Teller phonons
 PHYS REV B 60: (22) R15009-R15012 DEC 1 1999
18. E. Liarokapis, Th. Leventouri, D. Lampakis, D. Palles, J. J. Neumeier, and D. H. Goodwin
 Local lattice distortions and Raman spectra in the $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ system
 PHYS. REV. B 60: (18) 12758 –12763 NOV 1 (1999)
17. Allen PB, Perebeinos V
 Self-trapped exciton and Franck-Condon spectra predicted in LaMnO_3
 PHYS REV LETT 83: (23) 4828-4831 DEC 6 1999
16. Fedorov I, Lorenzana J, Dore P, et al.
 Infrared-active phonons of LaMnO_3 and CaMnO_3
 PHYS REV B 60: (17) 11875-11878 NOV 1 1999
15. Granado E, Garcia A, Sanjurjo JA, et al.
 Magnetic ordering effects in the Raman spectra of $\text{La}_{1-x}\text{Mn}_x\text{O}_3$
 PHYS REV B 60: (17) 11879-11882 NOV 1 1999
14. Habermeyer HU, Razavi F, Lebedev O, et al.
 Correlation of microstructure and magnetotransport properties of epitaxially grown La-Ca-Mn-O-3 thin films
 PHYS STATUS SOLIDI B 215: (1) 679-683 SEP 1999
13. Gupta HC, Ashdhir P
 Zone center phonons of orthorhombic perovskite YAlO_3
 J SOLID STATE CHEM 146: (2) 287-290 SEP 1999
12. Yamamoto K, Kimura T, Ishikawa T, et al.
 Probing charge/orbital correlation in $\text{La}_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$ by Raman spectroscopy
 J PHYS SOC JPN 68: (8) 2538-2541 AUG 1999
11. de Andres A, Martinez JL, Alonso JM, et al.
 Raman phonons in orthorhombic manganites
 J MAGN MAGN MATER 197: 453-454 MAY 1999
10. Irwin JC, Chrzanowski J, Franck JP
 Oxygen isotope effect on the vibrational modes of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$
 PHYS REV B 59: (14) 9362-9371 APR 1 1999
9. Smirnova IS
 Normal modes of the LaMnO_3 Pnma phase: comparison with La_2CuO_4 Cmca phase
 PHYSICA B 262: (3-4) 247-261 APR 1 1999
8. Roy C, Budhani RC
 Raman, infrared and x-ray diffraction study of phase stability in $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$ doped manganites
 J APPL PHYS 85: (6) 3124-3131 MAR 15 1999
7. Gupta HC, Ashdhir P
 Lattice dynamics of orthorhombic perovskite YMnO_3
 PHYSICA B 262: (1-2) 1-4 FEB 1999
6. Calvani P, De Marzi G, Dore P, et al.
 Infrared absorption from charge density waves in magnetic manganites
 PHYS REV LETT 81: (20) 4504-4507 NOV 16 1998
5. Granado E, Moreno NO, Garcia A, et al.
 Phonon Raman scattering in $\text{R}_{(1-x)}\text{A}_x\text{MnO}_{(3+\delta)}$ ($\text{R} = \text{La, Pr}$; $\text{A} = \text{Ca, Sr}$)
 PHYS REV B 58: (17) 11435-11440 NOV 1 1998
4. Salvador PA, Doan TD, Mercey B, et al.
 Stabilization of YMnO_3 in a perovskite structure as a thin film
 CHEM MATER 10: (10) 2592-2595 OCT 1998

3. De Teresa JM, Dorr K, Muller KH, et al.
Strong influence of the Mn³⁺ content on the binding energy of the lattice polarons in manganese perovskites
PHYS REV B 58: (10) R5928-R5931 SEP 1 1998
 2. Yoon S, Liu HL, Schollerer G, et al.
Raman and optical spectroscopic studies of small-to-large polaron crossover in the perovskite manganese oxides
PHYS REV B 58: (5) 2795-2801 AUG 1 1998
 1. Podobedov VB, Weber A, Romero DB, et al.
Effect of structural and magnetic transitions in La_{1-x}M_xMnO₃ (M=Sr, Ca) single crystals in Raman scattering
PHYS REV B 58: (1) 43-46 JUL 1 1998
23. *"Raman-active phonons in the quasi-one dimensional conductor La_{8-x}Sr_xCu₈O_{20-y} (x = 1.6, 2.0): polarized Raman spectroscopy and lattice dynamical calculations"*
M. V. Abrashev, C. Thomsen, and V. N. Popov
J. Phys.: Condens. Matter 10 (1998) 1643 - 1654.
1. Napoletano M, Amores JMG, Magnone E, et al.
Skeletal infrared spectra and structural properties of La_{2-x}Sr_xCuO₄ and La_{2-x}Ba_xCuO₄ cuprate powders in the 0 ≤ x ≤ 0.125 region
PHYSICA C 319: (3-4) 229-237 JUN 20 1999
24. *"Raman-active phonons in orthorhombic YMnO₃ and LaMnO₃"*
M. N. Iliev, M. V. Abrashev, H. G. Lee, V. N. Popov, Y. Y. Sun, C. Thomsen, R. L. Meng, and C. W. Chu
J. Phys. Chem. Solids 59 no. 10 - 12 (1998) 1982 - 1984.
16. Physical study of PrCu_{1-x}Zn_xO₃ perovskite for 0.0 ≤ x ≤ 0.3
Maayoufi, AE (Maayoufi, A. E.)
Sdiri, N (Sdiri, N.) Valente, MA (Valente, M. A.) Horchani-Naifer, K (Horchani-Naifer, K.) Ferid, M (Ferid, M.)
JOURNAL OF ALLOYS AND COMPOUNDS Volume849 Article Number156239 PublishedDEC 30 2020
 15. Phase transition and multiferroic properties of Zr-doped BiFeO₃ thin films
Ma, ZB (Ma, Zhibiao) Liu, HY (Liu, Huiying) Wang, LX (Wang, Lingxu) Zhang, FQ (Zhang, Fengqing) Zhu, LY (Zhu, Luyi) Fan, SH (Fan, Suhua)
JOURNAL OF MATERIALS CHEMISTRY C Volume8 Issue48 Page17307-17317 PublishedDEC 28 2020
 14. Bond analysis of novel MnZrTa₂O₈ microwave dielectric ceramics with monoclinic structure
Zhang, Y (Zhang, Yun) Ding, SH (Ding, Shihua) Li, C (Li, Chao) Song, TX (Song, Tianxiu) Zhang, YC (Zhang, Yingchun)
JOURNAL OF MATERIALS SCIENCE Volume55 Issue20 Page8491-8501 PublishedJUL 2020
 13. Optical Study of the Electronic Structure and Lattice Dynamics of NdBaMn₂O₆ Single Crystals
Mero, RD (Mero, Rea Divina) Ogawa, K (Ogawa, Kirari) Yamada, S (Yamada, Shigeki) Liu, HL (Liu, Hsiang-Lin)
SCIENTIFIC REPORTS Volume9 Article Number18164 PublishedDEC 3 2019
 12. Boukhachem, A., Ziouche, A., Amor, M.B., Kamoun, O., Zergoug, M., Maghraoui-Meherzi, H., Yumak, A., Boubaker, K., Amlouk, M.
Physical investigations on perovskite LaMnO_{3-δ} sprayed thin films for spintronic applications
Materials Research Bulletin 74, 202-211 DOI: 10.1016/j.materresbull.2015.10.003 (2016)
 11. Roberge, B., Balli, M., Jandl, S., Fournier, P., Palstra, T.T.M., Nugroho, A.A.
Raman and infrared study of 4f electron-phonon coupling in HoVO₃
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 28 Issue: 43 Article Number: 435401 DOI: 10.1088/0953-8984/28/43/435401 Published: NOV 2 2016
 10. Roberge, B., Jandl, S., Nugroho, A.A., Palstra, T.T.M., Tung, L.D., Balakrishnan, G.
Study of phase coexistence in YVO₃ and LaVO₃
JOURNAL OF RAMAN SPECTROSCOPY Volume: 46 Issue: 11 Pages: 1157-1160 DOI: 10.1002/jrs.4735 Published: NOV 2015
 9. Balli, M.; Roberge, B.; Jandl, S.; et al.
Observation of large refrigerant capacity in the HoVO₃ vanadate single crystal
JOURNAL OF APPLIED PHYSICS Volume: 118 Issue: 7 Article Number: 073903 Published: AUG 21 2015
 8. Iliescu, I.; Boudard, M.; Chaix-Pluchery, O.; et al.
Phase transformations and selective growth in YMnO₃ films
JOURNAL OF SOLID STATE CHEMISTRY Volume: 220 Pages: 245-253 Published: DEC 2014
 7. Otero-Lorenzo, Ruth; Weber, Mads C.; Thomas, Pamela A.; et al.
Interplay of chemical structure and magnetic order coupling at the interface between Cr₂O₃ and Fe₃O₄ in hybrid nanocomposites
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 16 Issue: 40 Pages: 22337-22342 Published: OCT 28 2014
 6. Iliescu, I.; Boudard, M.; Rapenne, L.; et al.
MOCVD selective growth of orthorhombic or hexagonal YMnO₃ phase on Si(100) substrate
APPLIED SURFACE SCIENCE 306, pp. 27-32 JUL 1 2014

5. Li, M.-R., Walker, D., Retuerto, M., Sarkar, T., Hadermann, J., Stephens, P.W., Croft, M., (...), Greenblatt, M.
Polar and magnetic Mn₂FeMO₆ (M=Nb, Ta) with LiNbO₃-type structure: High-pressure synthesis
Angewandte Chemie - International Edition 52 (32), pp. 8406-8410, 2013

4. Weber, M.C., Kreisel, J., Thomas, P.A., Newton, M., Sardar, K., Walton, R.I.
Phonon Raman scattering of RCrO₃ perovskites (R=Y, La, Pr, Sm, Gd, Dy, Ho, Yb, Lu)
Physical Review B - Condensed Matter and Materials Physics 85 (5) , art. no. 054303, 2012.

3. Chopelas, A.
Single-crystal Raman spectra of YAlO₃ and GdAlO₃: Comparison to several orthorhombic ABO₃ perovskites
Physics and Chemistry of Minerals 38 (9), pp. 709-726, 2011.

2. Weisse A, Fehske H
Interplay of charge, spin, orbital and lattice correlations in colossal magnetoresistance manganites
EUR PHYS J B 30 (4): 487-494 DEC 2002

1. Irwin JC, Chrzanowski J, Franck JP
Oxygen isotope effect on the vibrational modes of La_{1-x}CaxMnO₃
PHYS REV B 59: (14) 9362-9371 APR 1 1999

25. "Raman spectroscopy of YSr₂Cu₃O_{7+y}"

H. G. Lee, A. P. Litvinchuk, M. V. Abrashev, M. N. Iliev, S. H. Xu, and C. W. Chu
J. Phys. Chem. Solids 59 no. 10 - 12 (1998) 1994 - 1996.

5. Galstyan, E., Xue, Y., Iliev, M., Sun, Y., Chu, C.-W.
Origin of the superconductivity in the Y-Sr-Ru-O and Y-Sr-Cu-O systems
Physical Review B - Condensed Matter and Materials Physics 76 (1), art. no. 014501 (2007).

4. Su HB, Welch DO, Wong-Ng W
Strain effects on point defects and chain-oxygen order-disorder transition in 123 cuprate compounds
PHYSICAL REVIEW B 70 (5): Art. No. 054517 AUG 2004

3. Petrykin VV, Osada M, Kakihana M, et al.
Observation of the epitaxial satellite phase in the superconducting RuSr₂Eu_{1.5}Ce_{0.5}Cu₂O₁₀ ceramic samples
CHEM MATER 15 (23): 4417-4423 NOV 18 2003

2. Ying XN, Li BQ, Liu YH, et al.
T-c reduction in Sr-substituted Y(Ba_{1-x}Sr_x)(₂)Cu₃O_{7-delta} investigated by Cu-63, Cu-65 nuclear quadrupole resonance
PHYS REV B 66 (1): Art. No. 012506 JUL 1 2002

1. Ying XN, Li A, Huang YN, et al.
The effect of strain on the low-temperature internal friction of Y(Ba_{1-x}Sr_x)(₂)Cu₃O_{7-delta}
J PHYS-CONDENS MAT 13 (43): 9813-9819 OCT 29 2001

26. "Raman spectroscopy of SrRuO₃ near the paramagnetic-to-ferromagnetic phase transition"

M. N. Iliev, A. P. Litvinchuk, H.-G. Lee, C. L. Chen, M. L. Dezaneti, C. W. Chu, V. G. Ivanov, M. V. Abrashev, and V. N. Popov
Phys. Rev. B 59 (1999) 364 - 368.

58. Fermi surface and kink structures in Sr₄Ru₃O₁₀ revealed by synchrotron-based ARPES
Ngabonziza, P (Ngabonziza, Prosper) Carleschi, E (Carleschi, Emanuela) Zabolotnyy, V (Zabolotnyy, Volodymyr) Taleb-Ibrahimi, A (Taleb-Ibrahimi, Amina) Bertran, F (Bertran, Francois) Fittipaldi, R (Fittipaldi, Rosalba) Granata, V (Granata, Veronica) Cuoco, M (Cuoco, Mario) Vecchione, A (Vecchione, Antonio) Doyle, BP (Doyle, Bryan Patrick)
SCIENTIFIC REPORTS Volume10 Issue1 Article Number21062 PublishedDEC 3 2020

57. Strain healing of spin-orbit coupling: a cause for enhanced magnetic moment in epitaxial SrRuO₃ thin films
Tyagi, S (Tyagi, Shekhar) Sathe, VG (Sathe, V. G.) Sharma, G (Sharma, Gaurav) Phase, DM (Phase, D. M.) Reddy, VR (Reddy, V. R.)
JOURNAL OF PHYSICS-CONDENSED MATTER Volume32 Issue30 Article Number305501 PublishedJUL 15 2020

56. Spin-phonon coupling in epitaxial SrRuO₃ heterostructures
Jeong, SG (Jeong, Seung Gyo) Lim, SY (Lim, Soo Yeon) Kim, J (Kim, Jiwoong) Park, S (Park, Sungkyun) Cheong, H (Cheong, Hyeonsik) Choi, WS (Choi, Woo Seok)
NANOSCALE Volume12 Issue26 Page13926-13932 PublishedJUL 14 2020

55. Spin-phonon coupling and two-magnons scattering behaviors in hexagonal NiAs-type antiferromagnetic MnTe epitaxial films
Zhang, JY (Zhang, Jiyue) Lian, Q (Lian, Qin) Pan, ZQ (Pan, Zhiqiang) Bai, W (Bai, Wei) Yang, J (Yang, Jing) Zhang, YY (Zhang, Yuanyuan) Tang, XD (Tang, Xiaodong) Chu, JH (Chu, Junhao)
JOURNAL OF RAMAN SPECTROSCOPY Volume51 Issue8 Page1383-1389 PublishedAUG 2020

54. Strain modulated magnetocaloric effect in (111) oriented La_{0.7}Sr_{0.3}MnO₃-SrRuO₃ superlattices
Roshna, SH (Roshna, S. H.) Prellier, WP (Prellier, W.) Padhan, PP (Padhan, P.)
NANOSCALE Volume12 Issue8 Page5151-5158 PublishedFEB 28 2020

53. Cerium induced Raman spectra of $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Fe}_{1-x}\text{C}_x)\text{O}_{3-\delta}$ ($x=0-1$)
Chauhan, S (Chauhan, Santosh) Kar, M (Kar, M.) Kumar, J (Kumar, Jitendra) Jaiswal, SK (Jaiswal, Shivendra Kumar)
MATERIALS CHEMISTRY AND PHYSICS Volume 241 Article Number 122378 Published FEB 1 2020
52. Spin reorientation functionality in antiferromagnetic $\text{TmFe}_{1-x}\text{In}_x\text{O}_3$ polycrystalline samples
Sharma, P (Sharma, Poorva) Xu, YD (Xu, Yadong) Fan, HQ (Fan, Huiqing) Kumar, A (Kumar, Ashwini) Li, RB (Li, Rubin) Li, Q (Li, Qi) Ren, W (Ren, Wei) Cao, SX (Cao, Shixun)
JOURNAL OF ALLOYS AND COMPOUNDS Volume 789 Page 80-89 Published JUN 15 2019
51. Opacic, M.; Lazarevic, N.; Tanaskovic, D.; et al.
Small influence of magnetic ordering on lattice dynamics in $\text{TaFe}_{1.25}\text{Te}_3$
PHYSICAL REVIEW B Volume: 96 Issue: 17 Article Number: 174303 Published: NOV 16 2017
50. Wei, Tzu-Chiao; Wang, Hsin-Ping; Liu, Heng-Jui; et al.
Photostriction of strontium ruthenate
NATURE COMMUNICATIONS Volume: 8 Article Number: 15108 Published: APR 24 2017
49. Sarkar, Tanushree; Manna, Kaustuv; Elizabeth, Suja; et al.
Investigation of multiferroicity, spin-phonon coupling, and unusual magnetic ordering close to room temperature in $\text{LuMn}_{0.5}\text{Fe}_{0.5}\text{O}_3$
JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 8 Article Number: 084102 Published: FEB 28 2017
48. Xia, Weiren; Wu, Heng; Xing, Zhibiao; et al.
Structural and vibrational properties of $(\text{Bi}_{1-x}\text{La}_x)\text{FeO}_3$ and $(\text{Bi}_{1-y}\text{Ba}_y)(\text{Fe}_{1-y}\text{Tiy})\text{O}_{3-\delta}$ multiferroic ceramics investigated by Raman scattering
CERAMICS INTERNATIONAL Volume: 43 Supplement: 1 Pages: S43-S48 Published: 2017
47. Behera, B.C., Padhan, P., Prellier, W.
Effect of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ crystal structures on magnetization of (111) oriented $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3\text{-SrRuO}_3$ superlattices
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 28 Issue: 19 Article Number: 196004 DOI: 10.1088/0953-8984/28/19/196004 Published: MAY 18 2016
46. Yang, H.F., Liu, Z.T., Fan, C.C., Yao, Q., Xiang, P., Zhang, K.L., Li, M.Y., Li, H., Liu, J.S., Shen, D.W., Jiang, M.H.
Origin of the kink in the band dispersion of the ferromagnetic perovskite SrRuO_3 : Electron-phonon coupling
PHYSICAL REVIEW B Volume: 93 Issue: 12 Article Number: 121102 DOI: 10.1103/PhysRevB.93.121102 Published: MAR 4 2016
45. Behera, B. C.; Padhan, P.; Prellier, W.
Influence of substrate in all-ferromagnetic superlattices
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 388 Pages: 22-27 Published: AUG 15 2015
44. Shen, Xuan; Qiu, Xiangbiao; Su, Dong; et al.
Thickness-dependent metal-insulator transition in epitaxial SrRuO_3 ultrathin films
JOURNAL OF APPLIED PHYSICS Volume: 117 Issue: 1 Article Number: 015307 Published: JAN 7 2015
43. Lyapin, S. G.; Utyuzh, A. N.; Petrova, A. E.; et al.
Raman studies of nearly half-metallic ferromagnetic CoS_2
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 26 Issue: 39 Article Number: 396001 Published: OCT 1 2014
42. Tripathy, Satya Narayan; Mishra, Karuna Kara; Sen, Shrabane; et al.
Dielectric and Raman Spectroscopic Studies of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{-BaSnO}_3$ Ferroelectric System
JOURNAL OF THE AMERICAN CERAMIC SOCIETY 97 (6), pp. 1846-1854 JUN 2014
41. Tsai, C. Y.; Chen, H. R.; Chang, F. C.; et al.
Anisotropic strain, magnetic properties, and lattice dynamics in self-assembled multiferroic $\text{CoFe}_2\text{O}_4\text{-PbTiO}_3$ nanostructures
JOURNAL OF APPLIED PHYSICS 115 (13), Art. No. 134317 APR 7 2014
40. Behera, B. C.; Ravindra, A. V.; Padhan, P.; et al.
Raman spectra and magnetization of all-ferromagnetic superlattices grown on (110) oriented SrTiO_3
APPLIED PHYSICS LETTERS 104 (9), Art. No. 092406 MAR 3 2014
39. Miao, Naihua; Bristowe, Nicholas C.; Xu, Bin; et al.
First-principles study of the lattice dynamical properties of strontium ruthenate
JOURNAL OF PHYSICS-CONDENSED MATTER 26 (3), Art. No. 035401 JAN 22 2014
38. Lu, W., He, K., Song, W., Sun, C.-J., Chow, G.M., Chen, J.-S.
Effect of oxygen vacancies on the electronic structure and transport properties of SrRuO_3 thin films
Journal of Applied Physics 113 (17), art. no. 17E125, 2013
37. Pandey, P.K., Choudhary, R.J., Mishra, D.K., Sathe, V.G., Phase, D.M.
Signature of spin-phonon coupling in Sr_2CoO_4 thin film: A Raman spectroscopic study
Applied Physics Letters 102 (14), art. no. 142401, 2013
36. Li, T., Shen, J., Li, N., Ye, M.
One-pot self-catalyzed synthesis and properties of multiferroic BiFeO_3 single-phase crystallites by sucrose-assisted combustion
Journal of Alloys and Compounds 548, pp. 89-95, 2013

35. Tai, T., Nishide, M., Matsuoka, M., Kamo, T., Funakubo, H., Katoda, T., Shima, H., (...), Yamamoto, T.
Investigation of sputtering damage in SrRuO₃ films prepared by sputtering with raman and x-ray photoemission spectroscopies
Japanese Journal of Applied Physics 51 (9 PART 2), art. no. 09LA19, 2012
34. Koster, G., Klein, L., Siemons, W., Rijnders, G., Dodge, J.S., Eom, C.-B., Blank, D.H.A., Beasley, M.R.
Structure, physical properties, and applications of SrRuO₃ thin films
Reviews of Modern Physics 84 (1), pp. 253-298, 2012.
33. Mishra, K.K., Satya, A.T., Bharathi, A., Sivasubramanian, V., Murthy, V.R.K., Arora, A.K.
Vibrational, magnetic, and dielectric behavior of La-substituted BiFeO₃-PbTiO₃
Journal of Applied Physics 110 (12), art. no. 123529, 2011.
32. Ramachandran, B., Dixit, A., Naik, R., Lawes, G., Ramachandra Rao, M.S.
Dielectric relaxation near 25 K in multiferroic BiFeO₃ ceramics
Journal of Applied Physics 110 (10), art. no. 104105, 2011.
31. Chopelas, A.
Single-crystal Raman spectra of YAlO₃ and GdAlO₃: Comparison to several orthorhombic ABO₃ perovskites
Physics and Chemistry of Minerals 38 (9), pp. 709-726, 2011.
30. Mishra, K.K., Sivasubramanian, V., Sarguna, R.M., Ravindran, T.R., Arora, A.K.
Raman scattering from La-substituted BiFeO₃(3)-PbTiO₃(3)
JOURNAL OF SOLID STATE CHEMISTRY 184 (9) Pages: 2381-2386, SEP 2011.
29. Anooz, S.B., Schwarzkopf, J., Dirsy, R., Wagner, G., Fornari, R.
Effects of post-growth annealing on physical properties of SrRuO₃ thin film grown by MOCVD
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 207 (11) Pages: 2492-2498, NOV 2010.
28. Liu, Y.-F., Wang, B., Zheng, H.-W., Liu, X.-Y., Gu, Y.-Z., Zhang, W.-F.
Temperature-dependent raman spectrum of hexagonal YMnO₃ films synthesized by chemical solution method
Chinese Physics Letters 27 (5), art. no. 056801 (2010).
27. Jang, K.-J., Lim, J., Ahn, J., Kim, J.-H., Yee, K.-J., Ahn, J.S., Cheong, S.-W.
Ultrafast IR spectroscopic study of coherent phonons and dynamic spin-lattice coupling in multiferroic LuMnO₃
New Journal of Physics 12, art. no. 023017 (2010).
26. Rout, D., Moon, K.-S., Suk-Joong L Kang
Temperature-dependent Raman scattering studies of polycrystalline BiFeO₃ bulk ceramics
Journal of Raman Spectroscopy 40 (6), pp. 618-626 (2009).
25. Fukumura, H., Hasuike, N., Harima, H., Kisoda, K., Fukae, K., Yoshimura, T., Fujimura, N.
Spin-phonon coupling in multiferroic YbMnO₃ studied by Raman scattering
Journal of Physics Condensed Matter 21 (6), art. no. 064218 (2009).
24. Hsu, H.C., Chou, F.C., Koyama, K., Watanabe, K., Liu, H.L.
Spin-phonon coupling in antiferromagnetic Bi₂Sr₂CoO_{6+δ}: An infrared reflectance study
Physical Review B - Condensed Matter and Materials Physics 79 (15), art. no. 155109 (2009).
23. Singh, M.K., Dussan, S., Sharma, G.L., Katiyar, R.S.
Raman scattering measurements of phonon anharmonicity in CuAlO₂ thin films
Journal of Applied Physics 104 (11), art. no. 113503 (2008).
22. Crandles, D.A., Eftekhari, F., Faust, R., Rao, G.S., Reedyk, M., Razavi, F.S.
Kramers-Kronig-constrained variational dielectric fitting and the reflectance of a thin film on a substrate
Applied Optics 47 (23), pp. 4205-4211 (2008).
21. Crandles, D.A., Eftekhari, F., Faust, R., Rao, G.S., Reedyk, M., Razavi, F.S.
Infrared active phonons in SrRuO₃ and SrRu_xMg_{1-x}O₃ thin films
Journal of Physics D: Applied Physics 41 (13), art. no. 135007 (2008).
20. Herranz, G., Laukhin, V., Sánchez, F., Levy, P., Ferrater, C., García-Cuenca, M.V., Varela, M., Fontcuberta, J.
Effect of disorder on the temperature dependence of the resistivity of SrRuO₃
Physical Review B - Condensed Matter and Materials Physics 77 (16), art. no. 165114 (2008).
19. Mangalam, R.V.K., Pradhan, G.K., Narayana, C., Sundaresan, A.
Spin state transition in the ferromagnet Sr_{0.9}Ce_{0.1}CoO_{2.85}
Solid State Communications 146 (3-4), pp. 110-114 (2008).
18. Fukumura, H., Matsui, S., Harima, H., Kisoda, K., Takahashi, T., Yoshimura, T., Fujimura, N.
Raman scattering studies on multiferroic YMnO₃
Journal of Physics Condensed Matter 19 (36), art. no. 365239 (2007)
17. Popa, M., Crespo, D., Calderon-Moreno, J.M., Preda, S., Fruth, V.
Synthesis and structural characterization of single-phase BiFeO₃ powders from a polymeric precursor
Journal of the American Ceramic Society 90 (9), pp. 2723-2727 (2007)

16. Maiti, K., Singh, R.S., Medicherla, V.R.R.
Observation of particle hole asymmetry and phonon excitations in non-Fermi-liquid systems: A high-resolution photoemission study of ruthenates
Europhysics Letters 78 (1), art. no. 17002 (2007)
15. Lee, J.-H., Freeman, A.J.
Spin-induced variations of phonon frequencies in ferromagnetic metals
Journal of Magnetism and Magnetic Materials 310 (2 SUPPL. PART 2), pp. 1084-1086 (2007)
14. Haumont, R., Kreisel, J., Bouvier, P.
Raman scattering of the model multiferroic oxide BiFeO₃: Effect of temperature, pressure and stress
Phase Transitions 79 (12), pp. 1043-1064 (2006)
13. Łazewski, J., Piekarz, P., Oleś, A.M., Parlinski, K.
Influence of local electron interactions on phonon spectrum in iron
Physical Review B - Condensed Matter and Materials Physics 74 (17), art. no. 174304 (2006)
12. Kamal, S., Kim, D.M., Eom, C.B., Dodge, J.S.
Terahertz-frequency carrier dynamics and spectral weight redistribution in the nearly magnetic metal CaRuO₃
Physical Review B - Condensed Matter and Materials Physics 74 (16), art. no. 165115 (2006)
11. Lee, J.-H., Hsue, Y.-C., Freeman, A.J.
Magnetically induced variations in phonon frequencies
Physical Review B - Condensed Matter and Materials Physics 73 (17), art. no. 172405 (2006)
10. Haumont, R., Kreisel, J., Bouvier, P., Hippert, F.
Phonon anomalies and the ferroelectric phase transition in multiferroic BiFeO₃
Physical Review B - Condensed Matter and Materials Physics 73 (13), art. no. 132101, pp. 1-4 (2006)
9. Singh MK, Jang HM, Ryu S, et al.
Polarized Raman scattering of multiferroic BiFeO₃ epitaxial films with rhombohedral R3c symmetry
APPLIED PHYSICS LETTERS 88 (4): Art. No. 042907 JAN 23 2006
8. Herranz G, Sanchez F, Fontcuberta J, et al.
Domain structure of epitaxial SrRuO₃ thin films
PHYSICAL REVIEW B 71 (17): Art. No. 174411 MAY 2005
7. Rykov AI, Nomura K, Sawada T, et al.
Phonon density of states in Sr₂FeCoO_{6-δ} and BaSrFeCoO_{6-δ}: Effects induced by magnetic order and transport coherence
PHYS REV B 68 (22): Art. No. 224401 DEC 2003
6. Yu T, Shen ZX, Sun WX, et al.
Spin-phonon coupling in rod-shaped half-metallic CrO₂ ultrafine particles: a magnetic Raman scattering study
J PHYS-CONDENS MAT 15 (12): L213-L217 APR 2 2003
5. Rykov, AI (Rykov, AI); Nomura, K (Nomura, K); Mitsui, T (Mitsui, T); Seto, M (Seto, M)
Nuclear resonance inelastic scattering of synchrotron radiation in oxides with colossal magnetoresistance
MATERIAL RESEARCH IN ATOMIC SCALE BY MOSSBAUER SPECTROSCOPY Book Series: NATO SCIENCE SERIES, SERIES II: MATHEMATICS, PHYSICS AND CHEMISTRY Volume: 94 Pages: 239-250 Published: 2003
4. Lee YS, Yu JJ, Lee JS, et al.
Non-Fermi liquid behavior and scaling of the low-frequency suppression in the optical conductivity spectra of CaRuO₃
PHYS REV B 66 (4): Art. No. 041104 JUL 15 2002
3. Cooper SL
Optical spectroscopic studies of metal-insulator transitions in perovskite-related oxides
STRUCT BOND 98: 161-219 2001
2. Fainstein A, Etchegoin P, Troadahl HJ, et al.
Spin-order-dependent Raman scattering in RuSr₂GdCu₂O₈
PHYS REV B 61: (22) 15468-15473 JUN 1 2000
1. Granado E, Garcia A, Sanjurjo JA, et al.
Magnetic ordering effects in the Raman spectra of La_{1-x}Mn_{1-x}O₃
PHYS REV B 60: (17) 11879-11882 NOV 1 1999
27. *"Comparative study of optical phonons in the rhombohedrally distorted perovskites LaAlO₃ and LaMnO₃"*
M. V. Abrashev, A. P. Litvinchuk, M. N. Iliev, R. L. Meng, V. N. Popov, V. G. Ivanov, R. A. Chakalov, and C. Thomsen
Phys. Rev. B 59 (1999) 4146 - 4153.
235. Electrochemical and magnetic properties of perovskite type RMnO₃ (R = La, Nd, Sm, Eu) nanofibers
Hu, Q., Yue, B., Yang, F., (...), Wang, Y., Liu, J.

234. Raman spectroscopy of the Al-doping induced structural phase transition in LaCrO₃ perovskite
Silva, R.S., Cunha, F., Barrozo, P.
Solid State Communications 333,114346 (2021)
233. Tuning Jahn-Teller distortion and electron localization of LaMnO₃ epitaxial films via substrate temperature
Chen, X (Chen, Xin) Wang, BH (Wang, Baohua) Chen, Y (Chen, Yang) Wei, HM (Wei, Haoming) Cao, BQ (Cao, Bingqiang)
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume54 Issue23 Article Number235302 PublishedJUN 10 2021
232. Electronic interactions between graphene and cobaltite thin film La_{0.7}Sr_{0.3}CoO₃ and its magnetic consequences
Othmen, Z (Othmen, Zied) Othmen, R (Othmen, Riadh) Daoudi, K (Daoudi, Kais) Boudard, M (Boudard, Michel) Cavanna, A (Cavanna, Antonella) Madouri, A (Madouri, Ali) Gemeiner, P (Gemeiner, Pascale) Lupascu, DC (Lupascu, Doru C.) Oueslati, M (Oueslati, Meherzi) Dkhil, B (Dkhil, Brahim)
SURFACES AND INTERFACES Volume23 Article Number100919 PublishedAPR 2021
231. Nonlinear phononics
Cavalleri, A.
Proceedings of the International School of Physics "Enrico Fermi" 199, pp. 171-186 (2020)
230. Influence Of Transition Metal Doping On The Structural And Transport Properties Of LaCoO₃ Cobaltite
Tiwari, S (Tiwari, Shivendra) Saleem, M (Saleem, M.) Bajpai, N (Bajpai, N.) Soni, M (Soni, M.) Mishra, A (Mishra, A.)
AIP Conference Proceedings Volume2220 Article Number040011 Published2020
229. A Reliable Method for Determining the Oxidation State of Manganese at the Microscale in Mn Oxides via Raman Spectroscopy
Bernardini, S (Bernardini, Simone) Bellatreccia, F (Bellatreccia, Fabio) Della Ventura, G (Della Ventura, Giancarlo) Sodo, A (Sodo, Armida)
GEOSTANDARDS AND GEOANALYTICAL RESEARCH Volume45 Issue1 Page223-244 PublishedMAR 2021
228. Phase transition and multiferroic properties of Zr-doped BiFeO₃ thin films
Ma, ZB (Ma, Zhibiao) Liu, HY (Liu, Huiying) Wang, LX (Wang, Lingxu) Zhang, FQ (Zhang, Fengqing) Zhu, LY (Zhu, Luyi) Fan, SH (Fan, Suhua)
JOURNAL OF MATERIALS CHEMISTRY C Volume8 Issue48 Page17307-17317 PublishedDEC 28 2020
227. Ultrafast strain engineering and coherent structural dynamics from resonantly driven optical phonons in LaAlO₃
Hortensius, JR (Hortensius, J. R.) Afanasiev, D (Afanasiev, D.) Sasani, A (Sasani, A.) Bousquet, E (Bousquet, E.) Caviglia, AD (Caviglia, A. D.)
NPJ QUANTUM MATERIALS Volume5 Issue1 Article Number95 PublishedDEC 16 2020
226. Non-linear temperature dependent phononic response of epitaxial lanthanum nickelate thin film
Sunidhi (Sunidhi) Sharma, V (Sharma, Vishal) Arora, SK (Arora, Sunil K.) Sanchez, F (Sanchez, Florencio) Sathe, V (Sathe, Vasant)
SOLID STATE COMMUNICATIONS Volume321 Article Number114038 PublishedNOV 2020
225. Stability and amphotericity analysis in rhombohedral ABO₃ perovskites
Behara, S (Behara, Santosh) Thomas, T (Thomas, Tiju)
MATERIALIA Volume13 Article Number100819 PublishedSEP 2020
224. Structural and transport properties of La_{1-x}Sr_xCo_{1-y}Nb_yO₃ thin films
Shukla, R (Shukla, Rishabh) Kumar, A (Kumar, Ajay) Dalal, S (Dalal, Sandeep) Pandey, A (Pandey, Akhilesh) Dhaka, RS (Dhaka, R. S.)
THIN SOLID FILMS Volume709 Article Number138250 PublishedSEP 1 2020
223. Effect of doping on the local structure of new block-layered proton conductors based on BaLaInO₄
Tarasova, N (Tarasova, N.) Animitsa, I (Animitsa, I.) Galisheva, A (Galisheva, A.)
JOURNAL OF RAMAN SPECTROSCOPY Volume51 Issue11 Page2290-2297 PublishedNOV 2020
222. Physical investigations on LaMn(1-x)Ni(x)O(3) perovskite sprayed thin films along with surface magnetic applications
Gharbi, B (Gharbi, B.) Boukhachem, A (Boukhachem, A.) Amlouk, M (Amlouk, M.) Oueslati, M (Oueslati, M.) Dkhil, B (Dkhil, B.) Meftah, A (Meftah, A.)
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume126 Issue8 Article Number604 PublishedJUL 11 2020
221. Photoinduced Persistent Electron Accumulation and Depletion in LaAlO₃/SrTiO₃ Quantum Wells
Chen, Y (Chen, Yu) Lechaux, Y (Lechaux, Yoann) Casals, B (Casals, Blai) Guillet, B (Guillet, Bruno) Minj, A (Minj, Albert) Gazquez, J (Gazquez, Jaume) Mechin, L (Mechin, Laurence) Herranz, G (Herranz, Gervasi)
PHYSICAL REVIEW LETTERS Volume124 Issue24 Article Number246804 PublishedJUN 19 2020
220. Raman and photoluminescence spectral studies in double perovskite epitaxial Nd₂CoMnO₆ thin films deposited by pulse laser deposition
Anshul, A (Anshul, Avneesh) Kumar, M (Kumar, Manish) Raj, A (Raj, Abhishek)
OPTIK Volume212 Article Number164749 PublishedJUN 2020
219. Vibrational properties of LaNiO₃ films in the ultrathin regime
Schober, A (Schober, Alexander) Fowlie, J (Fowlie, Jennifer) Guennou, M (Guennou, Mael) Weber, MC (Weber, Mads C.) Zhao, HJ (Zhao, Hongjian) Iniguez, J (Iniguez, Jorge) Gibert, M (Gibert, Marta) Triscone, JM (Triscone, Jean-Marc) Kreisel, J (Kreisel, Jens)
APL MATERIALS Volume8 Issue6 Article Number061102 PublishedJUN 1 2020

218. Parameterization of dilute Ising model for iron-containing lanthanum gallate and aluminate solid solutions based on first-principles calculations
Evarestov, RA (Evarestov, Robert A.) Bandura, AV (Bandura, Andrei, V) Sapova, MD (Sapova, Mariia D.) Korolev, DA (Korolev, Dmitry A.) Chezhina, NV (Chezhina, Natalia, V)
SOLID STATE IONICS Volume348 Article Number115283 PublishedMAY 2020
217. Particle dispersion and lattice distortion induced magnetic behavior of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskite nanoparticles grown by salt-assisted solid-state synthesis
Ortiz-Quinonez, JL (Ortiz-Quinonez, Jose-Luis) Garcia-Gonzalez, L (Garcia-Gonzalez, Lorena) Cancino-Gordillo, FE (Enrique Cancino-Gordillo, Francisco) Pal, U (Pal, Umapada)
MATERIALS CHEMISTRY AND PHYSICS Volume246 Article Number122834 PublishedMAY 1 2020
216. PI-MOCVD technology of $(\text{La}, \text{Sr})(\text{Mn}, \text{Co})\text{O}_{3-x}$: From epitaxial to nanostructured films
Vagner, M (Vagner, Milita) Plausinaitiene, V (Plausinaitiene, Valentina) Lukose, R (Lukose, Rasuole) Kersulis, S (Kersulis, Skirmantas) Talaikis, M (Talaikis, Martynas) Knasiene, B (Knasiene, Birute) Stanionyte, S (Stanionyte, Sandra) Kubilius, V (Kubilius, Virgaudas) Motiejutis, K (Motiejutis, Karolis) Saltyte, Z (Saltyte, Zita)
SURFACE & COATINGS TECHNOLOGY Volume385 Article Number125287 PublishedMAR 15 2020
215. Lattice structure and microwave dielectric properties of $\text{La}[\text{Al}_{1-x}(\text{Mg}_{0.5}\text{Ti}_{0.5})_x]\text{O}_{3-x}$ ($x=0-0.2$)-based ceramics
Fan, J (Fan, Jun) Zhao, Q (Zhao, Qing) Du, K (Du, Kang) Wang, F (Wang, Fei) Wang, XH (Wang, Xiao-Hong) Lu, WZ (Lu, Wen-Zhong) Lei, W (Lei, Wen)
JOURNAL OF THE AMERICAN CERAMIC SOCIETY Volume103 Issue5 Page3231-3237 PublishedMAY 2020
214. Optical and magnetic properties of $\text{Gd}_{1-x}\text{Sr}_x\text{CrO}_3$ ($0 \leq x \leq 0.15$)
Sarkar, A (Sarkar, Ankita) Dalal, B (Dalal, Biswajit) De, SK (De, Subodh Kumar)
JOURNAL OF PHYSICS-CONDENSED MATTER Volume31 Issue50 Article Number505801 PublishedDEC 18 2019
213. Strain-dependent structure and Raman behaviours in the heavy-ion irradiated manganite at extreme low dose
Hoang, NN (Nam Nhat Hoang) Pham, DHY (Duc Huyen Yen Pham) Nguyen, TN (The Nghia Nguyen)
SCIENTIFIC REPORTS Volume9 Article Number19204 PublishedDEC 16 2019
212. Potential of Raman spectroscopy towards understanding structures of carbon-based materials and perovskites
Selvarajan, P (Selvarajan, Premkumar) Chandra, G (Chandra, Goutam) Bhattacharya, S (Bhattacharya, Susmita) Sil, S (Sil, Sanchita) Vinu, A (Vinu, Ajayan) Umapathy, S (Umapathy, Siva)
EMERGENT MATERIALS Volume2 Issue4 Page417-439 PublishedDEC 2019
211. Short wavelength emission properties of Tm^{3+} and $\text{Tm}^{3+} + \text{Yb}^{3+}$ doped LaAlO_3 nanocrystals and polymer composites
Jusza, A (Jusza, Anna) Lipinska, L (Lipinska, Ludwika) Baran, M (Baran, Magdalena) Polis, P (Polis, Pawel) Olszyna, A (Olszyna, Andrzej) Piramidowicz, R (Piramidowicz, Ryszard)
OPTICAL MATERIALS Volume97 Article Number109365 PublishedNOV 2019
210. Influence of Induced Electrical Polarization on the Magnetoresistance and Magnetoelectricity in the Spin-Disordered $\text{Tm}_x\text{Mn}_{1-x}\text{S}$ Solid Solution
Aplesnin, SS (Aplesnin, Sergey S.) Sitnikov, MN (Sitnikov, Maksim N.) Kharkov, AM (Kharkov, Anton M.) Masyugin, AN (Masyugin, Albert N.) Kretinin, VV (Kretinin, Vasilii V.) Fisenko, OB (Fisenko, Olga B.) Gorev, MV (Gorev, Mikhail V.)
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume256 Issue10 Article Number1900043 PublishedOCT 2019
209. Self-doped $\text{La}_{1-x}\text{MnO}_3+\delta$ perovskites: Electron state hybridization and Raman modes
Ulyanov, AN (Ulyanov, A. N.) Sidorov, AV (Sidorov, A., V) Pismenova, NE (Pismenova, N. E.) Goodilin, EA (Goodilin, E. A.) Savilov, SV (Savilov, S., V)
SOLID STATE SCIENCES Volume94 Page41-44 PublishedAUG 2019
208. Temperature sensitive properties of $\text{Eu}^{2+}/\text{Eu}^{3+}$ dual-emitting LaAlO_3 phosphors
Chen, BW (Chen, Bowen) Li, CX (Li, Chenxia) Deng, DG (Deng, Degang) Ruan, FP (Ruan, Fengping) Wu, M (Wu, Ming) Wang, L (Wang, Le) Zhu, YT (Zhu, Yanting) Xu, SQ (Xu, Shiqing)
JOURNAL OF ALLOYS AND COMPOUNDS Volume792 Page702-712 PublishedJUL 5 2019
207. Local Structure Modulation Induced Highly Efficient Far-Red Luminescence of $\text{La}_{1-x}\text{Lu}_x\text{AlO}_3:\text{Mn}^{4+}$ for Plant Cultivation
Chen, JQ (Chen, Jinquan) Yang, CH (Yang, Conghua) Chen, YB (Chen, Yibo) He, J (He, Jin) Liu, ZQ (Liu, Zhao-Qing) Wang, J (Wang, Jing) Zhang, JL (Zhang, Jilin)
INORGANIC CHEMISTRY Volume58 Issue13 Page8379-8387 PublishedJUL 1 2019
206. Microscopic Mechanisms of Local Interfacial Resistive Switching in $\text{LaMnO}_3+\delta$
Meunier, B (Meunier, Benjamin) Pla, D (Pla, Dolores) Rodriguez-Lamas, R (Rodriguez-Lamas, Raquel) Boudard, M (Boudard, Michel) Chaix-Pluchery, O (Chaix-Pluchery, Odette) Martinez, E (Martinez, Eugenie) Chevalier, N (Chevalier, Nicolas) Jimenez, C (Jimenez, Carmen) Burriel, M (Burriel, Monica) Renault, O (Renault, Olivier)
ACS APPLIED ELECTRONIC MATERIALS Volume1 Issue5 Page675-683 PublishedMAY 2019
205. Controlling the Electronic, Structural, and Optical Properties of Novel $\text{MgTiO}_3/\text{LaNiO}_3$ Nanostructured Films for Enhanced Optoelectronic Devices
Mazzo, TM (Mazzo, T. M.) Macario, LR (Macario, L. R.) Gorup, LF (Gorup, L. F.) Bouquet, V (Bouquet, V) Deputier, S (Deputier, S.) Ollivier, S (Ollivier, S.) Guilloux-Viry, M (Guilloux-Viry, M.) Albuquerque, AR (Albuquerque, A. R.) Sambrano, JR (Sambrano, J. R.) La Porta, FA (La Porta, F. A.)
ACS APPLIED NANO MATERIALS Volume2 Issue5 Page2612-2620 PublishedMAY 2019
204. Rare Earth Sm^{3+} Doped LaCoO_3 Cobaltite: Synthesis and Characterizations

- Tiwari, S (Tiwari, S.) Saleem, M (Saleem, M.) Mishra, A (Mishra, A.) Varshney, M (Varshney, M.) Varshney, D (Varshney, D.)
AIP Conference Proceedings Volume2100 Article Number020172 Published2019
203. Temperature Dependent Raman Spectroscopic Study of the Fe Doped $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ Prepared Using Ball Milling Method
Astik, N (Astik, Nidhi) Jha, PK (Jha, Prafulla K.) Sathe, V (Sathe, Vasant)
PHYSICS OF THE SOLID STATE Volume61 Issue4 Page618-626 PublishedAPR 2019
202. Monovalent doping effects on the structural, magnetic and magnetotransport properties of $\text{La}_{0.833}\text{R}_{0.167}\text{MnO}_3$ ($\text{R} = \text{Li}^+, \text{Na}^+, \text{Ag}^+, \text{K}^+$)
Joseph, S (Joseph, Smitha) Saban, KV (Saban, K., V)
CERAMICS INTERNATIONAL Volume45 Issue5 Page6425-6439PublishedAPR 1 2019
201. Accelerated Ionic Motion in Amorphous Memristor Oxides for Nonvolatile Memories and Neuromorphic Computing
Schmitt, R (Schmitt, Rafael) Kubicek, M (Kubicek, Markus) Sediva, E (Sediva, Eva) Trassin, M (Trassin, Morgan) Weber, MC (Weber, Mads C.) Rossi, A (Rossi, Antonella) Hutter, H (Hutter, Herbert) Kreisel, J (Kreisel, Jens) Fiebig, M (Fiebig, Manfred) Rupp, JLM (Rupp, Jennifer L. M.)
ADVANCED FUNCTIONAL MATERIALS Volume29 Issue5 Article Number1804782 PublishedFEB 1 2019
200. Infrared reflectivity analysis of Y^{3+} substituted LaMnO_3
Ahmad, J., Abbas, H., Bukhari, S.H., (...), Khan, J.A., Ali, S.A.
Journal of Ovonic Research 14(6), pp. 429-439 (2018)
199. Thin film nano-photocatalysts with low band gap energy for gas phase degradation of p-xylene: TiO_2 doped Cr, $\text{UO}_{66}\text{-NH}_2$ and LaBO_3 ($\text{B} = \text{Fe}, \text{Mn}, \text{and Co}$)
Luu, C.L., Van Nguyen, T.T., Nguyen, T., (...), Hoang, T.C., Ha, C.A.
Advances in Natural Sciences: Nanoscience and Nanotechnology 9(1),015003 (2018)
198. $\text{RE}^{3+}:\text{LaAlO}_3$ doped luminescent polymer composites
Piramidowicz, R (Piramidowicz, Ryszard) Jusza, A (Jusza, Anna) Lipinska, L (Lipinska, Ludwika) Gil, M (Gil, Malgorzata) Mergo, P (Mergo, Pawel)
OPTICAL MATERIALS Volume87 Page35-41 PublishedJAN 2019
197. $1.2 \mu\text{m}$ persistent luminescence of Ho^{3+} in LaAlO_3 and LaGaO_3 perovskites
Xu, J (Xu, Jian) Murata, D (Murata, Daisuke) So, B (So, Byoungjin) Asami, K (Asami, Kazuki) Ueda, J (Ueda, Junpei) Heo, J (Heo, Jong) Tanabe, S (Tanabe, Setsuhisa)
JOURNAL OF MATERIALS CHEMISTRY C Volume6 Issue42 Page11374-11383 PublishedNOV 14 2018
196. Synthesis and Characterization of the Aurivillius Phase $\text{CoBi}_2\text{O}_2\text{F}_4$
Vagourdi, EM (Vagourdi, Eleni Mitoudi) Mullner, S (Muellner, Silvia) Lemmens, P (Lemmens, Peter) Kremer, RK (Kremer, Reinhard K.) Johnsson, M (Johnsson, Mats)
INORGANIC CHEMISTRY Volume57 Issue15 Page9115-9121 PublishedAUG 6 2018
195. Synthesis and optical properties of $\text{La}_{1-x}\text{Ce}_x\text{MnO}_3$ studied by infrared reflectivity measurements
Ahmad, J (Ahmad, Javed) Ahmad, U (Ahmad, Uzaira) Bukhari, SH (Bukhari, Syed Hamad)
CHINESE JOURNAL OF PHYSICS Volume56 Issue4 Page1439-1448 PublishedAUG 2018
194. An insight into the effects of transition metals on the thermal expansion of complex perovskite compounds: an experimental and density functional theory investigation
Wang, X (Wang, Xiao) Han, Y (Han, Ye) Song, XJ (Song, Xiaojie) Liu, WH (Liu, Weihui) Jin, YX (Jin, Yinxi) Liu, WT (Liu, Wentao) Cui, HZ (Cui, Hongzhi)
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume20 Issue26 Page17781-17789 PublishedJUL 14 2018
193. An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes
Chen, Y (Chen, Yu) Yoo, S (Yoo, Seonyoung) Li, XX (Li, Xiaxi) Ding, D (Ding, Dong) Pei, K (Pei, Kai) Chen, DC (Chen, Dongchang) Ding, Y (Ding, Yong) Zhao, BT (Zhao, Bote) Murphy, R (Murphy, Ryan) Deglee, B (Deglee, Ben)
NANO ENERGY Volume47 Page474-480 PublishedMAY 2018
192. Correlated oxygen displacements and phonon mode changes in LaCoO_3 single crystal
Sikolenko, VV (Sikolenko, V. V.) Molodtsov, SL (Molodtsov, S. L.) Izquierdo, M (Izquierdo, M.) Troyanchuk, IO (Troyanchuk, I. O.) Karpinsky, D (Karpinsky, D.) Tiutiunnikov, SI (Tiutiunnikov, S. I.) Efimova, E (Efimova, E.) Prabhakaran, D (Prabhakaran, D.) Novoselov, D (Novoselov, D.) Efimov, V (Efimov, V.)
PHYSICA B-CONDENSED MATTER Volume536 Page597-599 PublishedMAY 1 2018
191. Defect and Optical Properties of Sb doped and hydrogenated BaSnO_3
Sarkar, A (Sarkar, Ankita) De, SK (De, S. K.)
SEMICONDUCTOR SCIENCE AND TECHNOLOGY Volume33 Issue3 Article Number035018 PublishedMAR 2018
190. Evolution of bulk and surface structures in stoichiometric LaAlO_3 mixed oxide prepared by using starch as template
Stathopoulos, VN (Stathopoulos, Vassilis N.) Kuznetsova, T (Kuznetsova, Tatyana) Lapina, O (Lapina, Olga) Khabibulin, D (Khabibulin, Dzhalil) Pandis, PK (Pandis, Pavlos K.) Krieger, T (Krieger, Tamara) Chesalov, Y (Chesalov, Yuri) Gulyalev, R (Gulyalev, Roman) Krivensov, V (Krivensov, Vladimir) Larina, T (Larina, Tatyana)
MATERIALS CHEMISTRY AND PHYSICS Volume207 Page423-434 PublishedMAR 1 2018
189. Anomalous magnetic and spin glass behavior in Nb-substituted $\text{LaCo}_{1-x}\text{Nb}_x\text{O}_3$
Shukla, R (Shukla, Rishabh) Dhaka, RS (Dhaka, R. S.)

188. Enhanced degradation of organic pollutants over Cu-doped LaAlO₃ perovskite through heterogeneous Fenton-like reactions
Wang, HH (Wang, Huihui) Zhang, LL (Zhang, Lili) Hu, C (Hu, Chun) Wang, XK (Wang, Xiangke) Lyu, L (Lyu, Lai) Sheng, GD (Sheng, Guodong)
CHEMICAL ENGINEERING JOURNAL Volume332 Page572-581 PublishedJAN 15 2018
187. Structural, thermal, and transport properties of La_{0.67}Sr_{0.33}MnO₃ nanoparticles synthesized via the sol-gel auto-combustion technique
Saleem, M (Saleem, M.) Varshney, D (Varshney, Dinesh)
RSC ADVANCES Volume8 Issue3 Page1600-1609 Published2018
186. Wang, Huihui; Zhang, Lili; Hu, Chun; et al.
Enhanced degradation of organic pollutants over Cu-doped LaAlO₃ perovskite through heterogeneous Fenton-like reactions
CHEMICAL ENGINEERING JOURNAL Volume: 332 Pages: 572-581 Published: JAN 15 2018
185. Daoudi, Kais; Alawadhi, Hussain; El Helali, Saoussen; et al.
Effects of Mn₃O₄ precipitates on the vibrational properties of epitaxial Ca-doped LaMnO₃ films
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 50 Issue: 39 Article Number: 395305 Published: OCT 4 2017
184. Rodrigues, J. E.; Bezerra, D. M.; Costa, R. C.; et al.
Raman signatures of monoclinic distortion in (Ba_{1-x}Sr_x)(₃)CaNb₂O₉ complex perovskites
JOURNAL OF RAMAN SPECTROSCOPY Volume: 48 Issue: 9 Pages: 1243-1249 Published: SEP 2017
183. Antunes, Isabel; Amador, Ulises; Alves, Adriana; et al.
Structure and Electrical -Transport Relations in Ba(Zr,Pr)O₃-delta Perovskites
INORGANIC CHEMISTRY Volume: 56 Issue: 15 Pages: 9120-9131 Published: AUG 7 2017
182. Kubicek, Markus; Bork, Alexander H.; Rupp, Jennifer L. M.
Perovskite oxides - a review on a versatile material class for solar-to-fuel conversion processes
JOURNAL OF MATERIALS CHEMISTRY A Volume: 5 Issue: 24 Pages: 11983-12000 Published: JUN 28 2017
181. Ebeoglugil, M. Faruk
Production and characterization of LaMnO₃ thin films prepared by Sol-Gel technique
REVISTA DE METALURGIA Volume: 53 Issue: 2 Article Number: e091 Published: APR-JUN 2017
180. Aman, Amjad; Jordan, Ryan; Chen, Yan; et al.
Non-congruence of high-temperature mechanical and structural behaviors of LaCoO₃ based perovskites
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 37 Issue: 4 Pages: 1563-1576 Published: APR 2017
179. Cannuccia, Elena; Vinh Ta Phuoc; Briere, Benjamin; et al.
Combined First-Principles Calculations and Experimental Study of the Phonon Modes in the Multiferroic Compound GeV₄S₈
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 121 Issue: 6 Pages: 3522-3529 Published: FEB 16 2017
178. Liu, Y.; Crespillo, M. L.; Huang, Q.; et al.
Lattice damage assessment and optical waveguide properties in LaAlO₃ single crystal irradiated with swift Si ions
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 50 Issue: 5 Article Number: 055303 Published: FEB 8 2017
177. Singh, D.; Kaur, J.; Suryanarayana, N. S.; et al.
Synthesis and luminescent behavior of UV induced Dy³⁺ activated LaAlO₃
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 3 Pages: 2462-2470 Published: FEB 2017
176. Liu, Y.; Huang, Q.; Crespillo, M. L.; et al.
Ion beam damage assessment and waveguide formation induced by energetic Si-ion irradiation in lanthanum aluminate crystal
OPTICAL MATERIALS Volume: 64 Pages: 391-400 Published: FEB 2017
175. Behrendt, Mirosław; Mahlik, Sebastian; Grinberg, Marek; et al.
Influence of charge transfer state on Eu³⁺ luminescence in LaAlO₃, by high pressure spectroscopy
OPTICAL MATERIALS Volume: 63 Special Issue: SI Pages: 158-166 Published: JAN 2017
174. Rodrigues, J. E. F. S.; Castro, P. J.; Pizani, P. S.; et al.
Structural ordering and dielectric properties of Ba₃CaNb₂O₉-based microwave ceramics
CERAMICS INTERNATIONAL Volume: 42 Issue: 16 Pages: 18087-18093 Published: DEC 2016
173. Saha, S., Cao, B.-C., Motapothula, M., Cong, C.-X., Sarkar, T., Srivastava, A., Sarkar, S., Patra, A., Ghosh, S., Ariando, Coey, J.M.D., Yu, T., Venkatesan, T.
Magnetic Modes in Rare Earth Perovskites: A Magnetic-Field-Dependent Inelastic Light Scattering study
Scientific Reports 6, 36859 DOI: 10.1038/srep36859 (2016)
172. Araki, W (Araki, Wakako); Takeda, K (Takeda, Kazutaka); Arai, Y (Arai, Yoshio)
Mechanical behaviour of ferroelastic lanthanum metal oxides LaMO₃ (M = Co, Al, Ga, Fe)
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 36 Issue: 16 Pages: 4089-4094 DOI: 10.1016/j.jeurceramsoc.2016.07.006 Published: DEC 2016
171. Nicoletti, D., Cavalleri, A.
Nonlinear light-matter interaction at terahertz frequencies

- ADVANCES IN OPTICS AND PHOTONICS Volume: 8 Issue: 3 Pages: 401-464 DOI: 10.1364/AOP.8.000401 Published: SEP 30 2016
170. Nunley, T.N., Willett-Gies, T.I., Cooke, J.A., Manciu, F.S., Marsik, P., Bernhard, C., Zollner, S.
Optical constants, band gap, and infrared-active phonons of (LaAlO₃)(0.3)(Sr₂AlTaO₆)(0.35) (LSAT) from spectroscopic ellipsometry
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 34 Issue: 5 Article Number: 051507 DOI: 10.1116/1.4960356
Published: SEP 2016
169. Saha, S., Chanda, S., Dutta, A., Sinha, T.P.
Dielectric relaxation of PrFeO₃ nanoparticles
SOLID STATE SCIENCES Volume: 58 Pages: 55-63 DOI: 10.1016/j.solidstatesciences.2016.05.013 Published: AUG 2016
168. Othmen, Z., Copie, O., Daoudi, K., Boudard, M., Gemeiner, P., Oueslati, M., Dkhil, B.
Spin transitions in La_{0.7}Ba_{0.3}CoO₃ thin films revealed by combining Raman spectroscopy and X-ray diffraction
JOURNAL OF APPLIED PHYSICS Volume: 120 Issue: 1 Article Number: 015308 DOI: 10.1063/1.4955220 Published: JUL 7 2016
167. Paul, B., Chatterjee, S., Gop, S., Roy, A., Grover, V., Shukla, R., Tyagi, A.K.
Evolution of lattice dynamics in ferroelectric hexagonal REInO₃ (RE = Ho, Dy, Tb, Gd, Eu, Sm) perovskites
MATERIALS RESEARCH EXPRESS Volume: 3 Issue: 7 Article Number: UNSP 075703 DOI: 10.1088/2053-1591/3/7/075703
Published: JUL 2016
166. Mankowsky, R., Först, M., Cavalleri, A.
Non-equilibrium control of complex solids by nonlinear phononics
REPORTS ON PROGRESS IN PHYSICS Volume: 79 Issue: 6 Article Number: 064503 DOI: 10.1088/0034-4885/79/6/064503 Published: JUN 2016
165. Bhat, I (Bhat, Irshad); Husain, S (Husain, Shahid); War, TA (War, Tariq Ahmad)
Magnetic and Raman spectroscopic study of laser ablated 100 (nm) thin film of La_{0.85}TeO₃ deposited on LaAlO₃
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 667 Pages: 225-228 DOI: 10.1016/j.jallcom.2016.01.149 Published: MAY 15 2016
164. Hu, W., Catalano, S., Gibert, M., Triscone, J.-M., Cavalleri, A.
Broadband terahertz spectroscopy of the insulator-metal transition driven by coherent lattice deformation at the SmNiO₃/LaAlO₃ interface
PHYSICAL REVIEW B Volume: 93 Issue: 16 Article Number: 161107 DOI: 10.1103/PhysRevB.93.161107 Published: APR 12 2016
163. Fredrickson, K.D., Lin, C., Zollner, S., Demkov, A.A.
Theoretical study of negative optical mode splitting in LaAlO₃
PHYSICAL REVIEW B Volume: 93 Issue: 13 Article Number: 134301 DOI: 10.1103/PhysRevB.93.134301 Published: APR 1 2016
162. Das, P.T., Singh, R., Das, A., Nath, T.K.
Structural, magnetic, and physical properties of La(1-x)MnO₃ +/-delta nano-manganite
PHILOSOPHICAL MAGAZINE Volume: 96 Issue: 3 Pages: 286-300 DOI: 10.1080/14786435.2015.1131344 Published: JAN 22 2016
161. Varshney, D., Choudhary, D., Varshney, M., Singh, N.
Thermal conductivity of ferromagnetic metallic La_{0.95}Ag_{0.05}MnO₃ manganites: role of carrier, spin waves and lattice-impurity scattering
MOLECULAR SIMULATION Volume: 42 Issue: 2 Pages: 110-121 DOI: 10.1080/08927022.2015.1012643 Published: JAN 22 2016
160. Tepech-Carrillo, L., Escobedo-Morales, A., Pérez-Centeno, A., Chigo-Anota, E., Sánchez-Ramírez, J.F., López-Apreza, E., Gutiérrez-Gutiérrez, J.
Preparation of Nanosized LaCoO₃ through Calcination of a Hydrothermally Synthesized Precursor
JOURNAL OF NANOMATERIALS Article Number: 6917950 DOI: 10.1155/2016/6917950 Published: 2016
159. Sakhya, A.P., Dutta, A., Sinha, T.P.
Dielectric Relaxation, Modulus Behaviour and Conduction Mechanism in NdAlO₃ Ceramics
JOURNAL OF ELECTRONIC MATERIALS Volume: 44 Issue: 10 Pages: 3801-3810 DOI: 10.1007/s11664-015-3820-7 Published: OCT 2015
158. Shelke, A.R., Deshpande, N.G.
Influence of the Calcination Temperature on the Combustion Synthesized Perovskite LaMnO₃ Compound
JOURNAL OF NANO- AND ELECTRONIC PHYSICS Volume: 7 Issue: 3 Article Number: 03009 Published: 2015
157. Abdel-Latif, I. A.; Ismail, Adel A.; Bouzid, Houcine; et al.
Synthesis of novel perovskite crystal structure phase of strontium doped rare earth manganites using sol gel method
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 393 Pages: 233-238 Published: NOV 1 2015
156. Xu, Peng; Huffman, T. J.; Branagan, N. C.; et al.
Novel aspects of charge and lattice dynamics in the hole-doped manganite La_{0.67}Sr_{0.33}MnO₃
PHILOSOPHICAL MAGAZINE Volume: 95 Issue: 19 Pages: 2078-2091 Published: JUL 3 2015
155. Euler, C.; Holuj, P.; Talkenberger, A.; et al.
Magnetic field dependent thermal conductance in La_{0.67}Ca_{0.33}MnO₃
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 381 Pages: 188-193 Published: MAY 1 2015
154. Islam, Mohammad A.; Xie, Yujun; Scafetta, Mark D.; et al.
Raman scattering in La_{1-x}Sr_xFeO_{3-delta} thin films: annealing-induced reduction and phase transformation
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 27 Issue: 15 Article Number: 155401 Published: APR 22 2015

153. Arenas, D. J.; Middleton, Carl; Kemper, A. F.
First-principles study of the phonon modes in bismuth sillenites
PHYSICAL REVIEW B Volume: 91 Issue: 14 Article Number: 144103 Published: APR 9 2015
152. Bachar, N.; Bechor, Y.; Gorshunov, B.; et al.
Observation of a Bulk Nodal-Gap in Overdoped $\text{Y}_{0.9}\text{Ca}_{0.1}\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films
JOURNAL OF LOW TEMPERATURE PHYSICS Volume: 179 Issue: 1-2 Pages: 108-112 Published: APR 2015
151. Varshney, Dinesh; Choudhary, Dinesh; Khan, Elias
Electrical transport in the ferromagnetic state of silver substituted manganites $\text{La}_{1-x}\text{Ag}_x\text{MnO}_3$ ($x=0.05$ and 0.1)
JOURNAL OF MATERIALS RESEARCH Volume: 30 Issue: 5 Pages: 654-665 Published: MAR 14 2015
150. Foerst, M.; Mankowsky, R.; Cavalleri, A.
Mode-Selective Control of the Crystal Lattice
ACCOUNTS OF CHEMICAL RESEARCH Volume: 48 Issue: 2 Pages: 380-387 Published: FEB 2015
149. Doig, K. I.; Peters, J. J. P.; Nawaz, S.; et al.
Structural, optical and vibrational properties of self-assembled $\text{Pbn}+1(\text{Ti}_{1-x}\text{Fe}_x)(\text{n})\text{O}_{3\text{n}+1-\delta}$ Ruddlesden-Popper superstructures
SCIENTIFIC REPORTS Volume: 5 Article Number: 7719 Published: JAN 16 2015
148. Sun, Wei; Li, Jing-Feng; Zhu, Fangyuan; et al.
Thickness-dependent phase boundary in Sm-doped BiFeO_3 piezoelectric thin films on $\text{Pt}/\text{Ti}/\text{SiO}_2/\text{Si}$ substrates
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 17 Issue: 30 Pages: 19759-19765 Published: 2015
147. Sun, Wei; Li, Jing-Feng; Yu, Qi; et al.
Phase transition and piezoelectricity of sol-gel-processed Sm-doped BiFeO_3 thin films on $\text{Pt}(111)/\text{Ti}/\text{SiO}_2/\text{Si}$ substrates
JOURNAL OF MATERIALS CHEMISTRY C Volume: 3 Issue: 9 Pages: 2115-2122 Published: 2015
146. Medina, J.Z., Martínez, G.T., Esparza, B.E., Hernández, A.M., Saldaña, J.M.
Processing and microstructural characterization of sintered lanthanum aluminate obtained by two different routes
Ceramic Transactions 249, 105-113 (2014)
145. Sultan, K., Habib, Z., Jan, A., Ahmad Mir, S., Ikram, M., Asokan, K.
Temperature dependent Raman spectroscopy of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x = 0.0$, and 0.3)
Advanced Materials Letters 5(1), 9-13 DOI: 10.5185/amlett.2013.6496 (2014)
144. Willett-Gies, Travis; DeLong, Eric; Zollner, Stefan
Vibrational properties of bulk LaAlO_3 from Fourier-transform infrared ellipsometry
THIN SOLID FILMS Volume: 571 Pages: 620-624 Part: 3 Published: NOV 28 2014
143. Qiao, Mei; Wang, Tie-Jun; Yu, Xiao-Fei; et al.
Comparison of waveguide properties and Raman spectroscopic visualization of C and O ion implantation on LaAlO_3 crystals
APPLIED OPTICS Volume: 53 Issue: 32 Pages: 7619-7623 Published: NOV 10 2014
142. Wang, Q.; Duan, P.; Wang, J. Y.; et al.
Effects of different sintering temperatures on microstructural, transport, and magnetic properties of $\text{La}_{0.93}\text{Sb}_{0.07}\text{MnO}_3$ compound
INTERNATIONAL JOURNAL OF MODERN PHYSICS B 28 (24), Art. No. 1450166 SEP 30 2014
141. Marcondes, S. P.; Figueiredo Soares Rodrigues, Joao Elias; Andreetab, M. Rubens Barsi; et al.
Resonance Raman spectroscopy of NdAlO_3 single-crystal fibers grown by the laser-heated pedestal growth technique
VIBRATIONAL SPECTROSCOPY 73, 144-149 JUL 2014
140. Othmen, Z.; Schulman, A.; Daoudi, K.; et al.
Structural, electrical and magnetic properties of epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{CoO}_3$ thin films grown on SrTiO_3 and LaAlO_3 substrates
APPLIED SURFACE SCIENCE 306, pp. 60-65 JUL 1 2014
139. Elkhouni, T.; Amami, M.; Colin, C. V.; et al.
The structure, Raman spectroscopy and evidence of ferromagnetic transition in $\text{CuCr}_{1-x}\text{MxO}_2$ ($\text{M}=\text{Mn}$ and Rh) compounds
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 355, pp. 158-163 APR 2014
138. Lloyd-Hughes, J.; Jones, S. P. P.; Castro-Camus, E.; et al.
Modifying the polarization state of terahertz radiation using anisotropic twin-domains in LaAlO_3
OPTICS LETTERS 39 (5), pp. 1121-1124 MAR 1 2014
137. Lemanski, K.; Deren, P. J.
Luminescent properties of LaAlO_3 nanocrystals, doped with Pr^{3+} and Yb^{3+} ions
JOURNAL OF LUMINESCENCE 146, 239-242 FEB 2014
136. Bachar, N.; Farber, E.; Zhukova, E.; et al.
Direct evidence of a bulk nodal gap in the overdoped regime of $\text{Y}_{0.9}\text{Ca}_{0.1}\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films from THz spectroscopy
EPL 104 (6), Art. No. 67006 DEC 2013
135. Fu, Jianhui; Zhao, Jianxiong; Sa, Tongliang; et al.
Photoluminescent and dielectric properties of Eu^{3+} -doped LaAlO_3 thin films fabricated by chemical solution deposition method
APPLIED SURFACE SCIENCE 286, pp. 1-6 DEC 1 2013

134. Di Castro, D.; Caramazza, S.; Innocenti, D.; et al.
Raman spectroscopy study of the interface structure in (CaCuO₂)_n/(SrTiO₃)_m superlattices
APPLIED PHYSICS LETTERS 103 (19), Art. No. 191903 NOV 4 2013
133. Först, M., Mankowsky, R., Bromberger, H., Fritz, D.M., Lemke, H., Zhu, D., Chollet, M., (...), Cavalleri, A.
Displacive lattice excitation through nonlinear phononics viewed by femtosecond X-ray diffraction
Solid State Communications 169, pp. 24-27, 2013
132. Duan, P., Duan, W.J., Wang, J.Y., Wang, Q., Chang, L., Kong, L.
Study on extraordinary transport behaviors of polycrystalline La-Sb-Mn-O ceramic
Advanced Materials Research 746, pp. 234-239, 2013
131. Varshney, D., Choudhary, D., Khan, E.
Electrical transport in the ferromagnetic and paramagnetic state of potassium-substituted manganites La_{1-x}K_xMnO₃ (x = 0.05, 0.1 and 0.15)
Journal of Materials Science 48 (17), pp. 5904-5916, 2013
130. Huang, F., Zhou, Q., Ma, C., Li, L., Huang, X., Li, F., Cui, Q., (...), Zou, G.
High pressure Raman scattering and X-ray diffraction studies of MgNb₂O₆
RSC Advances 3 (32), pp. 13210-13213, 2013
129. Islam, M.A., Rondinelli, J.M., Spanier, J.E.
Normal mode determination of perovskite crystal structures with octahedral rotations: Theory and applications
Journal of Physics Condensed Matter 25 (17), art. no. 175902, 2013
128. Khanduri, H., Chandra Dimri, M., Vasala, S., Leinberg, S., Löhmus, R., Ashworth, T.V., Mere, A., (...), Stern, R.
Magnetic and structural studies of LaMnO₃ thin films prepared by atomic layer deposition
Journal of Physics D: Applied Physics 46 (17), art. no. 175003, 2013
127. Majumdar, S., Huhtinen, H., Paturi, P., Palai, R.
The effect of oxygen on the Jahn-Teller distortion and magnetization dynamics of Pr_{0.9}Ca_{0.1}MnO₃ thin films
Journal of Physics Condensed Matter 25 (6), art. no. 066005, 2013
126. Stanislavchuk, T. N.; Sirenko, A. A.; Litvinchuk, A. P.; et al.
Electronic band structure and optical phonons of BaSnO₃ and Ba_{0.97}La_{0.03}SnO₃ single crystals: Theory and experiment
JOURNAL OF APPLIED PHYSICS 112 (4), 044108, AUG 15 2012
125. Maczka, M., Bednarkiewicz, A., Mendoza-Mendoza, E., Fuentes, A.F., Kepiński, L.
Optical properties of Eu and Er doped LaAlO₃ nanopowders prepared by low-temperature method
Journal of Solid State Chemistry 194, pp. 264-269, 2012
124. Kuznetsova T. G.; Sadykov V. A.; Lunin V. V.
Nanocomposite Structure and Reactivity of Perovskites Based on Lanthanum Manganites
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A 86 (4), 606-620, APR 2012.
123. McZka, M., Mendoza-Mendoza, E., Fuentes, A.F., Lemański, K., Dereń, P.
Low-temperature synthesis, luminescence and phonon properties of Er and/or Dy doped LaAlO₃ nanopowders
Journal of Solid State Chemistry 187, pp. 249-257, 2012.
122. Lepetit, M.-B., Mercey, B., Simon, C.
Interface effects in perovskite thin films
Physical Review Letters 108 (8), art. no. 087202, 2012.
121. Weber, M.C., Kreisel, J., Thomas, P.A., Newton, M., Sardar, K., Walton, R.I.
Phonon Raman scattering of RCrO₃ perovskites (R=Y, La, Pr, Sm, Gd, Dy, Ho, Yb, Lu)
Physical Review B - Condensed Matter and Materials Physics 85 (5), art. no. 054303, 2012.
120. Kintaka, Y., Kuretake, S., Hayashi, T., Tanaka, N., Ando, A., Takagi, H.
Crystal structures and optical properties of transparent ceramics based on LaAlO₃-Sr(Al,Ta)O₃ solid solution
Journal of the American Ceramic Society 94 (12), 4399-4403, 2011.
119. Först, M., Manzoni, C., Kaiser, S., Tomioka, Y., Tokura, Y., Merlin, R., Cavalleri, A.
Nonlinear phononics as an ultrafast route to lattice control
Nature Physics 7 (11), 854-856, 2011.
118. Simon, E., Borodavka, F., Gregora, I., Nuzhnyy, D., Kamba, S., Hlinka, J., Bartasyte, A., Margueron, S.
Ferroelectric domains in epitaxial PbTiO₃ films on LaAlO₃ substrate
Journal of Applied Physics 110 (8), art. no. 084115, 2011.
117. Gou, G., Grinberg, I., Rappe, A.M., Rondinelli, J.M.
Lattice normal modes and electronic properties of the correlated metal LaNiO₃
Physical Review B - Condensed Matter and Materials Physics 84 (14), art. no. 144101, 2011.
116. Rubinger, C.P.L., Moreira, R.L., Ribeiro, G.M., Matinaga, F.M., Autier Laurent, S., Mercey, B., Lobo, R.P.S.M.
Intrinsic and extrinsic dielectric responses of CaCu₃Ti₄O₁₂ thin films

Journal of Applied Physics 110 (7) , art. no. 074102, 2011.

115. Jia, B.W., Liu, X.Q., Chen, X.M.

Structure, magnetic and dielectric properties in Mn-substituted $\text{Sm}_{1.5}\text{Sr}_{0.5}\text{NiO}_4$ ceramics
Journal of Applied Physics 110 (6), art. no. 064110, 2011.

114. Mishra, D.K., Ahlawat, A., Sathe, V.G.

Influence of oxygen content in oriented $\text{LaCoO}_{3-\delta}$ thin films: Probed by X-ray diffraction and Raman spectroscopy
AIP Conference Proceedings 1349 (PART A), pp. 637-638, 2011.

113. Dhak, P., Pramanik, P., Bhattacharya, S., Roy, A., Achary, S.N., Tyagi, A.K.

Structural phase transition in lanthanum gallate as studied by Raman and X-ray diffraction measurements
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 248 (8) Pages: 1884-1893, AUG 2011.

112. Golosova, N.O., Kozlenko, D.P., Kolesnikov, A.I., Kazimirov, V.Yu., Smirnov, M.B., Jiráček, Z., Savenko, B.N.
Evolution of the phonon density of states of LaCoO_3 over the spin state transition
PHYSICAL REVIEW B 83 (21) Article Number: 214305, JUN 30 2011.

111. Ma T. P.

Inelastic electron tunneling spectroscopy (IETS) study of high-k gate dielectrics
SCIENCE CHINA-INFORMATION SCIENCES 54 (5) Pages: 980-989, MAY 2011.

110. Bachar, N., Zhukova, E., Gorshunov, B., Farber, E., Roth, M.

Anomaly in the Complex Conductivity of Overdoped $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films from THz Spectroscopy
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM 24 (3) Pages: 1225-1228, APR 2011.

109. Deren P. J.; Lemanski K.

On tuning the spectroscopic properties of $\text{LaAlO}_3:\text{Pr}^{3+}$ nanocrystallites
JOURNAL OF LUMINESCENCE 131 (3) Pages: 445-448, MAR 2011.

108. Mir Feroz Ahmad; Ikram M.; Kumar Ravi

Temperature-dependent Raman study of PrFeO_3 thin film
JOURNAL OF RAMAN SPECTROSCOPY 42 (2) Pages: 201-208, FEB 2011.

107. Nomura, K.-I., Okami, S., Xie, X., Mizuno, M., Fukunaga, K., Ohki, Y.

Effect of Annealing on Optical Absorption of LaAlO_3 at Terahertz Frequencies
JAPANESE JOURNAL OF APPLIED PHYSICS 50 (2) Article Number: UNSP 021502, FEB 2011.

106. Chaix-Pluchery O.; Kreisel J.

Raman scattering of perovskite SmScO_3 and NdScO_3 single crystals
PHASE TRANSITIONS 84 (5-6) Pages: 542-554, 2011.

105. Gohil, S., Iyer, K.K., Aswathi, P., Ghosh, S., Sampathkumaran, E.V.

Raman study of $\text{Ca}_3\text{Co}_2\text{O}_6$ single crystals
JOURNAL OF APPLIED PHYSICS 108 (10) Article Number: 103517, NOV 15 2010.

104. Deren P. J.; Lemanski K.; Gagor A.; et al.

Symmetry of LaAlO_3 nanocrystals as a function of crystallite size
JOURNAL OF SOLID STATE CHEMISTRY 183 (9) Pages: 2095-2100, SEP 2010.

103. Reiner, J.W., Cui, S., Liu, Z., Wang, M., Ahn, C.H., Ma, T.P.

Inelastic Electron Tunneling Spectroscopy Study of Thin Gate Dielectrics
ADVANCED MATERIALS 22 (26-27) Pages: 2962-2968, JUL 20 2010.

102. Chaban, N., Weber, M., Pignard, S., Kreisel, J.

Phonon Raman scattering of perovskite LaNiO_3 thin films
APPLIED PHYSICS LETTERS 97 (3) Article Number: 031915, JUL 19 2010.

101. Varshney D.; Choudhary D.; Shaikh M. W.; et al.

Electrical resistivity behaviour of sodium substituted manganites: electron-phonon, electron-electron and electron-magnon interactions
EUROPEAN PHYSICAL JOURNAL B 76 (2) Pages: 327-338, JUL 2010.

100. Laref, A., Luo, S.J.

Magnetic excitation and phonon dispersion in LaCoO_3 compound
Journal of the Physical Society of Japan 79 (6), art. no. 064702 (2010).

99. Samal, D., Venkateswarlu, D., Anil Kumar, P.S.

Influence of finite size effect on magnetic and magnetotransport properties of $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ thin films
Solid State Communications 150 (13-14), pp. 576-580 (2010).

98. Kumar, P., Saha, S., Muthu, D.V.S., Sahu, J.R., Sood, A.K., Rao, C.N.R.

Raman evidence for orbiton-mediated multiphonon scattering in multiferroic TbMnO_3
Journal of Physics Condensed Matter 22 (11), art. no. 115403 (2010).

97. Malavasi, L., Baldini, M., Di Castro, D., Nucara, A., Crichton, W., Mezouar, M., Blasco, J., Postorino, P.

High pressure behavior of Ga-doped LaMnO_3 : A combined X-ray diffraction and optical spectroscopy study

- Journal of Materials Chemistry 20 (7), pp. 1304-1311 (2010).
96. Gupta, R.K., Kim, E.Y., Kim, Y.H., Whang, C.M.
Effect of strontium ion doping on structural, thermal, morphological and electrical properties of a co-doped lanthanum manganite system
Journal of Alloys and Compounds 490 (1-2), pp. 56-61 (2010).
95. Varshney, D., Choudhary, D., Shaikh, M.W.
Interpretation of metallic and semiconducting temperature-dependent resistivity of $\text{La}_{1-x}\text{Na}_x\text{MnO}_3$ ($x = 0.07, 0.13$) manganites
Computational Materials Science 47 (3), pp. 839-847 (2010).
94. Yusa, H., Belik, A.A., Takayama-Muromachi, E., Hirao, N., Ohishi, Y.
High-pressure phase transitions in BiMO_3 ($M=\text{Al, Ga, and In}$): In situ x-ray diffraction and Raman scattering experiments
PHYSICAL REVIEW B Volume: 80 Issue: 21 Article Number: 214103 DOI: 10.1103/PhysRevB.80.214103 Published: DEC 2009
93. Suda, J., Kamishima, O., Kawamura, J., Hattori, T., Sato, T.
Anharmonicity on Raman active phonon modes of LaAlO_3
Journal of Physics Conference Series Volume: 150 Issue: 5a Article Number: 052249 DOI: 10.1088/1742-6596/150/5/052249 Published: 2009
92. Liu, X.-Q., Han, G.-J., Huang, C.-K., Lan, W.
Thickness dependence of microstructure for $\text{La}_{0.9}\text{Sr}_{0.1}\text{MnO}_3/\text{Si}$ films determined by micro-Raman spectroscopy
Wuli Xuebao/Acta Physica Sinica 58 (11), pp. 8008-8013 (2009).
91. Talati, M., Jha, P.K.
Temperature effect on vibrational properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$
International Journal of Modern Physics B 23 (23), pp. 4767-4777 (2009).
90. Reiner, J.W., Posadas, A., Wang, M., Sidorov, M., Krivokapic, Z., Walker, F.J., Ma, T.P., Ahn, C.H.
Electrical properties and interfacial structure of epitaxial LaAlO_3 on Si (001)
Journal of Applied Physics 105 (12), art. no. 124501 (2009).
89. Orlovskaya, N., Lugovy, M., Carpenter, C., Pathak, S., Steinmetz, D., Lara-Curzio, E., Klemen, C., Radovic, M.
On thermal and vibrational properties of LaGaO_3 single crystals
Acta Materialia 57 (10), pp. 2984-2992 (2009).
88. Rousseau, S., Lorient, S., Delichere, P., Boreave, A., Deloume, J.P., Vernoux, P.
 $\text{La}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_3$ perovskites prepared by sol-gel method: Characterization and relationships with catalytic properties for total oxidation of toluene
Applied Catalysis B: Environmental 88 (3-4), pp. 438-447 (2009).
87. Varshney, D., Mansuri, I., Kaurav, N.
Interpretation of thermal conductivity in the ferromagnetic metallic phase of $\text{La}_{0.83}\text{Sr}_{0.17}\text{MnO}_3$ manganites: Scattering of phonons and magnons
Journal of Low Temperature Physics 155 (3-4), pp. 177-199 (2009).
86. Gupta, R.K., Choi, I.-J., Cho, Y.-S., Lee, H.-L., Hyun, S.-H.
Characterization of perovskite-type cathode, $\text{La}_{0.75}\text{Sr}_{0.25}\text{Mn}_{0.95-x}\text{Co}_x\text{Ni}_{0.05}\text{O}_{3+\delta}$ ($0.1 \leq x \leq 0.3$), for intermediate-temperature solid oxide fuel cells
Journal of Power Sources 187 (2), pp. 371-377 (2009).
85. Dereń, P.J., Mahiou, R., Goldner, P.
Multiphonon transitions in LaAlO_3 doped with rare earth ions
Optical Materials 31 (3), pp. 465-469 (2009).
84. Vali, R.
Phonons and heat capacity of LaAlO_3
Computational Materials Science 44 (2), pp. 779-782 (2008).
83. Dubey, A., Sathe, V.G., Rawat, R.
Signature of Jahn-Teller distortion and oxygen stoichiometry in Raman spectra of epitaxial $\text{LaMnO}_{3+\delta}$ thin films
Journal of Applied Physics 104 (11), art. no. 113530 (2008).
82. Smirnova, I.S., Bazhenov, A.V., Fursova, T.N., Dubovitskii, A.F., Uspenskaya, L.S., Maksimuk, M.Yu.
IR-active optical phonons in Pnma-1 , Pnma-2 and $R\over(3, -)c$ phases of $\text{LaMnO}_3 + \delta$
Physica B: Condensed Matter 403 (21-22), pp. 3896-3902 (2008).
81. Xing, X.J., Yu, Y.P., Xu, L.M., Wu, S.X., Li, S.W.
Magnetic properties of $\beta\text{-MnO}_2$ thin films grown by plasma-assisted molecular beam epitaxy
Journal of Physical Chemistry C 112 (39), pp. 15526-15531 (2008).
80. Van Minh, N., Kim, S.-J., Yang, I.-S.
A Raman Spectroscopy Study of Disorder and Local Vibrational Modes in $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{M}_x\text{O}_3$ ($M=\text{Fe, Co}$)
Journal of the Korean Physical Society 52 (5), pp. 1402-1405 (2008).
79. Dubey, A., Sathe, V.G.
The effect of magnetic order and thickness in the Raman spectra of oriented thin films of LaMnO_3

78. Jandl, S., Mukhin, A.A., Ivanov, V.Yu., Balbashov, A.
Micro-Raman and magnetization studies of Nd_{1-x}Ca_xMnO₃ phase transitions
Journal of Physics: Conference Series 92 (1), art. no. 012125 (2007).
77. Giraudon, J.-M., Elhachimi, A., Wyrwalski, F., Siffert, S., Aboukaïs, A., Lamonier, J.-F., Leclercq, G.
Studies of the activation process over Pd perovskite-type oxides used for catalytic oxidation of toluene
Applied Catalysis B: Environmental 75 (3-4), pp. 157-166 (2007)
76. Sathe, V.G., Dubey, A.
Broken symmetry in LaAlO₃ single crystal probed by resonant Raman spectroscopy
Journal of Physics Condensed Matter 19 (38), art. no. 382201 (2007)
75. Zinenko, V.I., Pavlovskii, M.S.
Lattice dynamics and the phase transition from the cubic phase to the tetragonal phase in the LaMnO₃ crystal within the polarizable-ion model
Physics of the Solid State 49 (9), pp. 1749-1758 (2007)
74. Li, W.J., Zhang, B., Lu, W., Sun, Y.P., Zhang, Y.
Cr-doping effect on the structural, magnetic, transport properties and Raman spectroscopy of La(2+x)/3Sr(1-x)/3Mn1-xCr_xO₃ perovskites
Journal of Physics and Chemistry of Solids 68 (9), pp. 1749-1755 (2007)
73. Fan, J., Pi, L., He, Y., Ling, L., Dai, J., Zhang, Y.
Griffiths phase and magnetic polaronic behavior in B-site disordering manganites
Journal of Applied Physics 101 (12), art. no. 123910 (2007)
72. Sadykov, V.A., Borchert, Yu.V., Alikina, G.M., Lukashevich, A.I., Mezentsseva, N.V., Muzykantov, V.S., Moroz, E.M., (...), Smirnova, A.
Synthesis and properties of nanocomposites with mixed ionic-electronic conductivity on the basis of oxide phases with perovskite and fluorite structures
Glass Physics and Chemistry 33 (4), pp. 320-334 (2007)
71. Varshney, D., Mansuri, I., Kaurav, N.
Effect of electron/hole doping on the transport properties of lanthanum manganites LaMnO₃
Journal of Physics Condensed Matter 19 (24), art. no. 246211 (2007)
70. Varshney, D., Kaurav, N.
Numerical analysis of heat transport behavior in the ferromagnetic metallic state of La_{0.80}Ca_{0.20}MnO₃ manganites
Journal of Low Temperature Physics 147 (1-2), pp. 7-30 (2007)
69. Li, W.J., Zhang, B., Lu, W.
Structural properties and Raman spectroscopy of La(2+4x)/3Sr(1-4x)/3Mn1-xCu_xO₃ (0 ≤ x ≤ 0.2)
Physics Letters, Section A: General, Atomic and Solid State Physics 362 (4), pp. 327-330 (2007)
68. Wang, M., He, W., Ma, T.P., Edge, L.F., Schlom, D.G.
Electron tunneling spectroscopy study of amorphous films of the gate dielectric candidates LaAlO₃ and LaScO₃
Applied Physics Letters 90 (5), art. no. 053502 (2007)
67. Varshney, D., Kaurav, N., Choudhary, K.K., Singh, R.K.
Analysis of low temperature resistivity in the ferromagnetic metallic state of Pb-doped manganites
AIP Conference Proceedings 850, pp. 1183-1184 (2006)
66. Zhang, T., Li, G., Qian, T., Qu, J.F., Xiang, X.Q., Li, X.G.
Effect of particle size on the structure and magnetic properties of La_{0.6}Pb_{0.4}MnO₃ nanoparticles
Journal of Applied Physics 100 (9), art. no. 094324 (2006)
65. Kim, J., Jung, S., Park, M.S., Lee, S.-I., Drew, H.D., Cheong, H., Kim, K.H., Choi, E.J.
Infrared signature of ion displacement in the noncollinear spin state of orthorhombic YMnO₃
Physical Review B - Condensed Matter and Materials Physics 74 (5), art. no. 052406 (2006)
64. Minh, N.V., Hoc, N.Q., Ha Phuong, L.T., Yang, I.-S.
The effect of Fe substitution on the structural transition of LaMn_{1-x}Fe_xO₃ manganites: A raman spectroscopy study
Journal of Nonlinear Optical Physics and Materials 15 (3), pp. 315-321 (2006)
63. Aruta, C., Angeloni, M., Balestrino, G., Boggio, N.G., Medaglia, P.G., Tebano, A., Davidson, B., (...), De Renzi, R.
Preparation and characterization of LaMnO₃ thin films grown by pulsed laser deposition
Journal of Applied Physics 100 (2), art. no. 023910 (2006)
62. Talati, M., Jha, P.K.
Structure dependent phonon properties of LaMnO₃
Computational Materials Science 37 (1-2), pp. 64-68 (2006)
61. Lunkenheimer, P., Mayr, F., Loidl, A.
Dynamic conductivity from audio to optical frequencies of semiconducting manganites approaching the metal-insulator transition

- Annalen der Physik (Leipzig) 15 (7-8), pp. 498-507 (2006)
60. Jandl, S., Laverdière, J., Mukhin, A.A., Ivanov, V.Yu., Balbashov, A.M.
Raman and infrared quest for orbitons in Nd_{1-x}Sr_xMnO₃
Physica B: Condensed Matter 381 (1-2), pp. 214-218 (2006)
59. Kobayashi, Y., Sin Naing, T., Suzuki, M., Akimitsu, M., Asai, K., Yamada, K., Akimitsu, J., (...), Shirane, G.
Neutron scattering study of phonons in LaCoO₃
Physica B: Condensed Matter 378-380 (SPEC. ISS.), pp. 532-533 (2006)
58. Jandl S, Mukhin AA, Ivanov VY, et al.
Micro-Raman study and phase transitions of Nd_{0.5}Ca_{0.5}MnO₃
JOURNAL OF PHYSICS-CONDENSED MATTER 18 (5): 1667-1676 FEB 8 2006
57. Gnezdilov V, Fomin V, Yeremenko AV, et al.
Low-temperature mixed spin state of Co³⁺ in LaCoO₃ evidenced from Jahn-Teller lattice distortions
LOW TEMPERATURE PHYSICS 32 (2): 162-168 FEB 2006
56. Dore P, Postorino P, Sacchetti A, et al.
Raman measurements on thin films of the La_{0.7}Sr_{0.3}MnO₃ manganite: a probe of substrate-induced effects
EUROPEAN PHYSICAL JOURNAL B 48 (2): 255-258 NOV 2005
55. Polychronopoulou K, Galisteo FC, Granados ML, et al.
Novel Fe-Mn-Zn-Ti-O mixed-metal oxides for the low-temperature removal of H₂S from gas streams in the presence of H₂, CO₂, and H₂O
JOURNAL OF CATALYSIS 236 (2): 205-220 DEC 10 2005
54. Kobayashi Y, Naing TS, Suzuki M, et al.
Inelastic neutron scattering study of phonons and magnetic excitations in LaCoO₃
PHYSICAL REVIEW B 72 (17): Art. No. 174405 NOV 2005
53. Varshney D, Kaurav N
Interpretation of temperature-dependent resistivity of La-Pb-MnO₃: Role of electron-phonon interaction
JOURNAL OF LOW TEMPERATURE PHYSICS 141 (3-4): 165-178 NOV 2005
52. Asselin S, Jandl S, Fournier P, et al.
Resonant micro-Raman study of Nd_{0.5}Sr_{0.5}MnO₃
JOURNAL OF PHYSICS-CONDENSED MATTER 17 (34): 5247-5254 AUG 31 2005
51. Hayward SA, Morrison FD, Redfern SAT, et al.
Transformation processes in LaAlO₃: Neutron diffraction, dielectric, thermal, optical, and Raman studies
PHYSICAL REVIEW B 72 (5): Art. No. 054110 AUG 2005
50. Orlovskaya N, Steinmetz D, Yarmolenko S, et al.
Detection of temperature- and stress-induced modifications of LaCoO₃ by micro-Raman spectroscopy
PHYSICAL REVIEW B 72 (1): Art. No. 014122 JUL 2005
49. Jandl S, Mukhin AA, Ivanov VY, et al.
Raman-active phonons and Nd³⁺ crystal-field studies of weakly doped Nd_{1-x}Sr_xMnO₃
PHYSICAL REVIEW B 72 (2): Art. No. 024423 JUL 2005
48. Ghosh S, Kamaraju N, Seto M, et al.
Raman scattering in CaFeO₃ and La_{0.33}Sr_{0.67}FeO₃ across the charge-disproportionation phase transition
PHYSICAL REVIEW B 71 (24): Art. No. 245110 JUN 2005
47. Hartinger C, Mayr F, Loidl A, et al.
Phonon metamorphosis in ferromagnetic manganite films: Probing the evolution of an inhomogeneous state
PHYSICAL REVIEW B 71 (18): Art. No. 184421 MAY 2005
46. Popovic ZV, Cantarero A, Thijssen WHA, et al.
Novel phase transitions in B-site doped manganites
PHYSICA B-CONDENSED MATTER 359: 1276-1278 APR 30 2005
45. Delugas P, Fiorentini V, Filippetti A
Dielectric properties and long-wavelength optical modes of the high-kappa oxide LaAlO₃
PHYSICAL REVIEW B 71 (13): Art. No. 134302 APR 2005
44. Popovic ZV, Cantarero A, Thijssen WHA, et al.
Short range charge/orbital ordering in La_{1-x}Sr_xMn_{1-z}BzO₃ (B = Cu, Zn) manganites
JOURNAL OF PHYSICS-CONDENSED MATTER 17 (2): 351-360 JAN 19 2005
43. Seikh MM, Sood AK, Narayana C
Electronic and vibrational Raman spectroscopy of Nd_{0.5}Sr_{0.5}MnO₃ through the phase transitions
PRAMANA-JOURNAL OF PHYSICS 64 (1): 119-128 JAN 2005
42. Venimadhav A, Yates KA, Blamire MG

- Scanning Raman spectroscopy for characterizing compositionally spread films
JOURNAL OF COMBINATORIAL CHEMISTRY 7 (1): 85-89 JAN-FEB 2005
41. Orlovskaya N; Browning N
Raman diagnostics of LaCoO₃ based perovskites
MIXED IONIC ELECTRONIC CONDUCTING PEROVSKITES FOR ADVANCED ENERGY SYSTEMS Book Series: NATO SCIENCE SERIES, SERIES II: MATHEMATICS, PHYSICS AND CHEMISTRY Volume: 173 Pages: 39-51 Published: 2004
41. Bergenti, I, Biscarini, F.; Cavallini, M, Dediu, V, Murgia, M, Nozar, P, Ruani, G, Taliani, C.
Spin polarized effects at the interface between manganites and organic semiconductors
MOLECULAR NANOWIRES AND OTHER QUANTUM OBJECTS Book Series: NATO SCIENCE SERIES, SERIES II: MATHEMATICS, PHYSICS AND CHEMISTRY Volume: 148 Pages: 415-424 Published: 2004
40. Hartinger C, Mayr F, Loidl A, et al.
Cooperative dynamics in doped manganite films: Phonon anomalies in the ferromagnetic state
PHYSICAL REVIEW B 70 (13): Art. No. 134415 OCT 2004
39. Xiong YM, Chen T, Wang GY, et al.
Raman spectra in epitaxial thin films of La_{1-x}CaxMnO₃ (x=0.33, 0.5) grown on different substrates
PHYSICAL REVIEW B 70 (9): Art. No. 094407 SEP 2004
38. Ishikawa A, Nohara J, Sugai S
Raman study of the orbital-phonon coupling in LaCoO₃
PHYSICAL REVIEW LETTERS 93 (13): Art. No. 136401 SEP 24 2004
37. Varshney D, Kaurav N
Electrical resistivity in the ferromagnetic metallic state of La-Ca-MnO₃: Role of electron-phonon interaction
EUROPEAN PHYSICAL JOURNAL B 40 (2): 129-136 JUL 2004
36. Maczka M, Hanuza J, Fuentes AF, et al.
Vibrational studies of A(B^{1/3}B^{2/3})O₃ perovskites (A = Ba, Sr; B¹ = Y, Sm, Dy, Gd, In; B² = Mo, W)
JOURNAL OF PHYSICS-CONDENSED MATTER 16 (13): 2297-2310 APR 7 2004
35. Busani, T., Devine, R.A.B.
Substrate/oxide interface interaction in LaAlO₃/Si structures
Materials Research Society Symposium - Proceedings 786, pp. 189-194 (2004)
34. Nikiforov AE, Popov SE
Cooperative dynamical effect in rhombohedral LaMnO₃
ADV QUANTUM CHEM 44: 587-598 2003
33. Tan S, Yue S, Zhang YH
Jahn-Teller distortion induced by Mg/Zn substitution on Mn sites in the perovskite manganites
PHYS LETT A 319 (5-6): 530-538 DEC 15 2003
32. Gnezdilov VP, Yermenko AV, Pashkevich YG, et al.
Phonon Raman scattering in LaMn_{1-x}CoxO₃ (x = 0, 0.2, 0.3, 0.4, and 1.0)
LOW TEMP PHYS+ 29 (11): 963-966 NOV 2003
31. Tatsi A, Papadopoulou EL, Lampakis D, et al.
Raman study of anharmonic effects in Pr_{0.5}Ca_{0.5}MnO₃ thin films
PHYS REV B 68 (2): Art. No. 024432 JUL 1 2003
30. De Marzi G, Popovic ZV, Cantarero A, et al.
Effect of A-site and B-site substitution on the infrared reflectivity spectra of La_{1-y}AyMn_{1-x}BxO₃ (A=Ba,Sr; B=Cu,Zn,Sc; 0 < y <= 0.3; 0 <= x <= 0.1) manganites
PHYS REV B 68 (6): Art. No. 064302 AUG 1 2003
29. Devine RAB
Infrared and electrical properties of amorphous sputtered (LaxAl_{1-x})₂O₃ films
J APPL PHYS 93 (12): 9938-9942 JUN 15 2003
28. Malavasi L, Alessandri I, Mozzati MC, et al.
Preparation, structural and magnetic characterisation of RF-sputtered La_{1-x}NaxMnO₃ +/-delta thin films manganites
PHYS CHEM CHEM PHYS 5 (11): 2274-2278 2003
27. Deren PJ, Krupa JC
Spectroscopic investigations of LaAlO₃ : Eu³⁺
J LUMIN 102: 386-390 MAY 2003
26. Popa M, Van Hong L, Kakihana M
Nanopowders of LaMeO₃ perovskites obtained by a solution-based ceramic processing technique
PHYSICA B 327 (2-4): 233-236 APR 2003
25. Souza AG, Faria JLB, Guedes I, et al.
Evidence of magnetic polaronic states in La_{0.70}Sr_{0.30}Mn_{1-x}FexO₃ manganites

24. Guttler B, Amelitchev VA, Gorbenko OY, et al.
Static and dynamic Jahn-Teller distortions in CMR manganites: A Raman spectrometric study
PHASE TRANSIT 76 (1-2): 63-72 Part B JAN-FEB 2003
23. Taliani C, Dediu V, Biscarini F, et al.
Organic-inorganic hybrid spin-valve: A novel approach to spintronics
PHASE TRANSIT 75 (7-8): 1049-1058 Part B OCT-NOV 2002
22. Popa M, Frantti J, Kakihana M
Characterization of LaMeO₃ (Me : Mn, Co, Fe) perovskite powders obtained by polymerizable complex method
SOLID STATE IONICS 154: 135-141 Part B Sp. Iss. SI DEC 2002
21. Martin-Carron L, de Andres A, Martinez-Lope MJ, et al.
Raman phonons as a probe of disorder, fluctuations, and local structure in doped and undoped orthorhombic and rhombohedral manganites
PHYS REV B 66 (17): Art. No. 174303 NOV 1 2002
20. Hayward SA, Redfern SAT, Salje EKH
Order parameter saturation in LaAlO₃
J PHYS-CONDENS MAT 14 (43): 10131-10144 NOV 4 2002
19. Bouvier P, Kreisel J
Pressure-induced phase transition in LaAlO₃
J PHYS-CONDENS MAT 14 (15): 3981-3991 APR 22 2002
18. Frost, R.L., Kristóf, J., Horváth, E., Klopogge, J.T.
Raman phonons and Raman Jahn-Teller bands in perovskite-like manganites
Journal of Raman Spectroscopy 32(10), 805-811 DOI: 10.1002/jrs.770 (2001)
17. Trodahl, H.J., Fainstein, A., Pregliasco, R.G., Buckley, R.G., Balakrishnan, G., Lees, M.R., Paul, D.M., Pantoja, A.E.
O(Mn) vibrational bands in double-layered manganites: First and second order Raman scattering
Physical Review B - Condensed Matter and Materials Physics 63(13), 132406 (2001)
16. Nagaev EL
Off-stoichiometry mechanism of the isotope effect in manganites
PHYS REV B 64 (14): art. no. 144409 OCT 1 2001
15. Martin-Carron L, de Andres A, Martinez-Lope MJ, et al.
Raman phonons and light scattering in RMnO₃ (R=La, Pr, Nd, Ho, ErTb and Y) orthorhombic and hexagonal manganites
J ALLOY COMPD 323: 494-497 JUL 12 2001
14. Pantoja, A.E., Trodahl, H.J., Fainstein, A., Pregliasco, R.G., Buckley, R.G., Balakrishnan, G., Lees, M.R., Paul, D.McK.
O(Mn) vibrational bands in double-layered manganites: First and second order Raman scattering
Physical Review B - Condensed Matter and Materials Physics 63 (13), pp. 1324061-1324064 (2001)
13. Nagaev EL
Colossal-magnetoresistance materials: manganites and conventional ferromagnetic semiconductors
PHYS REP 346 (6): 388-531 JUN 2001
12. Amelitchev VA, Guttler B, Gorbenko OY, et al.
Structural and chemical analysis of colossal magnetoresistance manganites by Raman spectrometry
PHYS REV B 63 (10): art no. 104430 MAR 1 2001
11. Saitoh E, Okamoto S, Takahashi KT, et al.
Observation of orbital waves as elementary excitations in a solid
NATURE 410: (6825) 180-183 MAR 8 2001
10. Amado, A.M., Ribeiro-Claro, P.J.A.
Raman phonons in La(2-2x)Sr(1+2x)Mn₂O₇ layered manganites
Journal of Raman Spectroscopy 31(11), 1013-1015 DOI: 10.1002/1097-4555(200011)31:11<1013::AID-JRS637>3.0.CO;2-9 (2000)
9. Mayr F, Hartinger C, Paraskevopoulos M, et al.
High-frequency conductivity and phonon properties of La_{7/8}Sr_{1/8}MnO₃
PHYS REV B 62: (23) 15673-15679 DEC 15 2000
8. Guedes I, Mitchell JF, Argyriou D, et al.
Raman phonons in La_{2-2x}Sr_{1+2x}Mn₂O₇ layered manganites
J RAMAN SPECTROSC 31: (11) 1013-1015 NOV 2000
7. Granado E, Sanjurjo JA, Rettori C, et al.
Effects of cation vacancies in the phonon Raman spectra of LaMnO₃
PHYS STATUS SOLIDI B 220: (1) 609-613 JUL 2000
6. Yamamoto K, Kimura T, Ishikawa T, et al.

Raman spectroscopy of the charge-orbital ordering in layered manganites
PHYS REV B 61: (21) 14706-14715 JUN 1 2000

5. Dediu V, Ferdeghini C, Maticcotta FC, et al.
Jahn-Teller dynamics in charge-ordered manganites from Raman spectroscopy
PHYS REV LETT 84: (19) 4489-4492 MAY 8 2000

4. Paraskevopoulos M, Mayr F, Hartinger C, et al.
The phase diagram and optical properties of $\text{La}_{2-x}\text{Sr}_x\text{MnO}_3$ for $x \leq 0.2$
J MAGN MAGN MATER 211: (1-3) 118-127 Sp. Iss. SI MAR 2000

3. Bjornsson P, Rubhausen M, Backstrom J, et al.
Lattice and charge excitations in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$
PHYS REV B 61: (2) 1193-1197 JAN 1 2000

2. Rubhausen M
Study of the interplay between spin, charge, and lattice degrees of freedom by inelastic light scattering
PHYS STATUS SOLIDI B 215: (1) 489-493 SEP 1999

1. Nagaev EL
Polarons and isotope effect in manganites
PHYS LETT A 258: (1) 65-73 JUL 12 1999

28. "Raman Study of the Variations of the Jahn-Teller Distortions through the Metal-Insulator Transition in Magnetoresistive $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ Thin Films"

M. V. Abrashev, V. G. Ivanov, M. N. Iliev, R. A. Chakalov, R. I. Chakalova, and C. Thomsen
phys. stat. sol. (b) 215 (1999) 631 - 636.

38. High-density sol-gel derived, cold-isostatically pressed $\text{La}_{0.67}\text{Ca}_{0.27}\text{Sr}_{0.06}\text{MnO}_3$ polycrystalline ceramics and their room-temperature TCR improvement

Liu, Y (Liu, Yang) Dong, G (Dong, Gang) Zhang, S (Zhang, Shuai) Liu, X (Liu, Xiang)
CERAMICS INTERNATIONAL Volume47 Issue6 Page7674-7682 PublishedMAR 15 2021

37. Electronic configuration and magnetic properties of $\text{La}_{0.7}\text{Ca}_{0.3}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ perovskite NPs: The effect of a lower Fe^{3+} concentration

Martinez-Rodriguez, HA (Martinez-Rodriguez, H. A.) Onyekachi, K (Onyekachi, Kalu) Concha-Balderrama, A (Concha-Balderrama, A.) Herrera-Perez, G (Herrera-Perez, G.) Matutes-Aquino, JA (Matutes-Aquino, J. A.) Jurado, JF (Jurado, J. F.) Bocanegra-Bernal, MH (Bocanegra-Bernal, M. H.) Ramos-Sanchez, VH (Ramos-Sanchez, V. -H.) Duarte-Moller, JA (Duarte-Moller, J. A.) Reyes-Rojas, A (Reyes-Rojas, A.)
JOURNAL OF ALLOYS AND COMPOUNDS Volume816 Article Number152668 PublishedMAR 5 2020

36. Microstructure and electrical transport mechanisms of the Ca-doped LaMnO_3 films grown on MgO substrate
Daoudi, K (Daoudi, Kais) El-Helali, S (El-Helali, S.) Othmen, Z (Othmen, Z.) Suleiman, BM (Suleiman, B. M.) Tsuchiya, T (Tsuchiya, T.)
JOURNAL OF MATERIMICS Volume6 Issue1 Page17-23 PublishedMAR 2020

35. Polaronic Emergent Phases in Manganite-Based Heterostructures
Moshnyaga, V (Moshnyaga, Vasily) Samwer, K (Samwer, Konrad)
CRYSTALS Volume9 Issue10 Article Number489 PublishedOCT 2019

34. Jahn-Teller reconstructed surface of the doped manganites shown by means of surface-enhanced Raman spectroscopy
Merten, S (Merten, S.) Bruchmann-Bamberg, V (Bruchmann-Bamberg, V) Damaschke, B (Damaschke, B.) Samwer, K (Samwer, K.) Moshnyaga, V (Moshnyaga, V)
PHYSICAL REVIEW MATERIALS Volume3 Issue6 Article Number060401 PublishedJUN 28 2019

33. Magnetic-Field-Induced Suppression of Jahn-Teller Phonon Bands in $(\text{La}_{0.6}\text{Pr}_{0.4})(0.7)\text{Ca}_{0.3}\text{MnO}_3$: the Mechanism of Colossal Magnetoresistance shown by Raman Spectroscopy

Merten, S (Merten, S.) Shapoval, O (Shapoval, O.) Damaschke, B (Damaschke, B.) Samwer, K (Samwer, K.) Moshnyaga, V (Moshnyaga, V)
SCIENTIFIC REPORTS Volume9 Article Number2387 PublishedFEB 20 2019

32. Daoudi, Kais; Alawadhi, Hussain; El Helali, Saoussen; et al.
Effects of Mn_3O_4 precipitates on the vibrational properties of epitaxial Ca-doped LaMnO_3 films
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 50 Issue: 39 Article Number: 395305 Published: OCT 4 2017

31. Turki, D.; Ghouri, Zafar Khan; Al-Meer, Saeed; et al.
Synthesis and Physicochemical Studies of Perovskite Manganite $\text{La}_{0.8}\text{Ca}_{0.2}\text{Ni}_{1-x}\text{Co}_x\text{O}_3$ ($0 \leq x \leq 0.3$)
JOURNAL OF MAGNETICS Volume: 22 Issue: 3 Pages: 353-359 Published: SEP 2017

30. Zhang, A. M.; Zhang, W. C.; Wu, X. S.; et al.
Abnormal enhancement of ferromagnetism for $\text{LaMnO}_3+\delta$ thin films with decreasing oxygen pressure
AIP ADVANCES Volume: 7 Issue: 5 Article Number: 055837 Published: MAY 2017

29. Bhat, I (Bhat, Irshad); Husain, S (Husain, Shahid); War, TA (War, Tariq Ahmad)

Magnetic and Raman spectroscopic study of laser ablated 100 (nm) thin film of $\text{La}_{0.85}\text{Te}_{0.15}\text{MnO}_3$ deposited on LaAlO_3
 JOURNAL OF ALLOYS AND COMPOUNDS Volume: 667 Pages: 225-228 DOI: 10.1016/j.jallcom.2016.01.149 Published: MAY 15 2016

28. Arnache, O., Osorio, J.
 Comparative study of the Raman vibrational modes in pure and Fe-doped $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ thin films
 SUPERLATTICES AND MICROSTRUCTURES Volume: 92 Pages: 181-189 DOI: 10.1016/j.spmi.2016.02.020 Published: APR 2016
27. McBride, K., Cook, J., Gray, S., Felton, S., Stella, L., Poulidi, D.
 Evaluation of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0 \leq x < 0.4$) synthesised via a modified sol-gel method as mediators for magnetic fluid hyperthermia
 CRYSTENGCOMM Volume: 18 Issue: 3 Pages: 407-416 DOI: 10.1039/c5ce01890k Published: 2016
26. Euler, C.; Holuj, P.; Talkenberger, A.; et al.
 Magnetic field dependent thermal conductance in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 381 Pages: 188-193 Published: MAY 1 2015
25. Mir Feroz Ahmad; Ikram M.; Kumar Ravi
 Symmetry breaking in Ni-doped PrFeO_3 thin films established by Raman study
 PHASE TRANSITIONS 84 (2) Pages: 167-178, 2011.
24. Talati, M., Jha, P.K.
 Temperature effect on vibrational properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$
 International Journal of Modern Physics B 23 (23), pp. 4767-4777 (2009).
23. Varshney, D., Mansuri, I., Kaurav, N.
 Interpretation of thermal conductivity in the ferromagnetic metallic phase of $\text{La}_{0.83}\text{Sr}_{0.17}\text{MnO}_3$ manganites: Scattering of phonons and magnons
 Journal of Low Temperature Physics 155 (3-4), pp. 177-199 (2009).
22. Dubey, A., Sathe, V.G., Rawat, R.
 Signature of Jahn-Teller distortion and oxygen stoichiometry in Raman spectra of epitaxial $\text{LaMnO}_{3+\delta}$ thin films
 Journal of Applied Physics 104 (11), art. no. 113530 (2008).
21. Kim, M., Barath, H., Cooper, S.L., Abbamonte, P., Fradkin, E., Rübhausen, M., Zhang, C.L., Cheong, S.-W.
 Raman scattering studies of the temperature- and field-induced melting of charge order in $\text{La}_x\text{Pr}_{1-x}\text{Ca}_{1-x-y}\text{MnO}_3$
 Physical Review B - Condensed Matter and Materials Physics 77 (13), art. no. 134411 (2008).
20. Talati, M., Jha, P.K.
 Phonons and Jahn-Teller distortion in manganites
 Journal of Molecular Structure 838 (1-3), pp. 227-231 (2007)
19. Varshney, D., Mansuri, I., Kaurav, N.
 Effect of electron/hole doping on the transport properties of lanthanum manganites LaMnO_3
 Journal of Physics Condensed Matter 19 (24), art. no. 246211 (2007)
18. Varshney, D., Kaurav, N.
 Numerical analysis of heat transport behavior in the ferromagnetic metallic state of $\text{La}_{0.80}\text{Ca}_{0.20}\text{MnO}_3$ manganites
 Journal of Low Temperature Physics 147 (1-2), pp. 7-30 (2007)
17. Gouadec, G., Colombari, P.
 Raman Spectroscopy of nanomaterials: How spectra relate to disorder, particle size and mechanical properties
 Progress in Crystal Growth and Characterization of Materials 53 (1), pp. 1-56 (2007)
16. Talati, M., Jha, P.K.
 Pressure-dependent phonon properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$
 Physical Review B - Condensed Matter and Materials Physics 74 (13), art. no. 134406 (2006)
15. Kim, J., Jung, S., Park, M.S., Lee, S.-I., Drew, H.D., Cheong, H., Kim, K.H., Choi, E.J.
 Infrared signature of ion displacement in the noncollinear spin state of orthorhombic YMnO_3
 Physical Review B - Condensed Matter and Materials Physics 74 (5), art. no. 052406 (2006)
14. Li T, Wang B, Dai HY, et al.
 Annealing effect on the structural and magnetic properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ films
 JOURNAL OF APPLIED PHYSICS 98 (12): Art. No. 123505 DEC 15 2005
13. Varshney D, Kaurav N
 Interpretation of temperature-dependent resistivity of La-Pb-MnO_3 : Role of electron-phonon interaction
 JOURNAL OF LOW TEMPERATURE PHYSICS 141 (3-4): 165-178 NOV 2005
12. Xiong YM, Chen T, Wang GY, et al.
 Raman spectra in epitaxial thin films of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.33, 0.5$) grown on different substrates
 PHYSICAL REVIEW B 70 (9): Art. No. 094407 SEP 2004
11. Varshney D, Kaurav N
 Electrical resistivity in the ferromagnetic metallic state of La-Ca-MnO_3 : Role of electron-phonon interaction
 EUROPEAN PHYSICAL JOURNAL B 40 (2): 129-136 JUL 2004

10. Liu, Y., Li, G., Feng, S.-J., Li, X.-G.
Jahn-Teller Distortions Cooperating with Magnetic Interaction in the Raman Spectra of $\text{La}_{0.75}\text{Ca}_{0.25}\text{MnO}_3$ Thin Film
Chinese Physics Letters 20 (9), pp. 1603-1606 (2003)
 9. Malavasi L, Alessandri I, Mozzati MC, et al.
Preparation, structural and magnetic characterisation of RF-sputtered $\text{La}_{1-x}\text{Na}_x\text{MnO}_3$ \pm δ thin films manganites
PHYS CHEM CHEM PHYS 5 (11): 2274-2278 2003
 8. Postorino P, Congeduti A, Degiorgi E, et al.
High-pressure behavior of $\text{La}_{0.5}\text{Sr}_{0.5}\text{MnO}_4$ layered manganites investigated by Raman spectroscopy and x-ray diffraction
PHYS REV B 65 (22): Art. No. 224102 JUN 1 2002
 7. Frost, R.L., Kristóf, J., Horváth, E., Klopogge, J.T.
Raman phonons and Raman Jahn-Teller bands in perovskite-like manganites
Journal of Raman Spectroscopy 32(10), 805-811 DOI: 10.1002/jrs.770 (2001)
 6. Zhang PX, Huang SJ, Habermeier HU, et al.
Isotope effect on Raman spectra of polycrystalline $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$
J RAMAN SPECTROSC 32 (10): 812-816 OCT 2001
 5. Pantoja AE, Trodahl HJ, Buckley RG, et al.
Raman spectroscopy of orthorhombic $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$, $x=0.1-0.3$
J PHYS-CONDENS MAT 13 (16): 3741-3752 APR 23 2001
 4. Pantoja AE, Trodahl HJ, Fainstein A, et al.
O(Mn) vibrational bands in double-layered manganites: First and second order Raman scattering
PHYS REV B 63 (13): art. no. 132406 APR 1 2001
 3. Granado E, Garcia A, Sanjurjo JA, et al.
Effects of phase separation on the magnetization, x-ray diffraction, and Raman scattering of $(\text{La}_{1-y}\text{Nd}_y)_{1-x}\text{Ca}_x\text{MnO}_3$ ($y=0,0.5,1.0$; $x=1/3$)
PHYS REV B 63 (6): art. no. 064404 FEB 1 2001
 2. Granado E, Sanjurjo JA, Rettori C, et al.
Effects of cation vacancies in the phonon Raman spectra of LaMnO_3
PHYS STATUS SOLIDI B 220: (1) 609-613 JUL 2000
 1. Yamamoto K, Kimura T, Ishikawa T, et al.
Raman spectroscopy of the charge-orbital ordering in layered manganites
PHYS REV B 61: (21) 14706-14715 JUN 1 2000
29. *"Raman Scattering Study of Heavily Oxygenated $\text{YSr}_2\text{Cu}_3\text{O}_{7+y}$ and $\text{AuBa}_2\text{YCu}_2\text{O}_{7+y}$ Superconductors"*
A. P. Litvinchuk, M. N. Iliev, H. G. Lee, M. V. Abrashev, L. M. Dezaneti, B. R. Hickey, Y. Y. Xue, and C. W. Chu
Physica C 341-348 (2000) 2205 - 2208.
30. *"Raman Monitoring of Dynamical Jahn-Teller Distortions in Rhombohedral Antiferromagnetic LaMnO_3 and Ferromagnetic Magnetoresistive $\text{La}_{0.93}\text{Mn}_{0.98}\text{O}_3$ "*
M. N. Iliev, A. P. Litvinchuk, M. V. Abrashev, V. G. Ivanov, H. G. Lee, W. H. McCarroll, M. Greenblatt, R. L. Meng, and C. W. Chu
Physica C 341-348 (2000) 2257 - 2258.
14. Novel synthetic approach to the preparation of single-phase $\text{Bi}_x\text{La}_{1-x}\text{MnO}_3$ \pm δ solid solutions
Karoblis, D (Karoblis, Dovydas) Mazeika, K (Mazeika, Kestutis) Baltrunas, D (Baltrunas, Dalis) Lukowiak, A (Lukowiak, Anna) Strek, W (Strek, Wieslaw) Zarkov, A (Zarkov, Aleksej) Kareiva, A (Kareiva, Aivaras)
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY Volume93 Issue3 Page650-656 PublishedMAR 2020
 13. Polaronic Emergent Phases in Manganite-Based Heterostructures
Moshnyaga, V (Moshnyaga, Vasily) Samwer, K (Samwer, Konrad)
CRYSTALS Volume9 Issue10 Article Number489 PublishedOCT 2019
 12. Self-doped $\text{La}_{1-x}\text{MnO}_3$ \pm δ perovskites: Electron state hybridization and Raman modes
Ulyanov, AN (Ulyanov, A. N.) Sidorov, AV (Sidorov, A., V) Pismenova, NE (Pismenova, N. E.) Goodilin, EA (Goodilin, E. A.) Savilov, SV (Savilov, S., V)
SOLID STATE SCIENCES Volume94 Page41-44 PublishedAUG 2019
 11. Electrical behavior and structure - property correlations in $\text{La}_{1-x}\text{Pr}_x\text{MnO}_3$ ($0 \leq x \leq 1$) ceramics

Udeshi, B (Udeshi, Bhagyashree) Boricha, H (Boricha, Hetal) Rajyaguru, B (Rajyaguru, Bhargav) Gadani, K (Gadani, Keval) Rathod, KN (Rathod, K. N.) Dhruv, D (Dhruv, Davit) Kansara, SB (Kansara, S. B.) Trivedi, RK (Trivedi, R. K.) Pandya, DD (Pandya, D. D.) Asokan, K (Asokan, K.)

CERAMICS INTERNATIONAL Volume45 Issue1 Page1098-1109 PublishedJAN 2019

10. CHARACTERIZATION OF $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0 \leq x \leq 0.2$) NANOPOWDERS SYNTHESIZED BY DIFFERENT METHODS
Djani, F (Djani, Faical) Noureddine, I (Noureddine, Ikram) Martinez Arias, A (Martinez Arias, Arturo)
UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE
Volume80 Issue1 Page101-112 Published 2018

9. Gadani, Keval; Keshvani, M. J.; Dhruv, Davit; et al.
Low field magnetoelectric and magnetotransport properties of sol-gel grown nanostructured LaMnO_3 manganites
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 719 Pages: 47-57 Published: SEP 30 2017

8. Jiang Shaoqun; Ma Xinxin; Tang Guangze; et al.
Microstructure and nano-scratch behaviors of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ films
THIN SOLID FILMS 519 (15) Pages: 4880-4883, MAY 31 2011.

7. Talati, Mina; Jha, Prafulla K.
TEMPERATURE EFFECT ON VIBRATIONAL PROPERTIES OF $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$
INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 23 Issue: 23 Pages: 4767-4777 Published: SEP 20 2009

6. Dubey, Aditi; Sathe, V. G.; Rawat, R.
Signature of Jahn-Teller distortion and oxygen stoichiometry in Raman spectra of epitaxial LaMnO_3 +delta thin films
JOURNAL OF APPLIED PHYSICS Volume: 104 Issue: 11 Article Number: 113530 Published: DEC 1 2008

5. Smirnova, I. S.; Bazhenov, A. V.; Fursova, T. N.; et al.
IR-active optical phonons in Pnma-1 , Pnma-2 and $\text{R}(\overline{3})$ over-bar phases of $\text{LaMnO}_{3+\delta}$
PHYSICA B-CONDENSED MATTER Volume: 403 Issue: 21-22 Pages: 3896-3902 Published: NOV 30 2008

4. Choi, Y., Abernathy, H., Lynch, M.E., Liu, M.
Modeling, simulation, and in-situ characterization of functionally graded porous electrodes for solid oxide fuel cells
Advances in Heterogeneous Material Mechanics 2008 - Proceedings of the 2nd International Conference on Heterogeneous Material Mechanics, ICHMM 2008, pp. 290-293 (2008).

3. Chan TS, Liu RS, Yang CC, et al.
Influence of oxygen defects on the crystal structure and magnetic properties of the $(\text{Tb}_{1-x}\text{Na}_x)\text{MnO}_{3-y}$ ($0 \leq x \leq 0.3$) system
INORGANIC CHEMISTRY 46 (11), pp. 4575-4582 (2007)

2. Li WJ, Zhang B, Lu W
Structural properties and Raman spectroscopy of $\text{La}_{((2+4x))/\text{Sr}-3((1-4x))/\text{Mn}-3(1-x)}\text{Cu}_x\text{O}_3$ ($0 \leq x \leq 0.2$)
PHYSICS LETTERS A 362 (4), pp. 327-330 (2007).

1. Talati M, Jha PK
Structure dependent phonon properties of LaMnO_3
COMPUTATIONAL MATERIALS SCIENCE 37 (1-2): 64-68 AUG 2006

31. "Nanosize gold catalysts promoted by vanadium oxide supported on titania and zirconia for complete benzene oxidation"

D. Andreeva, T. Tabakova, L. Ilieva, A. Naydenov, D. Mehanjiev, and M. V. Abrashev
Applied Catalysis A - General 209 (1-2) 291 – 300 Feb 28 (2001)

86. Activity boosting of gold nanoparticles supported on $\text{V}_2\text{O}_5/\text{TiO}_2$ nanostructures for CO oxidation at low temperature
Camposco, R., Zanella, R.
Catalysis Today (Article in Press) (2021)

85. Recent Advances in the Catalytic Oxidation of Volatile Organic Compounds: A Review Based on Pollutant Sorts and Sources
He, C (He, Chi) Cheng, J (Cheng, Jie) Zhang, X (Zhang, Xin) Douthwaite, M (Douthwaite, Mark) Pattisson, S (Pattisson, Samuel) Hao, ZP (Hao, Zhengping)
CHEMICAL REVIEWS Volume119 Issue7 Page4471-4568 PublishedAPR 10 2019

84. Multipronged Validation of Oxalate C-C Bond Cleavage Driven by Au-TiO_2 Interfacial Charge Transfer Using Operando DRIFTS
Tan, TH (Tan, Tze Hao) Wong, RJ (Wong, Roong Jien) Scott, J (Scott, Jason) Ng, YH (Ng, Yun Hau) Taylor, RA (Taylor, Robert A.) Aguey-Zinsou, KF (Aguey-Zinsou, Kondo-Francois) Amal, R (Amal, Rose)
ACS CATALYSIS Volume8 Issue8 Page7158-7163 PublishedAUG 2018

83. Tan, Tze Hao; Scott, Jason A.; Ng, Yun Hau; et al.
Plasmon enhanced selective electronic pathways in TiO_2 supported atomically ordered bimetallic Au-Cu alloys
JOURNAL OF CATALYSIS Volume: 352 Pages: 638-648 Published: AUG 2017

82. Magadz, T.; Scurrall, M. S.
Stability of gold particles in NaY-type zeolites: Promotional effects of co-exchanged metal cations
MICROPOROUS AND MESOPOROUS MATERIALS Volume: 241 Pages: 52-57 Published: MAR 15 2017

81. Li, Y.-K., Li, Z.-Y., Zhao, Y.-X., Liu, Q.-Y., Meng, J.-H., He, S.-G.
Activation and Transformation of Ethane by Au₂VO₃⁺ Clusters with Closed-Shell Electronic Structures
Chemistry - A European Journal 22(5), 1825-1830 DOI: 10.1002/chem.201503676 (2016)
80. Villa, A., Dimitratos, N., Chan-Thaw, C.E., Hammond, C., Veith, G.M., Wang, D., Manzoli, M., Prati, L., Hutchings, G.J.
Characterisation of gold catalysts
CHEMICAL SOCIETY REVIEWS Volume: 45 Issue: 18 Pages: 4953-4994 DOI: 10.1039/c5cs00350d Published: SEP 21 2016
79. Panayotov, D.A., Morris, J.R.
Surface chemistry of Au/TiO₂: Thermally and photolytically activated reactions
SURFACE SCIENCE REPORTS Volume: 71 Issue: 1 Pages: 77-271 DOI: 10.1016/j.surfrep.2016.01.002 Published: MAR 2016
78. Santacruz-Chávez, J.A., Oros-Ruiz, S., Prado, B., Zanella, R.
Photocatalytic degradation of atrazine using TiO₂ superficially modified with metallic nanoparticles
CHEMISTRY-A EUROPEAN JOURNAL Volume: 22 Issue: 5 Pages: 1825-1830 DOI: 10.1002/chem.201503676 Published: JAN 26 2016
77. Elias, A (Eliyas, A.); Petrova, P (Petrova, P.); Lopez-Tenllado, FJ (Lopez-Tenllado, F. J.); Tomova, D (Tomova, D.); Marinas, A (Marinas, A.)
Experimental arrangements for determining the photocatalytic activity of Au/TiO₂ in air and wastewater purification
BULGARIAN CHEMICAL COMMUNICATIONS Volume: 47 Issue: 4 Pages: 978-984 Published: 2015
76. Garcia, Tomas; Agouram, Said; Taylor, Stuart H.; et al.
Total oxidation of propane in vanadia-promoted platinum-alumina catalysts: Influence of the order of impregnation
CATALYSIS TODAY Volume: 254 Pages: 12-20 Published: OCT 1 2015
75. Carabineiro, S. A. C.; Chen, X.; Martynyuk, O.; et al.
Gold supported on metal oxides for volatile organic compounds total oxidation
CATALYSIS TODAY Volume: 244 Pages: 103-114 Published: APR 15 2015
74. Balzer, R.; Probst, L. F. D.; Drago, V.; et al.
Catalytic oxidation of volatile organic compounds (n-hexane, benzene, toluene, o-xylene) promoted by cobalt catalysts supported on γ -Al₂O₃-CeO₂
Brazilian Journal of Chemical Engineering 31 (3), pp. 757-769 SEP 2014
73. Thimmaraju, N.; Shamsuddin, S. Z. Mohamed; Pratap, S. R.; et al.
Transesterification of diethyl malonate with benzyl alcohol catalyzed by modified zirconia: Kinetic study
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL 391, pp. 55-65 SEP 2014
72. Jiang, Xin; Hua, Jiefeng; Deng, Hui; et al.
Influence of pre-added NaOH on the microstructure of Au-CeO₂ catalyst and its activity for benzene oxidation
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL 383, pp. 188-193 MAR 2014
71. Oros-Ruiz, Socorro; Zanella, Rodolfo; Lopez, Rosendo; et al.
Photocatalytic hydrogen production by water/methanol decomposition using Au/TiO₂ prepared by deposition-precipitation with urea
JOURNAL OF HAZARDOUS MATERIALS 263, pp. 2-10 Part: 1 DEC 15 2013
70. Oros-Ruiz, Socorro; Zanella, Rodolfo; Prado, Blanca
Photocatalytic degradation of trimethoprim by metallic nanoparticles supported on TiO₂-P25
JOURNAL OF HAZARDOUS MATERIALS 263, pp. 28-35 Part: 1 DEC 15 2013
69. Delaigle, R.; Joseph, M. M. F.; Debecker, D. P.; et al.
An Alternative Method for the Incorporation of Silver in Ag-VOx/TiO₂ Catalysts for the Total Oxidation of Benzene
TOPICS IN CATALYSIS 56 (18-20) SI, pp. 1867-1874 DEC 2013
68. Balzer, R., Drago, V., Schreiner, W.H., Probst, L.F.D.
Removal of BTX compounds in air by total catalytic oxidation promoted by catalysts based on SiO₂(1-x)Cu_x
Journal of the Brazilian Chemical Society 24 (10), pp. 1592-1598, 2013
67. Einaga, H., Maeda, N., Teraoka, Y.
Effect of catalyst composition and preparation conditions on catalytic properties of unsupported manganese oxides for benzene oxidation with ozone
Applied Catalysis B: Environmental 142-143, pp. 406-413, 2013
66. Liu, Y., Dai, H., Deng, J., Li, X., Wang, Y., Arandiyana, H., Xie, S., (...), Guo, G.
Au/3DOM La_{0.6}Sr_{0.4}MnO₃: Highly active nanocatalysts for the oxidation of carbon monoxide and toluene
Journal of Catalysis 305, pp. 146-153, 2013
65. Wang, C.-T., Chen, H.-Y., Chen, Y.-C.
Gold/vanadium-tin oxide nanocomposites prepared by co-precipitation method for carbon monoxide gas sensors
Sensors and Actuators, B: Chemical 176, pp. 945-951, 2013
64. Barakat, T., Rooke, J.C., Genty, E., Cousin, R., Siffert, S., Su, B.-L.
Gold catalysts in environmental remediation and water-gas shift technologies
Energy and Environmental Science 6 (2), pp. 371-391, 2013

63. Rezaei, E., Soltan, J., Chen, N., Lin, J.
Effect of noble metals on activity of MnOx/ γ -alumina catalyst in catalytic ozonation of toluene
Chemical Engineering Journal 214, pp. 219-228, 2013
62. Delaigle, R., Eloy, P., Gaigneaux, E.M.
Influence of the impregnation order on the synergy between Ag and V 2O 5/TiO 2 catalysts in the total oxidation of Cl-aromatic VOC
Catalysis Today 192 (1), pp. 2-9, 2012
61. Scirè, S., Liotta, L.F.
Supported gold catalysts for the total oxidation of volatile organic compounds
Applied Catalysis B: Environmental 125, pp. 222-246, 2012.
60. Zanella, R., Rodríguez-González, V., Arzola, Y., Moreno-Rodríguez, A.
Au/Y-TiO₂ catalyst: High activity and long-term stability in CO oxidation
ACS Catalysis 2 (1), pp. 1-11, 2012.
59. Wu, H., Wang, L., Shen, Z., Zhao, J.
Catalytic oxidation of toluene and p-xylene using gold supported on Co₃O₄ catalyst prepared by colloidal precipitation method
Journal of Molecular Catalysis A: Chemical 351, pp. 188-195, 2011.
58. Garcia, T., Weng, W., Solsona, B., Carter, E., Carley, A.F., Kiely, C.J., Taylor, S.H.
The significance of the order of impregnation on the activity of vanadia promoted palladium-alumina catalysts for propane total oxidation
Catalysis Science and Technology 1 (8), pp. 1367-1375, 2011.
57. Jiang, X., Deng, H.
Synthesis of Au-CeO₂/SiO₂ catalyst via adsorbed-layer reactor technique combined with alcohol-thermal treatment
Applied Surface Science 257 (24), pp. 10883-10887, 2011.
56. Kalbasi Roozbeh Javad, Massah Ahmad Reza, Zamani Farzad, et al.
Metal (Co, Mn)-amine-functionalized mesoporous silica SBA-15: synthesis, characterization and catalytic properties in hydroxylation of benzene
JOURNAL OF POROUS MATERIALS 18 (4) Pages: 475-482, AUG 2011.
55. Sandoval Alberto; Aguilar Antonio; Louis Catherine; et al.
Bimetallic Au-Ag/TiO(2) catalyst prepared by deposition-precipitation: High activity and stability in CO oxidation
JOURNAL OF CATALYSIS 281 (1) Pages: 40-49, JUL 1 2011.
54. Luciani Silvia; Cavani Fabrizio; Dal Santo Vladimiro; et al.
The mechanism of surface doping in vanadyl pyrophosphate, catalyst for n-butane oxidation to maleic anhydride: The role of Au promoter
CATALYSIS TODAY 169 (1) Pages: 200-206, JUL 2011.
53. Wu, H., Wang, L., Zhang, J., Shen, Z., Zhao, J.
Catalytic oxidation of benzene, toluene and p-xylene over colloidal gold supported on zinc oxide catalyst
CATALYSIS COMMUNICATIONS 12 (10) Pages: 859-865, MAY 15 2011.
52. Einaga Hisahiro; Teraoka Yasutake; Ogata Atsushi
Benzene oxidation with ozone over manganese oxide supported on zeolite catalysts
CATALYSIS TODAY 164 (1) Pages: 571-574, APR 30 2011.
51. Solsona, B., Aylón, E., Murillo, R., Mastral, A.M., Monzonis, A., Agouram, S., Davies, T.E., (...), Garcia, T.
Deep oxidation of pollutants using gold deposited on a high surface area cobalt oxide prepared by a nanocasting route
JOURNAL OF HAZARDOUS MATERIALS 187 (1-3) Pages: 544-552, MAR 15 2011.
50. Li Ting-Yi; Chiang Shu-Jen; Liaw Biing-Jye; et al.
Catalytic oxidation of benzene over CuO/Ce(1-x)Mn(x)O(2) catalysts
APPLIED CATALYSIS B-ENVIRONMENTAL 103 (1-2) Pages: 143-148, MAR 14 2011.
49. Solsona, B., Garcia, T., Agouram, S., Hutchings, G.J., Taylor, S.H.
The effect of gold addition on the catalytic performance of copper manganese oxide catalysts for the total oxidation of propane
APPLIED CATALYSIS B-ENVIRONMENTAL 101 (3-4) Pages: 388-396, JAN 14 2011.
48. Hong, Y.-C., Sun, K.-Q., Han, K.-H., Liu, G., Xu, B.-Q.
Comparison of catalytic combustion of carbon monoxide and formaldehyde over Au/ZrO(2) catalysts
CATALYSIS TODAY 158 (3-4) Pages: 415-422, DEC 22 2010.
47. Li, W.B., Wang, J.X., Gong, H.
Catalytic combustion of VOCs on non-noble metal catalysts
Catalysis Today 148 (1-2), pp. 81-87 (2010).
46. Hernández, W.Y., Romero-Sarria, F., Centeno, M.A., Odriozola, J.A.
In situ characterization of the dynamic gold-support interaction over ceria modified Eu³⁺. Influence of the oxygen vacancies on the CO oxidation reaction
Journal of Physical Chemistry C 114 (24), pp. 10857-10865 (2010).
45. Einaga, H., Ogata, A.
Catalytic oxidation of benzene in the gas phase over alumina-supported silver catalysts

- Environmental Science and Technology 44 (7), pp. 2612-2617 (2010).
44. Hongjing, W., Qin, S., Zhenli, Z., Shenghong, H.
Complete benzene oxidation over colloidal gold catalysts supported on nanostructure zinc oxide
Advanced Materials Research 96, pp. 21-27 (2010).
43. Wu, HJ (Wu, Hongjing); Shuai, Q (Shuai, Qin); Zhu, ZL (Zhu, Zhenli); Hu, SH (Hu, Shenghong)
Complete Benzene Oxidation over Colloidal Gold Catalysts Supported on Nanostructure Zinc Oxide
ADVANCE IN ECOLOGICAL ENVIRONMENT FUNCTIONAL MATERIALS AND ION INDUSTRY Book Series: Advanced Materials Research Volume: 96 Pages: 21-27 DOI: 10.4028/www.scientific.net/AMR.96.21 Published: 2010
42. Li, WB (Li, W. B.); Wang, JX (Wang, J. X.); Gong, H (Gong, H.)
Catalytic combustion of VOCs on non-noble metal catalysts
CATALYSIS TODAY Volume: 148 Issue: 1-2 Pages: 81-87 DOI: 10.1016/j.cattod.2009.03.007 Published: OCT 30 2009
41. Hosseini, M, Siffert, S, Tidahy, HL, Cousin, R, Aboukais, A, De Weireld, G, Canet, X, Hadj-Sadok, Z, Su, BL
CHARACTERISATION OF NANOSTRUCTURED MACRO-MESOPOROUS TiO(2)-ZrO(2) IMPREGNATED BY NOBLE METALS FOR VOC OXIDATION
CHARACTERISATION OF POROUS SOLIDS VIII Book Series: ROYAL SOCIETY OF CHEMISTRY SPECIAL PUBLICATIONS Issue: 318 Pages: 225-232 Published: 2009
40. Song, C., Chen, M., Ma, Y., Ma, C, Zheng, X.
The effect of preparation parameters on the structure and catalytic performance of Ce-Pt-Pd/SSWM stainless steel wire mesh catalyst
Cailiao Yanjiu Xuebao/Chinese Journal of Materials Research 23 (5), pp. 508-512 (2009).
39. Ma, T.-Y., Cao, J.-L., Shao, G.-S., Zhang, X.-J., Yuan, Z.-Y.
Hierarchically structured squama-like cerium-doped titania: Synthesis, photoactivity, and catalytic CO oxidation
Journal of Physical Chemistry C 113 (38), pp. 16658-16667 (2009).
38. Hosseini, M., Siffert, S., Cousin, R., Aboukais, A., Hadj-Sadok, Z., Su, B.-L.
Total oxidation of VOCs on Pd and/or Au supported on TiO₂/ZrO₂ followed by "operando" DRIFT
Comptes Rendus Chimie 12 (6-7), pp. 654-659 (2009).
37. Einaga, H., Ogata, A.
Benzene oxidation with ozone over supported manganese oxide catalysts: Effect of catalyst support and reaction conditions
Journal of Hazardous Materials 164 (2-3), pp. 1236-1241 (2009).
36. Einaga, H., Harada, M., Ogata, A.
Relationship between the structure of manganese oxides on alumina and catalytic activities for benzene oxidation with ozone
Catalysis Letters 129 (3-4), pp. 422-427 (2009).
35. Delaigle, R., Debecker, D.P., Bertinchamps, F., Gaigneaux, E.M.
Revisiting the behaviour of vanadia-based catalysts in the abatement of (chloro)-aromatic pollutants: Towards an integrated understanding
Topics in Catalysis 52 (5), pp. 501-516 (2009).
34. Yang, S.M., Liu, D.M., Liu, S.Y.
Catalytic combustion of benzene over Au supported on ceria and vanadia promoted ceria
Topics in Catalysis 47 (3-4), pp. 101-108 (2008).
33. Silva, A.M., Farias, A.M.D.d., Costa, L.O.O., Barandas, A.P.M.G., Mattos, L.V., Fraga, M.A., Noronha, F.B.
Partial oxidation and water-gas shift reaction in an integrated system for hydrogen production from ethanol
Applied Catalysis A: General 334 (1), pp. 179-186 (2008)
32. Della Pina, C (Della Pina, Cristina); Dimitratos, N (Dimitratos, Nikolaos); Falletta, E (Falletta, Ermelinda); Rossi, M (Rossi, Michele); Siani, A (Siani, Attilio)
Catalytic performance of gold catalysts in the total oxidation of VOCs
GOLD BULLETIN Volume: 40 Issue: 1 Pages: 67-72 Published: 2007
31. Carabineiro, SAC (Carabineiro, Sonia A. C.); Thompson, DT (Thompson, David T.)
Catalytic Applications for Gold Nanotechnology
NANOCATALYSIS Book Series: Nanoscience and Technology Pages: 377-489 DOI: 10.1007/978-3-540-32646-5_6 Published: 2007
30. Sandoval, A., Gómez-Cortés, A., Zanella, R., Díaz, G., Saniger, J.M.
Gold nanoparticles: Support effects for the WGS reaction
Journal of Molecular Catalysis A: Chemical 278 (1-2), pp. 200-208 (2007)
29. Dos Santos, A.A., Lima, K.M.N., Figueiredo, R.T., Egues, S.M.D.S., Ramos, A.L.D.
Toluene deep oxidation over noble metals, Copper and Vanadium Oxides
Catalysis Letters 114 (1-2), pp. 59-63 (2007)
28. Cellier, C., Lambert, S., Gaigneaux, E.M., Poleunis, C., Ruaux, V., Eloy, P., Lahousse, C., (...), Grange, P.
Investigation of the preparation and activity of gold catalysts in the total oxidation of n-hexane
Applied Catalysis B: Environmental 70 (1-4), pp. 406-416 (2007)
27. Trudeau, M.L.
Nanostructured Materials for Gas Reactive Applications

26. Hutchings, GJ (Hutchings, Graham J.).
Reactions of Environmental Importance
CATALYSIS BY GOLD Book Series: Catalytic Science Series Volume: 6 Pages: 286-310 Published: 2006
25. Yuan, M.-H., Chang, C.-Y., Shie, J.-L., Du, W.-K., Lee, D.-J., Tsai, W.-T.
Catalytic oxidation of naphthalene using a Pt/Al₂O₃ catalyst with ozone
Proceedings of the Air and Waste Management Association's Annual Conference and Exhibition, AWMA 2, pp. 1135-1146 (2006)
24. Ahn HG, Choi BM, Lee DJ
Complete oxidation of ethylene over supported gold nanoparticle catalysts
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 6 (11): 3599-3603 NOV 2006
23. Solsona, B.E., Garcia, T., Jones, C., Taylor, S.H., Carley, A.F., Hutchings, G.J.
Supported gold catalysts for the total oxidation of alkanes and carbon monoxide
Applied Catalysis A: General 312 (1-2), pp. 67-76 (2006)
22. Ho, K.Y., Yeung, K.L.
Effects of ozone pretreatment on the performance of Au/TiO₂ catalyst for CO oxidation reaction
Journal of Catalysis 242 (1), pp. 131-141 (2006)
21. Grzybowska-Swierkosz B
Nano-Au/oxide support catalysts in oxidation reactions: Provenance of active oxygen species
CATALYSIS TODAY 112 (1-4): 3-7 MAR 15 2006
20. Einaga H, Futamura S
Oxidation behavior of cyclohexane on alumina-supported manganese oxides with ozone
APPLIED CATALYSIS B-ENVIRONMENTAL 60 (1-2): 49-55 SEP 1 2005
19. Alvim-Ferraz MCM, Gaspar CMTB
Impregnated active carbons to control atmospheric emissions: Influence of impregnation methodology and raw material on the catalytic activity
ENVIRONMENTAL SCIENCE & TECHNOLOGY 39 (16): 6231-6236 AUG 15 2005
18. Hua JM, Zheng Q, Zheng YH, et al.
Influence of modifying additives on the catalytic activity and stability of Au/Fe₂O₃-MO_x catalysts for the WGS reaction
CATALYSIS LETTERS 102 (1-2): 99-108 JUL 2005
17. Ruszel M, Grzybowska B, Gasior M, et al.
Effect of Au in V(2)O(5)/SiO₂ and MoO₃/SiO₂ catalysts on physicochemical and catalytic properties in oxidation of C-3 hydrocarbons and of CO
CATALYSIS TODAY 99 (1-2): 151-159 JAN 15 2005
16. Alvim-Ferraz MDM, Gaspar CMTB
Catalytic activity of active carbons impregnated before activation of pinewood sawdust and nutshells to be used on the control of atmospheric emissions
JOURNAL OF HAZARDOUS MATERIALS 119 (1-3): 135-143 MAR 17 2005
15. Garcia T, Solsona B, Murphy DM, et al.
Deep oxidation of light alkanes over titania-supported palladium/vanadium catalysts
JOURNAL OF CATALYSIS 229 (1): 1-11 JAN 1 2005
14. Wang, CM (Wang, CM); Shutthanandan, V (Shutthanandan, V); Zhang, Y (Zhang, Y); Baer, DR (Baer, DR); Thomas, LE (Thomas, LE); Thevuthasan, S (Thevuthasan, S)
Microstructure of precipitated Au nanoclusters in TiO₂
CONTINUOUS NANOPHASE AND NANOSTRUCTURED MATERIALS Book Series: MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS Volume: 788 Pages: 249-253 Published: 2004
13. Einaga H, Futamura S
Catalytic oxidation of benzene with ozone over alumina-supported manganese oxides
JOURNAL OF CATALYSIS 227 (2): 304-312 OCT 25 2004
12. Meyer R, Lemire C, Shaikhutdinov SK, et al.
Surface chemistry of catalysis by gold
GOLD BULLETIN 37 (1-2): 72-124 2004
11. Narayana KV, Raju BD, Masthan SK, et al.
ESR spectroscopic characterization of V₂O₅/AlF₃ ammoxidation catalysts
CATALYSIS COMMUNICATIONS 5 (8): 457-462 AUG 2004
10. Gasior M, Grzybowska B, Samson K, et al.
Oxidation of CO and C-3 hydrocarbons on gold dispersed on oxide supports
CATALYSIS TODAY 91-92: 131-135 JUL 15 2004

9. Wang CM, Zhang Y, Shutthanandan V, et al.
Microstructure of precipitated au nanoclusters in TiO₂
JOURNAL OF APPLIED PHYSICS 95 (12): 8185-8193 JUN 15 2004
 8. De M, Kunzru D
Oxidative dehydrogenation of propane on V₂O₅/ZrO₂ catalyst
CATALYSIS LETTERS 96 (1-2): 33-42 JUL 2004
 7. Einaga H, Futamura S
Comparative study on the catalytic activities of alumina-supported metal oxides for oxidation of benzene and cyclohexane with ozone
REACT KINET CATAL L 81 (1): 121-128 2004
 6. Alvim-Ferraz MCM, Gaspar CMTB
Active carbons impregnated before activation of olive stones: catalytic activity to remove benzene from gaseous emissions
J PHYS CHEM SOLIDS 65 (2-3): 655-659 FEB-MAR 2004
 5. Wang, C.M., Shutthanandan, V., Zhang, Y., Baer, D.R., Thomas, L.E., Thevuthasan, S.
Microstructure of precipitated Au nanoclusters in TiO₂
Materials Research Society Symposium - Proceedings 788, pp. 249-253 (2003)
 4. Fan L, Ichikuni N, Shimazu S, et al.
Preparation of Au/TiO₂ catalysts by suspension spray reaction method and their catalytic property for CO oxidation
APPL CATAL A-GEN 246 (1): 87-95 JUN 25 2003
 3. Dutta H, Pradhan SK
Microstructure characterization of high energy ball-milled nanocrystalline V₂O₅ by Rietveld analysis
MATER CHEM PHYS 77 (3): 868-877 JAN 30 2003
 2. Centeno MA, Paulis M, Montes M, et al.
Catalytic combustion of volatile organic compounds on Au/CeO₂/Al₂O₃ and Au/Al₂O₃ catalysts
APPL CATAL A-GEN 234 (1-2): 65-78 AUG 8 2002
 1. Gupta NM, Tripathi AK
The role of nanosized gold particles in adsorption and oxidation of carbon monoxide over Au/Fe₂O₃ catalyst
GOLD BULL 34 (4): 120-128 2001
32. *"About the possible diminution of the sp³ C presence along with the increase of the nitrogen enclosure in the CN_x thin films produced by reactive pulsed laser deposition"*
E. Gyorgy, I. N. Mihailescu, M. Baleva, E. P. Trifonova, M. Abrashev, V. Darakchieva, A. Zocco, and A. Perrone
J. Materials Science 36 (2001) 1951 - 1956.
33. *"Impact of MOCVD-GaN "templates" on the spatial non-uniformities of strain and doping distribution in hydride vapour phase epitaxial GaN"*
E. Valcheva, T. Paskova, M. V. Abrashev, P. A. O. Persson, P. P. Paskov, E. M. Goldys, R. Beccard, M. Heuken, and M. Monemar
Mater. Sci. Eng. B82 (2001) 35 - 38.
5. Matsubara, Tohoru; Denpo, Yusho; Okada, Narihito; et al.
V-shaped pits in HVPE-grown GaN associated with columnar inversion domains originating from foreign particles of alpha-Si₃N₄ and graphitic carbon
MICRON Volume: 94 Pages: 9-14 Published: MAR 2017
4. Meng, F.Y., Han, I., McFelea, H., Lindow, E., Bertram, R., Werkhoven, C., Arena, C., Mahajan, S.
Sapphire surface pits as sources of threading dislocations in hetero-epitaxial GaN layers
Scripta Materialia 65 (3), pp. 257-260, 2011.
3. Meng, F.Y., Han, I., McFelea, H., Lindow, E., Bertram, R., Werkhoven, C., Arena, C., Mahajan, S.
Structural evolution of GaN layers grown on (0 0 0 1) sapphire by hydride vapor phase epitaxy
JOURNAL OF CRYSTAL GROWTH 327 (1) Pages: 13-21, JUL 15 2011.
2. Dam, C.E.C., Grzegorzczak, A.P., Hageman, P.R., Larsen, P.K.
What makes good templates for HVPE GaN growth?
Materials Research Society Symposium Proceedings 892, pp. 737-741 (2006)
1. Dam, C.E.C., Grzegorzczak, A.P., Hageman, P.R., Larsen, P.K.
Method for HVPE growth of thick crack-free GaN layers
Journal of Crystal Growth 290 (2), pp. 473-478 (2006)
34. *"Investigations of the crystal distortions in perovskites using Raman spectroscopy"*
M. V. Abrashev, V. G. Ivanov and M. N. Iliev

35. *"Defect and stress relaxation in HVPE-GaN films using high temperature reactively sputtered AlN buffer"*

T. Paskova, E. Valcheva, J. Birch, S. Tungasmita, P. A. O. Persson, P. P. Paskov, S. Evtimova, M. Abrashev, and B. Monemar

J. Cryst. Growth 230, no. ER3-4 (2001) 381 - 386.

19. Epitaxial Growth of GaN on Magnetron Sputtered AlN/Hexagonal BN/Sapphire Substrates
Wu, JX (Wu, Jinxing) Li, PX (Li, Peixian) Xu, SR (Xu, Shengrui) Zhou, XW (Zhou, Xiaowei) Tao, HC (Tao, Hongchang) Yue, WK (Yue, Wenkai) Wang, YL (Wang, Yanli) Wu, JT (Wu, Jiangtao) Zhang, YC (Zhang, Yachao) Hao, Y (Hao, Yue)
MATERIALS Volume13 Issue22 Article Number5118 PublishedNOV 2020

18. Emergence of high quality sputtered III-nitride semiconductors and devices
Izyumskaya, N (Izyumskaya, N.) Avrutin, V (Avrutin, V) Ding, K (Ding, K.) Ozgur, U (Ozgur, U.) Morkoc, H (Morkoc, H.) Fujioka, H (Fujioka, H.)
SEMICONDUCTOR SCIENCE AND TECHNOLOGY Volume34 Issue9 Article Number093003 PublishedSEP 2019

17. AlN gradient interlayer design for the growth of high-quality AlN epitaxial film on sputtered AlN/sapphire substrate
Tan, B (Tan, Bo) Hu, JH (Hu, Jiahui) Zhang, J (Zhang, Jun) Zhang, Y (Zhang, Yi) Long, HL (Long, Hanling) Chen, JW (Chen, Jingwen) Du, SD (Du, Shida) Dai, JN (Dai, Jiangnan) Chen, CQ (Chen, Changqing) Xu, JT (Xu, Jintong)
CRYSTENGCOMM Volume20 Issue41 Page6557-6564 PublishedNOV 7 2018

16. Wang, Jiaxing; Chen, Zhen; Xing, Yuchen; et al.
The influences of sputtered AlN buffer layer on AlInGaN based blue and near-ultraviolet light emitting diodes
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE Volume: 214 (6) Article No: 1600714 Published: JUN 2017

15. Redkov, A.V., Kukushkin, S.A.
Surface defects formation on strained thin films growing via chemical reaction: a model
Journal of Physics Conference Series Volume: 643 Article Number: 012005 DOI: 10.1088/1742-6596/643/1/012005 Published: 2015

14. Chen, Y. A.; Kuo, C. H.; Wu, J. P.; et al.
Interruption-free growth of 10 μ m-thick GaN film prepared on sputtered AlN/PSS template by hydride vapor phase epitaxy
JOURNAL OF CRYSTAL GROWTH Volume: 426 Pages: 180-185 Published: SEP 15 2015

13. Kong, W.; Jiao, W. Y.; Li, J. C.; et al.
Effect of strain in sputtered AlN buffer layers on the growth of GaN by molecular beam epitaxy
APPLIED PHYSICS LETTERS Volume: 107 Issue: 3 Article Number: 032102 Published: JUL 20 2015

12. Oda, O.
Nitride and Other III-V Compounds
COMPOUND SEMICONDUCTOR BULK MATERIALS AND CHARACTERIZATIONS, VOL 2 Pages: 27-125 Published: 2012

11. Long, H., Yu, T.J., Fang, H., Yang, Z.J., Zhang, G.Y.
Modulation of anisotropic crystalline in a-plane GaN on HT-AlN buffer layer
Applied Surface Science 258 (15), 5579-5582, 2012.

10. Weyher, J.L., Ucznik, B., Grzegory, I., Smalc-Koziorowska, J., Paskova, T.
Revealing extended defects in HVPE-grown GaN
JOURNAL OF CRYSTAL GROWTH 312 (18) Pages: 2611-2615, SEP 1 2010.

9. Matoussi, A., Ben Nasr, F., Boufaden, T., Salh, R., Fakhfakh, Z., Guermazi, S., ElJani, B., Fitting, H.-J.
Luminescent properties of GaN films grown on porous silicon substrate
Journal of Luminescence 130 (3), pp. 399-403 (2010).

8. Li, X., Qiu, K., Zhong, F., Yin, Z., Ji, C., Wang, Y.
Preparation of porous GaN buffer and its influence on the residual stress of GaN epilayers grown by hydride vapor phase epitaxy
Journal of Materials Science and Technology 23 (4), pp. 574-576 (2007)

7. Medjani, F., Sanjinés, R., Allidi, G., Karimi, A.
Effect of substrate temperature and bias voltage on the crystallite orientation in RF magnetron sputtered AlN thin films
Thin Solid Films 515 (1), pp. 260-265 (2006)

6. Zhang JX, Cheng H, Chen YZ, et al.
Growth of AlN films on Si(100) and Si(111) substrates by reactive magnetron sputtering
SURFACE & COATINGS TECHNOLOGY 198 (1-3): 68-73 AUG 1 2005

5. Mynbaeva MG, Mynbaev KD, Sarua A, et al.
Porous GaN/SiC templates for homoepitaxial growth: effect of the built-in stress on the formation of porous structures
SEMICONDUCTOR SCIENCE AND TECHNOLOGY 20 (1): 50-55 JAN 2005

4. Zhang JX, Chen YZ, Cheng H, et al.

- Interface study of AlN grown on Si substrates by radio-frequency magnetron reactive sputtering
THIN SOLID FILMS 471 (1-2): 336-341 JAN 3 2005
3. Nouet G, Ruterana P, Chen J, et al.
Characterization of thick HVPE GaN films
SUPERLATTICES AND MICROSTRUCTURES 36 (4-6): 417-424 OCT-DEC 2004
2. Starikov, E., Gruinskis, V., Shiktorov, P.
Strain evolution in high temperature AlN buffer layers for HVPE-GaN growth
2002 Physica Status Solidi (A) Applied Research 190 (1), pp. 59-64
1. Wrobel, J.M., Placzek-popko, E., Dubowski, J.J., Tang, H., Webb, J.B.
A photoluminescence study of laser ablated gallium nitride thin films
Proceedings of SPIE - The International Society for Optical Engineering 4637, pp. 82-89 (2002)
36. *"Raman spectroscopy of the charge- and orbital-ordered state in La_{0.5}Ca_{0.5}MnO₃"*
M. V. Abrashev, J. Bäckström, L. Börjesson, M. Pissas, N. Kolev, and M. N. Iliev
Phys. Rev. B 64 (2001) 144429.
57. Structural-distortion modes and transport properties of La_{0.5}Ca_{0.5}MnO₃ by co-doping Dy³⁺ and Sr²⁺ ions
Tang, Y.F., Zhang, A.M., Shi, J.Y., Wu, X.S.
Ceramics International 46(8), pp. 10598-10602 (2020)
56. Influence of trivalent lanthanides substitution on the thermoelectric properties of nanostructured Ca_{1-x}Ln_{3+x}MnO_{3-δ} (Ln³⁺ = Sm, Ce, La; x = 0, 0.1)
Mary, S.B., Rajesh, A.L.
Journal of Materials Science: Materials in Electronics 31(8), pp. 6479-6487 (2020)
55. Backfolded acoustic phonons as ultrasonic probes in metal-oxide superlattices
Lyzwa, F., Chan, A., Khmaladze, J., (...), Minola, M., Mallett, B.P.P.
Physical Review Materials 4(4), 043606 (2020)
54. Optical Study of the Electronic Structure and Lattice Dynamics of NdBaMn₂O₆ Single Crystals
Mero, R.D., Ogawa, K., Yamada, S., Liu, H.-L.
Scientific Reports 9(1), 18164 (2019)
53. Phase separation and local lattice distortions analysis of charge-ordered manganese films La_{1-x}CaxMnO_{3-δ} by Raman spectroscopy
Trotsenko, V.G., Lahmar, A., Lyanguzov, N.V., El Marssi, M., Torgashev, V.I.
Superlattices and Microstructures 127, pp. 100-108 (2019)
52. Effects of A-site cation disordering on the transport properties of half-doping La_{0.5}Ca_{0.5}MnO₃ manganites
Shi, J.Y., Zhang, A.M., Wang, W.X., (...), Zhang, W.J., Wu, X.S.
Chemical Physics Letters 706, pp. 223-227 (2018)
51. Superconductor sandwiches: Cuprate-manganite multilayers with a remarkable new ground state
Mallett, B.P.P., Marsik, P., Khmaladze, J., (...), Simpson, M.C., Bernhard, C.
Proceedings of SPIE - The International Society for Optical Engineering 10533, 105330Y (2018)
50. Raman Scattering as a tool for studying complex materials (Book Chapter)
Cooper, S.L., Abbamonte, P., Mason, N., (...), Casa, D., Gan, Y.
Optical Techniques for Solid-State Materials Characterization pp. 193-234 (2016)
49. Mishra, Dileep K.; Sathe, V. G.; Rawat, R.; et al.
Controlling phase separation in La_{5/8-y}PryCa_{3/8}MnO₃ (y=0.45) epitaxial thin films by strain disorder
APPLIED PHYSICS LETTERS Volume: 106 Issue: 7 Article Number: 072401 Published: FEB 16 2015
48. Panda, S., Purohit, P.K., Rout, G.C.
Study of Ferromagnetism Through Electron Self-Energy of Charge Ordered Manganites
ADVANCED SCIENCE LETTERS Volume: 20 Issue: 3-4 Special Issue: SI Pages: 643-646 DOI: 10.1166/asl.2014.5373 Published: MAR-APR 2014
47. Norpoth, Jonas; Mildner, Stephanie; Scherff, Malte; et al.
In situ TEM analysis of resistive switching in manganite based thin-film heterostructures
NANOSCALE 6 (16), 9852-9862 AUG 21 2014
46. Gasparov, L.; Jegorel, T.; Loetgering, L.; et al.
Thin film substrates from the Raman spectroscopy point of view
JOURNAL OF RAMAN SPECTROSCOPY 45 (6), pp. 465-469 JUN 2014
45. Chaturvedi, Aditi; Sathe, V. G.
Raman spectroscopy and X-ray diffraction study of PrMnO₃ oriented thin films deposited on LaAlO₃ and SrTiO₃ substrates
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 344, 230-234, OCT 2013
44. Foerst, M.; Mankowsky, R.; Bromberger, H.; et al.

- Displacive lattice excitation through nonlinear phononics viewed by femtosecond X-ray diffraction
SOLID STATE COMMUNICATIONS 169, 24-27, SEP 2013
43. Chou, Ta-Lei; Lee, Jenn-Min; Chen, Shin-An; et al.
Pressure and Temperature Dependence of Local Structure and Electronic Structure of Orthorhombic DyMnO₃
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN 82 (6), 064708, JUN 2013
42. Nikolaev, S. A.; Mazurenko, V. G.; Rudenko, A. N.
Influence of magnetic order on phonon spectra of multiferroic orthorhombic YMnO₃
SOLID STATE COMMUNICATIONS 164, 16-21, JUN 2013
41. Choi, Sun Gyu; Lee, Hong-Sub; Yeom, Geun Young; et al.
Investigation of the Properties of Ba-Substituted La_{0.7}Sr_{0.3-x} Ba (x) MnO₃ Perovskite Manganite Films for Resistive Switching Applications
JOURNAL OF ELECTRONIC MATERIALS 42 (6), 1196-1201, JUN 2013
40. Phong, P.T., Jang, S.J., Huy, B.T., Lee, Y.-I., Lee, I.-J.
Structural, magnetic, infrared and Raman studies of La_{0.8}Sr_x Ca_{0.2-x} MnO₃ ($0 \leq x \leq 0.2$)
Journal of Materials Science: Materials in Electronics 24 (7) , pp. 2292-2301, 2013
39. Dodiya, N., Yogi, A., Varshney, D.
Low temperature Raman spectra of rhombohedral La_{0.925}Na_{0.075}MnO₃
AIP Conference Proceedings 1512 , pp. 798-799, 2013
38. Dodiya, N., Varshney, D.
Structural properties and Raman spectroscopy of rhombohedral La_{1-x}NaxMnO₃ ($0.075 \leq x \leq 0.15$)
Journal of Molecular Structure 1031 , pp. 104-109, 2013
37. Cooper, S.L., Abbamonte, P., Mason, N.; Snow, C.S., Kim, M., Barath, H.; Karpus, J.F.
RAMAN SCATTERING AS A TOOL FOR STUDYING COMPLEX MATERIALS
OPTICAL TECHNIQUES FOR SOLID-STATE MATERIALS CHARACTERIZATION Pages: 193-234 Published: 2012
36. Ravindra, A.V., Padhan, P., Prellier, W.
Electronic structure and optical band gap of CoFe₂O₄ thin films
Applied Physics Letters 101 (16), art. no. 161902, 2012
35. Kuznetsova T. G.; Sadykov V. A.; Lunin V. V.
Nanocomposite Structure and Reactivity of Perovskites Based on Lanthanum Manganites
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A 86 (4), 606-620, APR 2012.
34. Laverdiere J.; Jandl S.; Fournier P.
Colossal magnetoresistance of Nd(2/3)Sr(1/3)MnO(3) ultrathin films grown on charge-ordered Nd(1/2)Ca(1/2)MnO(3) manganite
PHYSICAL REVIEW B 84 (10) Article Number: 104434, SEP 19 2011.
33. Antonakos A.; Liarokapis E.; Aydogdu G. H.; et al.
Strain induced phase separation on La(0.5)Ca(0.5)MnO(3) thin films
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 323 (5) Pages: 620-630, MAR 2011.
32. Truong, K.D., Singh, M.P., Jandl, S., Fournier, P.
Investigation of phonon behavior in Pr(2)NiMnO(6) by micro-Raman spectroscopy
JOURNAL OF PHYSICS-CONDENSED MATTER 23 (5) Article Number: 052202, FEB 9 2011.
31. Liu Xue-Qin; Han Guo-Jian; Huang Chun-Kui; et al.
Thickness dependence of microstructure for La(0.9)Sr(0.1)MnO(3)/Si films determined by micro-Raman spectroscopy
ACTA PHYSICA SINICA 58 (11) Pages: 8008-8013, NOV 2009.
30. Mansouri, S., Charpentier, S., Jandl, S., Fournier, P., Mukhin, A.A., Ivanov, V.Yu., Balbashov, A.
A micro-Raman study of a Pr_{0.5}Ca_{0.5}MnO₃ single crystal and thin films
Journal of Physics Condensed Matter 21 (38), art. no. 386004 (2009).
29. Matsuzaki, H., Uemura, H., Matsubara, M., Kimura, T., Tokura, Y., Okamoto, H.
Detecting charge and lattice dynamics in photoinduced charge-order melting in perovskite-type manganites using a 30-femtosecond time resolution
Physical Review B - Condensed Matter and Materials Physics 79 (23), art. no. 235131 (2009).
28. Lampakis, D., Antonakos, A., Liarokapis, E., Filippi, M., Prellier, W.
Pressure induced insulator-metal phase transition on Pr_{0.6}Ca_{0.4}MnO₃ thin films
Journal of Physics Conference Series Volume: 121 Article Number: 052002 DOI: 10.1088/1742-6596/121/5/052002 Published: 2008
27. Antonakos, A., Palles, D., Liarokapis, E., Filippi, M., Prellier, W.
Evaluation of the strains in charge-ordered Pr_{1-x}Ca_xMnO₃ thin films using Raman spectroscopy
Journal of Applied Physics 104 (6), art. no. 063508 (2008).
26. Kim, M., Barath, H., Cooper, S.L., Abbamonte, P., Fradkin, E., Rübhausen, M., Zhang, C.L., Cheong, S.-W.
Raman scattering studies of the temperature- and field-induced melting of charge order in La_xPr_{1-x}Ca_{1-x}yMnO₃
Physical Review B - Condensed Matter and Materials Physics 77 (13), art. no. 134411 (2008).

25. Antonakos A, Lampakis D, Palles D, et al.
Low temperature micro-Raman measurements under magnetic field of $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ thin films
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 310 (2), pp. 2164-2166 (2007)
24. Wu, L., Klie, R.F., Zhu, Y., Jooss, Ch.
Experimental confirmation of Zener-polaron-type charge and orbital ordering in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$
Physical Review B - Condensed Matter and Materials Physics 76 (17), art. no. 174210 (2007)
23. Antonakos, A., Liarokapis, E., Aydogdu, G.H., Habermeier, H.-U.
Strain effects on $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
Materials Science and Engineering B: Solid-State Materials for Advanced Technology 144 (1-3), pp. 83-88 (2007)
22. Truong, K.D., Laverdière, J., Singh, M.P., Jandl, S., Fournier, P.
Impact of Co Mn cation ordering on phonon anomalies in $\text{La}_2\text{CoMnO}_6$ double perovskites: Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 76 (13), art. no. 132413 (2007)
21. Jooss, Ch., Wu, L., Beetz, T., Klie, R.F., Beleggia, M., Schofield, M.A., Schramm, S., (...), Zhu, Y.
Polaron melting and ordering as key mechanisms for colossal resistance effects in manganites
Proceedings of the National Academy of Sciences of the United States of America 104 (34), pp. 13597-13602 (2007)
20. Kawasaki, T., Ogimoto, Y., Ogawa, N., Miyano, K., Tamaru, H., Izumi, M.
Charge- and orbital-ordering patterns in $\text{Bi}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ thin films studied by Raman scattering
Journal of Applied Physics 101 (12), art. no. 123714 (2007)
19. Kozlenko, D.P., Dubrovinsky, L.S., Goncharenko, I.N., Savenko, B.N., Voronin, V.I., Kiselev, E.A., Proskurnina, N.V.
Pressure-induced monoclinic distortion and charge and orbital ordering in $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$
Physical Review B - Condensed Matter and Materials Physics 75 (10), art. no. 104408 (2007)
18. Antonakos, A., Lampakis, D., Palles, D., Liarokapis, E., Prellier, W., Mercey, B.
Low temperature micro-Raman measurements under magnetic field of $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ thin films
Journal of Magnetism and Magnetic Materials 310 (2 SUPPL. PART 3), pp. 2164-2166 (2007)
17. Huang, S., Ruan, K., Pang, Z., Lv, Z., Wu, H., Shen, Z., Cao, L., Li, X.
Molecular vibrations of the layered-perovskite cobalt oxides characterized by infrared and Raman spectroscopies coupled with crystal structure refinement
Solid State Communications 141 (3), pp. 150-155 (2007)
16. Charpentier, S., Gill-Comeau, M., Jandl, S., Fournier, P.
Observation of charge ordering by Raman scattering in $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
Journal of Physics Condensed Matter 18 (31), art. no. 014, pp. 7193-7202 (2006)
15. Jandl S, Mukhin AA, Ivanov VY, et al.
Micro-Raman study and phase transitions of $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$
JOURNAL OF PHYSICS-CONDENSED MATTER 18 (5): 1667-1676 FEB 8 2006
14. Gozar, A., Koomiya, S., Ando, Y., Blumberg, G.
Magnetic and charge correlations in $\text{La}_{2-x-y}\text{Nd}_y\text{Sr}_x\text{CuO}_3$: Raman scattering study
Frontiers in Magnetic Materials 755-789 DOI: 10.1007/3-540-27284-4_24 (2005)
13. Polychronopoulou K, Galisteo FC, Granados ML, et al.
Novel Fe-Mn-Zn-Ti-O mixed-metal oxides for the low-temperature removal of H_2S from gas streams in the presence of H_2 , CO_2 , and H_2O
JOURNAL OF CATALYSIS 236 (2): 205-220 DEC 10 2005
12. Asselin S, Jandl S, Fournier P, et al.
Resonant micro-Raman study of $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$
JOURNAL OF PHYSICS-CONDENSED MATTER 17 (34): 5247-5254 AUG 31 2005
11. Lim D, Thorsmolle VK, Averitt RD, et al.
Coherent optical and acoustic phonon generation correlated with the charge-ordering phase transition in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$
PHYSICAL REVIEW B 71 (13): Art. No. 134403 APR 2005
10. Xiong YM, Wang GY, Luo XG, et al.
Magnetotransport properties in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.33, 0.5$) thin films deposited on different substrates
JOURNAL OF APPLIED PHYSICS 97 (8): Art. No. 083909 APR 15 2005
9. Xiong YM, Chen T, Wang GY, et al.
Raman spectra in epitaxial thin films of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.33, 0.5$) grown on different substrates
PHYSICAL REVIEW B 70 (9): Art. No. 094407 SEP 2004
8. Tatsi A, Papadopoulou EL, Lampakis D, et al.
Raman study in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
ACTA PHYS POL A 105 (1-2): 99-106 JAN-FEB 2004
7. Gnezdilov VP, Yermenko AV, Pashkevich YG, et al.

Phonon Raman scattering in $\text{LaMn}_{1-x}\text{Co}_x\text{O}_3$ ($x = 0, 0.2, 0.3, 0.4$, and 1.0)
LOW TEMP PHYS+ 29 (11): 963-966 NOV 2003

6. Tatsi A, Papadopolou EL, Lampakis D, et al.
Raman study of anharmonic effects in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
PHYS REV B 68 (2): Art. No. 024432 JUL 1 2003

5. Kuroe H, Habu I, Sakuta A, et al.
Optical study in the charge-ordered phase of $(\text{Nd}_{1-x}\text{Sr}_x)\text{MnO}_3$
PHYSICA B 329: 822-823 Part 2 MAY 2003

4. Choi KY, Lemmens P, Guntherodt G, et al.
Raman scattering study of $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x = 0.3, 0.5$)
J PHYS-CONDENS MAT 15 (19): 3333-3342 MAY 21 2003

3. Takenaka K, Okuyama S, Sugai S, et al.
Optical reflectivity spectra measured on cleaved surfaces of $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$
J PHYS SOC JPN 71 (12): 3065-3068 DEC 2002

2. Gorbenko OY, Graboy IE, Amelichev VA, et al.
The structure and properties of Mn_3O_4 thin films grown by MOCVD
SOLID STATE COMMUN 124 (1-2): 15-20 2002

1. Naler S, Rubhausen M, Yoon S, et al.
Lattice dynamics and charge ordering in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($0.45 \leq x \leq 0.76$)
PHYS REV B 65 (9): art. no. 092401 MAR 1 2002

37. *"Raman phonons and Jahn-Teller bands in perovskite-like manganites"*

Milko N. Iliev and Miroslav V. Abrashev

J. Raman Spectrosc. 32 (2001) 805 - 811.

120. Epitaxial LaMnO_3 films with remarkably fast oxygen transport properties at low temperature
Rodriguez-Lamas, R (Rodriguez-Lamas, Raquel) Pirovano, C (Pirovano, Caroline) Stangl, A (Stangl, Alexander) Pla, D (Pla, Dolors)
Jonsson, R (Jonsson, Ragnar) Rapenne, L (Rapenne, Laetitia) Sarigiannidou, E (Sarigiannidou, Eirini) Nuns, N (Nuns, Nicolas) Roussel, H (Roussel, Herve) Chaix-Pluchery, O (Chaix-Pluchery, Odette)
JOURNAL OF MATERIALS CHEMISTRY A DOI10.1039/d0ta12253j Early AccessMAY 2021

119. Structural and magnetic properties of yttrium-substituted $\text{La}_{0.6-x}\text{Y}_x\text{Sr}_{0.4}\text{MnO}_3$ ($x=0-0.3$)
Hosseininejad, SS (Hosseininejad, S. S.) Ehsani, MH (Ehsani, M. H.) Esmaili, S (Esmaili, S.)
CERAMICS INTERNATIONAL Volume47 Issue8 Page11536-11546 PublishedAPR 15 2021

118. Spray-Flame Synthesis of $\text{LaMnO}_3+\delta$ Nanoparticles for Selective CO Oxidation (SELOX)
Angel, S (Angel, Steven) Tapia, JD (Tapia, Juan David) Gallego, J (Gallego, Jaime) Hagemann, U (Hagemann, Ulrich) Wiggers, H (Wiggers, Hartmut)
ENERGY & FUELS Volume35 Issue5 Page4367-4376 PublishedMAR 4 2021

117. Polaronic Contributions to Friction in a Manganite Thin Film
Weber, NA (Weber, Niklas A.) Schmidt, H (Schmidt, Hendrik) Sievert, T (Sievert, Tim) Jooss, C (Jooss, Christian) Guthoff, F (Guthoff, Friedrich) Moshneaga, V (Moshneaga, Vasily) Samwer, K (Samwer, Konrad) Kruger, M (Krueger, Matthias) Volkert, CA (Volkert, Cynthia A.)
ADVANCED SCIENCE Volume8 Issue8 Article Number2003524 PublishedAPR 2021

116. Manipulating the Raman scattering rotation via magnetic field in an MoS_2 monolayer
Wan, Y (Wan, Yi) Cheng, X (Cheng, Xing) Li, YF (Li, Yanfang) Wang, YQ (Wang, Yaqian) Du, YP (Du, Yongping) Zhao, YB (Zhao, Yibin) Peng, B (Peng, Bo) Dai, L (Dai, Lun) Kan, EJ (Kan, Erjun)
RSC ADVANCES Volume11 Issue7 Page4035-4041 PublishedJAN 29 2021

115. Structural, optical, and low-temperature resistivity of Ca-doped PrMnO_3 nanoparticles
Kumar, S (Kumar, Satyam) Ram, I (Ram, Indrasen) Kumar, A (Kumar, Aditya) Kumar, U (Kumar, Upendra)
EMERGENT MATERIALS Volume3 Issue5 Page595-604 PublishedOCT 2020

114. Physical investigations on $\text{LaMn}_{(1-x)}\text{Ni}_x\text{O}_3$ perovskite sprayed thin films along with surface magnetic applications
Gharbi, B (Gharbi, B.) Boukhachem, A (Boukhachem, A.) Amlouk, M (Amlouk, M.) Oueslati, M (Oueslati, M.) Dkhil, B (Dkhil, B.) Meftah, A (Meftah, A.)
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume126 Issue8 Article Number604 PublishedJUL 11 2020

113. Surface Conditions That Constrain Alkane Oxidation on Perovskites
Koch, G (Koch, Gregor) Havecker, M (Havecker, Michael) Teschner, D (Teschner, Detre) Carey, SJ (Carey, Spencer J.) Wang, YQ (Wang, Yuanqing) Kube, P (Kube, Pierre) Hetaba, W (Hetaba, Walid) Lunkenbein, T (Lunkenbein, Thomas) Auffermann, G (Auffermann, Gudrun) Timpe, O (Timpe, Olaf)
ACS CATALYSIS Volume10 Issue13 Page7007-7020 PublishedJUL 2 2020

112. Particle dispersion and lattice distortion induced magnetic behavior of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskite nanoparticles grown by salt-assisted solid-state synthesis

- Ortiz-Quinonez, JL (Ortiz-Quinonez, Jose-Luis) Garcia-Gonzalez, L (Garcia-Gonzalez, Lorena) Cancino-Gordillo, FE (Enrique Cancino-Gordillo, Francisco) Pal, U (Pal, Umapada)
MATERIALS CHEMISTRY AND PHYSICS Volume246 Article Number122834 PublishedMAY 1 2020
111. Enhanced ferromagnetism and conductivity in epitaxial LaMnO₃ thin films by oxygen-atmosphere annealing
Sun, QC (Sun, Qinchao) Luo, X (Luo, Xin) Xia, QT (Xia, Qingtao) Guo, YF (Guo, Yunfeng) Su, J (Su, Jie) Li, Q (Li, Qiang) Miao, GX (Miao, Guoxing)
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume499 Article Number166317 PublishedAPR 1 2020
110. Effect of Magnetic Ordering on Phonon Raman Spectra in Magnetic Systems
Swami, J., Dixit, A., Tiwari, B.
Springer Proceedings in Physics 236, pp. 289-299 (2019)
109. Polaronic Emergent Phases in Manganite-Based Heterostructures
Moshnyaga, V (Moshnyaga, Vasily) Samwer, K (Samwer, Konrad)
CRYSTALS Volume9 Issue10 Article Number489 PublishedOCT 2019
108. Frequency-dependent ferro-antiferro phase transition and internal bias field influenced piezoelectric response of donor and acceptor doped bismuth sodium titanate ceramics
Verma, R (Verma, Rolly) Rout, SK (Rout, S. K.)
JOURNAL OF APPLIED PHYSICS Volume126 Issue9 Article Number094103 PublishedSEP 7 2019
107. Self-doped La_{1-x}MnO_{3+delta} perovskites: Electron state hybridization and Raman modes
Ulyanov, AN (Ulyanov, A. N.) Sidorov, AV (Sidorov, A., V) Pismenova, NE (Pismenova, N. E.) Goodilin, EA (Goodilin, E. A.) Savilov, SV (Savilov, S., V)
SOLID STATE SCIENCES Volume94 Page41-44 PublishedAUG 2019
106. Jahn-Teller reconstructed surface of the doped manganites shown by means of surface-enhanced Raman spectroscopy
Merten, S (Merten, S.) Bruchmann-Bamberg, V (Bruchmann-Bamberg, V) Damaschke, B (Damaschke, B.) Samwer, K (Samwer, K.)
Moshnyaga, V (Moshnyaga, V)
PHYSICAL REVIEW MATERIALS Volume3 Issue6 Article Number060401 PublishedJUN 28 2019
105. Electric field and temperature induced local polarization switching and piezoresponse in Bi_{0.88}Sm_{0.12}FeO₃ ceramics for nanoscale applications
Anthoniappen, J (Anthoniappen, Jesuraj) Chang, WS (Chang, Wei Sea) Ruiz, FM (Ruiz, Flora Mae) Tu, CS (Tu, Chi-Shun) Blaise, CT (Blaise, Carvyn Tutong) Chen, PY (Chen, Pin-Yi) Chen, CS (Chen, Cheng-Sao) Mana-ay, H (Mana-ay, Haidee)
JOURNAL OF ALLOYS AND COMPOUNDS Volume790 Page587-596 PublishedJUN 25 2019
104. Microscopic Mechanisms of Local Interfacial Resistive Switching in LaMnO_{3+delta}
Meunier, B (Meunier, Benjamin) Pla, D (Pla, Dolors) Rodriguez-Lamas, R (Rodriguez-Lamas, Raquel) Boudard, M (Boudard, Michel) Chaix-Pluchery, O (Chaix-Pluchery, Odette) Martinez, E (Martinez, Eugenie) Chevalier, N (Chevalier, Nicolas) Jimenez, C (Jimenez, Carmen) Burriel, M (Burriel, Monica) Renault, O (Renault, Olivier)
ACS APPLIED ELECTRONIC MATERIALS Volume1 Issue5 Page675-683 PublishedMAY 2019
103. Phase separation and local lattice distortions analysis of charge-ordered manganese films La_{1-x}CaxMnO_{3-delta} by Raman spectroscopy
Trotsenko, VG (Trotsenko, V. G.) Lahmar, A (Lahmar, A.) Lyanguzov, NV (Lyanguzov, N. V.) El Marssi, M (El Marssi, M.) Torgashev, VI (Torgashev, V. I.)
SUPERLATTICES AND MICROSTRUCTURES Volume127 Page100-108 PublishedMAR 2019
102. Integration of LaMnO_{3+delta} films on platinized silicon substrates for resistive switching applications by PI-MOCVD
Rodriguez-Lamas, R (Rodriguez-Lamas, Raquel) Plat, D (Plat, Dolors) Chaix-Pluchery, O (Chaix-Pluchery, Odette) Meunier, B (Meunier, Benjamin) Wilhelm, F (Wilhelm, Fabrice) Rogalev, A (Rogalev, Andrei) Rapenne, L (Rapenne, Laetitia) Mescot, X (Mescot, Xavier) Rafhay, Q (Rafhay, Quentin) Roussel, H (Roussel, Herve)
BEILSTEIN JOURNAL OF NANOTECHNOLOGY Volume10 Page389-398 PublishedFEB 7 2019
101. Composition and thermal structural evolution in Pr modified bismuth ferrite near the morphotropic phase boundary
Tu, CS (Tu, Chi-Shun) Chen, CS (Chen, Cheng-Sao) Chen, PY (Chen, Pin-Yi) Hsieh, YL (Hsieh, Yi Lin) Chien, RR (Chien, R. R.) Schmidt, VH (Schmidt, V. Hugo) Feng, KC (Feng, Kuei-Chih) Chang, HW (Chang, Huang-Wei)
JOURNAL OF ALLOYS AND COMPOUNDS Volume768 Page903-913 PublishedNOV 5 2018
100. Synthesis and characterization of Sr_{1-x}LaxMnO₃/SiOC nanocomposites decorated with 1D nanostructures for high temperature CO₂ splitting
Casado, E (Casado, Eva) Garcia, B (Garcia, Beatriz) Tamayo, A (Tamayo, Aitana)
CERAMICS INTERNATIONAL Volume44 Issue15 Page18585-18594 PublishedOCT 15 2018
99. The Jahn-Teller distortion influenced ferromagnetic order in Pr_{1-x}LaxMnO₃
He, FF (He, Feifei) Mao, ZQ (Mao, Zhongquan) Tang, LY (Tang, Lingyun) Zhang, J (Zhang, Jiang) Chen, X (Chen, Xi)
SOLID STATE COMMUNICATIONS Volume274 Page21-26 PublishedJUN 2018
98. An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes
Chen, Y (Chen, Yu) Yoo, S (Yoo, Seonyoung) Li, XX (Li, Xiayi) Ding, D (Ding, Dong) Pei, K (Pei, Kai) Chen, DC (Chen, Dongchang) Ding, Y (Ding, Yong) Zhao, BT (Zhao, Bote) Murphy, R (Murphy, Ryan) Deglee, B (Deglee, Ben)
NANO ENERGY Volume47 Page474-480 PublishedMAY 2018
97. Suppression of the cooperative Jahn-Teller distortion and its effect on the Raman octahedra-rotation modes of TbMn_{1-x}FexO₃

- Vilarinho, R (Vilarinho, R.) Passos, DJ (Passos, D. J.) Queiros, EC (Queiros, E. C.) Tavares, PB (Tavares, P. B.) Almeida, A (Almeida, A.) Weber, MC (Weber, M. C.) Guennou, M (Guennou, M.) Kreisel, J (Kreisel, J.) Moreira, JA (Agostinho Moreira, J.)
PHYSICAL REVIEW B Volume97 Issue14 Article Number144110 PublishedAPR 19 2018
96. Characterization of B site codoped LaFeO₃ nanoparticles prepared via co-precipitation route
Varandili, SB (Varandili, Seyedeh Behnaz) Babaei, A (Babaei, Alireza) Ataie, A (Ataie, Abolghasem)
RARE METALS Volume37 Issue3 Page181-190 PublishedMAR 2018
95. Fabrication of Ca-Mn-Nb-O compounds and their structural, electrical, magnetic and thermoelectric properties
Oz, E (Oz, E.) Demirel, S (Demirel, S.) Altin, S (Altin, S.) Altin, E (Altin, E.) Baglayan, O (Baglayan, O.) Bayri, A (Bayri, A.) Avci, S (Avci, S.)
MATERIALS RESEARCH EXPRESS Volume5 Issue3 Article Number036304 PublishedMAR 2018
94. Nano-structured Pd doped LaFe(Co)O₃ perovskite, synthesis, characterization and catalytic behavior
Varandili, SB (Varandili, Seyedeh Behnaz) Babaei, A (Babaei, Alireza) Ataie, A (Ataie, Abolghasem) Khodadadi, AA (Khodadadi, Abbas Ali) Kazerooni, H (Kazerooni, Hossein)
MATERIALS CHEMISTRY AND PHYSICS Volume205 Page228-239 PublishedFEB 1 2018
93. An In Situ Formed, Dual-Phase Cathode with a Highly Active Catalyst Coating for Protonic Ceramic Fuel Cells
Chen, Y (Chen, Yu) Yoo, S (Yoo, Seonyoung) Pei, K (Pei, Kai) Chen, DC (Chen, Dongchang) Zhang, L (Zhang, Lei) deGlee, B (deGlee, Ben) Murphy, R (Murphy, Ryan) Zhao, BT (Zhao, Bote) Zhang, YX (Zhang, Yanxiang) Chen, Y (Chen, Yan)
ADVANCED FUNCTIONAL MATERIALS Volume28 Issue5 Article Number1704907 PublishedJAN 31 2018
92. Oumezzine, Marwene; Hassayoun, Oumayma; Bellouz, Ridha; et al.
On the role of disorder produced by manganese vacancy at the B site on the structural and magnetic properties of La_{0.67}Ba_{0.33}Mn_{1-x}O₃ nanocrystalline
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 729 Pages: 156-161 Published: DEC 30 2017
91. Daoudi, Kais; Alawadhi, Hussain; El Helali, Saoussen; et al.
Effects of Mn₃O₄ precipitates on the vibrational properties of epitaxial Ca-doped LaMnO₃ films
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 50 Issue: 39 Article Number: 395305 Published: OCT 4 2017
90. Turki, D.; Ghouri, Zafar Khan; Al-Meer, Saeed; et al.
Synthesis and Physicochemical Studies of Perovskite Manganite La_(0.8)Ca_(0.2)Nn_(1-x)Co_(x)O₍₃₎ (0 ≤ x ≤ 0.3)
JOURNAL OF MAGNETICS Volume: 22 Issue: 3 Pages: 353-359 Published: SEP 2017
89. Kubicek, Markus; Bork, Alexander H.; Rupp, Jennifer L. M.
Perovskite oxides - a review on a versatile material class for solar-to-fuel conversion processes
JOURNAL OF MATERIALS CHEMISTRY A Volume: 5 Issue: 24 Pages: 11983-12000 Published: JUN 28 2017
88. Concha-Balderrama, A.; Rojas-George, G.; Alvarado-Flores, J.; et al.
Nucleation and growth kinetics of La_{0.7}Sr_{0.3}Cr_{0.4}Mn_{0.6}O_{3-δ} SOFC perovskite: Symmetry alteration evolution induced by Cu²⁺ and Ni²⁺ impregnation
PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL Volume: 26 Issue: 6 Pages: 665-670 Published: DEC 2016
87. Golosova, NO, Kozlenko, DP, Kichanov, SE, Lukin, EV, Dubrovinsky, LS, Mammadov, AI, Mehdiyeva, RZ, Jabarov, SH, Liermann, HP, Glazyrin, KV, Dang, TN, Smotrakov, VG, Eremkin, VV, Savenko, BN
Structural, magnetic and vibrational properties of multiferroic GaFeO₃ at high pressure
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 684 Pages: 352-358 DOI: 10.1016/j.jallcom.2016.04.316 Published: NOV 5 2016
86. Pomar, Alberto; Konstantinovic, Zorica; Bagues, Nuria; et al.
Formation of Self-Organized Mn₃O₄ Nano-inclusions in LaMnO₃ Films
FRONTIERS IN PHYSICS Volume: 4 Article Number: 41 Published: SEP 20 2016
85. Praveena, K (Praveena, K.); Bharathi, P (Bharathi, P.); Liu, HL (Liu, Hsiang-Lin); Varma, KBR (Varma, K. B. R.)
Structural, multiferroic properties and enhanced magnetoelectric coupling in Sm_{1-x}CaxFeO₃
CERAMICS INTERNATIONAL Volume: 42 Issue: 12 Pages: 13572-13585 DOI: 10.1016/j.ceramint.2016.05.150 Published: SEP 2016
84. Yoon, KR (Yoon, Ki Ro); Kim, DS (Kim, Dae Sik); Ryu, WH (Ryu, Won-Hee); Song, SH (Song, Sung Ho); Youn, DY (Youn, Doo-Young); Jung, JW (Jung, Ji-Won); Jeon, S (Jeon, Seokwoo); Park, YJ (Park, Yong Joon); Kim, ID (Kim, Il-Doo)
Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in Li-O₂ Batteries
CHEMSUSCHEM Volume: 9 Issue: 16 Pages: 2080-2088 DOI: 10.1002/cssc.201600341 Published: AUG 23 2016
83. Drichko, N (Drichko, Natalia); Broholm, C (Broholm, Collin); Kimura, K (Kimura, K.); Ishii, R (Ishii, R.); Nakasutji, S (Nakasutji, Satoru)
Collective versus local Jahn-Teller distortion in Ba₃CuSb₂O₉: Raman scattering study
PHYSICAL REVIEW B Volume: 93 Issue: 18 Article Number: 184425 DOI: 10.1103/PhysRevB.93.184425 Published: MAY 20 2016
82. Pandey, S (Pandey, Suchita); Kumar, J (Kumar, Jitender); Awasthi, AM (Awasthi, A. M.)
Magneto-thermally activated spin-state transition in La_{0.95}Ca_{0.05}CoO₃: magnetically-tunable dipolar glass and giant magneto-electricity
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 18 Issue: 9 Pages: 6569-6579 DOI: 10.1039/c5cp06932g Published: MAR 7 2016
81. Abdel-Latif, I. A.; Ismail, Adel A.; Bouzid, Houcine; et al.
Synthesis of novel perovskite crystal structure phase of strontium doped rare earth manganites using sol gel method

- JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 393 Pages: 233-238 Published: NOV 1 2015
80. Katayama, Naoyuki; Kimura, Kenta; Han, Yibo; et al.
Absence of Jahn-Teller transition in the hexagonal Ba₃CuSb₂O₉ single crystal
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 112 Issue: 30 Pages: 9305-9309 Published: JUL 28 2015
79. Mota, Noelia; Barrio, Laura; Alvarez-Galvan, Consuelo; et al.
Ruthenium Effect on Formation Mechanism and Structural Characteristics of LaCo_{1-x}Ru_xO₃ Perovskites and Its Influence on Catalytic Performance for Hydrocarbon Oxidative Reforming
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 119 Issue: 29 Pages: 16708-16723 Published: JUL 23 2015
78. Euler, C.; Holuj, P.; Talkenberger, A.; et al.
Magnetic field dependent thermal conductance in La_{0.67}Ca_{0.33}MnO₃
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 381 Pages: 188-193 Published: MAY 1 2015
77. Islam, Mohammad A.; Xie, Yujun; Scafetta, Mark D.; et al.
Raman scattering in La_{1-x}Sr_xFeO_{3-δ} thin films: annealing-induced reduction and phase transformation
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 27 Issue: 15 Article Number: 155401 Published: APR 22 2015
76. Vilarinho, R.; Almeida, A.; Machado da Silva, J. M.; et al.
Dzyaloshinskii-Moriya nature of ferroelectric ordering in magnetoelectric Gd_{1-x}Y_xMnO₃ system
SOLID STATE COMMUNICATIONS Volume: 208 Pages: 34-40 Published: APR 2015
75. Mishra, Dileep K.; Sathe, V. G.; Rawat, R.; et al.
Controlling phase separation in La_{5/8-y}PryCa_{3/8}MnO₃ (y=0.45) epitaxial thin films by strain disorder
APPLIED PHYSICS LETTERS Volume: 106 Issue: 7 Article Number: 072401 Published: FEB 16 2015
74. Bork, A. H.; Kubicek, M.; Struzik, M.; et al.
Perovskite La_{0.6}Sr_{0.4}Cr_{1-x}CoxO_{3-δ} solid solutions for solar-thermochemical fuel production: strategies to lower the operation temperature
JOURNAL OF MATERIALS CHEMISTRY A Volume: 3 Issue: 30 Pages: 15546-15557 Published: 2015
73. Sun, Wei; Li, Jing-Feng; Zhu, Fangyuan; et al.
Thickness-dependent phase boundary in Sm-doped BiFeO₃ piezoelectric thin films on Pt/Ti/SiO₂/Si substrates
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 17 Issue: 30 Pages: 19759-19765 Published: 2015
72. Sun, Wei; Li, Jing-Feng; Yu, Qi; et al.
Phase transition and piezoelectricity of sol-gel-processed Sm-doped BiFeO₃ thin films on Pt(111)/Ti/SiO₂/Si substrates
JOURNAL OF MATERIALS CHEMISTRY C Volume: 3 Issue: 9 Pages: 2115-2122 Published: 2015
71. Lee, Hong-Sub; Choi, Sun Gyu; Yeom, Geun Young; et al.
The effect of Gd substitution in perovskite lanthanum strontium manganite films for use in resistive switching devices
JOURNAL OF THE CERAMIC SOCIETY OF JAPAN 122 (1428), pp. 622-625 AUG 2014
70. Elkhouni, T.; Amami, M.; Colin, C. V.; et al.
The structure, Raman spectroscopy and evidence of ferromagnetic transition in CuCr_{1-x}MxO₂ (M=Mn and Rh) compounds
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 355, pp. 158-163 APR 2014
69. Moshnyaga, V.; Belenchuk, A.; Huehn, S.; et al.
Intrinsic antiferromagnetic coupling underlies colossal magnetoresistance effect: Role of correlated polarons
PHYSICAL REVIEW B 89 (2), Art. No. 024420 JAN 30 2014
68. Zhu, L. P.; Deng, H. M.; Sun, L.; et al.
Optical properties of multiferroic LuFeO₃ ceramics
CERAMICS INTERNATIONAL 40 (1), pp. 1171-1175 Part: A JAN 2014
67. Choi, Sun Gyu; Lee, Hong-Sub; Choi, Hyejung; et al.
The effect of Ca substitution on the structural and electrical properties of La_{0.7}Sr_{0.3-x}CaxMnO₃ perovskite manganite films
JOURNAL OF PHYSICS D-APPLIED PHYSICS 46 (42), Art. No. 425102 OCT 23 2013
66. Chaturvedi, Aditi; Sathe, V. G.
Raman spectroscopy and X-ray diffraction study of PrMnO₃ oriented thin films deposited on LaAlO₃ and SrTiO₃ substrates
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 344, 230-234 OCT 2013
65. Foerst, M.; Mankowsky, R.; Bromberger, H.; et al.
Displacive lattice excitation through nonlinear phononics viewed by femtosecond X-ray diffraction
SOLID STATE COMMUNICATIONS 169, pp. 24-27 SEP 2013
64. Phong, P. T.; Jang, S. J.; Huy, B. T.; et al.
Structural, magnetic, infrared and Raman studies of La_{0.8}Sr_xCa_{0.2-x}MnO₃ (0 ≤ x ≤ 0.2)
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 24 (7), pp. 2292-2301 JUL 2013
63. Chou, Ta-Lei; Lee, Jenn-Min; Chen, Shin-An; et al.
Pressure and Temperature Dependence of Local Structure and Electronic Structure of Orthorhombic DyMnO₃
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN 82 (6), Art. No. 064708 JUN 2013

62. Nikolaev, S. A.; Mazurenko, V. G.; Rudenko, A. N.
Influence of magnetic order on phonon spectra of multiferroic orthorhombic YMnO_3
SOLID STATE COMMUNICATIONS 164, pp. 16-21 JUN 2013
61. Choi, Sun Gyu; Lee, Hong-Sub; Yeom, Geun Young; et al.
Investigation of the Properties of Ba-Substituted $\text{La}_{0.7}\text{Sr}_{0.3-x}\text{Ba}(x)\text{MnO}_3$ Perovskite Manganite Films for Resistive Switching Applications
JOURNAL OF ELECTRONIC MATERIALS 42 (6), 1196-1201 JUN 2013
60. Islam, Mohammad A.; Rondinelli, James M.; Spanier, Jonathan E.
Normal mode determination of perovskite crystal structures with octahedral rotations: theory and applications
JOURNAL OF PHYSICS-CONDENSED MATTER 25 (17), 175902, MAY 1 2013
59. Khanduri, H.; Dimri, M. Chandra; Vasala, S.; et al.
Magnetic and structural studies of LaMnO_3 thin films prepared by atomic layer deposition
JOURNAL OF PHYSICS D-APPLIED PHYSICS 46 (17), 175003, MAY 1 2013
58. Dodiya, Neha; Varshney, Dinesh
Structural properties and Raman spectroscopy of rhombohedral $\text{La}_{1-x}\text{Na}_x\text{MnO}_3$ ($0.075 \leq x \leq 0.15$)
JOURNAL OF MOLECULAR STRUCTURE 1031, 104-109, JAN 16 2013
57. Mishra, Dileep K.; Sathe, V. G.
Temperature Dependent Raman Study of $\text{Eu}_{0.75}\text{Y}_{0.25}\text{MnO}_3$
AIP Conference Proceedings 1512, 800-801, 2013
56. Nima Ramirez Fabian Enrique; Ferreira Fabio Furlan; Alves Wendel Andrade; et al.
Magnetic, structural, and transport properties at very high temperature in manganites
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 324 (13), 2011-2018, JUL 2012.
55. Himcinschi, Cameliu; Vrejoiu, Ionela; Weissbach, Torsten; et al.
Raman spectra and dielectric function of BiCrO_3 : Experimental and first-principles studies
JOURNAL OF APPLIED PHYSICS 110 (7) Article Number: 073501, OCT 1 2011.
54. Yun B. K.; Koo Y. S.; Jung J. H.; et al.
Effect of hydroxyl group on global and local structures of hydrothermally grown KNbO_3 nanorods
MATERIALS CHEMISTRY AND PHYSICS 129 (3) Pages: 1071-1074, OCT 3 2011.
53. Antonakos A.; Liarakis E.; Aydogdu G. H.; et al.
Strain induced phase separation on $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 323 (5) Pages: 620-630, MAR 2011.
52. Mir Feroz Ahmad; Ikram M.; Kumar Ravi
Temperature-dependent Raman study of PrFeO_3 thin film
JOURNAL OF RAMAN SPECTROSCOPY 42 (2) Pages: 201-208, FEB 2011.
51. Parhi Nilima; Rout G. C.; Behera S. N.
Study of J-T effect on the self-energy of electrons in manganite systems
INDIAN JOURNAL OF PHYSICS 84 (10) Pages: 1369-1377, OCT 2010.
50. Liang Shuhui; Xu Tongguang; Teng Fei; et al.
The high activity and stability of $\text{La}_{0.5}\text{Ba}_{0.5}\text{MnO}_3$ nanocubes in the oxidation of CO and CH_4
APPLIED CATALYSIS B-ENVIRONMENTAL 96 (3-4) Pages: 267-275, JUN 7 2010.
49. Moreira J. Agostinho; Almeida A.; Ferreira W. S.; et al.
Coupling between phonons and magnetic excitations in orthorhombic $\text{Eu}_{1-x}\text{Y}_x\text{MnO}_3$
PHYSICAL REVIEW B 81 (5) Article Number: 054447, Published: FEB 2010.
48. Issing S.; Fuchs F.; Ziereis C.; et al.
Lattice dynamics of $\text{Eu}_{1-x}\text{Y}_x\text{MnO}_3$ ($0 \leq x \leq 0.5$) studied by Raman and infrared spectroscopy
EUROPEAN PHYSICAL JOURNAL B 73 (3) Pages: 353-360, FEB 2010.
47. Malavasi Lorenzo; Baldini Maria; di Castro Daniele; et al.
High pressure behavior of Ga-doped LaMnO_3 : a combined X-ray diffraction and optical spectroscopy study
JOURNAL OF MATERIALS CHEMISTRY 20 (7) Pages: 1304-1311, 2010.
46. Issing, S.; Fuchs, F.; Ziereis, C.; et al.
Lattice dynamics of $\text{Eu}_{1-x}\text{Y}_x\text{MnO}_3$ ($0 \leq x \leq 0.5$) studied by Raman and infrared spectroscopy
EUROPEAN PHYSICAL JOURNAL B 73 (3) Pages: 353-360, FEB 2010.
45. Chen C. Z.; Cai C. B.; Liu Z. Y.; et al.
Stress evolution and lattice distortion induced by thickness variation and lattice misfit in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_{3-\delta}$ films
SOLID STATE COMMUNICATIONS 150 (1-2) Pages: 66-69, JAN 2010.
44. Liu Xue-Qin; Han Guo-Jian; Huang Chun-Kui; et al.
Thickness dependence of microstructure for $\text{La}_{0.9}\text{Sr}_{0.1}\text{MnO}_3/\text{Si}$ films determined by micro-Raman spectroscopy

- ACTA PHYSICA SINICA 58 (11) Pages: 8008-8013, NOV 2009.
43. Mansouri, S.; Charpentier, S.; Jandl, S.; et al.
A micro-Raman study of a $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ single crystal and thin films
JOURNAL OF PHYSICS-CONDENSED MATTER 21 (38) Article Number: 386004, SEP 23 2009.
42. Cao Xian-Sheng; Chen Chang-Le
Phonon spectra of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$
CHINESE PHYSICS B 18 (7) Pages: 2928-2932, JUL 2009.
41. Baldini, M.; Di Castro, D.; Cestelli-Guidi, M.; et al.
Phase-separated states in high-pressure $\text{LaMn}_{1-x}\text{Ga}_x\text{O}_3$ manganites
PHYSICAL REVIEW B 80 (4) Article Number: 045123, JUL 2009.
40. Cao, Xian-Sheng; Chen, Chang-Le
Raman spectra of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$
PHYSICA SCRIPTA 79 (4) Article Number: 045701, APR 2009.
39. Antonakos, A.; Filippi, M.; Aydogdu, G. H.; et al.
Tuning of the charge ordered state in the manganite thin films by internal or external strains
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 246 (3) Pages: 635-642, MAR 2009.
38. Sathe, V. G.; Rawat, R.; Dubey, Aditi; et al.
Photo-induced insulator-metal transition probed by Raman spectroscopy
JOURNAL OF PHYSICS-CONDENSED MATTER 21 (7) Article Number: 075603, FEB 18 2009.
37. Antonakos, A.; Liarokapis, E.; Filippi, M.; et al.
Infrared Reflectivity Spectra of Manganite Thin Films Grown on Different Substrates
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM 22 (2) Pages: 109-113, FEB 2009.
36. Minh, NV (Nguyen Van Minh); Kim, SJ (Kim, Sung-Jin); Yang, IS (Yang, In-Sang)
A Raman spectroscopy study of disorder and local vibrational modes in $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{M}_x\text{O}_3$ (M=Fe, Co)
JOURNAL OF THE KOREAN PHYSICAL SOCIETY Volume: 52 Issue: 5 Pages: 1402-1405 Published: MAY 2008
35. Antonakos, A.; Lampakis, D.; Liarokapis, E.; et al.
Pressure effects on the phase separation of $\text{Pr}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$ thin films
JOURNAL OF PHYSICS-CONDENSED MATTER 20 (48) Article Number: 485202, DEC 3 2008.
34. Sacchetti, A.; Corridoni, T.; Arcangeletti, E.; et al.
High pressure Raman study of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_{3-\delta}$ manganites
EUROPEAN PHYSICAL JOURNAL B 66 (3) Pages: 301-305, DEC 2008.
33. Andreasson, Jakob; Holmlund, Joakim; Rauer, Ralf; et al.
Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution
PHYSICAL REVIEW B 78 (23) Article Number: 235103, DEC 2008.
32. Antonakos, A.; Lampakis, D.; Liarokapis, E.; et al.
Phase separation in manganite thin films
JOURNAL OF PHYSICS-CONDENSED MATTER 20 (43) Article Number: 434232, OCT 29 2008.
31. Nguyen Van Minh; Kim, Sung-Jin; Yang, In-Sang
A Raman spectroscopy study of disorder and local vibrational modes in $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{M}_x\text{O}_3$ (M=Fe, Co)
JOURNAL OF THE KOREAN PHYSICAL SOCIETY 52 (5) Pages: 1402-1405, MAY 2008.
30. Kim, M.; Barath, H.; Cooper, S. L.; et al.
Raman scattering studies of the temperature- and field-induced melting of charge order in $\text{La}_x\text{Pr}_y\text{Ca}_{1-x-y}\text{MnO}_3$
PHYSICAL REVIEW B 77 (13) Article Number: 134411, APR 2008.
29. Rossiny, JCH.; Fearn, S, Kilner, JA, Zhang, Y, Chen, L, Yang, S, Evans, J, Zhang, T, Yates, K, Cohen, LF
Characterisation of Combinatorial Libraries of Perovskite Materials for SOFC Cathode Applications
SOLID OXIDE FUEL CELLS 10 (SOFC-X), PTS 1 AND 2 Book Series: ECS Transactions Volume: 7 Issue: 1 Pages: 1005-1013 DOI: 10.1149/1.2729196 Published: 2007
28. Antonakos A, Liarokapis E, Aydogdu GH, et al.
Strain effects on $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
MATER. SCIENCE AND ENG. B-SOLID STATE MATER.FOR ADV.TECHNOL.144 (1-3) Sp. Iss. SI, pp. 83-88 (2007).
27. Liang S, Teng F, Bulgan G, et al.
Effect of jahn-teller distortion in $\text{La}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ cubes and nanoparticles on the catalytic oxidation of CO and CH_4
JOURNAL OF PHYSICAL CHEMISTRY C 111 (45), pp. 16742-16749 (2007).
26. Sathe VG, Dubey A
Broken symmetry in LaAlO_3 single crystal probed by resonant Raman spectroscopy
JOURNAL OF PHYSICS-CONDENSED MATTER 19 (38) Art. No. 382201 (2007).

25. Dubey, Aditi; Sathe, V. G.
The effect of magnetic order and thickness in the Raman spectra of oriented thin films of LaMnO_3
JOURNAL OF PHYSICS-CONDENSED MATTER 19 (34) Article Number: 346232, AUG 29 2007.
24. Wesselinowa JM, St Kovachev
Magnetic ordering effects in the phonon spectra of orthorhombic RMnO_3 compounds
JOURNAL OF PHYSICS-CONDENSED MATTER 19 (17), Art. No. 176211 (2007).
23. Jandl, S.; Mukhin, A. A.; Ivanov, V. Yu; et al.
Micro-Raman and magnetization studies of $\text{Nd}_{1-x}\text{Ca}_x\text{MnO}_3$ phase transitions
12TH INTERNATIONAL CONFERENCE ON PHONON SCATTERING IN CONDENSED MATTER (PHONONS 2007) Book Series:
Journal of Physics Conference Series 92 Article Number: 012125, 2007.
22. Li WJ, Zhang B, Lu W
Structural properties and Raman spectroscopy of $\text{La}_{(2+4x)}\text{Sr}_{3((1-4x))}\text{Mn}_{3(1-x)}\text{Cu}_x\text{O}_3$ ($0 \leq x \leq 0.2$)
PHYSICS LETTERS A 362 (4), pp. 327-330 (2007).
21. Aruta, C., Angeloni, M., Balestrino, G., Boggio, N.G., Medaglia, P.G., Tebano, A., Davidson, B., (...), De Renzi, R.
Preparation and characterization of LaMnO_3 thin films grown by pulsed laser deposition
Journal of Applied Physics 100 (2), art. no. 023910 (2006)
20. Jandl, S., Laverdière, J., Mukhin, A.A., Ivanov, V.Yu., Balbashov, A.M.
Raman and infrared quest for orbitons in $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$
Physica B: Condensed Matter 381 (1-2), pp. 214-218 (2006)
19. Jandl S, Mukhin AA, Ivanov VY, et al.
Micro-Raman study and phase transitions of $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$
JOURNAL OF PHYSICS-CONDENSED MATTER 18 (5): 1667-1676 FEB 8 2006
18. Cairns, DL (Cairns, DL); Reaney, IM (Reaney, IM); Zheng, H (Zheng, H); Iddles, D (Iddles, D); Price, T (Price, T)
Synthesis and characterisation of $\text{La}(\text{Co}_{1/2}\text{Ti}_{1/2})\text{O}_3$
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 25 Issue: 4 Pages: 433-439 DOI: 10.1016/j.jeurceramsoc.2004.02.016
Published: APR 2005
17. Jandl, S., Mukhin, A.A., Ivanov, V.Yu., Nekvasil, V., Sadowski, M.L.
Raman-active phonons and Nd^{3+} crystal-field studies of weakly doped $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$
Physical Review B - Condensed Matter and Materials Physics 72 (2), art. no. 024423 (2005)
16. Dore P, Postorino P, Sacchetti A, et al.
Raman measurements on thin films of the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ manganite: a probe of substrate-induced effects
EUROPEAN PHYSICAL JOURNAL B 48 (2): 255-258 NOV 2005
15. Asselin S, Jandl S, Fournier P, et al.
Resonant micro-Raman study of $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$
JOURNAL OF PHYSICS-CONDENSED MATTER 17 (34): 5247-5254 AUG 31 2005
14. Orlovskaya N, Steinmetz D, Yarmolenko S, et al.
Detection of temperature- and stress-induced modifications of LaCoO_3 by micro-Raman spectroscopy
PHYSICAL REVIEW B 72 (1): Art. No. 014122 JUL 2005
13. Ghosh S, Kamaraju N, Seto M, et al.
Raman scattering in CaFeO_3 and $\text{La}_{0.33}\text{Sr}_{0.67}\text{FeO}_3$ across the charge-disproportionation phase transition
PHYSICAL REVIEW B 71 (24): Art. No. 245110 JUN 2005
12. Jandl S, Nekvasil V, Divis M, et al.
Infrared study of the crystal-field excitations in NdMnO_3 in high magnetic fields
PHYSICAL REVIEW B 71 (2): Art. No. 024417 JAN 2005
11. Motin Seikh, Md., Sudheendra, L., Narayana, C., Rao, C.N.R.
A Raman study of the temperature-induced low-to-intermediate-spin state transition in LaCoO_3
Journal of Molecular Structure 706 (1-3 SPEC. ISS.), pp. 121-126 (2004)
10. Cairns DL, Reaney IM, Zheng H, et al.
Synthesis and characterisation of $\text{La}(\text{Co}_{1/2}\text{Ti}_{1/2})\text{O}_{3-x}$
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY 25 (4): 433-439 APR 2004
9. Alessandri I, Bontempi E, Sangaletti L, et al.
Sodium doped lanthanum manganites thin films: Influence of the oxygen content on the structural parameters
JOURNAL DE PHYSIQUE IV 118: 165-171 NOV 2004
8. Rao CNR, Seikh M, Narayana C
Spin-state transition in LaCoO_3 and related materials
TOPICS IN CURRENT CHEMISTRY 234: 1-21 2004
7. Seikeh MM, Sudheendra L, Narayana C, et al.
A Raman study of the temperature-induced low-to-intermediate-spin state transition in LaCoO_3

6. Xiong YM, Chen T, Wang GY, et al.
Raman spectra in epitaxial thin films of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.33, 0.5$) grown on different substrates
PHYSICAL REVIEW B 70 (9): Art. No. 094407 SEP 2004
 5. Sudheendra L, Seikh M, Raju AR, et al.
Dielectric properties of rare earth cobaltates, LnCoO_3 ($\text{Ln} = \text{La, Pr, Nd}$), across the spin-state transition
FERROELECTRICS 306: 227-234 2004
 4. Alessandri I, Malavasi L, Bontempi E, et al.
Synthesis and characterisation of $\text{La}_{1-x}\text{Na}_x\text{MnO}_{3+\delta}$ thin films manganites
MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY 109 (1-3): 203-206 JUN 15 2004
 3. Orlovskaya, N; Steinmetz, D
Raman diagnostics of LaCOO_3 based perovskites
MIXED IONIC ELECTRONIC CONDUCTING PEROVSKITES FOR ADVANCED ENERGY SYSTEMS Book Series: NATO SCIENCE SERIES, SERIES II: MATHEMATICS, PHYSICS AND CHEMISTRY 173 Pages: 39-51, 2004.
 2. Nikiforov AE, Popov SE
Cooperative dynamical effect in rhombohedral LaMnO_3
ADV QUANTUM CHEM 44: 587-598 2003
 1. Malavasi L, Alessandri I, Mozzati MC, et al.
Preparation, structural and magnetic characterisation of RF-sputtered $\text{La}_{1-x}\text{Na}_x\text{MnO}_{3+\delta}$ thin films manganites
PHYS CHEM CHEM PHYS 5 (11): 2274-2278 2003
38. *"Elimination of nonuniformities in thick GaN films using chemical vapor deposited GaN templates"*
E. Valcheva, T. Paskova, M. V. Abrashev, P. P. Paskov, P. O. A. Persson, E. M. Goldys, R. Beccard, M. Heuken, and B. Monemar
J. Appl. Phys. 90 (2001) 6011 - 6016.
5. Zhou, A, Xiu, XQ, Zhang, R, Xie, ZL, Chen, DJ, Liu, B, Zheng, YD
Effect of lattice defects on the property of GaN crystal: A molecular dynamics simulation study
SUPERLATTICES AND MICROSTRUCTURES Volume: 88 Pages: 679-684 DOI: 10.1016/j.spmi.2015.10.027 Published: DEC 2015
 4. Sochacki, Tomasz; Bryan, Zachary; Amilusik, Mikolaj; et al.
HVPE-GaN grown on MOCVD-GaN/sapphire template and ammonothermal GaN seeds: Comparison of structural, optical, and electrical properties
JOURNAL OF CRYSTAL GROWTH 394, pp. 55-60 MAY 15 2014
 3. Zhou, A., Xiu, X.-Q., Zhang, R., Xie, Z.-L., Hua, X.-M., Liu, B., Han, P., (...), Zheng, Y.-D.
Roles of V/III ratio and mixture degree in GaN growth: CFD and MD simulation study
Chinese Physics B 22 (1), art. no. 017801, 2013
 2. Wei, T.B., Duan, R.F., Wang, J.X., Li, J.M., Huo, Z.Q., Ma, P., Liu, Zh., Zeng, Y.P.
Characterization of free-standing GaN substrate grown through hydride vapor phase epitaxy with a TiN interlayer
Applied Surface Science 253 (18), pp. 7423-7428 (2007)
 1. Hageman PR, Kirilyuk V, Corbeek WHM, et al.
Thick GaN layers grown by hydride vapor-phase epitaxy: hetero- versus homo-epitaxy
J CRYST GROWTH 255 (3-4): 241-249 AUG 2003
39. *"Raman spectroscopy of CaMnO_3 : Mode assignment and relationship between Raman line intensities and structural distortions"*
M. V. Abrashev, J. Backstrom, L. Borjesson, V. N. Popov, R. A. Chakalov, N. Kolev, R. -L. Meng, and M. N. Iliev
Phys. Rev. B 65 (2002) 184301.
92. Investigation of electron and phonon transport in Bi-doped CaMnO_3 for thermoelectric applications
Suprayoga, E., Putri, W.B.K., Singsoog, K., (...), Seetawan, T., Hasdeo, E.H.
Materials Research Bulletin 141,111359 (2021)
 91. Characterization of structure and properties in $\text{CaO-Nd}_2\text{O}_3\text{-TiO}_2$ microwave dielectric ceramic modified by Al_2O_3
Xiong, Z., Zhang, X., Tang, B., (...), Fang, Z., Zhang, S.
Materials Characterization 176,111108 (2021)
 90. Site substitution in GdMnO_3 : Effects on structural, electronic, and magnetic properties

Mahana, S (Mahana, Sudipta) Pandey, SK (Pandey, Shishir Kumar) Rakshit, B (Rakshit, Bipul) Nandi, P (Nandi, Pronoy) Basu, R (Basu, Raktima) Dhara, S (Dhara, Sandip) Turchini, S (Turchini, S.) Zema, N (Zema, N.) Manju, U (Manju, U.) Mahanti, SD (Mahanti, Subhendra D.)

PHYSICAL REVIEW B Volume102 Issue24 Article Number245120 PublishedDEC 15 2020

89. Field-driven spin reorientation in SmMnO₃ polycrystalline powders

Mantilla, J (Mantilla, John) Morales, M (Morales, Marco) Venceslau, W (Venceslau, Wenderson) Corredor, L (Corredor, Laura) Morais, PC (Morais, P. C.) Aragon, FFH (Aragon, Fermin F. H.) da Silva, SW (da Silva, Sebastiao William) Coaquira, JA (Coaquira, Jose A.)

JOURNAL OF ALLOYS AND COMPOUNDS Volume845 Article Number156327 PublishedDEC 10 2020

88. Cooperative Catalysis toward Oxygen Reduction Reaction under Dual Coordination Environments on Intrinsic AMnO(3)-Type Perovskites via Regulating Stacking Configurations of Coordination Units

Zhao, CN (Zhao, Chunng) Zhang, XL (Zhang, Xilin) Yu, M (Yu, Meng) Wang, AS (Wang, Ansheng) Wang, LX (Wang, Linxia) Xue, LN (Xue, Lina) Liu, JY (Liu, Jieyu) Yang, ZX (Yang, Zongxian) Wang, WC (Wang, Weichao)

ADVANCED MATERIALS Volume32 Issue50 Article Number2006145 PublishedDEC 2020

87. One-Step Integrated Comodification to Improve the Electrochemical Performances of High-Voltage LiCoO₂ for Lithium-Ion Batteries

Gu, R (Gu, Run) Qian, RC (Qian, Ruicheng) Lyu, YC (Lyu, Yingchun) Guo, BK (Guo, Bingkun)

ACS SUSTAINABLE CHEMISTRY & ENGINEERING Volume8 Issue25 Page9346-9355 PublishedJUN 29 2020

86. Influence of trivalent lanthanides substitution on the thermoelectric properties of nanostructured Ca_{1-x}Ln₃₊(x)MnO_{3-delta} (Ln(3+) = Sm, Ce, La; x=0, 0.1)

Mary, SB (Mary, S. Berbeth) Rajesh, AL (Rajesh, A. Leo)

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume31 Issue8 Page6479-6487 PublishedAPR 2020

85. Temperature dependent X-ray diffraction and Raman spectroscopy studies of polycrystalline YCrO₃ ceramics across the T-C similar to 460 K

Mall, AK (Mall, Ashish Kumar) Paul, B (Paul, Barnita) Garg, A (Garg, Ashish) Gupta, R (Gupta, Rajeev)

JOURNAL OF RAMAN SPECTROSCOPY Volume51 Issue3 Page537-545 PublishedMAR 2020

84. One-Step Integrated Comodification to Improve the Electrochemical Performances of High-Voltage LiCoO₂ for Lithium-Ion Batteries

Gu, R (Gu, Run) Qian, RC (Qian, Ruicheng) Lyu, YC (Lyu, Yingchun) Guo, BK (Guo, Bingkun)

ACS SUSTAINABLE CHEMISTRY & ENGINEERING Volume8 Issue25 Page9346-9355 PublishedJUN 29 2020

83. Influence of Mn doping on dielectric properties, conduction mechanism and photocatalytic nature of gadolinium-based orthochromites Qahtan, AAA (Qahtan, Aref A. A.) Husain, S (Husain, Shahid) Somvanshi, A (Somvanshi, Anand) Khan, W (Khan, Wasi) Manea, YK (Manea, Yahiya K.)

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume31 Issue12 Page9335-9351 PublishedJUN 2020

82. Strain-dependent structure and Raman behaviours in the heavy-ion irradiated manganite at extreme low dose

Hoang, NN (Nam Nhat Hoang) Pham, DHY (Duc Huyen Yen Pham) Nguyen, TN (The Nghia Nguyen)

SCIENTIFIC REPORTS Volume9 Article Number19204 PublishedDEC 16 2019

81. Enhanced thermoelectric property of nanostructured CaMnO₃ by sol-gel hydrothermal method

Mary, SB (Mary, S. Berbeth) Francis, M (Francis, M.) Sathe, VG (Sathe, V. G.) Ganesan, V (Ganesan, V) Rajesh, AL (Rajesh, A. Leo)

PHYSICA B-CONDENSED MATTER Volume575 Article Number411707 PublishedDEC 15 2019

80. Optical Study of the Electronic Structure and Lattice Dynamics of NdBaMn₂O₆ Single Crystals

Mero, RD (Mero, Rea Divina) Ogawa, K (Ogawa, Kirari) Yamada, S (Yamada, Shigeki) Liu, HL (Liu, Hsiang-Lin)

SCIENTIFIC REPORTS Volume9 Article Number18164 PublishedDEC 3 2019

79. Evidence for ferromagnetic clusters at room temperature in Dy and Mn site co-substituted compounds: Dy_{0.55}Sr_{0.45}Mn_{1-x}FexO₃

Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Satya, AT (Satya, A. T.) Sethupathi, K (Sethupathi, K.)

JOURNAL OF ALLOYS AND COMPOUNDS Volume792 Page411-417 PublishedJUL 5 2019

78. Structural and electrochemical properties of B-site Ru-doped (La_{0.8}Sr_{0.2})(0.9)Sc_{0.2}Mn_{0.8}O_{3-delta} as symmetrical electrodes for reversible solid oxide cells

Zhou, J (Zhou, Jun) Wang, N (Wang, Ning) Cui, JJ (Cui, Jiajia) Wang, JK (Wang, Junkai) Yang, JM (Yang, Jiaming) Zong, Z (Zong, Zheng) Zhang, ZH (Zhang, Zihang) Chen, QC (Chen, Qianchang) Zheng, XC (Zheng, Xinchu) Wu, K (Wu, Kai)

JOURNAL OF ALLOYS AND COMPOUNDS Volume792 Page1132-1140 PublishedJUL 5 2019

77. Jahn-Teller reconstructed surface of the doped manganites shown by means of surface-enhanced Raman spectroscopy

Merten, S (Merten, S.) Bruchmann-Bamberg, V (Bruchmann-Bamberg, V) Damaschke, B (Damaschke, B.) Samwer, K (Samwer, K.) Moshnyaga, V (Moshnyaga, V)

PHYSICAL REVIEW MATERIALS Volume3 Issue6 Article Number060401 PublishedJUN 28 2019

76. Phase separation and local lattice distortions analysis of charge-ordered manganese films La_{1-x}CaxMnO_{3-delta} by Raman spectroscopy

Trotsenko, VG (Trotsenko, V. G.) Lahmar, A (Lahmar, A.) Lyanguzov, NV (Lyanguzov, N. V.) El Marssi, M (El Marssi, M.) Torgashev, VI (Torgashev, V. I.)

SUPERLATTICES AND MICROSTRUCTURES Volume127 Page100-108 PublishedMAR 2019

75. Ion-beam-induced ferromagnetism in Ca-doped LaMnO₃ thin films grown on Si (100)

Sultan, K., Arif ul Islam, S., Habib, Z., Ikram, M., Asokan, K.

Radiation Effects and Defects in Solids 173(3-4), pp. 184-197 (2018)

74. Effect of rare earth ions on structural and optical properties of specific perovskite orthochromates; RCrO_3 ($\text{R} = \text{La, Nd, Eu, Gd, Dy, and Y}$)
Singh, KD (Singh, Kapil Dev) Pandit, R (Pandit, Rabia) Kumar, R (Kumar, Ravi)
SOLID STATE SCIENCES Volume85 Page70-75 PublishedNOV 2018
73. Ion-beam-induced ferromagnetism in Ca-doped LaMnO_3 thin films grown on Si (100)
Sultan, K (Sultan, Khalid) ul Islam, SA (ul Islam, Shah Aarif) Habib, Z (Habib, Zubida) Ikram, M (Ikram, M.) Asokan, K (Asokan, K.)
RADIATION EFFECTS AND DEFECTS IN SOLIDS Volume173 Issue3-4 Page184-197 Published2018
72. Analysis of Zn substitution on structure, optical absorption, magnetization, and high temperature specific heat anomaly of the nano-crystalline LaFeO_3
Manzoor, S (Manzoor, Samiya) Husain, S (Husain, Shahid)
JOURNAL OF APPLIED PHYSICS Volume124 Issue6 Article Number065110 PublishedAUG 14 2018
71. Observation of transient lattice disorder at the onset of multiferroic ordering in $\text{Eu}_{1-x}\text{Ho}_x\text{MnO}_3$ by Raman spectroscopy
Elsaesser, S (Elsaesser, S.) Mukhin, AA (Mukhin, A. A.) Balbashov, AM (Balbashov, A. M.) Geurts, J (Geurts, J.)
PHYSICAL REVIEW B Volume97 Issue22 Article Number224307 PublishedJUN 25 2018
70. Hole doping effect on structure, transport and magnetic properties of $\text{Dy}_{1-x}\text{Ba}_x\text{MnO}_3$ ($0 \leq x \leq 1$)
Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Satya, AT (Satya, A. T.) Sethupathi, K (Sethupathi, K.)
JOURNAL OF ALLOYS AND COMPOUNDS Volume744 Page82-89 PublishedMAY 5 2018
69. Fabrication of Ca-Mn-Nb-O compounds and their structural, electrical, magnetic and thermoelectric properties
Oz, E (Oz, E.) Demirel, S (Demirel, S.) Altin, S (Altin, S.) Altin, E (Altin, E.) Baglayan, O (Baglayan, O.) Bayri, A (Bayri, A.) Avci, S (Avci, S.)
MATERIALS RESEARCH EXPRESS Volume5 Issue3 Article Number036304 PublishedMAR 2018
68. Modification of low temperature magnetic interactions in $\text{Dy}_{1-x}\text{Eu}_x\text{MnO}_3$
Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Sharma, S (Sharma, Shilpam) Satya, AT (Satya, A. T.)
RSC ADVANCES Volume8 Issue24 Page13537-13545 Published2018
67. Tailoring the bandgap and magnetic properties by bismuth substitution in neodymium chromite
Manneppalli, VR (Manneppalli, Venkateswara Rao) Mohan, MMS (Mohan, M. M. Saj) Ranjith, R (Ranjith, R.)
BULLETIN OF MATERIALS SCIENCE Volume40 Issue7 Page1503-1511 PublishedDEC 2017
66. Ben Khelifa, H.; M'nassri, R.; Cheikhrouhou-Koubaa, W.; et al.
Structural characterization and magnetic field dependence of the magnetocaloric properties in $\text{Pr}_{0.8}\text{Na}_{0.05}\text{K}_{0.15}\text{MnO}_3$ ceramic
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 439 Pages: 148-155 Published: OCT 1 2017
65. Kumar, Shiv; Dwivedi, G. D.; Joshi, Amish G.; et al.
Study of structural, dielectric, optical properties and electronic structure of Cr-doped LaInO_3 perovskite nanoparticles
MATERIALS CHARACTERIZATION Volume: 131 Pages: 108-115 Published: SEP 2017
64. Manneppalli, Venkateswara Rao; Raghunathan, Rajamani; Ramadurai, Ranjith; et al.
Local structural distortion and interrelated phonon mode studies in yttrium chromite
JOURNAL OF MATERIALS RESEARCH Volume: 32 Issue: 8 Pages: 1541-1547 Published: APR 2017
63. Yadagiri, K.; Nithya, R.; Shukla, Neeraj; et al.
Role of trivalent bismuth ion substitution at Dy site on the physical properties of DyMnO_3
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 695 Pages: 2959-2964 Published: FEB 25 2017
62. Bhat, M.A., Modi, A., Tarachand, Bhattacharya, S., Gaur, N.K., Okram, G.S.
Impact of silver substitution on the magnetotransport and thermal behavior of polycrystalline $\text{Sm}_{0.55}\text{Sr}_{0.45-x}\text{Ag}_x\text{MnO}_3$ ($x=0$ & 0.15) manganites
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 691 Pages: 230-238 DOI: 10.1016/j.jallcom.2016.08.222 Published: JAN 15 2017
61. Praveena, K., Bharathi, P., Liu, H.-L., Varma, K.B.R.
Structural, multiferroic properties and enhanced magnetoelectric coupling in $\text{Sm}_{1-x}\text{Ca}_x\text{FeO}_3$
CERAMICS INTERNATIONAL Volume: 42 Issue: 12 Pages: 13572-13585 DOI: 10.1016/j.ceramint.2016.05.150 Published: SEP 2016
60. Mishra, S.K., Gupta, M.K., Mittal, R., Kolesnikov, A.I., Chaplot, S.L.
Spin-phonon coupling and high-pressure phase transitions of RMnO_3 ($\text{R} = \text{Ca and Pr}$): An inelastic neutron scattering and first-principles study
PHYSICAL REVIEW B Volume: 93 Issue: 21 Article Number: 214306 DOI: 10.1103/PhysRevB.93.214306 Published: JUN 22 2016
59. Elsässer, S., Geurts, J., Mukhin, A.A., Balbashov, A.M.
Lattice dynamics and spin-phonon coupling in orthorhombic $\text{Eu}_{1-x}\text{Ho}_x\text{MnO}_3$ ($x \leq 0.3$) studied by Raman spectroscopy
PHYSICAL REVIEW B Volume: 93 Issue: 5 Article Number: 054301 DOI: 10.1103/PhysRevB.93.054301 Published: FEB 4 2016
58. Karchev, N (Karchev, Naoum)
Leggett's modes in magnetic systems with Jahn-Teller distortion
ANNALS OF PHYSICS Volume: 363 Pages: 371-384 DOI: 10.1016/j.aop.2015.10.008 Published: DEC 2015
57. Singh, Brajendra
Room temperature large positive and negative magnetocapacitance in $\text{CaMn}_{0.95}\text{Fe}_{0.05}\text{O}_{3-\delta}$

MATERIALS LETTERS Volume: 156 Pages: 76-78 Published: OCT 1 2015

56. Modi, Anchit; Gaur, N. K

Structural, electrical and magnetic phase evolution of Cr substituted $\text{GdMn}_{1-x}\text{Cr}_x\text{O}_3$ ($0 \leq x \leq 0.2$) manganites
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 644 Pages: 575-581 Published: SEP 25 2015

55. Euler, C.; Holuj, P.; Talkenberger, A.; et al.

Magnetic field dependent thermal conductance in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 381 Pages: 188-193 Published: MAY 1 2015

54. Goian, V.; Kamba, S.; Borodavka, F.; et al.

The manifestation of spin-phonon coupling in CaMnO_3

JOURNAL OF APPLIED PHYSICS Volume: 117 Issue: 16 Article Number: 164103 Published: APR 28 2015

53. Sultan, Khalid; Ikram, M.; Gautam, Sanjeev; et al.

Electrical and magnetic properties of the pulsed laser deposited Ca doped LaMnO_3 thin films on Si (100) and their electronic structures
RSC ADVANCES Volume: 5 Issue: 85 Pages: 69075-69085 Published: 2015

52. Singh, Brajendra

Structural, transport, magnetic and magnetoelectric properties of $\text{CaMn}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ ($0.0 \leq x \leq 0.4$)

RSC ADVANCES Volume: 5 Issue: 50 Pages: 39938-39945 Published: 2015

51. Gupta, Preeti; Poddar, Pankaj

Using Raman and dielectric spectroscopy to elucidate the spin phonon and magnetoelectric coupling in DyCrO_3 nanoplatelets
RSC ADVANCES Volume: 5 Issue: 14 Pages: 10094-10101 Published: 2015

50. Sood, Kapil; Singh, K.; Pandey, O. P.

Co-existence of cubic and orthorhombic phases in Ba-doped LaInO_3 and their effect on conductivity

PHYSICA B-CONDENSED MATTER Volume: 456 Pages: 250-257 Published: JAN 1 2015

49. Cai, Xuan; Shi, Lei; Zhou, Shiming; et al.

Size-dependent structure and magnetic properties of DyMnO_3 nanoparticles

JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 10 Article Number: 103903 Published: SEP 14 2014

48. Garcia-Saiz, Abel; de Pedro, Imanol; Migowski, Pedro; et al.

Anion- π and Halide-Halide Nonbonding Interactions in a New Ionic Liquid Based on Imidazolium Cation with Three-Dimensional Magnetic Ordering in the Solid State

INORGANIC CHEMISTRY 53 (16), pp. 8384-8396 AUG 18 2014

47. Muneeswaran, M.; Giridharan, N. V.

Effect of Dy-substitution on the structural, vibrational, and multiferroic properties of BiFeO_3 nanoparticles

JOURNAL OF APPLIED PHYSICS 115 (21), Art. No. 214109 JUN 7 2014

46. Anokhin, A. S.; Bunina, O. A.; Golovko, Yu I.; et al.

Raman and X-ray diffraction study of $(\text{Ba,Sr})\text{TiO}_3/(\text{Bi,Nd})\text{FeO}_3$ multilayer heterostructures

THIN SOLID FILMS 545, pp. 267-271 OCT 31 2013

45. Belik, Alexei A.; Matsushita, Yoshitaka; Tanaka, Masahiko; et al.

High-Pressure Synthesis, Crystal Structures, and Properties of ScRhO_3 and InRhO_3 Perovskites

INORGANIC CHEMISTRY 52 (20), pp. 12005-12011 OCT 21 2013

44. Kozlenko, D. P.; Dang, N. T.; Kichanov, S. E.; et al.

Pressure-induced structural transformations, orbital order and antiferromagnetism in $\text{La}_{0.75}\text{Ca}_{0.25}\text{MnO}_3$

EUROPEAN PHYSICAL JOURNAL B 86 (8), 360, AUG 2013

43. Tiwari, Brajesh; Surendra, M. Krishna; Rao, M. S. Ramachandra

HoCrO_3 and YCrO_3 : a comparative study

JOURNAL OF PHYSICS-CONDENSED MATTER 25 (21), 216004, MAY 29 2013

42. Kumar, A.; Shahi, P.; Kumar, S.; et al.

Raman effect and magnetic properties of doped TbMnO_3

JOURNAL OF PHYSICS D-APPLIED PHYSICS 46 (12), 125001, MAR 27 2013

41. Anokhin, A.S., Bunina, O.A., Golovko, Yu.I., Mukhortov, V.M., Yuzyuk, Yu.I., Simon, P.

Raman and X-ray diffraction study of $(\text{Ba,Sr})\text{TiO}_3/(\text{Bi,Nd})\text{FeO}_3$ multilayer heterostructures

Thin Solid Films 545, pp. 267-271, 2013

40. Dang, N.T., Kozlenko, D.P., Kichanov, S.E., Dubrovinsky, L.S., Jiráček, Z., Levin, D.M., Lukin, E.V., Savenko, B.N.

Structural and magnetic phase transitions occurring in $\text{Pr}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ manganite at high pressures

JETP Letters 97 (9), pp. 540-545, 2013

39. Pham, D.H.Y., Nguyen, D.T., Pham, D.T., Hoang, N.N., Pham, T.T.

Optical spectra of the colloidal Fe-doped manganate $\text{CaMn}_{1-x}\text{Fe}_x\text{O}_3$ ($x = 0, 0.01, 0.03, 0.05$)

Journal of the Korean Physical Society 62 (12), pp. 2133-2138, 2013

38. Yi, W., Liang, Q., Matsushita, Y., Tanaka, M., Hu, X., Belik, A.A.

- Crystal structure and properties of high-pressure-synthesized BiRhO₃, LuRhO₃, and NdRhO₃
Journal of Solid State Chemistry 200, pp. 271-278, 2013
37. Jativa, J.; Jurado, J. F.; Vargas-Hernandez, C.
Hydrothermal synthesis, magnetic susceptibility, electrical transport and vibrational order of the polycrystalline structure La_{0.5}Ba_{0.5}MnO₃
REVISTA MEXICANA DE FISICA 58 (2) Suppl. S, 19-23, DEC 2012
36. Bielecki, J., Svedlindh, P., Tibebe, D.T., Cai, S., Eriksson, S.-G., Börjesson, L., Knee, C.S.
Structural and magnetic properties of isovalently substituted multiferroic BiFeO₃: Insights from Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 86 (18), art. no. 184422, 2012
35. Stanislavchuk, T.N., Sirenko, A.A., Litvinchuk, A.P., Luo, X., Cheong, S.-W.
Electronic band structure and optical phonons of BaSnO₃ and Ba_{0.97}La_{0.03}SnO₃ single crystals: Theory and experiment
Journal of Applied Physics 112 (4), art. no. 044108, 2012
34. Álvarez-Serrano, I., López, M.L., Rubio, F., García-Hernández, M., Cuello, G.J., Pico, C., Luisa Veiga, M.
Non-symmetric superparamagnetic clusters in the relaxor manganites Sr_{2-x}BixMnTiO₆ (0 ≤ x ≤ 0.75)
Journal of Materials Chemistry 22 (23), pp. 11826-11835, 2012.
33. Runka, T., Berkowski, M.
Perovskite La_{1-x}Sr_xGa_{1-y}Mn_yO₃ solid solution crystals: Raman spectroscopy characterization
Journal of Materials Science 47 (14), pp. 5393-5401, 2012.
32. Kuznetsova T. G.; Sadykov V. A.; Lunin V. V.
Nanocomposite Structure and Reactivity of Perovskites Based on Lanthanum Manganites
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A 86 (4), 606-620, APR 2012.
31. Kozlenko, D.P., Chan, T.A., Trukhanov, A.V., Kichanov, S.E., Trukhanov, S.V., Dubrovinsky, L.S., Savenko, B.N.
Effect of high pressure on the crystal and magnetic structure and on the Raman spectra in Pr_{0.7}Ba_{0.3}MnO₃
JETP Letters 94 (7), 579-584, 2011.
30. Chopelas, A.
Single-crystal Raman spectra of YAlO₃ and GdAlO₃: Comparison to several orthorhombic ABO₃ perovskites
Physics and Chemistry of Minerals 38 (9), pp. 709-726, 2011.
29. Hirai, S., Kojima, Y., Ohfujii, H., Nishiyama, N., Irifune, T., Klemme, S., Bromiley, G., Attfield, J.P.
High-pressure Raman studies and heat capacity measurements on the MgSiO₃ analogue CaIr_{0.5}Pt_{0.5}O₃
PHYSICS AND CHEMISTRY OF MINERALS 38 (8) Pages: 631-637, SEP 2011.
28. Antonakos, A., Liarokapis, E., Aydogdu, G.H., Habermeier, H.-U.
Strain induced phase separation on La_{0.5}Ca_{0.5}MnO₃ thin films
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 323 (5) Pages: 620-630, MAR 2011.
27. Kozlenko, D.P., Chan, T.A., Kichanov, S.E., Jiráček, Z., Dubrovinsky, L.S., Savenko, B.N.
Structural and magnetic phase transitions in Pr_{0.7}Ca_{0.3}MnO₃ at high pressures
JETP LETTERS 92 (9) Pages: 590-594, Published: JAN 2011.
26. Guennou, M., Bouvier, P., Krikler, B., Kreisel, J., Haumont, R., Garbarino, G.
High-pressure investigation of CaTiO₃ up to 60 GPa using x-ray diffraction and Raman spectroscopy
PHYSICAL REVIEW B 82 (13) Article Number: 134101, OCT 4 2010.
25. Rout G. C.; Panda Saswati; Behera S. N.
Theoretical study of the Raman active CDW gap mode in manganites
JOURNAL OF PHYSICS-CONDENSED MATTER 22 (37) Article Number: 376003, SEP 22 2010.
24. Liu Ying-Xin; Qin Shan; Jiang Jian-Zhong; et al.
High pressure X-ray diffraction study of CaMnO₃ perovskite
CHINESE PHYSICS C 34 (7) Pages: 1025-1028, JUL 2010.
23. Paszkowicz, W., Pietosa, J., Woodley, S.M., Dłuzewski, P.A., Kozłowski, M., Martin, C.
Lattice parameters and orthorhombic distortion of CaMnO₃
Powder Diffraction 25 (1), art. no. 013001PDJ, pp. 46-59 (2010).
22. Sopracase, R., Gruener, G., Olive, E., Soret, J.-C.
Infrared study of the phonon modes in PrMnO₃ and CaMnO₃
Physica B: Condensed Matter 405 (1), pp. 45-52 (2010).
21. Lampakis, D., Antonakos, A., Liarokapis, E., Filippi, M., Prellier, W.
Pressure induced insulator-metal phase transition on Pr_{0.6}Ca_{0.4}MnO₃ thin films
Journal of Physics Conference Series Volume: 121 Article Number: 052002 DOI: 10.1088/1742-6596/121/5/052002 Published: 2008
20. Antonakos, A., Palles, D., Liarokapis, E., Filippi, M., Prellier, W.
Evaluation of the strains in charge-ordered Pr_{1-x}Ca_xMnO₃ thin films using Raman spectroscopy
Journal of Applied Physics 104 (6), art. no. 063508 (2008).

19. Bhattacharjee, S., Bousquet, E., Ghosez, P.
First-principles study of the dielectric and dynamical properties of orthorhombic CaMnO_3
Journal of Physics Condensed Matter 20 (25), art. no. 255229 (2008).
18. Kim, M., Barath, H., Cooper, S.L., Abbamonte, P., Fradkin, E., Rübhausen, M., Zhang, C.L., Cheong, S.-W.
Raman scattering studies of the temperature- and field-induced melting of charge order in $\text{La}_x\text{Pr}_{1-x}\text{MnO}_3$
Physical Review B - Condensed Matter and Materials Physics 77 (13), art. no. 134411 (2008).
17. Buch, J.J.U., Lalitha, G., Pathak, T.K., Vasoya, N.H., Lakhani, V.K., Reddy, P.V., Kumar, R., Modi, K.B.
Structural and elastic properties of Ca-substituted LaMnO_3 at 300 K
Journal of Physics D: Applied Physics 41 (2), art. no. 025406 (2008).
16. Nikiforov, A.E., Gontchar, L.E., Popov, S.E., Kotomanov, S.V., Larin, A.V.
Charge-ordering in $\text{La}_{0.333}\text{Ca}_{0.667}\text{MnO}_3$
Physica Status Solidi (C) Current Topics in Solid State Physics 4 (3), pp. 1222-1225 (2007).
15. Chan TS, Liu RS, Yang CC, et al.
Chemical size effect on the magnetic and electrical properties in the $(\text{Tb}_{1-x}\text{Eu}_x)\text{MnO}_3$ ($0 \leq x \leq 1.0$) System
JOURNAL OF PHYSICAL CHEMISTRY B 111 (9), pp.2262-2267 (2007).
14. Andreasson J, Holmlund J, Knee CS, et al.
Franck-Condon higher order lattice excitations in the $\text{LaFe}_{1-x}\text{Cr}_x\text{O}_3$ ($x=0, 0.1, 0.5, 0.9, 1.0$) perovskites due to Fe-Cr charge transfer effects
PHYSICAL REVIEW B 75 (10) Art. No. 103402 (2007).
13. Chan TS, Liu RS, Yang CC, et al.
Influence of oxygen defects on the crystal structure and magnetic properties of the $(\text{Tb}_{1-x}\text{Na}_x)\text{MnO}_{3-y}$ ($0 \leq x \leq 0.3$) system
INORGANIC CHEMISTRY 46 (11), 4575-4582 (2007).
12. Charpentier, S., Gill-Comeau, M., Jandl, S., Fournier, P.
Observation of charge ordering by Raman scattering in $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
Journal of Physics Condensed Matter 18 (31), art. no. 014, pp. 7193-7202 (2006).
11. Jandl, S., Mukhin, A.A., Ivanov, V.Yu., Balbashov, A.M.
Micro-Raman study and phase transitions of $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$
Journal of Physics Condensed Matter 18 (5), pp. 1667-1676 (2006).
10. Kim, J., Jung, S., Park, M.S., Lee, S.-I., Drew, H.D., Cheong, H., Kim, K.H., Choi, E.J.
Infrared signature of ion displacement in the noncollinear spin state of orthorhombic YMnO_3
Physical Review B - Condensed Matter and Materials Physics 74 (5), art. no. 052406 (2006)
9. Rozenberg, G.Kh., Pasternak, M.P., Xu, W.M., Dubrovinsky, L.S., Carlson, S., Taylor, R.D.
Consequences of pressure-instigated spin crossover in RFeO_3 perovskites; a volume collapse with no symmetry modification
Europhysics Letters 71 (2), pp. 228-234 (2005)
8. Cohn, J.L., Chiorescu, C., Neumeier, J.J.
Polaron transport in the paramagnetic phase of electron-doped manganites
Physical Review B - Condensed Matter and Materials Physics 72 (2), art. no. 024422 (2005)
7. Ghosh, S., Kamaraju, N., Seto, M., Fujimori, A., Takeda, Y., Ishiwata, S., Kawasaki, S., Sood, A.K.
Raman scattering in CaFeO_3 and $\text{La}_{0.33}\text{Sr}_{0.67}\text{FeO}_3$ across the charge-disproportionation phase transition
Physical Review B - Condensed Matter and Materials Physics 71 (24), pp. 1-7 (2005)
6. Xiong YM, Chen T, Wang GY, et al.
Raman spectra in epitaxial thin films of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.33, 0.5$) grown on different substrates
PHYSICAL REVIEW B 70 (9): Art. No. 094407 SEP 2004
5. Garbarino G, Acha C, Vega D, et al.
Revealing polarons with high pressure on low electron-doped manganites
PHYSICAL REVIEW B 70 (1): Art. No. 014414 JUL 2004
4. Tatsi A, Papadopoulou EL, Lampakis D, et al.
Raman study in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
ACTA PHYS POL A 105 (1-2): 99-106 JAN-FEB 2004
3. Tatsi A, Papadopoulou EL, Lampakis D, et al.
Raman study of anharmonic effects in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
PHYS REV B 68 (2): Art. No. 024432 JUL 1 2003
2. Wang ZW, Saxena SK, Neumeier JJ
Raman scattering study on pressure-induced phase transformation of marokite (CaMn_2O_4)
J SOLID STATE CHEM 170 (2): 382-389 FEB 1 2003
1. Martin-Carron L, de Andres A, Martinez-Lope MJ, et al.
Raman phonons as a probe of disorder, fluctuations, and local structure in doped and undoped orthorhombic and rhombohedral manganites
PHYS REV B 66 (17): Art. No. 174303 NOV 1 2002

40. “Raman spectroscopy of CaRuO_3 ”

N. Kolev, C. L. Chen, M. Gospodinov, R. P. Bontchev, V. N. Popov, A. P. Litvinchuk, M. V. Abrashev, V. G. Hadjiev, and M. N. Iliev
Phys. Rev. B 66, 014101 (2002).

16. Spin-phonon coupling in epitaxial SrRuO_3 heterostructures
Jeong, SG (Jeong, Seung Gyo) Lim, SY (Lim, Soo Yeon) Kim, J (Kim, Jiwoong) Park, S (Park, Sungkyun) Cheong, H (Cheong, Hyeonsik) Choi, WS (Choi, Woo Seok)
NANOSCALE Volume12 Issue26 Page13926-13932 PublishedJUL 14 2020

15. Investigation of New B-Site-Disordered Perovskite Oxide $\text{CaLaScRuO}_{6+\delta}$: An Efficient Oxygen Bifunctional Electrocatalyst in a Highly Alkaline Medium

Kumar, N (Kumar, Nikhil) Kumar, M (Kumar, Mukesh) Nagaiah, TC (Nagaiah, Tharamani C.) Siruguri, V (Siruguri, Vasudeva) Rayaprol, S (Rayaprol, Sudhindra) Yadav, AK (Yadav, Ashok Kumar) Jha, SN (Jha, Shambhu Nath) Bhattacharyya, D (Bhattacharyya, Dibyendu) Paul, AK (Paul, Avijit Kumar)
ACS APPLIED MATERIALS & INTERFACES Volume12 Issue8 Page9190-9200 PublishedFEB 26 2020

14. Effect of microstructure on the electronic transport properties of epitaxial CaRuO_3 thin films

Daptary, G.N., Sow, C., Sarkar, S., (...), Sil, A., Bid, A.
Physica B: Condensed Matter 511, pp. 74-79 (2017)

13. Thakur, R., Thakur, R.K., Gaur, N.K.

Elastic and thermal properties of $\text{Sr}_{1-x}\text{Ca}_x\text{RuO}_3$
International Journal of Modern Physics B 27 (17), art. no. 1350054, 2013

12. Tai, T., Nishide, M., Matsuoka, M., Kamo, T., Funakubo, H., Katoda, T., Shima, H., (...), Yamamoto, T.

Investigation of sputtering damage in SrRuO_3 films prepared by sputtering with raman and x-ray photoemission spectroscopies
Japanese Journal of Applied Physics 51 (9 PART 2), art. no. 09LA19, 2012

11. Demkó, L., Bordács, S., Vojta, T., Nozadze, D., Hrahsheh, F., Svoboda, C., Dóra, B., (...), Kézsmárki, I.

Disorder promotes ferromagnetism: Rounding of the quantum phase transition in $\text{Sr}_{1-x}\text{Ca}_x\text{RuO}_3$
Physical Review Letters 108 (18), art. no. 185701, 2012.

10. Gat-Malureanu, I.M., Carlo, J.P., Goko, T., Fukaya, A., Ito, T., Kyriakou, P.P., Larkin, M.I., (...), Uemura, Y.J.

Muon spin relaxation and susceptibility measurements of an itinerant-electron system $\text{Sr}_{1-x}\text{Ca}_x\text{RuO}_3$: Quantum evolution from ferromagnet to paramagnet
Physical Review B - Condensed Matter and Materials Physics 84 (22), art. no. 224415, 2011.

9. Chopelas, A.

Single-crystal Raman spectra of YAlO_3 and GdAlO_3 : Comparison to several orthorhombic ABO_3 perovskites
Physics and Chemistry of Minerals 38 (9), pp. 709-726, 2011.

8. Yun, B.K., Koo, Y.S., Jung, J.H., Song, M., Yoon, S.

Effect of hydroxyl group on global and local structures of hydrothermally grown KNbO_3 nanorods
MATERIALS CHEMISTRY AND PHYSICS 129 (3) Pages: 1071-1074, OCT 3 2011.

7. Wang, G.-T., Zhang, M.-P., Yang, Z.-X., Fang, Z.

Orbital orderings and optical conductivity of SrRuO_3 and CaRuO_3 : First-principles studies
Journal of Physics Condensed Matter 21 (26), art. no. 265602 (2009).

6. Samata, H., Saeki, Y., Mizusaki, S., Nagata, Y., Ozawa, T.C., Sato, A.

Electrochemical crystal growth of perovskite ruthenates
Journal of Crystal Growth 311 (3), pp. 623-626 (2009).

5. Maiti, K., Singh, R.S., Medicherla, V.R.R.

Observation of particle hole asymmetry and phonon excitations in non-Fermi-liquid systems: A high-resolution photoemission study of ruthenates
Europhysics Letters 78 (1), art. no. 17002 (2007)

4. Kamal, S., Kim, D.M., Eom, C.B., Dodge, J.S.

Terahertz-frequency carrier dynamics and spectral weight redistribution in the nearly magnetic metal CaRuO_3
Physical Review B - Condensed Matter and Materials Physics 74 (16), art. no. 165115 (2006)

3. Markovich V, Auslender M, Fita I, et al.

Interplay between itinerant and localized states in $\text{CaMn}_{1-x}\text{Ru}_x\text{O}_3$ ($x \leq 0.5$) manganites
PHYSICAL REVIEW B 73 (1): Art. No. 014416 JAN 2006

2. Tkach A, Vilarinho PM, Kholkin AL, et al.

Lattice dynamics and dielectric response of Mg-doped SrTiO_3 ceramics in a wide frequency range
JOURNAL OF APPLIED PHYSICS 97 (4): Art. No. 044104 FEB 15 2005

1. Mathieu R, Asamitsu A, Yamada H, et al.

Scaling of the anomalous Hall effect in $\text{Sr}_{1-x}\text{Ca}_x\text{RuO}_3$

41. *“Correlation between the chemical bonding and the physical properties of the CN_x films obtained by pulsed laser deposition from C targets in low-pressure N₂”*

E. György, I. N. Mihailescu, M. Baleva, M. Abrashev, E. P. Trifonova, A. Szekeres, and A. Perrone
Mater. Sci. Engineering B 97, 251 – 257 (2003).

6. Tsvetkova, T., Balabanov, S., Bischoff, L., Krastev, V., Stefanov, P., Avramova, I.
X-ray photoelectron study of Si⁺ ion implanted polymers
Journal of Physics: Conference Series 253 (1), art. no. 012070, 2010.

5. Wnuk, J.D., Gorham, J.M., Fairbrother, D.H.
Growth and microstructure of nanoscale amorphous carbon nitride films deposited by electron beam irradiation of 1, 2-diaminopropane
Journal of Physical Chemistry C 113 (28), pp. 12345-12354 (2009).

4. Riascos, H., Zambrano, G., Camps, E., Prieto, P.
Influence of nitrogen gas pressure on plume-plasma and chemical bonding of carbon nitride films synthesized by pulsed laser deposition
Revista Mexicana de Física 53 (7), pp. 274-278 (2007).

3. Yang, L., May, P.W., Yin, L., Scott, T.B., Smith, J.A., Rosser, K.N.
Growth and characterization of self-assembled carbon nitride leaf-like nanostructures
Nanotechnology 17 (23), art. no. 015, pp. 5798-5804 (2006)

2. Petrik, P., Lohner, T., Égerházi, L., Geretovszky, Zs.
Optical models for the ellipsometric characterization of carbon nitride layers prepared by inverse pulsed laser deposition
Applied Surface Science 253 (1 SPEC. ISS.), pp. 173-176 (2006)

1. Naydenov, N., Popov, A.
Pre- and post-service microhardness measurements of electrical contacts operating at Kozloduy NPP
Materials Science and Engineering B: Solid-State Materials for Advanced Technology 132 (3), pp. 247-252 (2006)

42. *“Role of Jahn-Teller disorder in Raman scattering of mixed-valence manganites”*

M. N. Iliev, M. V. Abrashev, V. N. Popov, and V. G. Hadjiev
Phys. Rev. B 67, 212301 (2003).

100. Compression effect on structure of the Li-stabilized high-temperature phase of Mn₃(VO₄)(2) with composition Li_{0.2}Mn_{2.9}(VO₄)(2)
- Raman spectroscopic and X-ray diffraction investigations
Kesari, S (Kesari, Swayam) Garg, AB (Garg, Alka B.) Clemens, O (Clemens, Oliver) Rao, R (Rao, Rekha)
JOURNAL OF ALLOYS AND COMPOUNDS Volume870 Article Number159418 PublishedJUL 25 2021

99. Structural, dielectric, and magnetic properties of LaCo_{0.2}Mn_{0.8}O₃ and La₂CoMnO₆ perovskite materials
Yousif, NM (Yousif, N. M.) Makram, N (Makram, N.) Wahab, LA (Wahab, L. A.)
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY Volume98 Issue1 Page238-251 PublishedAPR 2021

98. Effects of particle sizes of starting oxides on the properties of spinel-type Mn_{1.1}Co_{1.5}Fe_{0.4}O₄ negative temperature coefficient ceramics
Wang, B (Wang, Bing) Wang, JH (Wang, Junhua) Chang, AM (Chang, Aimin) Yao, JC (Yao, Jincheng)
CERAMICS INTERNATIONAL Volume47 Issue2 Page2531-2537 PublishedJAN 15 2021

97. Surface Restructuring of Thin-Film Electrodes Based on Thermal History and Its Significance for the Catalytic Activity and Stability at the Gas/Solid and Solid/Solid Interfaces
Celikbilek, O., Cavallaro, A., Kerherve, G., (...), Kilner, J.A., Skinner, S.J.
ACS Applied Materials and Interfaces 12(30), pp. 34388-34401 (2020)

96. Role of Ni substitution on structural, magnetic and electronic properties of epitaxial CoCr₂O₄ spinel thin films
Mohanty, P., Chowdhury, S., Choudhary, R.J., (...), Prinsloo, A.R.E., Sheppard, C.J.
Nanotechnology 31(28),285708 (2020)

95. Site substitution in GdMnO₃: Effects on structural, electronic, and magnetic properties
Mahana, S (Mahana, Sudipta) Pandey, SK (Pandey, Shishir Kumar) Rakshit, B (Rakshit, Bipul) Nandi, P (Nandi, Pronoy) Basu, R (Basu, Raktima) Dhara, S (Dhara, Sandip) Turchini, S (Turchini, S.) Zema, N (Zema, N.) Manju, U (Manju, U.) Mahanti, SD (Mahanti, Subhendra D.)
PHYSICAL REVIEW B Volume102 Issue24 Article Number245120 PublishedDEC 15 2020

94. Anomalous magnetism in Al doped La₂CoMnO₆ ceramics
Xin, Y (Xin, Yang) Shi, L (Shi, Lei) Zhao, JY (Zhao, Jiying) Yuan, XY (Yuan, Xueyou) Zhou, SM (Zhou, Shiming) Hou, L (Hou, Li) Tong, RX (Tong, Ruixue)
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume510 Article Number166950 PublishedSEP 15 2020

93. Valence-induced distortion controls the resistivity and thermal stability of Co_{2.77}Mn_{1.71}Fe_{1.10}Zn_{0.42}O₈ ceramics
Wang, B (Wang, Bing) Yao, JC (Yao, Jincheng) Wang, JH (Wang, Junhua) Chang, AM (Chang, Aimin)
MATERIALS & DESIGN Volume192 Article Number108736 PublishedAUG 2020

92. Surface Conditions That Constrain Alkane Oxidation on Perovskites
Koch, G (Koch, Gregor) Havecker, M (Haevecker, Michael) Teschner, D (Teschner, Detre) Carey, SJ (Carey, Spencer J.) Wang, YQ (Wang, Yuanqing) Kube, P (Kube, Pierre) Hetaba, W (Hetaba, Walid) Lunkenbein, T (Lunkenbein, Thomas) Auffermann, G (Auffermann, Gudrun) Timpe, O (Timpe, Olaf)
ACS CATALYSIS Volume10 Issue13 Page7007-7020 PublishedJUL 2 2020
91. Structural-distortion modes and transport properties of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ by co-doping Dy^{3+} and Sr^{2+} ions
Tang, YF (Tang, Y. F.) Zhang, AM (Zhang, A. M.) Shi, JY (Shi, J. Y.) Wu, XS (Wu, X. S.)
CERAMICS INTERNATIONAL Volume46 Issue8 Page10598-10602 PartA PublishedJUN 1 2020
90. Backfolded acoustic phonons as ultrasonic probes in metal-oxide superlattices
Lyzwa, F (Lyzwa, F.) Chan, A (Chan, A.) Khmaladze, J (Khmaladze, J.) Fursich, K (Fuersich, K.) Keimer, B (Keimer, B.) Bernhard, C (Bernhard, C.) Minola, M (Minola, M.) Mallett, BPP (Mallett, B. P. P.)
PHYSICAL REVIEW MATERIALS Volume4 Issue4 Article Number043606 PublishedAPR 28 2020
89. Role of Ni substitution on structural, magnetic and electronic properties of epitaxial CoCr_2O_4 spinel thin films
Mohanty, P (Mohanty, P.) Chowdhury, S (Chowdhury, S.) Choudhary, RJ (Choudhary, R. J.) Gome, A (Gome, A.) Reddy, VR (Reddy, V. R.) Umapathy, GR (Umapathy, G. R.) Ojha, S (Ojha, S.) Carleschi, E (Carleschi, E.) Doyle, BP (Doyle, B. P.) Prinsloo, ARE (Prinsloo, A. R. E.)
NANOTECHNOLOGY Volume31 Issue28 Article Number285708 PublishedAPR 24 2020
88. Influence of trivalent lanthanides substitution on the thermoelectric properties of nanostructured $\text{Ca}_{1-x}\text{Ln}_{(3+)(x)}\text{MnO}_{3-\delta}$ ($\text{Ln}_{(3+)} = \text{Sm, Ce, La; } x=0, 0.1$)
Mary, SB (Mary, S. Berbeth) Rajesh, AL (Rajesh, A. Leo)
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume31 Issue8 Page6479-6487 PublishedAPR 2020
87. Structural, optical and magneto-electric coupling analysis in 'Y' doped double perovskite $\text{La}_2\text{NiMnO}_6$ nanoparticles
Kumar, M (Kumar, Manish) Prajapati, B (Prajapati, Brijmohan) Singh, A (Singh, Abhishek) Kumar, S (Kumar, Shiv) Kumar, A (Kumar, Arvind) Mittal, S (Mittal, Srishti) Aditya (Aditya)
CHEMICAL PHYSICS Volume532 Article Number110688 PublishedAPR 1 2020
86. Microstructure and electrical transport mechanisms of the Ca-doped LaMnO_3 films grown on MgO substrate
Daoudi, K (Daoudi, Kais) El-Helali, S (El-Helali, S.) Othmen, Z (Othmen, Z.) Suleiman, BM (Suleiman, B. M.) Tsuchiya, T (Tsuchiya, T.)
JOURNAL OF MATERIMICS Volume6 Issue1 Page17-23 PublishedMAR 2020
85. Monitoring intermediate species formation by DRIFT during the simultaneous removal of soot and NO_x over LaAgMnO_3 catalyst
Urán, L., Gallego, J., Ruiz, W., (...), Bueno-López, A., Santamaría, A.
Applied Catalysis A: General 588,117280 (2019)
84. Strain-dependent structure and Raman behaviours in the heavy-ion irradiated manganite at extreme low dose
Hoang, NN (Nam Nhat Hoang) Pham, DHY (Duc Huyen Yen Pham) Nguyen, TN (The Nghia Nguyen)
SCIENTIFIC REPORTS Volume9 Article Number19204 PublishedDEC 16 2019
83. Optical Study of the Electronic Structure and Lattice Dynamics of $\text{NdBaMn}_2\text{O}_6$ Single Crystals
Mero, RD (Mero, Rea Divina) Ogawa, K (Ogawa, Kirari) Yamada, S (Yamada, Shigeki) Liu, HL (Liu, Hsiang-Lin)
SCIENTIFIC REPORTS Volume9 Article Number18164 PublishedDEC 3 2019
82. Probing the Subtle Magnetic Transitions with Raman Spectroscopy in a Bi-layered $\text{La}_{1.15}\text{Sr}_{1.85}\text{Mn}_2\text{O}_7$ Single Crystal
Egilmez, M (Egilmez, M.) Hamdan, NM (Hamdan, N. M.) Alawadhi, H (Alawadhi, H.) AlGhabra, MS (AlGhabra, M. S.) Prabhakaran, D (Prabhakaran, D.)
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume32 Issue12 Page3939-3945 PublishedDEC 2019
81. Polaronic Emergent Phases in Manganite-Based Heterostructures
Moshnyaga, V (Moshnyaga, Vasily) Samwer, K (Samwer, Konrad)
CRYSTALS Volume9 Issue10 Article Number489 PublishedOCT 2019
80. Evidence for ferromagnetic clusters at room temperature in Dy and Mn site co-substituted compounds: $\text{Dy}_{0.55}\text{Sr}_{0.45}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$
Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Satya, AT (Satya, A. T.) Sethupathi, K (Sethupathi, K.)
JOURNAL OF ALLOYS AND COMPOUNDS Volume792 Page411-417 PublishedJUL 5 2019
79. Jahn-Teller reconstructed surface of the doped manganites shown by means of surface-enhanced Raman spectroscopy
Merten, S (Merten, S.) Bruchmann-Bamberg, V (Bruchmann-Bamberg, V) Damaschke, B (Damaschke, B.) Samwer, K (Samwer, K.) Moshnyaga, V (Moshnyaga, V)
PHYSICAL REVIEW MATERIALS Volume3 Issue6 Article Number060401 PublishedJUN 28 2019
78. Mechanosynthesis of the Whole $\text{Y}_{1-x}\text{Bi}_x\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ Perovskite System: Structural Characterization and Study of Phase Transitions
Quintana-Cilleruelo, JA (Angel Quintana-Cilleruelo, Jose) Veerapandiyan, VK (Veerapandiyan, Vignaswaran K.) Deluca, M (Deluca, Marco) Alguero, M (Alguero, Miguel) Castro, A (Castro, Alicia)
MATERIALS Volume12 Issue9 Article Number1515 PublishedMAY 1 2019
77. Magnetic-Field-Induced Suppression of Jahn-Teller Phonon Bands in $(\text{La}_{0.6}\text{Pr}_{0.4})(0.7)\text{Ca}_{0.3}\text{MnO}_3$: the Mechanism of Colossal Magnetoresistance shown by Raman Spectroscopy
Merten, S (Merten, S.) Shapoval, O (Shapoval, O.) Damaschke, B (Damaschke, B.) Samwer, K (Samwer, K.) Moshnyaga, V (Moshnyaga, V)
SCIENTIFIC REPORTS Volume9 Article Number2387 PublishedFEB 20 2019

76. Integration of $\text{LaMnO}_3+\delta$ films on platinized silicon substrates for resistive switching applications by PI-MOCVD
Rodriguez-Lamas, R (Rodriguez-Lamas, Raquel) Plat, D (Plat, Dolores) Chaix-Pluchery, O (Chaix-Pluchery, Odette) Meunier, B (Meunier, Benjamin) Wilhelm, F (Wilhelm, Fabrice) Rogalev, A (Rogalev, Andrei) Rapenne, L (Rapenne, Laetitia) Mescot, X (Mescot, Xavier) Rafhay, Q (Rafhay, Quentin) Roussel, H (Roussel, Herve)
BEILSTEIN JOURNAL OF NANOTECHNOLOGY Volume10 Page389-398 PublishedFEB 7 2019
75. Surface reconstructions and modified surface states in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$
Vasudevan, RK (Vasudevan, Rama K.) Dixit, H (Dixit, Hemant) Tselev, A (Tselev, Alexander) Qiao, L (Qiao, Liang) Meyer, TL (Meyer, Tricia L.) Cooper, VR (Cooper, Valentino R.) Baddorf, AP (Baddorf, Arthur P.) Lee, HN (Lee, Ho Nyung) Ganesh, P (Ganesh, P.) Kalinin, SV (Kalinin, Sergei, V)
PHYSICAL REVIEW MATERIALS Volume2 Issue10 Article Number104418 PublishedOCT 31 2018
74. First principles investigation of electronic and optical properties of AgAlO_2
Rizwan, M (Rizwan, Muhammad) Haider, I (Haider, Imran) Mahmood, T (Mahmood, Tariq) Shakil, M (Shakil, Muhammad) ul Hassan, M (ul Hassan, Mahmood) Jin, HB (Jin, Hai-Bo) Bao, CC (Bao, Cao Chuan)
CHINESE JOURNAL OF PHYSICS Volume56 Issue5 Page2186-2190 PublishedOCT 2018
73. Effects of A-site cation disordering on the transport properties of half-doping $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ manganites
Shi, JY (Shi, J. Y.) Zhang, AM (Zhang, A. M.) Wang, WX (Wang, W. X.) Cui, JY (Cui, J. Y.) Zhang, WJ (Zhang, W. J.) Wu, XS (Wu, X. S.)
CHEMICAL PHYSICS LETTERS Volume706 Page223-227 PublishedAUG 16 2018
72. Hole doping effect on structure, transport and magnetic properties of $\text{Dy}_{1-x}\text{Ba}_x\text{MnO}_3$ ($0 \leq x \leq 1$)
Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Satya, AT (Satya, A. T.) Sethupathi, K (Sethupathi, K.)
JOURNAL OF ALLOYS AND COMPOUNDS Volume744 Page82-89 PublishedMAY 5 2018
71. Effect of Annealing Temperature on the Structural and the Electrical Transport Properties of $\text{La}_2\text{NiMnO}_6$ Nanoparticles
Chakraborty, D (Chakraborty, Deblina) Nandi, U (Nandi, Upendranath) Dey, AK (Dey, Animesh Kumar) Dasgupta, P (Dasgupta, Papri) Poddar, A (Poddar, Asok) Jana, D (Jana, Debnarayan)
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume255 Issue4 Article Number1700436 PublishedAPR 2018
70. Superconductor sandwiches: cuprate-manganite multilayers with a remarkable new ground state
Mallett, BPP (Mallett, B. P. P.) Marsik, P (Marsik, P.) Khmaladze, J (Khmaladze, J.) Arul, R (Arul, R.) Minola, M (Minola, M.) Simpson, MC (Simpson, M. C.) Bernhard, C (Bernhard, C.)
OXIDE-BASED MATERIALS AND DEVICES IX Book SeriesProceedings of SPIE Volume10533 Article NumberUNSP 105330Y
Published2018
69. Modification of low temperature magnetic interactions in $\text{Dy}_{1-x}\text{Eu}_x\text{MnO}_3$
Yadagiri, K (Yadagiri, K.) Nithya, R (Nithya, R.) Sharma, S (Sharma, Shilpam) Satya, AT (Satya, A. T.)
RSC ADVANCES Volume8 Issue24 Page13537-13545 Published2018
68. Structural, thermal, and transport properties of $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ nanoparticles synthesized via the sol-gel auto-combustion technique
Saleem, M (Saleem, M.) Varshney, D (Varshney, Dinesh)
RSC ADVANCES Volume8 Issue3 Page1600-1609 Published2018
67. Defective and "c-Disordered" Hortensia-like Layered MnO_x as an Efficient Electrocatalyst for Water Oxidation at Neutral pH
Zhang, B., Chen, H., Daniel, Q., (...), Rensmo, H., Sun, L.
ACS Catalysis 7(9), pp. 6311-6322 (2017)
66. Manifestation of quantum rotor orbital excitations in Raman spectra of Jahn-Teller crystal LaMnO_3
Kovaleva, N.N., Kusmartseva, O.E., Kugel, K.I., Kusmartsev, F.V.
Journal of Physics: Conference Series 833(1),012005 (2017)
65. Synthesis and physicochemical studies of perovskite manganite $\text{La}_{0.8}\text{Ca}_{0.2}\text{Nn}_{1-x}\text{CoxO}_3$ ($0 \leq x \leq 0.3$)
Turki, D., Ghouri, Z.K., Al-Meer, S., (...), Ellouze, M., Hlil, E.K.
Journal of Magnetism 22(3), pp. 353-359 (2017)
64. Khanahmadzadeh, Salah; Khojasteh, Hossein; Mikaeili, Negar; et al.
Facile synthesis of CaMn_2O_4 nanoparticles and investigation of photocatalytic activity, optical and magnetic properties and its influence on the thermal stability of polymeric nanocomposite
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 5 Pages: 4521-4529 Published: MAR 2017
63. Yadagiri, K.; Nithya, R.; Shukla, Neeraj; et al.
Role of trivalent bismuth ion substitution at Dy site on the physical properties of DyMnO_3
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 695 Pages: 2959-2964 Published: FEB 25 2017
62. Baranovskiy, Andrei; Amouyal, Yaron
Dependence of electrical transport properties of $\text{CaO}(\text{CaMnO}_3)_m$ ($m=1, 2, 3, \text{infinity}$) thermoelectric oxides on lattice periodicity
JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 6 Article Number: 065103 Published: FEB 14 2017
61. Karchev, N (Karchev, Naoum)
Leggett's modes in magnetic systems with Jahn-Teller distortion
ANNALS OF PHYSICS Volume: 363 Pages: 371-384 DOI: 10.1016/j.aop.2015.10.008 Published: DEC 2015

60. Shi, L., Liu, W., Zhao, J., Li, Y., Zhou, S., Guo, Y., Wang, Y.
The magnetic properties and spin-phonon coupling of $\text{Pr}_2\text{CoMnO}_6$ particles
MATERIALS RESEARCH EXPRESS Volume: 2 Issue: 7 Article Number: 076104 DOI: 10.1088/2053-1591/2/7/076104 Published: JUL 2015
59. Singh, Brajendra
Room temperature large positive and negative magnetocapacitance in $\text{CaMn}_{0.95}\text{Fe}_{0.05}\text{O}_{3-\delta}$
MATERIALS LETTERS Volume: 156 Pages: 76-78 Published: OCT 1 2015
58. Fan, JiYu; Xu, Lisha; Zhang, Xiyuan; et al.
Effect of A-site average radius and cation disorder on magnetism and electronic properties in manganite ($A = \text{Sm, Dy, Er}$)
JOURNAL OF MATERIALS SCIENCE Volume: 50 Issue: 5 Pages: 2130-2137 Published: MAR 2015
57. Mishra, Dileep K.; Sathe, V. G.; Rawat, R.; et al.
Controlling phase separation in $\text{La}_{5/8-y}\text{Pr}_y\text{Ca}_3/8\text{MnO}_3$ ($y=0.45$) epitaxial thin films by strain disorder
APPLIED PHYSICS LETTERS Volume: 106 Issue: 7 Article Number: 072401 Published: FEB 16 2015
56. Singh, Brajendra
Structural, transport, magnetic and magnetoelectric properties of $\text{CaMn}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ ($0.0 \leq x \leq 0.4$)
RSC ADVANCES Volume: 5 Issue: 50 Pages: 39938-39945 Published: 2015
55. Cai, Xuan; Shi, Lei; Zhou, Shiming; et al.
Size-dependent structure and magnetic properties of DyMnO_3 nanoparticles
JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 10 Article Number: 103903 Published: SEP 14 2014
54. Patwe, Sadequa J.; Patra, Atanu; Dey, Rita; et al.
Probing the Local Structure and Phase Transitions of $\text{Bi}_4\text{V}_2\text{O}_{11}$ -Based Fast Ionic Conductors by Combined Raman and XRD Studies
JOURNAL OF THE AMERICAN CERAMIC SOCIETY 96 (11), pp. 3448-3456 NOV 2013
53. Reshak, A. H.
First Principle Calculations of Transition Metal Oxide, AgAlO_2 , as Active Photocatalyst: Sustainable Alternative Sources of Energy
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE 8 (7), pp. 9371-9383 JUL 2013
52. Bin, Zhan; Lan Jinle; Lin Yuanhua
Preparation and Characterization of CaMnO_3 Thermoelectric Film
RARE METAL MATERIALS AND ENGINEERING 42 Suppl. 1A, 54-56, JUN 2013
51. M'nassri, R.; Cheikhrouhou-Koubaa, W.; Boudjada, N.; et al.
Magnetocaloric Effects in $\text{Pr}_{0.6-x}\text{Er}_x\text{Sr}_{0.4}\text{MnO}_3$ ($0.0 \leq x \leq 0.2$) Manganese Oxides
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM 26 (5) SI, 1429-1435, MAY 2013
50. Kovaleva, N. N.; Kusmartseva, O. E.; Kugel, K. I.; et al.
Anomalous multi-order Raman scattering in LaMnO_3 : a signature of quantum lattice effects in a Jahn-Teller crystal
JOURNAL OF PHYSICS-CONDENSED MATTER 25 (15), 155602, APR 17 2013
49. Kumar, A.; Shahi, P.; Kumar, S.; et al.
Raman effect and magnetic properties of doped TbMnO_3
JOURNAL OF PHYSICS D-APPLIED PHYSICS 46 (12), 125001, MAR 27 2013
48. Reshak, A.H.
First principle calculations of transition metal oxide, AgAlO_2 , as active photocatalyst: Sustainable alternative sources of energy
International Journal of Electrochemical Science 8 (7), pp. 9371-9383, 2013
47. Liu, H., Zhang, H., Li, Y., Chen, Y., Chen, L., Dong, X., Chen, K., Li, Q.
Magnetism and resistances of slightly dy doped LaMnO_3 solid solutions
Journal of Superconductivity and Novel Magnetism 25 (4) , pp. 1049-1054, 2012.
46. Wu, X.-W., Zhang, H.-X., Liu, X.-J., Zhang, X.-G.
Optical properties and photocatalytic activity of marokite-type CaMn_2O_4
Chinese Physics Letters 28 (10), art. no. 107101, 2011.
45. Gu Yijing; Wang Yunfeng; Wang Tao; et al.
Synthesis, structural and magnetic study of polycrystalline $\text{LaNi}_{(1-x)}\text{Mn}_x\text{O}_3$ films
PHYSICA B-CONDENSED MATTER 406 (14) Pages: 2876-2879, JUL 15 2011.
44. Mishra Dileep K.; Sathe V. G.
Evidence of orbital excitations in $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ probed by Raman spectroscopy
JOURNAL OF PHYSICS-CONDENSED MATTER 23 (7) Article Number: 072203, FEB 23 2011.
43. Jugdersuren, B., Kang, S., DiPietro, R.S., Heiman, D., McKeown, D., Pegg, I.L., Philip, J.
Large low field magnetoresistance in $\text{La}_{(0.67)}\text{Sr}_{(0.33)}\text{MnO}_3$ nanowire devices
JOURNAL OF APPLIED PHYSICS 109 (1) Article Number: 016109, JAN 1 2011.
42. Laref Amel; Luo Shi Jun
Magnetic Excitation and Phonon Dispersion in LaCoO_3 Compound

41. Kumar Pradeep; Saha Surajit; Muthu D. V. S.; et al.
Raman evidence for orbiton-mediated multiphonon scattering in multiferroic TbMnO₃
JOURNAL OF PHYSICS-CONDENSED MATTER 22 (11) Article Number: 115403, MAR 24 2010.
40. Wang Tao; Shi Wangzhou; Fang Xiaodong; et al.
Fabrication of polycrystalline La₂NiMnO₆ thin films on Si (100) substrates by chemical solution deposition
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY 53 (3) Pages: 655-659, MAR 2010.
39. Sopracase Rodolphe; Gruener Gisele; Olive Enrick; et al.
Infrared study of the phonon modes in PrMnO₃ and CaMnO₃
PHYSICA B-CONDENSED MATTER 405 (1) Pages: 45-52, JAN 1 2010.
38. Jandl S.; Nugroho A. A.; Palstra T. T. M.
A comparative Raman study between YbVO₃ and YVO₃
Book Series: Journal of Physics Conference Series 200, Article Number: 032025, 2010.
37. Laref, A., Luo, S.J.
Magnetic excitation and phonon dispersion in LaCoO₃ compound
Journal of the Physical Society of Japan 79 (6), art. no. 064702 (2010).
36. Kumar, P., Saha, S., Muthu, D.V.S., Sahu, J.R., Sood, A.K., Rao, C.N.R.
Raman evidence for orbiton-mediated multiphonon scattering in multiferroic TbMnO₃
Journal of Physics Condensed Matter 22 (11), art. no. 115403 (2010).
35. Chen, C.Z., Cai, C.B., Liu, Z.Y., Peng, L., Gao, B., Fan, F., Lu, Y.M., (...), Dou, S.X.
Stress evolution and lattice distortion induced by thickness variation and lattice misfit in La_{0.67}Sr_{0.33}MnO₃ - δ films
Solid State Communications 150 (1-2), pp. 66-69 (2010).
34. Sopracase, R., Gruener, G., Olive, E., Soret, J.-C.
Infrared study of the phonon modes in PrMnO₃ and CaMnO₃
Physica B: Condensed Matter 405 (1), pp. 45-52 (2010).
33. Rao, M.N., Kaur, N., Chaplot, S.L., Gaur, N.K., Singh, R.K.
Lattice dynamics of orthorhombic perovskite yttrium manganite, YMnO₃
Journal of Physics Condensed Matter 21 (35), art. no. 355402 (2009).
32. Cao, X.-S., Chen, C.-L.
Raman spectra of La_{0.5}Ca_{0.5}MnO₃
Physica Scripta 79 (4), art. no. 045701 (2009).
31. Zhao, S., Shi, L., Zhou, S., Zhao, J., Yang, H., Guo, Y.
Size-dependent magnetic properties and Raman spectra of La₂NiMnO₆ nanoparticles
Journal of Applied Physics 106 (12), art. no. 123901 (2009).
30. Talati, M., Jha, P.K.
Temperature effect on vibrational properties of La_{0.7}Sr_{0.3}MnO₃
International Journal of Modern Physics B 23 (23), pp. 4767-4777 (2009).
29. Cao, X.-S., Chen, C.-L.
Phonon spectra of La_{0.5}Ca_{0.5}MnO₃
Chinese Physics B 18 (7), pp. 2928-2932 (2009).
28. Wang, T., Xu, W., Fang, X., Dong, W., Tao, R., Li, D., Zhao, Y., Zhu, X.
Chemical solution deposition preparation of double-perovskite La₂NiMnO₆ film on LaAlO₃ (0 0 1) substrate
Journal of Alloys and Compounds 475 (1-2), pp. 9-12 (2009).
27. Sathe, V.G., Rawat, R., Dubey, A., Narlikar, A.V., Prabhakaran, D.
Photo-induced insulator-metal transition probed by Raman spectroscopy
Journal of Physics Condensed Matter 21 (7), art. no. 075603 (2009).
26. Guo, H.Z., Burgess, J., Ada, E., Street, S., Gupta, A., Iliev, M.N., Kellock, A.J., Magen, C., Varela, M., Pennycook, S.J.
Influence of defects on structural and magnetic properties of multifunctional La₂NiMnO₆ thin films
PHYSICAL REVIEW B Volume: 77 Issue: 17 Article Number: 174423 DOI: 10.1103/PhysRevB.77.174423 Published: MAY 2008
25. Dubey, A., Sathe, V.G., Rawat, R.
Signature of Jahn-Teller distortion and oxygen stoichiometry in Raman spectra of epitaxial LaMnO₃+ δ thin films
Journal of Applied Physics 104 (11), art. no. 113530 (2008).
24. Andreasson, J., Holmlund, J., Rauer, R., Käll, M., Börjesson, L., Knee, C.S., Eriksson, A.K., (...), Chaudhury, R.P.
Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution
Physical Review B - Condensed Matter and Materials Physics 78 (23), art. no. 235103 (2008).
23. Smirnova, I.S., Bazhenov, A.V., Fursova, T.N., Dubovitskii, A.F., Uspenskaya, L.S., Maksimuk, M.Yu.

- IR-active optical phonons in Pnma-1, Pnma-2 and R over(3, -) c phases of $\text{LaMnO}_3 + \delta$
Physica B: Condensed Matter 403 (21-22), pp. 3896-3902 (2008).
22. Wang, T., Fang, X., Dong, W., Tao, R., Deng, Z., Li, D., Zhao, Y., (...), Zhu, X.
 Fabrication of polycrystalline $\text{La}_2\text{NiMnO}_6$ thin films on LaAlO_3 (1 0 0) substrates by chemical solution deposition
Journal of Crystal Growth 310 (14), pp. 3386-3390 (2008).
21. Ramakrishnan, TV
 Modelling colossal magnetoresistance manganites
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 19 Issue: 12 Article Number: 125211 DOI: 10.1088/0953-8984/19/12/125211 Published: MAR 28 2007
20. Rossiny, J.C.H., Fearn, S., Kilner, J.A., Zhang, Y., Chen, L., Yang, S., Evans, J., (...), Cohen, L.F.
 Characterisation of combinatorial libraries of perovskite materials for SOFC cathode applications
ECS Transactions 7 (1 PART 1), pp. 1003-1013 (2007).
19. Fan, J., Pi, L., He, Y., Ling, L., Dai, J., Zhang, Y.
 Griffiths phase and magnetic polaronic behavior in B-site disordering manganites
Journal of Applied Physics 101 (12), art. no. 123910 (2007)
18. Chan, T.S., Liu, R.S., Yang, C.C., Li, W.-H., Lien, Y.H., Huang, C.Y., Lynn, J.W., (...), Sheu, H.-S.
 Influence of oxygen defects on the crystal structure and magnetic properties of the $(\text{Tb}_{1-x}\text{Na}_x)\text{MnO}_{3-y}$ ($0 \leq x \leq 0.3$) system
Inorganic Chemistry 46 (11), pp. 4575-4582 (2007)
17. Chan, T.S., Liu, R.S., Yang, C.C., Li, W.-H., Lien, Y.H., Huang, C.Y., Lee, J.-F.
 Chemical size effect on the magnetic and electrical properties in the $(\text{Tb}_{1-x}\text{Eu}_x)\text{MnO}_3$ ($0 \leq x \leq 1.0$) system
Journal of Physical Chemistry B 111 (9), pp. 2262-2267 (2007)
16. Li, W.J., Zhang, B., Lu, W.
 Structural properties and Raman spectroscopy of $\text{La}_{2+4x}/3\text{Sr}_{1-4x}/3\text{Mn}_{1-x}\text{Cu}_x\text{O}_3$ ($0 \leq x \leq 0.2$)
Physics Letters, Section A: General, Atomic and Solid State Physics 362 (4), pp. 327-330 (2007)
15. Guo, H., Burgess, J., Street, S., Gupta, A., Calvarese, T.G., Subramanian, M.A.
 Growth of epitaxial thin films of the ordered double perovskite $\text{La}_2\text{NiMnO}_6$ on different substrates
Applied Physics Letters 89 (2), art. no. 022509 (2006)
14. Aruta, C., Angeloni, M., Balestrino, G., Boggio, N.G., Medaglia, P.G., Tebano, A., Davidson, B., (...), De Renzi, R.
 Preparation and characterization of LaMnO_3 thin films grown by pulsed laser deposition
Journal of Applied Physics 100 (2), art. no. 023910 (2006)
13. Charpentier, S., Gill-Comeau, M., Jandl, S., Fournier, P.
 Observation of charge ordering by Raman scattering in $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films
Journal of Physics Condensed Matter 18 (31), art. no. 014, pp. 7193-7202 (2006)
12. Talati, M., Jha, P.K.
 Structure dependent phonon properties of LaMnO_3
Computational Materials Science 37 (1-2), pp. 64-68 (2006)
11. Jandl, S., Laverdière, J., Mukhin, A.A., Ivanov, V.Yu., Balbashov, A.M.
 Raman and infrared quest for orbitons in $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$
Physica B: Condensed Matter 381 (1-2), pp. 214-218 (2006)
10. Jandl S, Mukhin AA, Ivanov VY, et al.
 Micro-Raman study and phase transitions of $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$
JOURNAL OF PHYSICS-CONDENSED MATTER 18 (5): 1667-1676 FEB 8 2006
9. Kartopu G, Es-Souni M
 Microstructural properties of solution-deposited $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ and LaMnO_3 thin films
JOURNAL OF APPLIED PHYSICS 99 (3): Art. No. 033501 FEB 1 2006
8. Dore, P., Postorino, P., Sacchetti, A., Baldini, M., Giambelluca, R., Angeloni, M., Balestrino, G.
 Raman measurements on thin films of the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ manganite: A probe of substrate-induced effects
European Physical Journal B 48 (2), pp. 255-258 (2005)
7. Sacchetti A, Baldini M, Crispoldi F, et al.
 Temperature dependence of the optical phonons in SrMnO_3 manganite: Evidence of a low-temperature structural transition in the
 he xagonal compound
PHYSICAL REVIEW B 72 (17): Art. No. 172407 NOV 2005
6. Asselin S, Jandl S, Fournier P, et al.
 Resonant micro-Raman study of $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$
JOURNAL OF PHYSICS-CONDENSED MATTER 17 (34): 5247-5254 AUG 31 2005
5. Jandl S, Mukhin AA, Ivanov VY, et al.
 Raman-active phonons and Nd^{3+} crystal-field studies of weakly doped $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$
PHYSICAL REVIEW B 72 (2): Art. No. 024423 JUL 2005

4. Venimadhav A, Yates KA, Blamire MG
Scanning Raman spectroscopy for characterizing compositionally spread films
JOURNAL OF COMBINATORIAL CHEMISTRY 7 (1): 85-89 JAN-FEB 2005
3. Guo HZ, Chen ZH, Liu LF, et al.
Structural properties and spin-phonon coupling effect of La_{1-x}TexMnO₃ thin films
APPLIED PHYSICS LETTERS 85 (15): 3172-3174 OCT 11 2004
2. Xiong YM, Chen T, Wang GY, et al.
Raman spectra in epitaxial thin films of La_{1-x}CaxMnO₃ (x=0.33, 0.5) grown on different substrates
PHYSICAL REVIEW B 70 (9): Art. No. 094407 SEP 2004
1. Ishikawa A, Nohara J, Sugai S
Raman study of the orbital-phonon coupling in LaCoO₃
PHYSICAL REVIEW LETTERS 93 (13): Art. No. 136401 SEP 24 2004

43. *“Nanosize gold-ceria catalysts promoted by vanadia for complete benzene oxidation”*

D. Andreeva, R. Nedyalkova, L. Ilieva, and M. V. Abrashev

Appl. Catalysis A: General 246(1) (2003) 29 - 38.

50. Niobium Modification of Au/CeO₂ for Enhanced Catalytic Performance over Benzene Combustion
Liu, Zhe; Zhang, Xiaolan; Cai, Ting; et al.
NANOMATERIALS Volume: 11 Issue: 1 Article Number: 189 Published: JAN 2021
49. Establishing high-performance Au/cobalt oxide interfaces for low-temperature benzene combustion
Jiang, Wu; Feng, Yina; Zeng, Yiqiang; et al.
JOURNAL OF CATALYSIS Volume: 375 Pages: 171-182 Published: JUL 2019
48. Heterogeneous Gold Catalysis: From Discovery to Applications
Alshammari, Ahmad S.
CATALYSTS Volume: 9 Issue: 5 Article Number: 402 Published: MAY 2019
47. Recent Advances in the Catalytic Oxidation of Volatile Organic Compounds: A Review Based on Pollutant Sorts and Sources
He, Chi; Cheng, Jie; Zhang, Xin; et al.
CHEMICAL REVIEWS Volume: 119 Issue: 7 Pages: 4471-4568 Published: APR 10 2019
46. Ferric sludge derived from the process of water purification as an efficient catalyst and/or support for the removal of volatile organic compounds
Sanchis, Rut; Dejoz, Ana; Vazquez, Isabel; et al.
CHEMOSPHERE Volume: 219 Pages: 286-295 Published: MAR 2019
45. Theoretical investigation of the effect of phosphate doping on the aggregation of Au atoms on an Al₂O₃ (0001) surface
Tada, Kohei; Koga, Hiroaki; Sakurai, Hiroaki; et al.
APPLIED SURFACE SCIENCE Volume: 465 Pages: 1003-1013 Published: JAN 28 2019
44. Deposition of Au nanoparticles inside porous CeO₂ nanocubes using Langmuir-Blodgett technique
Das, Subhasis; Bhattacharjee, Gourab; Satpati, Biswarup; et al.
NEW JOURNAL OF CHEMISTRY Volume: 42 Issue: 2 Pages: 1379-1386 Published: JAN 21 2018
43. Han, Zhong-Kang; Wang, Yang-Gang; Gao, Yi
Catalytic role of vacancy diffusion in ceria supported atomic gold catalyst
CHEMICAL COMMUNICATIONS Volume: 53 Issue: 65 Pages: 9125-9128 Published: AUG 21 2017
42. Calzada, Lina A.; Collins, Sebastian E.; Han, Chang W.; et al.
Synergetic effect of bimetallic Au-Ru/TiO₂ catalysts for complete oxidation of methanol
APPLIED CATALYSIS B-ENVIRONMENTAL Volume: 207 Pages: 79-92 Published: JUN 15 2017
41. Wang, Z., Deng, Y., Shen, G., Akram, S., Han, N., Chen, Y., Wang, Q.
Catalytic Degradation of Benzene over Nanocatalysts containing Cerium and Manganese
CHEMISTRYOPEN Volume: 5 Issue: 5 Pages: 495-504 DOI: 10.1002/open.201600047 Published: OCT 2016
40. Villa, A., Dimitratos, N., Chan-Thaw, C.E., Hammond, C., Veith, G.M., Wang, D., Manzoli, M., Prati, L., Hutchings, G.J.
Characterisation of gold catalysts
CHEMICAL SOCIETY REVIEWS Volume: 45 Issue: 18 Pages: 4953-4994 DOI: 10.1039/c5cs00350d Published: SEP 21 2016
39. Topka, P (Topka, Pavel); Kaluza, L (Kaluza, Ludek); Gaalova, J (Gaalova, Jana)
Total oxidation of ethanol and toluene over ceria-zirconia supported platinum catalysts
CHEMICAL PAPERS Volume: 70 Issue: 7 Pages: 898-906 DOI: 10.1515/chempap-2016-0028 Published: JUL 2016
38. Panayotov, D.A., Morris, J.R.
Surface chemistry of Au/TiO₂: Thermally and photolytically activated reactions
SURFACE SCIENCE REPORTS Volume: 71 Issue: 1 Pages: 77-271 DOI: 10.1016/j.surfrep.2016.01.002 Published: MAR 2016

37. Aguilar-Tapia, A., Zanella, R., Calers, C., Louis, C., Delannoy, L.
Synergistic effects of Ir-Au/TiO₂ catalysts in the total oxidation of propene: influence of the activation conditions
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 17 Issue: 42 Pages: 28022-28032 DOI: 10.1039/c5cp00590f Published: 2015
36. Garcia, Tomas; Agouram, Said; Taylor, Stuart H.; et al.
Total oxidation of propane in vanadia-promoted platinum-alumina catalysts: Influence of the order of impregnation
CATALYSIS TODAY Volume: 254 Pages: 12-20 Published: OCT 1 2015
35. Stadnichenko, A. I.; Koshcheev, S. V.; Boronin, A. I.
An XPS and TPD study of gold oxide films obtained by exposure to RF-activated oxygen
JOURNAL OF STRUCTURAL CHEMISTRY Volume: 56 Issue: 3 Pages: 557-565 Published: JUN 2015
34. Carabineiro, S. A. C.; Chen, X.; Martynyuk, O.; et al.
Gold supported on metal oxides for volatile organic compounds total oxidation
CATALYSIS TODAY Volume: 244 Pages: 103-114 Published: APR 15 2015
33. Yosefi, Leila; Haghighi, Mohammad; Allahyari, Somaiyeh; et al.
The beneficial use of HCl-activated natural zeolite in ultrasound assisted synthesis of Cu/clinoptilolite-CeO₂ nanocatalyst used for catalytic oxidation of diluted toluene in air at low temperature
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY Volume: 90 Issue: 4 Pages: 765-774 Published: APR 2015
32. Garcia, T., Solsona, B., Taylor, S.H.
The catalytic oxidation of hydrocarbon volatile organic compounds
Handbook of Advanced Methods and Processes in Oxidation Catalysis: From Laboratory to Industry 51-90 DOI: 10.1142/9781848167513_0003 (2014)
31. Zuo, Shufeng; Sun, Xuejie; Lv, Ningning; et al.
Rare Earth-Modified Kaolin/NaY-Supported Pd-Pt Bimetallic Catalyst for the Catalytic Combustion of Benzene
ACS APPLIED MATERIALS & INTERFACES 6 (15), pp. 11988-11996 AUG 13 2014
30. Wang, Zhen; Yang, Min; Shen, Genli; et al.
Catalytic removal of benzene over CeO₂-MnO (x) composite oxides with rod-like morphology supporting PdO
JOURNAL OF NANOPARTICLE RESEARCH 16 (5), Art. No. 2367 APR 6 2014
29. Jiang, Xin; Hua, Jiefeng; Deng, Hui; et al.
Influence of pre-added NaOH on the microstructure of Au-CeO₂ catalyst and its activity for benzene oxidation
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL 383, pp. 188-193 MAR 2014
28. Aw, M. S.; Crnivec, I. G. Osojnik; Pintar, A.
Toward enhanced conversion of model biogas mixtures: parametric tuning and mechanistic study for ceria-zirconia supported nickel-cobalt catalyst
CATALYSIS SCIENCE & TECHNOLOGY 4 (5), pp. 1340-1349 2014
27. Sedjame, H.-J., Fontaine, C., Lafaye, G., Barbier Jr, J.
On the promoting effect of the addition of ceria to platinum based alumina catalysts for VOCs oxidation
Applied Catalysis B: Environmental 144 (1), pp. 233-242, 2014
26. Balzer, R., Drago, V., Schreiner, W.H., Probst, L.F.D.
Removal of BTX compounds in air by total catalytic oxidation promoted by catalysts based on SiO₂(1-x)Cu_x
Journal of the Brazilian Chemical Society 24 (10), pp. 1592-1598, 2013
25. Zuo, S., Du, Y., Liu, F., Han, D., Qi, C.
Influence of ceria promoter on shell-powder-supported Pd catalyst for the complete oxidation of benzene
Applied Catalysis A: General 451, pp. 65-70, 2013
24. Chen, Q.-Y., Li, N., Luo, M.-F., Lu, J.-Q.
Catalytic oxidation of dichloromethane over Pt/CeO₂-Al₂O₃ catalysts
Applied Catalysis B: Environmental 127, pp. 159-166, 2012
23. Scirè, S., Liotta, L.F.
Supported gold catalysts for the total oxidation of volatile organic compounds
Applied Catalysis B: Environmental 125, pp. 222-246, 2012.
22. Garcia, T., Weng, W., Solsona, B., Carter, E., Carley, A.F., Kiely, C.J., Taylor, S.H.
The significance of the order of impregnation on the activity of vanadia promoted palladium-alumina catalysts for propane total oxidation
Catalysis Science and Technology 1 (8), 1367-1375, 2011.
21. Ousmane, M., Liotta, L.F., Pantaleo, G., Venezia, A.M., Di Carlo, G., Aouine, M., Retailleau, L., Giroir-Fendler, A.
Supported Au catalysts for propene total oxidation: Study of support morphology and gold particle size effects
Catalysis Today 176 (1), 7-13, 2011.
20. Wu Hongjing; Wang Liuding; Zhang Jiaoqiang; et al.
Catalytic oxidation of benzene, toluene and p-xylene over colloidal gold supported on zinc oxide catalyst
CATALYSIS COMMUNICATIONS 12 (10) Pages: 859-865, MAY 15 2011.
19. Abbasi Zahra; Haghighi Mohammad; Fatehifar Esmaeil; et al.

- Synthesis and physicochemical characterizations of nanostructured Pt/Al(2)O(3)-CeO(2) catalysts for total oxidation of VOCs
JOURNAL OF HAZARDOUS MATERIALS 186 (2-3) Pages: 1445-1454, FEB 28 2011.
18. Solsona, B., Garcia, T., Agouram, S., Hutchings, G.J., Taylor, S.H.
The effect of gold addition on the catalytic performance of copper manganese oxide catalysts for the total oxidation of propane
APPLIED CATALYSIS B-ENVIRONMENTAL 101 (3-4) Pages: 388-396, JAN 14 2011.
17. Ousmane, M., Liotta, L.F., Di Carlo, G., Pantaleo, G., Venezia, A.M., Deganello, G., Retailleau, L., (...), Giroir-Fendler, A.
Supported Au catalysts for low-temperature abatement of propene and toluene, as model VOCs: Support effect
APPLIED CATALYSIS B-ENVIRONMENTAL 101 (3-4) Pages: 629-637, JAN 14 2011.
16. Song Haiyan; Li Gang; Wang Xiangsheng
Preparation and Application of Porous Material Supported Gold Catalysts
PROGRESS IN CHEMISTRY 22 (4) Pages: 573-579, APR 2010.
15. Wu Hongjing; Shuai Qin; Zhu Zhenli; et al.
Complete Benzene Oxidation over Colloidal Gold Catalysts Supported on Nanostructure Zinc Oxide
ADVANCE IN ECOLOGICAL ENVIRONMENT FUNCTIONAL MATERIALS AND ION INDUSTRY Book Series: Advanced Materials Research 96 Pages: 21-27, 2010.
14. Ying Fang; Wang Shuiju; Au Chak-Tong; et al.
Effect of the oxidation state of gold on the complete oxidation of isobutane on Au/CeO(2) catalysts
GOLD BULLETIN 43 (4) Pages: 241-251, 2010.
13. Hongjing, W., Qin, S., Zhenli, Z., Shenghong, H.
Complete benzene oxidation over colloidal gold catalysts supported on nanostructure zinc oxide
Advanced Materials Research 96, pp. 21-27 (2010).
12. Rossi, M., Della Pina, C., Falletta, E., Matarrese, R.
Gold Nanoparticles: From Preparation to Catalytic Evaluation
METAL NANOCLUSTERS IN CATALYSIS AND MATERIALS SCIENCE: THE ISSUE OF SIZE CONTROL Pages: 253-262 DOI: 10.1016/B978-044453057-8.50014-3 Published: 2008
11. Yang, X., Dong, X., Huang, L., Wang, J., Liu, G.
Synthesis and properties of CeO₂@Au core-shell structure nanoparticles
Zhongguo Xitu Xuobao / Journal of the Chinese Rare Earth Society 26 (6), pp. 683-688 (2008).
10. Tang, X., Xu, Y., Shen, W.
Promoting effect of copper on the catalytic activity of MnO_x-CeO₂ mixed oxide for complete oxidation of benzene
Chemical Engineering Journal 144 (2), pp. 175-180 (2008).
9. Yang, S.M., Liu, D.M., Liu, S.Y.
Catalytic combustion of benzene over Au supported on ceria and vanadia promoted ceria
Topics in Catalysis 47 (3-4), pp. 101-108 (2008).
8. Carabineiro, SAC (Carabineiro, Sonia A. C.); Thompson, DT (Thompson, David T.)
Catalytic Applications for Gold Nanotechnology
NANOCATALYSIS Book Series: Nanoscience and Technology Pages: 377-489 DOI: 10.1007/978-3-540-32646-5_6 Published: 2007
7. Della Pina C, Dimitratos N, Falletta E, et al.
Catalytic performance of gold catalysts in the total oxidation of VOCs
GOLD BULLETIN 40 (1), pp.67-72 (2007).
6. Delannoy, L., Weiher, N., Tsapatsaris, N., Beesley, A.M., Nchari, L., Schroeder, S.L.M., Louis, C.
Reducibility of supported gold (III) precursors: Influence of the metal oxide support and consequences for CO oxidation activity
Topics in Catalysis 44 (1-2), pp. 263-273 (2007)
5. Hutchings, GJ (Hutchings, Graham J.)
Reactions of Environmental Importance
CATALYSIS BY GOLD Book Series: Catalytic Science Series Volume: 6 Pages: 286-310 Published: 2006
4. Solsona, B.E., Garcia, T., Jones, C., Taylor, S.H., Carley, A.F., Hutchings, G.J.
Supported gold catalysts for the total oxidation of alkanes and carbon monoxide
Applied Catalysis A: General 312 (1-2), pp. 67-76 (2006)
3. Radhika, T., Sugunan, S.
Structural and catalytic investigation of vanadia supported on ceria promoted with high surface area rice husk silica
Journal of Molecular Catalysis A: Chemical 250 (1-2), pp. 169-176 (2006)
2. Lai SY, Qiu YF, Wang SJ
Effects of the structure of ceria on the activity of gold/ceria catalysts for the oxidation of carbon monoxide and benzene
JOURNAL OF CATALYSIS 237 (2): 303-313 JAN 25 2006
1. Burda C, Chen XB, Narayanan R, et al.
Chemistry and properties of nanocrystals of different shapes
CHEMICAL REVIEWS 105 (4): 1025-1102 APR 2005

44. “*Phonons and magnetic excitations in the Mott insulator LaTiO₃*”

M. N. Iliev, A. P. Litvinchuk, M. V. Abrashev, V. N. Popov, J. Cmaidalka, B. Lorenz, and R. L. Meng
Phys. Rev. B 69, 172301 (2004).

16. Negative dielectric behavior in tetragonal La_{0.8}Co_{0.2}-xEu_xTiO₃ (x=0.01-0.04) nanorods
Kumar, N. Suresh; Suvama, R. Padma; Naidu, K. Chandra Babu
MATERIALS CHARACTERIZATION Volume: 166 Article Number: 110425 Published: AUG 2020

15. Orbital Floquet engineering of exchange interactions in magnetic materials
Chaudhary, Swati; Hsieh, David; Refael, Gil
PHYSICAL REVIEW B Volume: 100 Issue: 22 Article Number: 220403 Published: DEC 9 2019

14. Structural and metal-insulator transitions in rhenium-based double perovskites via orbital ordering
Lee, Alex Taekyung; Marianetti, Chris A.
PHYSICAL REVIEW B Volume: 97 Issue: 4 Article Number: 045102 Published: JAN 3 2018

13. Li, Bing; Louca, Despina; Niedziela, Jennifer; et al.
Lattice and magnetic dynamics in perovskite Y_{1-x}La_xTiO₃
PHYSICAL REVIEW B Volume: 94 Issue: 22 Article Number: 224301 Published: DEC 7 2016

12. Ulrich, C., Khaliullin, G., Guennou, M., Roth, H., Lorenz, T., Keimer, B.
Spin-Orbital Excitation Continuum and Anomalous Electron-Phonon Interaction in the Mott Insulator LaTiO₃
PHYSICAL REVIEW LETTERS Volume: 115 Issue: 15 Article Number: 156403 DOI: 10.1103/PhysRevLett.115.156403 Published: OCT 9 2015

11. Kumar, Pradeep; Bera, Achintya; Muthu, D. V. S.; et al.
Coupled phonons, magnetic excitations, and ferroelectricity in AlFeO₃: Raman and first-principles studies
PHYSICAL REVIEW B 85 (13) Article Number: 134449, APR 27 2012.

10. Kowalczyk Radoslaw M.; Kemp Thomas F.; Walker David; et al.
A variable temperature solid-state nuclear magnetic resonance, electron paramagnetic resonance and Raman scattering study of molecular dynamics in ferroelectric fluorides
JOURNAL OF PHYSICS-CONDENSED MATTER 23 (31) Article Number: 315402, AUG 10 2011.

9. Liu Chun-Mei; Ge Ni-Na; Cheng Yan; et al.
Structural and elastic properties of LaTiO₃ under pressure
PHYSICA B-CONDENSED MATTER 406 (10) Pages: 1926-1931, MAY 1 2011.

8. Girardot, C., Kreisel, J., Pignard, S., Caillault, N., Weiss, F.
Raman scattering investigation across the magnetic and metal-insulator transition in rare earth nickelate RNiO₃ (R=Sm, Nd) thin films
Physical Review B - Condensed Matter and Materials Physics 78 (10), art. no. 104101 (2008).

7. Cheng, J.-G., Sui, Y., Zhou, J.-S., Goodenough, J.B., Su, W.H.
Transition from orbital liquid to Jahn-Teller insulator in orthorhombic perovskites RTiO₃
Physical Review Letters 101 (8), art. no. 087205 (2008).

6. Haumont, R., Kreisel, J., Bouvier, P.
Raman scattering of the model multiferroic oxide BiFeO₃: Effect of temperature, pressure and stress
Phase Transitions 79 (12), pp. 1043-1064 (2006)

5. Ulrich, C., Gössling, A., Grüninger, M., Guennou, M., Roth, H., Cwik, M., Lorenz, T., (...), Keimer, B.
Raman scattering in the Mott insulators LaTiO₃ and YTiO₃: Evidence for orbital excitations
Physical Review Letters 97 (15), art. no. 157401 (2006)

4. Haumont, R., Kreisel, J., Bouvier, P., Hippert, F.
Phonon anomalies and the ferroelectric phase transition in multiferroic BiFeO₃
Physical Review B - Condensed Matter and Materials Physics 73 (13), art. no. 132101, pp. 1-4 (2006)

3. Pavarini E, Yamasaki A, Nuss J, et al.
How chemistry controls electron localization in 3d(1) perovskites: a Wannier-function study
NEW JOURNAL OF PHYSICS 7: Art. No. 188 SEP 2 2005

2. Schmitz R, Entin-Wohlman O, Aharony A, et al.
Magnetic structure of the Jahn-Teller system LaTiO₃
PHYSICAL REVIEW B 71 (14): Art. No. 144412 APR 2005

1. Masahito Mochizuki and Masatoshi Imada
Orbital physics in the perovskite Ti oxides
New Journal of Physics 6: 154 – 196 NOV 5 2004

45. “*Photoluminescence depending on the ZnS shell thickness of CdS/ZnS core-shell semiconductor nanoparticles*”

Alexandre R. Loukanov, Ceko D. Dushkin, Karolina I. Papazova, Andrey V. Kirov, Miroslav V. Abrashev and Eiki Adachi
Colloids and Surfaces, A: Physicochem. and Eng. Asp. 245, 9-14 (2004).

58. Atomistic modeling of InGaN/GaN quantum dots-in-nanowire for graded surface-emitting low-threshold, blue exciton laser
Taher, Mayada M.; Al-yousif, Shahad; Ahmed, Naser M.
RESULTS IN PHYSICS Volume: 20 Article Number: 103732 Published: JAN 2021
57. Morphological characterisation of zinc sulfide nanoparticles using electron microscopy and X-ray diffraction assay
Rajeshkumar, S., Santhoshkumar, J., Lakshmi, T., (...), Vanaja, M., Pavunraj, M.
Plant Cell Biotechnology and Molecular Biology 21(29-30), pp. 97-105 (2020)
56. Effect of annealed ZnS nanoparticles on the structural and optical properties of PVA polymer nanocomposite
Mohamed, Mohamed Bakr; Abdel-Kader, M. H.
MATERIALS CHEMISTRY AND PHYSICS Volume: 241 Article Number: 122285 Published: FEB 1 2020
55. Exciton states in InGaAsP/InP core-shell quantum dots under an external electric field
Hu, Min; Wang, Hailong; Gong, Qian; et al.
JOURNAL OF COMPUTATIONAL ELECTRONICS Volume: 18 Issue: 4 Pages: 1243-1250 Published: DEC 2019
54. The effect of Cd- substitution on the Raman vibrational characteristics of sphalerite
Babedi, L.; von der Heyden, B. P.; Neethling, P. H.; et al.
VIBRATIONAL SPECTROSCOPY Volume: 105 Article Number: 102968 Published: NOV 2019
53. Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond
Chandrasekaran, Sundaram; Yao, Lei; Deng, Libo; et al.
CHEMICAL SOCIETY REVIEWS Volume: 48 Issue: 15 Pages: 4178-4280 Published: AUG 7 2019
52. The External Electric and Magnetic Fields Effect on Binding Energy of Hydrogenic Donor Impurity in a InGaAsP/InP Core-Shell Quantum Dot
Hul, Min; Wang, Hailong; Gong, Qian; et al.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS Volume: 14 Issue: 7 Pages: 1016-1023 Published: JUL 2019
51. Dielectric properties of polyvinyl alcohol (PVA) nanocomposites filled with green synthesized zinc sulphide (ZnS) nanoparticles
Reddy, P. Lokanatha; Deshmukh, Kalim; Chidambaram, K.; et al.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 30 Issue: 5 Pages: 4676-4687 Published: MAR 2019
50. Photoluminescence properties of Co and Ni co-doped CdS/ZnSCore/Shell Nanoparticles
Sabir, Nadeem; Qayyum, Wahid; Hussain, Syed Zajif; et al.
COLLOIDAL NANOPARTICLES FOR BIOMEDICAL APPLICATIONS XIII Book Series: Proceedings of SPIE Volume: 10507 Article Number: UNSP 1050705 Published: 2018
49. Wang, Zhenli; Zhang, Haiyue; Cao, Hongwei; et al.
Facile preparation of ZnS/CdS core/shell nanotubes and their enhanced photocatalytic performance
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 42 Issue: 27 Pages: 17394-17402 Published: JUL 6 2017
48. Benhaddou, F.; Zorkani, I.; Jorio, A.
The confinement effect in spherical inhomogeneous quantum dots and stability of excitons
AIP ADVANCES Volume: 7 Issue: 6 Article Number: 065112 Published: JUN 2017
47. Silva Adaya, Daniela; Aguirre-Cruz, Lucinda; Guevara, Jorge; et al.
Nanobiomaterials' applications in neurodegenerative diseases
JOURNAL OF BIOMATERIALS APPLICATIONS Volume: 31 Issue: 7 Pages: 953-984 Published: FEB 2017
46. Zahra, H.; Elmaghroui, D.; Fezai, I.; et al.
II-VI colloidal quantum-dot/quantum-rod heterostructures under electric field effect and their energy transfer rate to graphene
JOURNAL OF APPLIED PHYSICS Volume: 120 Issue: 20 Article Number: 205702 Published: NOV 28 2016
45. Ozga, K., Michel, J., Nechyporuk, B.D., Ebothe, J., Kityk, I.V., Albassam, A.A., El-Naggar, A.M., Fedorchuk, A.O.
ZnS/PVA nanocomposites for nonlinear optical applications
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES Volume: 81 Pages: 281-289 DOI: 10.1016/j.physe.2016.03.041 Published: JUL 2016
44. Ahmadi, R., Sadrnezhad, S.K., Zangeneh, R.N., Oghabian, M.A.
Kinetics of oxygen adsorption on ZnS nanoparticles synthesized by precipitation process
MATERIALS SCIENCE-POLAND Volume: 34 Issue: 2 Pages: 260-265 DOI: 10.1515/msp-2016-0037 Published: JUN 2016
43. Mandal, A.R., Ishteev, A.R., Volchematev, S.A., Mazov, V.N., Kuznetsov, D.V.
Synthesis of water-soluble core/shell CdS/ZnS nanoparticles at room temperature under ultrasonic irradiation: Potential for human serum detection
INORGANIC MATERIALS Volume: 52 Issue: 3 Pages: 256-261 DOI: 10.1134/S0020168516030109 Published: MAR 2016

42. Mendonça, L.T.B., De Azevedo, W.M.
A fast bottom-up route for preparing CdS quantum dots using laser ablation in a liquid environment
JOURNAL OF LUMINESCENCE Volume: 171 Pages: 79-84 DOI: 10.1016/j.jlumin.2015.10.031 Published: MAR 2016
41. Sanders, G.D., Musfeldt, J.L., Stanton, C.J.
Tuning g factors of core-shell nanoparticles by controlled positioning of magnetic impurities
PHYSICAL REVIEW B Volume: 93 Issue: 7 Article Number: 075431 DOI: 10.1103/PhysRevB.93.075431 Published: FEB 23 2016
40. Li, N., Kerman, K.
Nanomaterial-based dual detection platforms: Optics meets electrochemistry
Nanobiosensors and Nanobioanalyses 99-120 DOI: 10.1007/978-4-431-55190-4_6 (2015)
39. Kocovski, V., Eriksson, O., Gerard, C., Sarma, D.D., Ruzs, J.
Influence of dimensionality and interface type on optical and electronic properties of CdS/ZnS core-shell nanocrystals-A first-principles study
JOURNAL OF CHEMICAL PHYSICS Volume: 143 Issue: 16 Article Number: 164701 DOI: 10.1063/1.4933058 Published: OCT 28 2015
38. Chen, L., Liu, Y., Lai, C., Berry, R.M., Tam, K.C.
Aqueous synthesis and biostabilization of CdS@ZnS quantum dots for bioimaging applications
MATERIALS RESEARCH EXPRESS Volume: 2 Issue: 10 Article Number: 105401 DOI: 10.1088/2053-1591/2/10/105401 Published: OCT 2015
37. Luo, Jian; Zhao, Suqing; Wu, Panpan; et al.
Synthesis and characterization of new Cd-doped ZnO/ZnS core-shell quantum dots with tunable and highly visible photoluminescence
JOURNAL OF MATERIALS CHEMISTRY C Volume: 3 Issue: 14 Pages: 3391-3398 Published: 2015
36. Andal, V.; Buvaneshwari, G.
Effect of Nature of Surfactant on the Formation of beta-Ag₂Se Nanoparticles and Optical Properties of beta-Ag₂Se and ZnS/beta-Ag₂Se Nanocomposite
JOURNAL OF NANO RESEARCH Volume: 30 Pages: 96-105 Published: 2015
34. Zhu, Yinglian; Li, Chunsheng; Xu, Ying; et al.
Ultrasonic-assisted synthesis of aqueous CdTe/CdS QDs in salt water bath heating
JOURNAL OF ALLOYS AND COMPOUNDS 608, pp. 141-147 SEP 25 2014
33. Yang, Lin; Zhu, Jianguo; Xiao, Dingquan
Synthesis and characterization of ZnSe:Fe/ZnSe core/shell nanocrystals
JOURNAL OF LUMINESCENCE 148, pp. 129-133 APR 2014
32. Hosseini, Z.; Azizian-Kalandaragh, Y.; Khodayari, A.; et al.
Sonochemically prepared PbS nanostructures and investigation of their optical and structural properties
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 8 (3-4), pp. 201-203 MAR-APR 2014
31. Shahi, A. K.; Pandey, B. K.; Gopal, R.
PEG mediated solvothermal synthesis of fine ZnS sub-micro and microspheres and their optical properties
MATERIALS LETTERS 116, pp. 112-115 FEB 1 2014
30. Malarkodi, C.; Rajeshkumar, S.; Paulkumar, K.; et al.
Biosynthesis and Antimicrobial Activity of Semiconductor Nanoparticles against Oral Pathogens
BIOINORGANIC CHEMISTRY AND APPLICATIONS Art. No.347167 2014
29. Xiong, Gang; Xu, Hang; Cui, Jian-Zhong; et al.
The multiple core-shell structure in Cu(24)Ln(6) cluster with magnetocaloric effect and slow magnetization relaxat
DALTON TRANSACTIONS 43 (15), pp. 5639-5642 2014
28. Xu, L., Xia, H.
Multi-metal sulfide for absorbing near infrared light
Zhongguo Jiguang/Chinese Journal of Lasers 40 (6), art. no. 0606001, 2013
27. Kharazmi, A., Saion, E., Faraji, N., Soltani, N., Dehzangi, A.
Optical properties of CdS/PVA nanocomposite films synthesized using the gamma-irradiation-induced method
Chinese Physics Letters 30 (5), art. no. 057803, 2013
26. Tripathi, S.K., Sharma, M.
Synthesis and optical study of green light emitting polymer coated CdSe/ZnSe core/shell nanocrystals
Materials Research Bulletin 48 (5), pp. 1837-1844, 2013
25. Ladj, R., Bitar, A., Eissa, M., Mugnier, Y., Le Dantec, R., Fessi, H., Elaissari, A.
Individual inorganic nanoparticles: Preparation, functionalization and in vitro biomedical diagnostic applications
Journal of Materials Chemistry B 1 (10), pp. 1381-1396, 2013
24. Soltani, N., Dehzangi, A., Saion, E., MAJLIS, M.Y., ZARE, M.R., Kharazmi, A., Navasery, M.
Influence of exposure time on structural, optical and electrical properties of zinc sulphide nanoparticles synthesized by microwave technique
Chalcogenide Letters 10 (1), pp. 27-37, 2013

23. Li, C., Jiang, Z., Yao, Z.
Self-assembly of large scale CdS/TiO₂ film photocatalyst
Advanced Materials Research 512-515, pp. 1692-1698, 2012.
22. Saran, A.D., Mehra, A., Bellare, J.R.
Superposition of Quantum Confinement Energy (SQCE) model for estimating shell thickness in core-shell quantum dots: Validation and comparison
Journal of Colloid and Interface Science 378 (1), pp. 21-29, 2012.
21. Saran Amit D.; Sadawana Mayur M.; Srivastava Rohit; et al.
An optimized quantum dot-ligand system for biosensing applications: Evaluation as a glucose biosensor
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS 384 (1-3) Pages: 393-400, JUL 5 2011.
20. Heera T. R.; Cindrella L.
PbS/CoS-Pani composite semiconductor films
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING 14 (2) Pages: 151-156, JUN 2011.
19. Saran Amit D.; Bellare Jayesh R.
Green engineering for large-scale synthesis of water-soluble and bio-taggable CdSe and CdSe-CdS quantum dots from microemulsion by double-capping
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS 369 (1-3) Pages: 165-175, OCT 20 2010.
18. Khaorapapong Nithima; Ontam Areeporn; Ogawa Makoto
Formation of ZnS and CdS in the interlayer spaces of montmorillonite
APPLIED CLAY SCIENCE 50 (1) Pages: 19-24, SEP 2010.
17. Heera, T.R., Cindrella, L.
Synthesis and characterization of NiS/MnS core-shell embedded conducting polyaniline composite for photovoltaic application
International Journal of Polymeric Materials 59 (8), pp. 607-621 (2010).
16. Ganguli, A.K., Ganguly, A., Vaidya, S.
Microemulsion-based synthesis of nanocrystalline materials
Chemical Society Reviews 39 (2), pp. 474-485 (2010).
15. Wang, Y., Wang, H., Li, R., Du, Y.-K.
Recent progress in synthesis and properties of the core-shell nanoparticles
Yingxiang Kexue yu Guanghuaxue/Imaging Science and Photochemistry 28 (1), pp. 65-78 (2010).
14. Cindrella, L., Heera, T.R.
Wide spectrum responsive polyaniline based solid state solar cell
Journal of Bionanoscience 3(2), 124-130 DOI: 10.1166/jbns.2009.1019 (2009)
13. Su, X., Qian, R., Tang, A.-M.
Preparation and characterization of in-situ composition of microcrystalline cellulose/CdS fluorescent nanoparticles
PROCEEDINGS OF 2009 INTERNATIONAL CONFERENCE ON ADVANCED FIBERS AND POLYMER MATERIALS, VOLS 1 AND 2 Pages: 1174-1176 Published: 2009
12. Behboudnia, M., Habibi-Yangjeh, A., Jafari-Tarzanag, Y., Khodayari, A.
Template free preparation and characterization of CuS nanoparticles in aqueous solutions of [EMIM][EtSO₄] as a low cost ionic liquid using ultrasonic irradiation
Journal of Optoelectronics and Advanced Materials 11 (2), pp. 134-139 (2009).
11. Bala, H., Fu, W., Yu, Y., Yang, H., Zhang, Y.
Preparation, optical properties, magnetic properties and thermal stability of core-shell structure cobalt/zinc oxide nanocomposites
Applied Surface Science 255 (7), pp. 4050-4055 (2009).
10. Bala, H., Yu, Y., Cao, X., Fu, W.
Preparation and characterization of nickel/zinc sulphide: Bifunctional magnetic-optical nanocomposites
Materials Chemistry and Physics 111 (1), pp. 50-53 (2008).
9. Wu, Y., Wang, L., Xiao, M., Huang, X.
A novel sonochemical synthesis and nanostructured assembly of polyvinylpyrrolidone-capped CdS colloidal nanoparticles
Journal of Non-Crystalline Solids 354 (26), pp. 2993-3000 (2008).
8. Khaorapapong, N., Ontam, A., Youngme, S., Ogawa, M.
Solid-state intercalation and in situ formation of cadmium sulfide in the interlayer space of montmorillonite
Journal of Physics and Chemistry of Solids 69 (5-6), pp. 1107-1111 (2008).
7. Li, L., Tang, Y., Yang, J., Zhang, Y., Du, B.
Facile synthesis of ZnS hollow submicrospheres with open holes in solution containing ethylenediamine and CS₂
Chemical Journal on Internet 10 (1) (2008).
6. Bumajdad, A., Eastoe, J., Zaki, M.I., Heenan, R.K., Pasupulety, L.
Generation of metal oxide nanoparticles in optimised microemulsions
Journal of Colloid and Interface Science 312 (1), pp. 68-75 (2007)

5. Piret, F., Bouvy, C., Marine, W., Su, B.L.
A new series of optoelectronic nanocomposites: CMI-1 mesoporous core/ZnS shell
Chemical Physics Letters 441 (1-3), pp. 83-87 (2007)
 4. Ethayaraja, M., Ravikumar, C., Muthukumaran, D., Dutta, K., Bandyopadhyaya, R.
CdS-ZnS core-shell nanoparticle formation: Experiment, mechanism, and simulation
Journal of Physical Chemistry C 111 (8), pp. 3246-3252 (2007)
 3. Shukla, D., Mehra, A.
Modeling shell formation in core-shell nanocrystals in reverse micelle systems
Langmuir 22 (23), pp. 9500-9506 (2006)
 2. Fu, W., Yang, H., Hari-Bala, Liu, S., Li, M., Zou, G.
Preparation and magnetic characterization of core-shell structure stainless steel/silica nanoparticles
Materials Letters 60 (13-14), pp. 1728-1732 (2006)
 1. Stroyuk, A.L., Kryukov, A.I., Kuchmii, S.Ya., Pokhodenko, V.D.
Quantum size effects in the photonics of semiconductor nanoparticles
Theoretical and Experimental Chemistry 41 (2), pp. 67-91 (2005)
46. *“Gold–vanadia catalysts supported on ceria–alumina for complete benzene oxidation”*
D. Andreeva, R. Nedyalkova, L. Ilieva, and M. V. Abrashev
Appl. Catalysis B: Environmental 52, 157 – 165 (2004).
74. Preparation of NiZnCe composite oxide and its catalytic performance for dehydrogenation of n-butane
Wang, L., Wan, C., Cheng, D., Chen, F., Zhan, X.
Huagong Xuebao/CIESC Journal 72(1), pp. 534-542 (2021)
 73. Highly efficient catalytic oxidation of benzene over Ag assisted Co₃O₄ catalysts
Ma, X., Yu, X., Ge, M.
Catalysis Today (Article in Press) (2020)
 72. Unveiling the Remarkable Arsenic Resistance Origin of Alumina Promoted Cerium-Tungsten Catalysts for NH₃-SCR
Jiang, Si; Li, Teng; Zheng, JiKai; et al.
ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 54 Issue: 22 Pages: 14740-14749 Published: NOV 17 2020
 71. Establishing high-performance Au/cobalt oxide interfaces for low-temperature benzene combustion
Jiang, Wu; Feng, Yina; Zeng, Yiqiang; et al.
JOURNAL OF CATALYSIS Volume: 375 Pages: 171-182 Published: JUL 2019
 70. Recent Advances in the Catalytic Oxidation of Volatile Organic Compounds: A Review Based on Pollutant Sorts and Sources
He, Chi; Cheng, Jie; Zhang, Xin; et al.
CHEMICAL REVIEWS Volume: 119 Issue: 7 Pages: 4471-4568 Published: APR 10 2019
 69. An environmentally friendly wide temperature CeW₂TiO_x catalyst with superior performance for the selective catalytic reduction NO_x with NH₃
Huang Xiaosheng; Zhang Guodong; Dong Fang; et al.
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: 69 Pages: 66-76 Published: JAN 25 2019
 68. Effect of Ca Doping on the Selective Catalytic Reduction of NO with NH₃ Over Ce-Ti Oxide Catalyst
Jiang, Ye; Wang, Xuechong; Lai, Chengzhen; et al.
CATALYSIS LETTERS Volume: 148 Issue: 9 Pages: 2911-2917 Published: SEP 2018
 67. Ce-Co interaction effects on the catalytic performance of uniform mesoporous Ce-x-Co-y catalysts in Hg-0 oxidation process
Zhang, Xiaopeng; Wang, Jinxin; Tan, Bojian; et al.
FUEL Volume: 226 Pages: 18-26 Published: AUG 15 2018
 66. Role of Silver Nanoclusters in the Enhanced Photocatalytic Activity of Cerium Oxide Nanoparticles
Samai, Bobby; Chall, Sayantani; Mati, Soumya Sundar; et al.
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY Issue: 27 Pages: 3224-3231 Published: JUL 23 2018
 65. In situ pyrolysis of Ce-MOF to prepare CeO₂ catalyst with obviously improved catalytic performance for toluene combustion
Chen, Xi; Chen, Xi; Yu, Enqi; et al.
CHEMICAL ENGINEERING JOURNAL Volume: 344 Pages: 469-479 Published: JUL 15 2018
 64. Yan, Zheng; Qu, Yanxin; Liu, Lili; et al.
Promotional effect of rare earth-doped manganese oxides supported on activated semi-coke for selective catalytic reduction of NO with NH₃
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH Volume: 24 Issue: 31 Pages: 24473-24484 Published: NOV 2017
 63. Jin, Qijie; Shen, Yuesong; Zhu, Shemin; et al.
Rare earth ions (La, Nd, Sm, Gd, and Tm) regulate the catalytic performance of CeO₂/Al₂O₃ for NH₃-SCR of NO
JOURNAL OF MATERIALS RESEARCH Volume: 32 Issue: 12 Pages: 2438-2445 Published: JUN 2017

62. Jiang, Ye; Wang, Xuechong; Bao, Changzhong; et al.
Poisoning effect of CaO on CeO₂/TiO₂ catalysts for selective catalytic reduction of NO with NH₃
KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: 34 Issue: 6 Pages: 1874-1881 Published: JUN 2017
61. Jin, Qijie; Shen, Yuesong; Zhu, Shemin
Praseodymium Oxide Modified CeO₂/Al₂O₃ Catalyst for Selective Catalytic Reduction of NO by NH₃
CHINESE JOURNAL OF CHEMISTRY Volume: 34 Issue: 12 Pages: 1283-1290 Published: DEC 2016
60. Li, G., Wu, B., Li, L.
Surface-structure effect of nano-crystalline CeO₂ support on low temperature CO oxidation
Journal of Molecular Catalysis A: Chemical 424, 304-310 DOI: 10.1016/j.molcata.2016.08.035 (2016)
59. Jin, QJ (Jin Qijie); Shen, YS (Shen Yuesong); Zhu, SM (Zhu Shemin); Liu, Q (Liu Qing); Li, XH (Li Xihong); Yan, W (Yan Wei)
Effect of praseodymium additive on CeO₂(ZrO₂)/TiO₂ for selective catalytic reduction of NO by NH₃
JOURNAL OF RARE EARTHS Volume: 34 Issue: 11 Pages: 1111-1120 DOI: 10.1016/S1002-0721(16)60142-4 Published: NOV 2016
58. Villa, A., Dimitratos, N., Chan-Thaw, C.E., Hammond, C., Veith, G.M., Wang, D., Manzoli, M., Prati, L., Hutchings, G.J.
Characterisation of gold catalysts
CHEMICAL SOCIETY REVIEWS Volume: 45 Issue: 18 Pages: 4953-4994 DOI: 10.1039/c5cs00350d Published: SEP 21 2016
57. Jin, Q., Shen, Y., Zhu, S., Li, X., Hu, M.
Promotional effects of Er incorporation in CeO₂(ZrO₂)/TiO₂ for selective catalytic reduction of NO by NH₃
CHINESE JOURNAL OF CATALYSIS Volume: 37 Issue: 9 Pages: 1521-1529 DOI: 10.1016/S1872-2067(16)62450-6 Published: SEP 2016
56. Jin, B., Wei, Y., Zhao, Z., Liu, J., Jiang, G., Duan, A.
Effects of Au-Ce strong interactions on catalytic activity of Au/CeO₂/3DOM Al₂O₃ catalyst for soot combustion under loose contact conditions
CHINESE JOURNAL OF CATALYSIS Volume: 37 Issue: 6 Pages: 923-933 DOI: 10.1016/S1872-2067(15)61094-4 Published: JUN 2016
55. He, D., Wan, G., Hao, H., Chen, D., Lu, J., Zhang, L., Liu, F., Zhong, L., He, S., Luo, Y.
Microwave-assisted rapid synthesis of CeO₂ nanoparticles and its desulfurization processes for CH₃SH catalytic decomposition
CHEMICAL ENGINEERING JOURNAL Volume: 289 Pages: 161-169 DOI: 10.1016/j.cej.2015.12.103 Published: APR 1 2016
54. Chu, B., An, H., Nijhuis, T.A., Schouten, J.C., Cheng, Y.
A self-redox pure-phase M₁ MoVNbTeO_x/CeO₂ nanocomposite as a highly active catalyst for oxidative dehydrogenation of ethane
Journal of Catalysis 329, Art. No. 11790, pages 471-478 DOI: 10.1016/j.jcat.2015.06.009 (2015)
53. Jin, B., Wei, Y., Zhao, Z., Liu, J., Yu, X., Li, Y., Li, J.
Synthesis of three-dimensionally ordered macroporous Al-Ce mixed oxide catalysts with high catalytic activity and stability for diesel soot combustion
CATALYSIS TODAY Volume: 258 Pages: 487-497 DOI: 10.1016/j.cattod.2015.01.021 Part: 2 Published: DEC 1 2015
52. Jiang, Y (Jiang, Ye); Xing, ZM (Xing, Zhimin); Wang, XC (Wang, Xuechong); Huang, SB (Huang, Shanbo); Liu, QY (Liu, Qingyu); Yang, JS (Yang, Jingshan)
MoO₃ modified CeO₂/TiO₂ catalyst prepared by a single step sol-gel method for selective catalytic reduction of NO with NH₃
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: 29 Pages: 43-47 DOI: 10.1016/j.jiec.2015.04.023
Published: SEP 25 2015
51. Palcheva, R (Palcheva, R.); Pawelec, B (Pawelec, B.); Gaigneaux, E (Gaigneaux, E.); Fierro, JL (Fierro, J. L.); Damyanova, S (Damyanova, S.)
Redox properties of ceria-alumina oxides
BULGARIAN CHEMICAL COMMUNICATIONS Volume: 47 Special Issue: C Pages: 19-24 Published: 2015
50. Jiang, Ye; Xing, Zhimin; Wang, Xuechong; et al.
Activity and characterization of a Ce-W-Ti oxide catalyst prepared by a single step sol-gel method for selective catalytic reduction of NO with NH₃
FUEL Volume: 151 Pages: 124-129 Published: JUL 1 2015
49. Li, Gengnan; Li, Liang; Jiang, Dong
Facile Synthesis of Highly Active Mesoporous PdCeO_x Solid Solution for Low-Temperature CO Oxidation
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 119 Issue: 22 Pages: 12502-12507 Published: JUN 4 2015
48. Tang, Wenxiang; Wu, Xiaofeng; Chen, Yunfa
Catalytic removal of gaseous benzene over Pt/SBA-15 catalyst: the effect of the preparation method
REACTION KINETICS MECHANISMS AND CATALYSIS Volume: 114 Issue: 2 Pages: 711-723 Published: APR 2015
47. Li, Gengnan; Li, Liang
Highly efficient formaldehyde elimination over meso-structured M/CeO₂ (M = Pd, Pt, Au and Ag) catalyst under ambient conditions
RSC ADVANCES Volume: 5 Issue: 46 Pages: 36428-36433 Published: 2015
46. Garcia, T., Solsona, B., Taylor, S.H.
The catalytic oxidation of hydrocarbon volatile organic compounds

45. Yu, Shen-Wei; Huang, Hsin-Hua; Tang, Chih-Wei; et al.
The effect of accessible oxygen over Co_3O_4 - CeO_2 catalysts on the steam reforming of ethanol
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 39 Issue: 35 Pages: 20700-20711 Published: DEC 3 2014
44. Manuel Lopez, Jose; Arenal, Raul; Puertolas, Begona; et al.
Au deposited on CeO_2 prepared by a nanocasting route: A high activity catalyst for CO oxidation
JOURNAL OF CATALYSIS 317, pp. 167-175 AUG 2014
43. Tang, Wenxiang; Wu, Xiaofeng; Li, Dongyan; et al.
Oxalate route for promoting activity of manganese oxide catalysts in total VOCs' oxidation: effect of calcination temperature and preparation method
JOURNAL OF MATERIALS CHEMISTRY A 2 (8), pp. 2544-2554 2014
42. Venezia, AM (Venezia, Anna Maria); Liotta, LF (Liotta, Leonarda Francesca); Pantaleo, G (Pantaleo, Giuseppe); Longo, A (Longo, Alessandro)
CERIA-BASED CATALYSTS FOR AIR POLLUTION ABATEMENT
CATALYSIS BY CERIA AND RELATED MATERIALS, 2ND EDITION Book Series: Catalytic Science Series Volume: 12 Pages: 813-879 Published: 2013
41. Delaigle, R.; Joseph, M. M. F.; Debecker, D. P.; et al.
An Alternative Method for the Incorporation of Silver in $\text{Ag-VO}_x/\text{TiO}_2$ Catalysts for the Total Oxidation of Benzene
TOPICS IN CATALYSIS 56 (18-20) SI, pp. 1867-1874 DEC 2013
40. Sellick, D.R., Aranda, A., García, T., López, J.M., Solsona, B., Mastral, A.M., Morgan, D.J., (...), Taylor, S.H.
Influence of the preparation method on the activity of ceria zirconia mixed oxides for naphthalene total oxidation
Applied Catalysis B: Environmental 132-133, pp. 98-106, 2013
39. Neto, R.C.R., Schmal, M.
Synthesis of CeO_2 and CeZrO_2 mixed oxide nanostructured catalysts for the iso-syntheses reaction
Applied Catalysis A: General 450, pp. 131-142, 2013
38. Aranda, A., Agouram, S., López, J.M., Mastral, A.M., Sellick, D.R., Solsona, B., Taylor, S.H., García, T.
Oxygen defects: The key parameter controlling the activity and selectivity of mesoporous copper-doped ceria for the total oxidation of naphthalene
Applied Catalysis B: Environmental 127, pp. 77-88, 2012
37. Scirè, S., Liotta, L.F.
Supported gold catalysts for the total oxidation of volatile organic compounds
Applied Catalysis B: Environmental 125, pp. 222-246, 2012.
36. Reina, T.R., Moreno, A.Á., Ivanova, S., Odriozola, J.A., Centeno, M.A.
Influence of Vanadium or Cobalt Oxides on the CO Oxidation Behavior of $\text{Au/MO}_x/\text{CeO}_2\text{-Al}_2\text{O}_3$ Systems
ChemCatChem 4 (4), 512-520, 2012.
35. Solsona, B., Concepción, P., Hernández, S., Demicol, B., Nieto, J.M.L.
Oxidative dehydrogenation of ethane over NiO-CeO_2 mixed oxides catalysts
Catalysis Today 180 (1), 51-58, 2012.
33. Ntainjua, E.N., Davies, T.E., Garcia, T., Solsona, B., Taylor, S.H.
The influence of platinum addition on nano-crystalline ceria catalysts for the total oxidation of naphthalene a model polycyclic aromatic hydrocarbon
Catalysis Letters 141 (12), 1732-1738, 2011.
32. Wu Hongjing; Wang Liuding; Zhang Jiaoqiang; et al.
Catalytic oxidation of benzene, toluene and p-xylene over colloidal gold supported on zinc oxide catalyst
CATALYSIS COMMUNICATIONS 12 (10) Pages: 859-865, MAY 15 2011.
31. Li Ting-Yi; Chiang Shu-Jen; Liaw Biing-Jye; et al.
Catalytic oxidation of benzene over $\text{CuO/Ce(1-x)Mn(x)O}_2$ catalysts
APPLIED CATALYSIS B-ENVIRONMENTAL 103 (1-2) Pages: 143-148, MAR 14 2011.
30. Abbasi Zahra; Haghighi Mohammad; Fatehifar Esmaeil; et al.
Synthesis and physicochemical characterizations of nanostructured $\text{Pt/Al}_2\text{O}_3\text{(3)-CeO}_2\text{(2)}$ catalysts for total oxidation of VOCs
JOURNAL OF HAZARDOUS MATERIALS 186 (2-3) Pages: 1445-1454, FEB 28 2011.
29. Ribeiro Nielson F. P.; Bonfim Rodrigo P. F.; Souza Mariana M. V. M.; et al.
Investigation of activity losses of gold nanoparticles in the CO selective oxidation
JOURNAL OF POWER SOURCES 195 (21) Pages: 7386-7390, NOV 1 2010.
28. Xia Yunsheng; Dai Hongxing; Zhang Lei; et al
Ultrasound-assisted nanocasting fabrication and excellent catalytic performance of three-dimensionally ordered mesoporous chromia for the combustion of formaldehyde, acetone, and methanol
APPLIED CATALYSIS B-ENVIRONMENTAL 100 (1-2) Pages: 229-237, OCT 11 2010.

27. Yin Hongfeng; Ma Zhen; Zhu Haoguo; et al.
Evidence for and mitigation of the encapsulation of gold nanoparticles within silica supports upon high-temperature treatment of Au/SiO(2) catalysts: Implication to catalyst deactivation
APPLIED CATALYSIS A-GENERAL 386 (1-2) Pages: 147-156 SEP 30 2010.
26. Gao Xiang; Jiang Ye; Fu Yincheng; et al.
Preparation and characterization of CeO(2)/TiO(2) catalysts for selective catalytic reduction of NO with NH(3)
CATALYSIS COMMUNICATIONS 11 (5) Pages: 465-469, JAN 25 2010.
25. Puertolas Begona; Solsona Benjamin; Agouram Said; et al.
The catalytic performance of mesoporous cerium oxides prepared through a nanocasting route for the total oxidation of naphthalene
APPLIED CATALYSIS B-ENVIRONMENTAL 93 (3-4) Pages: 395-405, JAN 12 2010.
24. Wu Hongjing; Shuai Qin; Zhu Zhenli; et al.
Complete Benzene Oxidation over Colloidal Gold Catalysts Supported on Nanostructure Zinc Oxide
Source: ADVANCE IN ECOLOGICAL ENVIRONMENT FUNCTIONAL MATERIALS AND ION INDUSTRY Book Series:
Advanced Materials Research Volume: 96 Pages: 21-27, 2010.
23. Yu, Q.-Q., Dong, Y.-Y., Liao, W.-P., Jin, M.-S., He, T., Suo, Z.-H.
Preparation of ceria-alumina and catalytic activity of gold catalyst supported on ceria-alumina for water gas shift reaction
Ranliao Huaxue Xuebao/Journal of Fuel Chemistry and Technology 38 (2), pp. 223-229 (2010).
22. Hongjing, W., Qin, S., Zhenli, Z., Shenghong, H.
Complete benzene oxidation over colloidal gold catalysts supported on nanostructure zinc oxide
Advanced Materials Research 96, pp. 21-27 (2010).
21. Gao, X., Jiang, Y., Fu, Y., Zhong, Y., Luo, Z., Cen, K.
Preparation and characterization of CeO2/TiO2 catalysts for selective catalytic reduction of NO with NH3
Catalysis Communications 11 (5), pp. 465-469 (2010).
20. Puertolas, B., Solsona, B., Agouram, S., Murillo, R., Mastral, A.M., Aranda, A., Taylor, S.H., Garcia, T.
The catalytic performance of mesoporous cerium oxides prepared through a nanocasting route for the total oxidation of naphthalene
Applied Catalysis B: Environmental 93 (3-4), pp. 395-405 (2010).
19. Aranda, A., López, J.M., Murillo, R., Mastral, A.M., Dejoz, A., Vázquez, I., Solsona, B., (...), García, T.
Total oxidation of naphthalene with high selectivity using a ceria catalyst prepared by a combustion method employing ethylene glycol
Journal of Hazardous Materials 171 (1-3), pp. 393-399 (2009).
18. Solsona, B., García, T., Murillo, R., Mastral, A.M., Ntainjua Ndifor, E., Hetrick, C.E., Amiridis, M.D., Taylor, S.H.
Ceria and gold/ceria catalysts for the abatement of polycyclic aromatic hydrocarbons: An in situ DRIFTS study
Topics in Catalysis 52 (5), pp. 492-500 (2009).
17. Zhang, Y., Wang, Z., Zhou, J., Cen, K.
Ceria as a catalyst for hydrogen iodide decomposition in sulfur-iodine cycle for hydrogen production
International Journal of Hydrogen Energy 34 (4), pp. 1688-1695 (2009).
16. Edwin, NN (Edwin, Ntainjua N.); Garcia, T (Garcia, Tomas); Solsona, B (Solsona, Benjamin); Taylor, SH (Taylor, Stuart H.)
The influence of cerium to urea preparation ratio of nanocrystalline ceria catalysts for the total oxidation of naphthalene
CATALYSIS TODAY Volume: 137 Issue: 2-4 Pages: 373-378 DOI: 10.1016/j.cattod.2007.12.140 Published: SEP 30 2008
15. Tang, X., Xu, Y., Shen, W.
Promoting effect of copper on the catalytic activity of MnOx-CeO2 mixed oxide for complete oxidation of benzene
Chemical Engineering Journal 144 (2), pp. 175-180 (2008).
14. Ntainjua N., E., Garcia, T., Solsona, B., Taylor, S.H.
The influence of cerium to urea preparation ratio of nanocrystalline ceria catalysts for the total oxidation of naphthalene
Catalysis Today 137 (2-4), pp. 373-378 (2008).
13. Wang, L.-C., He, L., Liu, Q., Liu, Y.-M., Chen, M., Cao, Y., He, H.-Y., Fan, K.-N.
Solvent-free selective oxidation of alcohols by molecular oxygen over gold nanoparticles supported on β -MnO2 nanorods
Applied Catalysis A: General 344 (1-2), pp. 150-157 (2008).
12. Yang, S.M., Liu, D.M., Liu, S.Y.
Catalytic combustion of benzene over Au supported on ceria and vanadia promoted ceria
Topics in Catalysis 47 (3-4), pp. 101-108 (2008).
11. Li, C., Shen, Y., Jia, M., Sheng, S., Adebajo, M.O., Zhu, H.
Catalytic combustion of formaldehyde on gold/iron-oxide catalysts
Catalysis Communications 9 (3), pp. 355-361 (2008)
10. Della Pina, C (Della Pina, Cristina); Dimitratos, N (Dimitratos, Nikolaos); Falletta, E (Falletta, Ermelinda); Rossi, M (Rossi, Michele); Siani, A (Siani, Attilio)
Catalytic performance of gold catalysts in the total oxidation of VOCs
GOLD BULLETIN Volume: 40 Issue: 1 Pages: 67-72 Published: 2007

9. Carabineiro, SAC (Carabineiro, Sonia A. C.); Thompson, DT (Thompson, David T.)
Catalytic Applications for Gold Nanotechnology
NANOCATALYSIS Book Series: Nanoscience and Technology Pages: 377-489 DOI: 10.1007/978-3-540-32646-5_6 Published: 2007
 8. Ndifor, E.N., Garcia, T., Solsona, B., Taylor, S.H.
Influence of preparation conditions of nano-crystalline ceria catalysts on the total oxidation of naphthalene, a model polycyclic aromatic hydrocarbon
Applied Catalysis B: Environmental 76 (3-4), pp. 248-256 (2007)
 7. Hai, F., Jia, M., Zhaorigetu, Sagala, Li, Y.
Preparation of Au/ZrO₂ catalyst and its activity in CO oxidation
Petrochemical Technology 36 (9), pp. 876-881 (2007)
 6. Hutchings, GJ (Hutchings, Graham J.)
Reactions of Environmental Importance
CATALYSIS BY GOLD Book Series: Catalytic Science Series Volume: 6 Pages: 286-310 Published: 2006
 5. Liotta, L.F., Di Carlo, G., Pantaleo, G., Venezia, A.M., Deganello, G.
Co₃O₄/CeO₂ composite oxides for methane emissions abatement: Relationship between Co₃O₄-CeO₂ interaction and catalytic activity
Applied Catalysis B: Environmental 66 (3-4), pp. 217-227 (2006)
 4. García, T., Solsona, B., Taylor, S.H.
Naphthalene total oxidation over metal oxide catalysts
Applied Catalysis B: Environmental 66 (1-2), pp. 92-99 (2006)
 3. Garcia T, Solsona B, Cazorla-Amoros D, et al.
Total oxidation of volatile organic compounds by vanadium promoted palladium-titania catalysts: Comparison of aromatic and polyaromatic compounds
APPLIED CATALYSIS B-ENVIRONMENTAL 62 (1-2): 66-76 JAN 10 2006
 2. Garcia T, Solsona B, Taylor SH
Nano-crystalline ceria catalysts for the abatement of polycyclic aromatic hydrocarbons
CATALYSIS LETTERS 105 (3-4): 183-189 DEC 2005
 1. Centeno MA, Portales C, Carrizosa I, et al.
Gold supported CeO₂/Al₂O₃ catalysts for CO oxidation: influence of the ceria phase
CATALYSIS LETTERS 102 (3-4): 289-297 AUG 2005
47. *"Plasma-assisted deposition of thin carbon films from methane and the influence of the plasma parameters and additional gases"*
F. Hamelmann, A. Aschentrup, A. Brechling, U. Heinzmann, M. Abrashev, A. Szekeres and K. Gesheva
Vacuum 76, 139-142 (2004)
3. Impact of plasma treatment in CH₄/N₂ on the properties of reduced graphene oxide
Neustroev, E.P., Prokopiev, A.R., Timofeev, V.B., (...), Alekseev, A.A., Semenov, S.O.
IOP Conference Series: Materials Science and Engineering 693(1),012043 (2019)
 2. Formation of nanographite flakes on SiO₂ substrate by plasma deposition of carbon and subsequent annealing
Neustroev, E.P., Popov, V.I., Prokopiev, A.R., Davydova, Z.Y., Semenov, S.O.
AIP Conference Proceedings 2179, 020019 (2019)
 1. Pereira J, Massereau-Guilbaud V, Geraud-Grenier I, et al.
CH and CN radical contribution in the particle formation generated in a radio-frequency CH₄/N₂ plasma
PLASMA PROCESSES AND POLYMERS 2 (8): 633-640 OCT 11 2005
48. *"Low-pressure sublimation epitaxy of AlN films—growth and characterization"*
M. Beshkova, Z. Zakhariev, M.V. Abrashev, E. Birch, A. Kakanakova and R. Yakimova
Vacuum 76, 143-146 (2004)
4. Abid M. A.; Abu Hassan H.; Ng S. S.
Theoretical and experimental investigations of zone-center optical phonons in wurtzite Al(x)Ga(1-x)N using pseudo unit cell model
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 4 (5) Pages: 693-698, MAY 2010.
 3. Han, Q., Duan, C., Ji, C., Qiu, K., Zhong, F., Li, X., Yin, Z., (...), Wang, Y.
Polarity analysis of self-seeded aluminum nitride crystals grown by sublimation
Journal of Electronic Materials 37 (8), pp. 1058-1063 (2008).
 2. Iborra, E., Clement, M., Vergara, L., Sanz-Hervás, A., Olivares, J., Sangrador, J.
Dependence of the IR reflectance LO absorption bands on the crystalline texture of AlN films
Applied Physics Letters 88 (23), art. no. 231901 (2006)
 1. Fisher AS, Goodall PS, Hinds MW, et al.

49. “Optical and electrochromic properties of CVD mixed MoO₃–WO₃ thin films”

T. Ivanova, K. Gesheva, F. Hamelmann, G. Popkirov, M. Abrashev, M. Ganchev and E. Tzvetkova
Vacuum 76, 195-198 (2004)

19. Detailed transmittance analysis of high-performance SnO₂-doped WO₃ thin films in UV–Vis region for electrochromic devices
Olkun, A., Pat, S., Akkurt, N., (...), Özgür, M., Korkmaz, Ş.
Journal of Materials Science: Materials in Electronics 31(21), pp. 19074-19084 (2020)
18. Structural, electronic, optical and lattice dynamic properties of the different WO₃ phases: First-principle calculation
Yang, H., Sun, H., Li, Q., (...), Song, B., Wang, L.
Vacuum 164, pp. 411-420 (2019)
17. Polyoxometalates as promising materials for electrochromic devices
Wang, S.-M., Hwang, J., Kim, E.
Journal of Materials Chemistry C 7(26), pp. 7828-7850 (2019)
16. Indium-doped and positively charged ZnO nanoclusters: versatile materials for CO detection
Omidvar, A.
Vacuum 147, pp. 126-133 (2018)
15. Chu, Ximo S.; Li, Duo O.; Green, Alexander A.; et al.
Formation of MoO₃ and WO₃ nanoscrolls from MoS₂ and WS₂ with atmospheric air plasma
JOURNAL OF MATERIALS CHEMISTRY C Volume: 5 Issue: 43 Pages: 11301-11309 Published: NOV 21 2017
14. Jittiarporn, Phuriwat; Sikong, Lek; Kooptarnond, Kalayane; et al.
Electrochromic properties of MoO₃-WO₃ thin films prepared by a sol-gel method, in the presence of a triblock copolymer template
SURFACE & COATINGS TECHNOLOGY Volume: 327 Pages: 66-74 Published: OCT 25 2017
13. Balaji, M., Chandrasekaran, J., Raja, M., Rajesh, S.
Structural, optical and electrical properties of Ru doped MoO₃ thin films and its P–N diode application by JNS pyrolysis technique
Journal of Materials Science: Materials in Electronics 27(11), 11646-11658 DOI: 10.1007/s10854-016-5300-0 (2016)
12. Kim, M.H., Bark, C.W., Choi, H.W., Kim, K.H.
Working pressure dependence of WO₃-x thin films prepared by reactive facing targets sputtering
Molecular Crystals and Liquid Crystals 602(1), 185-192 DOI: 10.1080/15421406.2014.944761 (2014)
11. Kim, M.H., Choi, H.W., Kim, K.H.
Thickness dependence of WO₃-x thin films for electrochromic device application
Molecular Crystals and Liquid Crystals 598(1), 54-61 DOI: 10.1080/15421406.2014.933298 (2014)
10. Choi, D.S., Han, S.H., Kim, H., Kim, T.Y., Rhyu, S.H., Yoon, D.H., Yang, W.S.
Electrochromic characterization of amorphous tungsten oxide films deposited on indium tin oxide and CVD-graphene electrodes by RF magnetron sputtering
Journal of Ceramic Processing Research 15(4), 273-276 (2014)
9. Kim, M.H., Choi, H.W., Kim, K.H.
Properties of WO₃-x electrochromic thin film prepared by reactive sputtering with various post annealing temperatures
Japanese Journal of Applied Physics 52(11) PART 2 Art. No. 11NB09 DOI: 10.7567/JJAP.52.11NB09 (2013)
8. Kim, M.H., Kang, T.Y., Jung, Y.S., Kim, K.H.
Electrochromic properties of tungsten oxide films prepared by reactive sputtering
Japanese Journal of Applied Physics 52 (5 PART 3), art. no. 05EC03, 2013
7. Zhao, X.-M., Chen, W.-J., Zhang, X.-H., Liu, W.-B., Zhang, Y.-F., Huang, X.
Electronic Properties and Chemical Bonding of O-Rich Clusters MM'O₇ - (M, M' = V, Nb, Ta)
Journal of Cluster Science 22 (3), pp. 397-404, 2011.
6. Lee, Y.J., Seo, Y.I., Kim, S.-H., Kim, D.-G., Kim, Y.D.
Optical properties of molybdenum oxide thin films deposited by chemical vapor transport of MoO₃(OH)₂
Applied Physics A: Materials Science and Processing 97 (1), pp. 237-241 (2009).
5. Deki, S., Béléké, A.B., Kotani, Y., Mizuhata, M.
Liquid phase deposition synthesis of hexagonal molybdenum trioxide thin films
Journal of Solid State Chemistry 182 (9), pp. 2362-2367 (2009).
4. Rothgeb, D.W., Hossain, E., Kuo, A.T., Troyer, J.L., Jarrold, C.C.
Structures of Mox W (3-x) O₆ (x=0-3) anion and neutral clusters determined by anion photoelectron spectroscopy and density functional theory calculations
Journal of Chemical Physics 131 (4), art. no. 044310 (2009).

3. Mayhall, N.J., Rothgeb, D.W., Hossain, E., Raghavachari, K., Jarrold, C.C.
Electronic structures of MoWO₄ - and MoWO₃ determined by anion photoelectron spectroscopy and DFT calculations
Journal of Chemical Physics 130 (12), art. no. 124313 (2009).
 2. Niklasson, G.A., Granqvist, C.G.
Electrochromics for smart windows: Thin films of tungsten oxide and nickel oxide, and devices based on these
Journal of Materials Chemistry 17 (2), pp. 127-156 (2007)
 1. Avendano E, Berggren L, Niklasson GA, et al.
Electrochromic materials and devices: Brief survey and new data on optical absorption in tungsten oxide and nickel oxide films
THIN SOLID FILMS 496 (1): 30-36 FEB 1 2006
50. “Comparative Raman studies of Sr₂RuO₄, Sr₃Ru₂O₇ and Sr₄Ru₃O₁₀”
M. N. Iliev, V. N. Popov, A. P. Litvinchuk, M. V. Abrashev, J. Backstrom, Y. Y. Sun, R. L. Meng, and C. W. Chu
Physica B 358, 138 – 152 (2005)
20. Facile fabrication of exsolved nanoparticle-decorated hollow ferrite fibers as active electrocatalyst for oxygen evolution reaction
Fu, L., Zhou, J., Zhou, L., (...), Wang, J., Wu, K.
Chemical Engineering Journal 418, 129422 (2021)
 19. Spectroscopic and transport properties of Ba- and Ti-doped BaLaInO₄
Tarasova, N.; Galisheva, A.; Animitsa, I
JOURNAL OF RAMAN SPECTROSCOPY Volume: 52 Issue: 5 Pages: 980-987 Published: MAY 2021
 18. Fermi surface and kink structures in Sr₄Ru₃O₁₀ revealed by synchrotron-based ARPES
Ngabonziza, Prosper; Carleschi, Emanuela; Zabolotnyy, Volodymyr; et al.
SCIENTIFIC REPORTS Volume: 10 Issue: 1 Article Number: 21062 Published: DEC 3 2020
 17. Effect of doping on the local structure of new block-layered proton conductors based on BaLaInO₄
Tarasova, N.; Animitsa, I.; Galisheva, A.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 51 Issue: 11 Pages: 2290-2297 Published: NOV 2020
 16. Electronic and vibrational signatures of ruthenium vacancies in Sr₂RuO₄ thin films
Kim, Gideok; Suyolcu, Y. Eren; Herrero-Martin, J.; et al.
PHYSICAL REVIEW MATERIALS Volume: 3 Issue: 9 Article Number: 094802 Published: SEP 27 2019
 15. Barman, Nabadyuti; Singh, Priyank; Narayana, Chandrabhas; et al.
Incipient ferroelectric to a possible ferroelectric transition in Te⁴⁺ doped calcium copper titanate (CaCu₃Ti₄O₁₂) ceramics at low temperature as evidenced by Raman and dielectric spectroscopy
AIP ADVANCES Volume: 7 Issue: 3 Article Number: 035105 Published: MAR 2017
 14. Chen, C., Kim, J., Nascimento, V.B., Diao, Z., Teng, J., Hu, B., Li, G., Liu, F., Zhang, J., Jin, R., Plummer, E.W.
Hidden phases revealed at the surface of double-layered Sr-3(Ru_{1-x}Mnx)(₂)O-7
PHYSICAL REVIEW B Volume: 94 Issue: 8 Article Number: 085420 DOI: 10.1103/PhysRevB.94.085420 Published: AUG 22 2016
 13. Behera, P.S., Bhobe, P.A., Sathe, V.G., Nigam, A.K.
Local lattice distortions and magnetic properties of CdCr₂Se₄-xSx
JOURNAL OF APPLIED PHYSICS Volume: 120 Issue: 4 Article Number: 045107 DOI: 10.1063/1.4959878 Published: JUL 28 2016
 12. Granata, V., Capogna, L., Forte, F., Lepetit, M.-B., Fittipaldi, R., Stunault, A., Cuoco, M., Vecchione, A.
Spin-orbital nature of the high-field magnetic state in the Sr₄Ru₃O₁₀
PHYSICAL REVIEW B Volume: 93 Issue: 11 Article Number: 115128 DOI: 10.1103/PhysRevB.93.115128 Published: MAR 17 2016
 11. Gu, X
Magnetism and optical properties of Co doped Sr₂RuO₄
2015 IEEE MAGNETICS CONFERENCE (INTERMAG) Meeting Abstract: GS-11 Published: 2015
 10. Jiang, Ning; Woodley, Scott M.; Catlow, C. Richard A.; et al.
Applying a new interatomic potential for the modelling of hexagonal and orthorhombic YMnO₃
JOURNAL OF MATERIALS CHEMISTRY C Volume: 3 Issue: 18 Pages: 4787-4793 Published: 2015
 9. Carleschi, E.; Doyle, B. P.; Fittipaldi, R.; et al.
Double metamagnetic transition in Sr₄Ru₃O₁₀
PHYSICAL REVIEW B Volume: 90 Issue: 20 Article Number: 205120 Published: NOV 13 2014
 8. Cooper, S.L.
Exploring the magnetostructural phases of the layered ruthenates with Raman scattering
FRONTIERS OF 4D- AND 5D- TRANSITION METAL OXIDES Pages: 99-162 DOI: 10.1142/9789814374866_0004 Published: 2013
 7. Pandey, P.K., Choudhary, R.J., Mishra, D.K., Sathe, V.G., Phase, D.M.
Signature of spin-phonon coupling in Sr₂CoO₄ thin film: A Raman spectroscopic study
Applied Physics Letters 102 (14), art. no. 142401, 2013

6. Ngabonziza, P, Carleschi, E, Doyle, BP
Signature of Electron-Phonon Correlation in the Band Structure of Sr₄Ru₃O₁₀
PROCEEDINGS OF SAIP2012: THE 57TH ANNUAL CONFERENCE OF THE SOUTH AFRICAN INSTITUTE OF PHYSICS Pages: 153-157 Published: 2012
 5. Mirri, C., Vitucci, F.M., Di Pietro, P., Lupi, S., Fittipaldi, R., Granata, V., Vecchione, A., (...), Calvani, P.
Anisotropic optical conductivity of Sr₄Ru₃O₁₀
Physical Review B - Condensed Matter and Materials Physics 85 (23) , art. no. 235124, 2012.
 4. Puetter Christoph M.; Rau Jeffrey G.; Kee Hae-Young
Microscopic route to nematicity in Sr₃Ru₂O₇
PHYSICAL REVIEW B 81 (8) Article Number: 081105, FEB 2010 .
 3. Davidson, G
Vibrational spectra of transition element compounds
SPECTROSCOPIC PROPERTIES OF INORGANIC AND ORGANOMETALLIC COMPOUNDS, VOL 39 Book Series: Specialist
Periodical Reports Spectroscopic Properties of Inorganic and Organometallic Compounds Volume: 39 Pages: 259-300 DOI: 10.1039/b614705b Published: 2007
 2. Gupta R, Kim M, Barath H, et al.
Field- and pressure-induced phases in Sr₄Ru₃O₁₀: A spectroscopic investigation
PHYSICAL REVIEW LETTERS 96 (6): Art. No. 067004 FEB 17 2006
 1. Laverdiere J, Jandl S, Mukhin AA, et al.
Spin-phonon coupling in orthorhombic RMnO₃ (R=Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Y): A Raman study
PHYSICAL REVIEW B 73 (21), 214301 (2006).
51. *“Optical and electrochromic characterization of multilayered mixed metal oxide thin films”*
Hamelmann F, Gesheva K, Ivanova T, Szekeres A, Abrashev M, Heinzmann U
J. Optoelectr. and Adv. Mater. 7 (1): 393-396 (2005).
27. Tungsten doping effect on V₂O₅ thin film electrochromic performance
Panagopoulou, Marianthi; Vernardou, Dimitra; Koudoumas, Emmanuel; et al.
ELECTROCHIMICA ACTA Volume: 321 Article Number: 134743 Published: OCT 20 2019
 26. Mechanical Milling Influence on Lattice Vibrational Behaviour of MoO₃-V₂O₅ Composite Nanopowders
Sundeeep, Dola; Kumar, T. Vijaya; Kumar, M. Kiran; et al.
SILICON Volume: 11 Issue: 3 Pages: 1517-1524 Published: JUN 2019
 25. Physical Investigations on (MoO₃)_x-(WO₃)_(1-x) Composite Thin Films
Srinivasarao, K.; Prameela, Ch
JOURNAL OF SURFACE SCIENCE AND TECHNOLOGY Volume: 35 Issue: 1-2 Pages: 26-35 Published: JUN 2019
 24. Enhanced photo catalytic activity of graphene oxide /MoO₃ nanocomposites in the degradation of Victoria Blue Dye under visible light irradiation
Kamalam, M. Beaula Ruby; Inbanathan, S. S. R.; Sethuraman, K.
APPLIED SURFACE SCIENCE Volume: 449 Special Issue: SI Pages: 685-696 Published: AUG 15 2018
 23. Sundeeep, Dola; Krishna, A. Gopala; Ravikumar, R. V. S. S. N.; et al.
Spectral characterization of mechanically synthesized MoO₃-CuO nanocomposite
INTERNATIONAL NANO LETTERS Volume: 6 Issue: 2 Pages: 119-128 Published: JUN 2016
 22. Gopala Krishna, A., Ravikumar, R.V.S.S.N, Vijaya Kumar, T., Daniel Ephraim, S., Ranjith, B., Pranoy, M., Dola, S.
Investigation and comparison of optical and Raman bands of mechanically synthesised MoO₃ nano powders
Materials Today: Proceedings 3(1), 54-63 DOI: 10.1016/j.matpr.2016.01.121 (2016)
 21. Meenakshi, M., Sivakumar, R., Perumal, P., Sanjeeviraja, C.
Studies on electrochromic properties of RF sputtered Vanadium Oxide: Tungsten Oxide thin films
MATERIALS TODAY-PROCEEDINGS Volume: 3 Pages: S30-S39 DOI: 10.1016/j.matpr.2016.01.005 Supplement: 1 Published: 2016
 20. Prameela, C., Srinivasarao, K.
Characterization of (MoO₃)_x/(WO₃)_{1-x} composites
International Journal of Applied Engineering Research 10(4), 9865-9875 (2015)
 19. Manivel, Arumugam; Lee, Gang-Juan; Chen, Chin-Yi; et al.
Synthesis of MoO₃ nanoparticles for azo dye degradation by catalytic ozonation
MATERIALS RESEARCH BULLETIN Volume: 62 Pages: 184-191 Published: FEB 2015
 18. Pal, Jaya; Ganguly, Mainak; Mondal, Chanchal; et al.
Precursor salt assisted syntheses of high-index faceted concave hexagon and nanorod-like polyoxometalates
NANOSCALE Volume: 7 Issue: 2 Pages: 708-719 Published: 2015
 17. Kharade, Rohini R.; Mali, S. S.; Mohite, S. S.; et al.
Hybrid Physicochemical Synthesis and Electrochromic Performance of WO₃/MoO₃ Thin Films
ELECTROANALYSIS Volume: 26 Issue: 11 Special Issue: SI Pages: 2388-2397 Published: NOV 2014

16. Chandrasekhar, Prasanna; Zay, Brian J.; Cai, Chunming; et al.
Matched-Dual-Polymer Electrochromic Lenses, Using New Cathodically Coloring Conducting Polymers, with Exceptional Performance and Incorporated Into Automated Sunglasses
JOURNAL OF APPLIED POLYMER SCIENCE 131 (22), Art. No. 41043 NOV 15 2014
15. Lupan, O.; Trofim, V.; Cretu, V.; et al.
Investigation of optical properties and electronic transitions in bulk and nano-microribbons of molybdenum trioxide
JOURNAL OF PHYSICS D-APPLIED PHYSICS 47 (8), Art. No. 085302 FEB 26 2014
14. Chen, Hsi-Chao; Jan, Der-Jun; Luo, Yu-Siang; et al.
Electrochromic and optical properties of tungsten oxide films deposited with DC sputtering by introducing hydrogen
APPLIED OPTICS 53 (4), pp. A321-A329 FEB 1 2014
13. Chen, H.-C., Jan, D.-J., Chen, C.-H., Huang, K.-T.
Bond and electrochromic properties of WO₃ films deposited with horizontal DC, pulsed DC, and RF sputtering
Electrochimica Acta 93, pp. 307-313, 2013
12. Galindo, RE, Benito, N.; Duday, D.; Fuentes, GG, Valle, N, Herrero, P, Vergara, L, Joco, V, Sanchez, O.; Arranz, A, Palacio
In-depth multi-technique characterization of chromium-silicon mixed oxides produced by reactive ion beam mixing of the Cr/Si interface
JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY Volume: 27 Issue: 3 Pages: 390-400 DOI: 10.1039/c2ja10296j Published: 2012
11. Chen, H.-C., Jan, D.-J., Chen, C.-H., Huang, K.-T., Luo, Y.-S., Chen, J.-M.
Investigation of the optical and structural properties of WO₃ thin films with different sputtering power supplies
Proceedings of SPIE - The International Society for Optical Engineering 8486, art. no. 84861F, 2012
10. Chen Hsi-Chao; Jan Der-Jun; Chen Chien-Han
Investigation of Optical and Electrochromic Properties of Tungsten Oxide Deposited with Horizontal DC and DC Pulse Magnetron Sputtering
JAPANESE JOURNAL OF APPLIED PHYSICS 51 (4) Article Number: 045503, APR 2012.
9. Escobar Galindo R.; Benito N.; Duday D.; et al.
In-depth multi-technique characterization of chromium-silicon mixed oxides produced by reactive ion beam mixing of the Cr/Si interface
JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY 27 (3), 390-400, 2012.
8. Chen, H.-C., Jan, D.-J., Chen, C.-H., Huang, K.-T., Lo, Y.-M., Chen, S.-H.
Investigation of the optical property and structure of WO₃ thin films with different sputtering depositions
Proceedings of SPIE - The International Society for Optical Engineering 8168 , art. no. 1, 2011.
7. Liu, P., Liang, Y., Lin, X., Wang, C., Yang, G.
A General Strategy To Fabricate Simple Polyoxometalate Nanostructures: Electrochemistry-Assisted Laser Ablation in Liquid
ACS NANO 5 (6) Pages: 4748-4755, JUN 2011.
6. Pan, W., Tian, R., Jin, H., Guo, Y., Zhang, L., Wu, X., Zhang, L., (...), Chu, W.
Structure, Optical, and Catalytic Properties of Novel Hexagonal Metastable h-MoO(3) Nano- and Microrods Synthesized with Modified Liquid-Phase Processes
CHEMISTRY OF MATERIALS 22 (22) Pages: 6202-6208, NOV 23 2010.
5. Chu, W.G., Wang, H.F., Guo, Y.J., Zhang, L.N., Han, Z.H., Li, Q.Q., Fan, S.S.
Catalyst-free growth of quasi-aligned nanorods of single crystal Cu₃Mo₂O₉ and their catalytic properties
Inorganic Chemistry 48 (3), pp. 1243-1249 (2009).
4. Granqvist, C.G
Transparent conductors as solar energy materials: A panoramic review
Solar Energy Materials and Solar Cells 91 (17), pp. 1529-1598 (2007)
3. Chu, W.G., Zhang, L.N., Wang, H.F., Han, Z.H., Han, D., Li, Q.Q., Fan, S.S
Direct thermal oxidation evaporation growth, structure, and optical properties of single-crystalline nanobelts of molybdenum trioxide
Journal of Materials Research 22 (6), pp. 1609-1617 (2007)
2. Niklasson GA, Granqvist CG
Electrochromics for smart windows: thin films of tungsten oxide and nickel oxide, and devices based on these
JOURNAL OF MATERIALS CHEMISTRY 17 (2): 127-156 (2007).
1. Saad, E.A.-F.I.
Dielectric properties of molybdenum oxide thin films
Journal of Optoelectronics and Advanced Materials 7 (5), pp. 2743-2752 (2005)
52. "Resonant Raman scattering in ion-beam-synthesized Mg₂Si in a silicon matrix"
M. Baleva, G. Zlateva, A. Atanassov, M. Abrashev, and E. Goranova
Phys. Rev. B 72, 115330 (2005)
48. Fine structural and photoluminescence properties of Mg₂Si nanosheet bundles rooted on Si substrates

- Koga, Tomoya; Tamaki, Ryo; Meng, Xiang; et al.
JAPANESE JOURNAL OF APPLIED PHYSICS Volume: 60 Issue: SB Supplement: B Article Number: SBBK07 Published: MAY 1 2021
47. Improving Interface Stability of Si Anodes by Mg Coating in Li-Ion Batteries
Li, Zhifei; Stetson, Caleb; Teeter, Glenn; et al.
ACS APPLIED ENERGY MATERIALS Volume: 3 Issue: 12 Pages: 11534-11539 Published: DEC 28 2020
46. Highly Porous Magnesium Silicide Honeycombs Prepared by Magnesium Vapor Annealing of Silica-Coated Polymer Honeycomb Films toward Ultralightweight Thermoelectric Materials
Yabu, Hiroshi; Matsuo, Yasutaka; Yamada, Takahiro; et al.
CHEMISTRY OF MATERIALS Volume: 32 Issue: 23 Pages: 10176-10183 Published: DEC 8 2020
45. Research on Mg₂Si films prepared using thermal evaporation with Al doping
Yu, H., Zheng, L., Ji, S.T., (...), Gao, C.G., Wu, X.P.
Proceedings of SPIE - The International Society for Optical Engineering 11606,1160618 (2020)
44. Formation of Crystallographically Oriented Metastable Mg_{1.8}Si in Mg Ion-Implanted Si
Kobayashi, Yuki; Naito, Muneyuki; Sudoh, Koichi; et al.
CRYSTAL GROWTH & DESIGN Volume: 19 Issue: 12 Pages: 7138-7142 Published: DEC 2019
43. Influences of Nd doping on preparing Mg₂Si semiconductor thin films by thermal evaporation
Yu, Hong; Luo, Yuee; Wang, Xuewen; et al.
MICRO & NANO LETTERS Volume: 14 Issue: 7 Pages: 737-739 Published: JUN 26 2019
42. Effects of La doping on Mg₂Si semiconductor thin films prepared by thermal evaporation
Yu, Hong; Luo, Yuee; Wang, Xuewen; et al.
MATERIALS RESEARCH EXPRESS Volume: 6 Issue: 2 Article Number: 026301 Published: FEB 2019
41. First-principles study of pressure-induced phase transformations in thermoelectric Mg₂Si
Ji, Depeng; Chong, XiaoYu; Ge, Zhen-Hua; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 773 Pages: 988-996 Published: JAN 30 2019
40. Titanium-based thin films for protective coatings prepared by TVA (Thermionic Vacuum Arc) technology
Vladoiu, R., Mandes, A., Dinca, V., Prodan, G.
MATEC Web of Conferences 249,01005 (2018)
39. Defect-induced room-temperature visible light luminescence in Mg₂Si:Al films
Liao, Yangfang; Fan, Menghui; Xie, Quan; et al.
APPLIED SURFACE SCIENCE Volume: 458 Pages: 360-368 Published: NOV 15 2018
38. Amorphous magnesium silicide
Durandurdu, Murat
JOURNAL OF NON-CRYSTALLINE SOLIDS Volume: 498 Pages: 118-124 Published: OCT 15 2018
37. Growth of (111)-oriented epitaxial magnesium silicide (Mg₂Si) films on (001) Al₂O₃ substrates by RF magnetron sputtering and their properties
Katagiri, Atsuo; Ogawa, Shota; Uehara, Mutsuo; et al.
JOURNAL OF MATERIALS SCIENCE Volume: 53 Issue: 7 Pages: 5151-5158 Published: APR 2018
36. Fabrication and Electrical Properties of Mg₂Si Films on Soda Lime Glass
Fang, D., Xiao, Q., Liao, Y., (...), Wang, S., Wu, H.
Cailiao Daobao/Materials Review 31(2), pp. 9-13 (2017)
35. Wang, J. L.; Zhang, S. J.; Liu, Y.; et al.
Pressure-induced metallization in Mg₂Si
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 50 Issue: 23 Article Number: 235304 Published: JUN 14 2017
34. Liao, Yang-Fang; Xie, Quan; Xiao, Qing-Quan; et al.
Photoluminescence of Mg₂Si films fabricated by magnetron sputtering
APPLIED SURFACE SCIENCE Volume: 403 Pages: 302-307 Published: MAY 1 2017
33. Luniakov, Y.V.
Mg₂si under pressure: Dft evolutionary search results
Solid State Phenomena 249, 9-16 DOI: 10.4028/www.scientific.net/SSP.249.9 (2016)
32. Stefanaki, E.-C., Hatzikranielis, E., Vourlias, G., Chrissafis, K., Kitis, G., Paraskevopoulos, K.M., Polymeris, G.S.
Thermal Stability Study from Room Temperature to 1273 K (1000 A degrees C) in Magnesium Silicide
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE Volume: 47A Issue: 10 Pages: 5146-5158 DOI: 10.1007/s11661-016-3682-5 Published: OCT 2016
31. Chervnev, IM, Shevlyagin, AV, Galkin, KN, Stuchlik, J, Remes, Z, Fajgar, R, Galkin
On the way to enhance the optical absorption of a-Si in NIR by embedding Mg₂Si thin film
APPLIED PHYSICS LETTERS Volume: 109 Issue: 4 Article Number: 043902 DOI: 10.1063/1.4960011 Published: JUL 25 2016
30. Schmuelling, G., Winter, M., Placke, T.

- Investigating the Mg-Si Binary System via Combinatorial Sputter Deposition As High Energy Density Anodes for Lithium-Ion Batteries
ACS APPLIED MATERIALS & INTERFACES Volume: 7 Issue: 36 Pages: 20124-20133 DOI: 10.1021/acsami.5b05382 Published: SEP 16 2015
29. Katagiri, Atsuo; Ogawa, Shota; Oikawa, Takahiro; et al.
Structural characterization of epitaxial Mg₂Si films grown on MgO and MgO-buffered Al₂O₃ substrates
JAPANESE JOURNAL OF APPLIED PHYSICS Volume: 54 Issue: 7 Special Issue: 2 Article Number: 07JC01 Published: JUL 2015
28. Balout, H.; Boulet, P.; Record, M. -C.
Polycrystalline Mg₂Si thin films: A theoretical investigation of their electronic transport properties
JOURNAL OF SOLID STATE CHEMISTRY Volume: 225 Pages: 174-180 Published: MAY 2015
27. Yang, M., Wang, C., Shen, Q.
Growth and microstructures characterization of pulsed laser deposited Mg₂Si thin film on Si(111) substrate
Zhenkong Kexue yu Jishu Xuebao/Journal of Vacuum Science and Technology 34(10), 1112-1117 DOI: 10.13922/j.cnki.cjovst.2014.10.20 (2014)
26. Katagiri, A., Ogawa, S., Shimizu, T., Matsushima, M., Akiyama, K., Funakubo, H.
High temperature reproducible preparation of Mg₂Si films on (001)Al₂O₃ substrates using RF magnetron sputtering method
Materials Research Society Symposium Proceedings 1642 January, 36-41 DOI: 10.1557/opl.2014.44 (2014)
25. Xie, Zheng; Liu, Xiangxuan; Wang, Weipeng; et al.
Enhanced photoelectrochemical properties of TiO₂ nanorod arrays decorated with CdS nanoparticles
SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS Volume: 15 Issue: 5 Article Number: 055006 Published: OCT 2014
24. Polymeris, G. S.; Theodorakakos, A.; Mars, K.; et al.
Comparing Doping Methodologies in Mg₂Si/AgMg System
JOURNAL OF ELECTRONIC MATERIALS 43 (10), pp. 3876-3883 OCT 2014
23. Morozova, Natalia V.; Ovsyannikov, Sergey V.; Korobeinikov, Igor V.; et al.
Significant enhancement of thermoelectric properties and metallization of Al-doped Mg₂Si under pressure
JOURNAL OF APPLIED PHYSICS 115 (21), Art. No. 213705 JUN 7 2014
22. Balout, Hilal; Boulet, Pascal; Record, Marie-Christine
Effect of Biaxial Strain on Electronic and Thermoelectric Properties of Mg₂Si
JOURNAL OF ELECTRONIC MATERIALS 42 (12), pp. 3458-3466 DEC 2013
21. Stathokostopoulos, D.; Chaliampalias, D.; Stefanaki, E. C.; et al.
Structure, morphology and electrical properties of Mg₂Si layers deposited by pack cementation
APPLIED SURFACE SCIENCE 285, pp. 417-424 Part: B NOV 15 2013
20. Akiyama, Kensuke; Katagiri, Atsuo; Ogawa, Shota; et al.
Epitaxial growth of Mg₂Si films on strontium titanate single crystals
Physica Status Solidi C-Current Topics in Solid State Physics 10 (12), pp. 1688-1691 2013
19. Yu, H.; Xie, Q.; Chen, Q.
Effects of annealing on the formation of Mg₂Si film prepared by resistive thermal evaporation method
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 24 (10), 3768-3775, OCT 2013
18. Udono, Haruhiko; Yamanaka, Yusuke; Uchikoshi, Masahito; et al.
Infrared photoresponse from pn-junction Mg₂Si diodes fabricated by thermal diffusion
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 74 (2), 311-314, FEB 2013
17. Yu, Z., Xie, Q.
Effects of sputtering power on preferred orientation of semiconductor optoelectronics Mg₂Si films
Yadian Yu Shengguang/Piezoelectrics and Acoustooptics 35 (3), pp. 438-440, 2013
16. Yu, H., Xie, Q., Xiao, Q.-Q., Chen, Q.
Thermal evaporation method of semiconducting Mg₂Si films
Gongneng Cailiao/Journal of Functional Materials 44 (8), pp. 1204-1207, 2013
15. Xiao, Q.-Q., Xie, Q., Shen, X.-Q., Zhang, J.-M., Chen, Q.
Preparation of single phase semiconducting Mg₂Si film on Si substrate by low vacuum heat treatment
Gongneng Cailiao/Journal of Functional Materials 44 (4), pp. 585-589, 2013
14. Zhu, Feng; Wu, Xiang; Qin, Shan; et al.
A re-investigation on pressure-induced phase transition of Mg₂Si
SOLID STATE COMMUNICATIONS 152 (24), 2160-2164, DEC 2012
13. Zhang, C., Yu, Z.
Effects of sputtering power on the fabrication of Mg₂Si films
Yadian Yu Shengguang/Piezoelectrics and Acoustooptics 34 (2), pp. 273-275, 2012.
12. Yu, R., Zhai, P., Li, G., Liu, L.

Molecular dynamics simulation of the mechanical properties of single-crystal bulk Mg₂Si
Journal of Electronic Materials 41 (6) , pp. 1465-1469, 2012.

11. Ren Wanbin; Han Yonghao; Liu Cailong; et al.
Pressure-induced semiconductor-metal phase transition in Mg₂Si
SOLID STATE COMMUNICATIONS 152 (5), 440-442, MAR 2012.

10. Zhong, J., Yu, Z., Zhang, C., Yang, Q.
Study on epitaxial growth of Mg₂Si film on Si (100) substrate
Yadian Yu Shengguang/Piezoelectrics and Acoustooptics 34 (1), 133-135, 2012.

9. Loannou M.; Hatzikraniotis E.; Lioutas Ch.; et al.
Fabrication of nanocrystalline Mg₂Si via ball milling process: Structural studies
POWDER TECHNOLOGY 217, 523-532, FEB 2012.

8. Kato, T., Sago, Y., Fujiwara, H.
Optoelectronic properties of Mg₂Si semiconducting layers with high absorption coefficients
Journal of Applied Physics 110 (6) , art. no. 063723, 2011.

7. Zhang, C., Yua, Z.
Effects of sputtering power on the microstructure of Mg₂Si films by magnetron sputtering
Advanced Materials Research 287-290, 2298-2301, 2011.

6. Yu Ben-Hai; Liu Mo-Lin; Chen Dong
First principles study of structural, electronic and elastic properties of Mg(2)Si polymorphs
ACTA PHYSICA SINICA 60 (8) Article Number: 087105, AUG 2011.

5. Yu Ben-Hai; Peng Feng; Chen Dong; et al.
Periodic DFT calculation of the pressure-induced phase transition and thermodynamical properties of magnesium silicide polymorphs
PHYSICA B-CONDENSED MATTER 406 (11) Pages: 2070-2076, MAY 15 2011.

4. Yu Ben-Hai; Chen Dong
Phase transition, structural and thermodynamic properties of Mg(2)Si polymorphs
CHINESE PHYSICS B 20 (3) Article Number: 030508, MAR 2011.

3. Hao Jun-Hua; Guo Zhi-Guang; Jin Qing-Hua
First principles calculation of structural phase transformation in Mg(2)Si at high pressure
SOLID STATE COMMUNICATIONS 150 (47-48) Pages: 2299-2302. DEC 2010.

2. Yu Benhai; Chen Dong; Tang Qingbin; et al.
Structural, electronic, elastic and thermal properties of Mg(2)Si
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 71 (5) Pages: 758-763, MAY 2010.

1. Hao Jian; Zou Bo; Zhu Pinwen; et al.
In situ X-ray observation of phase transitions in Mg(2)Si under high pressure
SOLID STATE COMMUNICATIONS 149 (17-18), 689-692, MAY 2009.

53. *“Low-temperature CVD-process for growing of electrochromic chromium oxide thin films”*

T. Ivanova, K. A. Gesheva, E. Steinman, and M. Abrashev
Proceedings – Electrochemical Society PV 2005-09, 928-935 (2005).

54. *“Distortion-dependent Raman spectra and mode mixing in RMnO₃ perovskites (R=La,Pr,Nd,Sm,Eu,Gd,Tb,Dy,Ho,Y)”*

M. N. Iliev, M. V. Abrashev, J. Laverdière, S. Jandl, M. M. Gospodinov, Y.-Q. Wang, and Y.-Y. Sun
Phys. Rev. B 73, 064302 (2006).

174. Electrochemical and magnetic properties of perovskite type RMnO₃ (R = La, Nd, Sm, Eu) nanofibers
Hu, Q., Yue, B., Yang, F., (...), Wang, Y., Liu, J.
Journal of Alloys and Compounds 872,159727 (2021)

173. Spin-phonon coupling in the incommensurate magnetic ordered phase of orthorhombic TmMnO₃
Araújo, B.S., Arévalo-López, A.M., Santos, C.C., (...), Paschoal, C.W.A., Ayala, A.P.
Journal of Physics and Chemistry of Solids 154,110044 (2021)

172. Exploiting novel optical thermometry near room temperature with a combination of phase-change host and luminescent Pr³⁺ ion
Wang, S., Zhang, J., Ye, Z., Yu, H., Zhang, H.
Chemical Engineering Journal 414,128884 (2021)

171. Tuning Jahn-Teller distortion and electron localization of LaMnO₃ epitaxial films via substrate temperature
Chen, Xin; Wang, Baohua; Chen, Yang; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 54 Issue: 23 Article Number: 235302 Published: JUN 10 2021

170. Epitaxial LaMnO₃ films with remarkably fast oxygen transport properties at low temperature

- Rodriguez-Lamas, Raquel; Pirovano, Caroline; Stangl, Alexander; et al.
JOURNAL OF MATERIALS CHEMISTRY A Early Access: MAY 2021
169. Vibrational study of lead bromide perovskite materials with variable cations based on Raman spectroscopy and density functional theory
Ghosh, Supriya; Rana, Deb Kumar; Pradhan, Bapi; et al.
JOURNAL OF RAMAN SPECTROSCOPY Early Access: MAY 2021
168. Structure-property correlations and scaling in the magnetic and magnetocaloric properties of GdCrO₃ particles
Shi, Jianhang; Sauyet, Theodore; Dang, Yanliu; et al.
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 33 Issue: 20 Article Number: 205801 Published: MAY 19 2021
167. A comparative study of the structural, optical, magnetic and magnetocaloric properties of HoCrO₃ and HoCr_{0.85}Mn_{0.15}O₃ orthochromites
Kanwar, Komal; Coondoo, Indrani; Anas, M.; et al.
CERAMICS INTERNATIONAL Volume: 47 Issue: 6 Pages: 7386-7397 Published: MAR 15 2021
166. Constructing Electron Levers in Perovskite Nanocrystals to Regulate the Local Electron Density for Intensive Chemodynamic Therapy
Zhao, Peiran; Jiang, Yaqin; Tang, Zhongmin; et al.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 60 Issue: 16 Pages: 8905-8912 Published: APR 12 2021
165. Spectroscopic and transport properties of Ba- and Ti-doped BaLaInO₄
Tarasova, N.; Galisheva, A.; Animitsa, I
JOURNAL OF RAMAN SPECTROSCOPY Volume: 52 Issue: 5 Pages: 980-987 Published: MAY 2021
164. Study of gadolinium substitution effects in hexagonal yttrium manganite YMnO₃
Karoblis, Dovydas; Zarkov, Aleksej; Garskaite, Edita; et al.
SCIENTIFIC REPORTS Volume: 11 Issue: 1 Article Number: 2875 Published: FEB 3 2021
163. Magnetic and Magnetocaloric Properties of Multiferroic Oxides Gd_{0.5}Y_{0.5}MnO₃ and Eu_{0.5}Dy_{0.5}MnO₃
Behera, P. Suchismita; Nirmala, R.
IEEE TRANSACTIONS ON MAGNETICS Volume: 57 Issue: 2 Article Number: 2200705 Published: FEB 2021
162. Strong Impact of Cr Doping on Structural and Magnetic Properties of Bi_{0.5}La_{0.5}Fe_{1-x}Cr_xO_{3-δ}
Dang, N. T.; Rutkauskas, A.; V.; Kichanov, S. E.; et al.
JOURNAL OF ELECTRONIC MATERIALS Volume: 50 Issue: 3 Special Issue: SI Pages: 1340-1348 Published: MAR 2021
161. New perovskite Ba_{0.7}La_{0.3}Ti_{0.55}Fe_{0.45}O_{3-δ} prepared by citric sol-gel method: From structure to physical properties
Bennour, I., Mohamed, M., Kabadou, A., Abdelmouleh, M.
Journal of Molecular Structure 1217,128347 (2020)
160. Physical study of PrCu_{1-x}Zn_xO₃ perovskite for 0.0 ≤ x ≤ 0.3
Maayoufi, A. E.; Sdiri, N.; Valente, M. A.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 849 Article Number: 156239 Published: DEC 30 2020
159. Site substitution in GdMnO₃: Effects on structural, electronic, and magnetic properties
Mahana, Sudipta; Pandey, Shishir Kumar; Rakshit, Bipul; et al.
PHYSICAL REVIEW B Volume: 102 Issue: 24 Article Number: 245120 Published: DEC 15 2020
158. Field-driven spin reorientation in SmMnO₃ polycrystalline powders
Mantilla, John; Morales, Marco; Venceslau, Wenderson; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 845 Article Number: 156327 Published: DEC 10 2020
157. Heterometallic 3d-4f Complexes as Air-Stable Molecular Precursors in Low Temperature Syntheses of Stoichiometric Rare-Earth Orthoferrite Powders
Alsowaygh, Marwah M.; Timco, Grigore A.; Borilovic, Ivana; et al.
INORGANIC CHEMISTRY Volume: 59 Issue: 21 Pages: 15796-15806 Published: NOV 2 2020
156. Synthesis, structural and optical properties of LaFe_{1-x}Cr_xO₃ nanoparticles
Rachid, F. Z.; Omari, L. H.; Lassri, H.; et al.
OPTICAL MATERIALS Volume: 109 Article Number: 110332 Published: NOV 2020
155. The effect of rare-earth Gd-substitution on the structural, magnetic and specific heat properties in orthorhombic DyMnO₃ ceramics
Bhoi, Krishnamayee; Patidar, Manju Mishra; Krishnan, M.; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 53 Issue: 40 Article Number: 405301 Published: SEP 30 2020
154. Effect of doping on the local structure of new block-layered proton conductors based on BaLaInO₄
Tarasova, N.; Animitsa, I.; Galisheva, A.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 51 Issue: 11 Pages: 2290-2297 Published: NOV 2020
153. Strain healing of spin-orbit coupling: a cause for enhanced magnetic moment in epitaxial SrRuO₃ thin films
Tyagi, Shekhar; Sathe, V. G.; Sharma, Gaurav; et al.
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 32 Issue: 30 Article Number: 305501 Published: JUL 15 2020
152. Temperature-induced crystallinity and vibrational properties in samarium orthovanadate

- Varghese, Emin; Kumar, Sourabh; Pathak, Biswarup; et al.
PHYSICAL REVIEW B Volume: 101 Issue: 17 Article Number: 174112 Published: MAY 21 2020
151. Spin-phonon coupling in monoclinic BiCrO₃
Araujo, B. S.; Arevalo-Lopez, A. M.; Santos, C. C.; et al.
JOURNAL OF APPLIED PHYSICS Volume: 127 Issue: 11 Article Number: 114102 Published: MAR 21 2020
150. X-ray diffraction and Raman spectroscopy for lead halide perovskites (Book Chapter)
Rahman, M.Z., Edvinsson, T.
Characterization Techniques for Perovskite Solar Cell Materials pp. 23-47 (2019)
149. Anomalous magnetic behavior and complex magnetic structure of proximate LaCrO₃-LaFeO₃ system
Tiwari, Brajesh; Dixit, Ambesh; Rao, M. S. Ramachandra
MATERIALS RESEARCH EXPRESS Volume: 6 Issue: 12 Article Number: 126119 Published: DEC 2019
148. A Griffiths-like phase and variable range hopping of polarons in orthorhombic perovskite Pr₂CrMnO₆
Aswathi, Kaipamangalath; Palakkal, Jasnamol P.; Lekshmi, P. Neenu; et al.
NEW JOURNAL OF CHEMISTRY Volume: 43 Issue: 44 Pages: 17351-17357 Published: NOV 28 2019
147. Structure of nanocrystalline Nd_{0.5}R_{0.5}FeO₃ (R=La, Pr, and Sm) intercorrelated with optical, magnetic and thermal properties
Somvanshi, Anand; Husain, Shahid; Manzoor, Samiya; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 806 Pages: 1250-1259 Published: OCT 25 2019
146. Magnetic field-dependent low-energy magnon dynamics in alpha-RuCl₃
Ozel, Ilkem Ozge; Belvin, Carina A.; Baldini, Edoardo; et al.
PHYSICAL REVIEW B Volume: 100 Issue: 8 Article Number: 085108 Published: AUG 2 2019
145. Fast preparation of Ce³⁺-activated scandate for high-color- rendering warm white-light illumination by cation exchange
Ma, Shuwei; Liu, Shuxin; Wang, Shuxian; et al.
JOURNAL OF LUMINESCENCE Volume: 212 Pages: 361-367 Published: AUG 2019
144. Structural and magnetic phase transitions along with optical properties in GdMn_{1-x}Fe_xO₃ perovskite
Tiwari, Priyanka; Kumar, Sandeep; Rath, Chandana
JOURNAL OF APPLIED PHYSICS Volume: 126 Issue: 4 Article Number: 045102 Published: JUL 28 2019
143. Structural and electrochemical properties of B-site Ru-doped (La_{0.8}Sr_{0.2})(0.9)Sc_{0.2}Mn_{0.8}O_{3-δ} as symmetrical electrodes for reversible solid oxide cells
Zhou, Jun; Wang, Ning; Cui, Jiajia; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 792 Pages: 1132-1140 Published: JUL 5 2019
142. Jahn-Teller reconstructed surface of the doped manganites shown by means of surface-enhanced Raman spectroscopy
Merten, S.; Bruchmann-Bamberg, V.; Damaschke, B.; et al.
PHYSICAL REVIEW MATERIALS Volume: 3 Issue: 6 Article Number: 060401 Published: JUN 28 2019
141. Magnetic phase transition and multiferroic phase separation in Ho_{1-x}Gd_xMnO₃
Zhang, N.; Wang, Y. P.; Li, X.; et al.
CERAMICS INTERNATIONAL Volume: 45 Issue: 7 Pages: 8325-8332 Part: A Published: MAY 2019
140. Intrinsic structural distortion and magnetic interaction in Lu_xSm_{1-x}CrO₃ compounds
Xiang, Zhongcheng; Ge, Shuaipeng; Huang, Yunxia; et al.
SOLID STATE SCIENCES Volume: 89 Pages: 100-105 Published: MAR 2019
139. Phase separation and local lattice distortions analysis of charge-ordered manganese films La_{1-x}Ca_xMnO_{3-δ} by Raman spectroscopy
Trotsenko, V. G.; Lahmar, A.; Lyanguzov, N. V.; et al.
SUPERLATTICES AND MICROSTRUCTURES Volume: 127 Pages: 100-108 Published: MAR 2019
138. Crossover in the pressure evolution of elementary distortions in RFeO₃ perovskites and its impact on their phase transition
Vilarinho, R.; Bouvier, P.; Guennou, M.; et al.
PHYSICAL REVIEW B Volume: 99 Issue: 6 Article Number: 064109 Published: FEB 25 2019
137. Magnetic-Field-Induced Suppression of Jahn-Teller Phonon Bands in (La_{0.6}Pr_{0.4})(0.7)Ca_{0.3}MnO₃: the Mechanism of Colossal Magnetoresistance shown by Raman Spectroscopy
Merten, S.; Shapoval, O.; Damaschke, B.; et al.
SCIENTIFIC REPORTS Volume: 9 Article Number: 2387 Published: FEB 20 2019
136. Study of crystal-field excitations and infrared active phonons in TbMnO₃
Mansouri, S., Jandl, S., Balli, M., (...), Balbashov, A., Orlita, M.
Journal of Physics Condensed Matter 30(17),175602 (2018)
135. Effect of rare earth ions on structural and optical properties of specific perovskite orthochromates; RCrO₃ (R = La, Nd, Eu, Gd, Dy, and Y)
Singh, Kapil Dev; Pandit, Rabia; Kumar, Ravi
SOLID STATE SCIENCES Volume: 85 Pages: 70-75 Published: NOV 2018
134. Handling magnetic and structural properties of EuMnO₃ thin films by the combined effect of Lu doping and substrate strain

- Romaguera-Barcelay, Y.; Figueiras, F. G.; Agostinho Moreira, J.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 762 Pages: 319-325 Published: SEP 25 2018
133. A Novel Wet-Chemical Route for Synthesis of Multiferroic AMnO₃ (A = Gd, Tb, Dy) Particles and Its Structural, Optical and Magnetic Properties
Qu, Nianrui; Li, Zhiping
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume: 31 Issue: 9 Pages: 2869-2877 Published: SEP 2018
132. Analysis of Zn substitution on structure, optical absorption, magnetization, and high temperature specific heat anomaly of the nano-crystalline LaFeO₃
Manzoor, Samiya; Husain, Shahid
JOURNAL OF APPLIED PHYSICS Volume: 124 Issue: 6 Article Number: 065110 Published: AUG 14 2018
131. Observation of transient lattice disorder at the onset of multiferroic ordering in Eu_{1-x}HoxMnO₃ by Raman spectroscopy
Elsaesser, S.; Mukhin, A. A.; Balbashov, A. M.; et al.
PHYSICAL REVIEW B Volume: 97 Issue: 22 Article Number: 224307 Published: JUN 25 2018
130. Rare earth indates (RE: La-Yb): influence of the synthesis route and heat treatment on the crystal structure
Shukla, Rakesh; Grover, Vinita; Srinivasu, Kancharlapalli; et al.
DALTON TRANSACTIONS Volume: 47 Issue: 19 Pages: 6787-6799 Published: MAY 21 2018
129. An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes
Chen, Yu; Yoo, Seonyoung; Li, Xiaxi; et al.
NANO ENERGY Volume: 47 Pages: 474-480 Published: MAY 2018
128. Suppression of the cooperative Jahn-Teller distortion and its effect on the Raman octahedra-rotation modes of TbMn_{1-x}FexO₃
Vilarinho, R.; Passos, D. J.; Queiros, E. C.; et al.
PHYSICAL REVIEW B Volume: 97 Issue: 14 Article Number: 144110 Published: APR 19 2018
127. Spin-phonon coupling in HoCr_{1-x}FexO₃ (x=0 and 0.5) compounds
Kotnana, Ganesh; Sathe, Vasant. G.; Jammalamadaka, S. Narayana
JOURNAL OF RAMAN SPECTROSCOPY Volume: 49 Issue: 4 Pages: 764-770 Published: APR 2018
126. Lattice-mediated magnetic order melting in TbMnO₃
Baldini, Edoardo; Kubacka, Teresa; Mallett, Benjamin P. P.; et al.
PHYSICAL REVIEW B Volume: 97 Issue: 12 Article Number: 125149 Published: MAR 27 2018
125. An In Situ Formed, Dual-Phase Cathode with a Highly Active Catalyst Coating for Protonic Ceramic Fuel Cells
Chen, Yu; Yoo, Seonyoung; Pei, Kai; et al.
ADVANCED FUNCTIONAL MATERIALS Volume: 28 Issue: 5 Article Number: 1704907 Published: JAN 31 2018
124. Exchange bias effect in hybrid improper ferroelectricity Ca_{2.94}Na_{0.06}Mn₂O₇
Li, Songyang; Wang, Shouyu; Lu, Yangong; et al.
AIP ADVANCES Volume: 8 Issue: 1 Article Number: 015009 Published: JAN 2018
123. Structural and spectroscopic studies on HoCr_{1-x}FexO₃ (x=0 and 0.5) Compounds
Kotnana, Ganesh; Sathe, V. G.; Jammalamadaka, S. Narayana
AIP Conference Proceedings Volume: 1942 Article Number: 090040 Published: 2018
122. Ac Conductivity And Raman Spectroscopic Studies Of PrMnO₃ Nanostructure
Saha, Sujoy; Maity, Ritwik; Sakhya, Anup Pradhan; et al.
MATERIALS TODAY-PROCEEDINGS Volume: 5 Issue: 3 Pages: 9981-9988 Part: 3 Published: 2018
121. Intrinsic structural distortion and exchange interactions in SmFexCr_{1-x}O₃ compounds
Xiang, Zhongcheng; Li, Wenping; Cui, Yimin
RSC ADVANCES Volume: 8 Issue: 16 Pages: 8842-8848 Published: 2018
120. Structural, microstructural and dielectric behavior of sol-gel grown nanostructured Y_{0.95}Zr_{0.05}MnO₃
Rathod, K.N., Thakrar, K., Gadani, K., (...), Solanki, P.S., Shah, N.A.
Materials Chemistry and Physics 198, pp. 200-208 (2017)
119. Polarized Raman scattering on single crystals of rare earth orthochromite RCrO₃ (R=La, Pr, Nd, and Sm)
Camara, Nimbo Robert; Vinh Ta Phuoc; Monot-Laffez, Isabelle; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 48 Issue: 12 Pages: 1839-1851 Published: DEC 2017
118. A comparative Raman study between PrMnO₃, NdMnO₃, TbMnO₃ and DyMnO₃
Mansouri, Sabeur; Jandl, Serge; Mukhin, Alexander; et al.
SCIENTIFIC REPORTS Volume: 7 Article Number: 13796 Published: OCT 23 2017
117. Shimamoto, Kenta; Mukherjee, Saumya; Bingham, Nicholas S.; et al.
Single-axis-dependent structural and multiferroic properties of orthorhombic RMnO₃ (R = Gd-Lu)
PHYSICAL REVIEW B Volume: 95 Issue: 18 Article Number: 184105 Published: MAY 8 2017
116. Singh, Deepa; Gupta, Rashmi; Bamzai, K. K.
Electrical and magnetic properties of GdCr_xMn_{1-x}O₃ (x=0.0, 0.1) multiferroic nanoparticles

115. Blanck, Dimitri; Schon, Anke; Mamede, Anne-Sophie; et al.
In situ Raman spectroscopy evidence of an accessible phase potentially involved in the enhanced activity of La -deficient lanthanum orthoferrite in 3-way catalysis (TWC)
CATALYSIS TODAY Volume: 283 Pages: 151-157 Published: APR 1 2017
114. Aliabad, H. A. Rahnamaye; Barzanuni, Z.; Sani, S. Ramezani; et al.
Thermoelectric and phononic properties of (Gd, Tb) MnO₃ compounds: DFT calculations
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 690 Pages: 942-952 Published: JAN 5 2017
113. Meyer, Christoph; Huehn, Sebastian; Jungbauer, Markus; et al.
Tip-enhanced Raman spectroscopy (TERS) on double perovskite La₂CoMnO₆ thin films: field enhancement and depolarization effects
JOURNAL OF RAMAN SPECTROSCOPY Volume: 48 Issue: 1 Pages: 46-52 Published: JAN 2017
112. Rahnamaye Aliabad, H.A., Barzanuni, Z., Sani, S.R., Ahmad, I., Jalali-Asadabadi, S., Vaezi, H., Dastras, M.
Thermoelectric and phononic properties of (Gd, Tb) MnO₃ compounds: DFT calculations
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 690 Pages: 942-952 DOI: 10.1016/j.jallcom.2016.08.167 Published: JAN 5 2017
111. Weber, Mads Christof; Guennou, Mael; Zhao, Hong Jian; et al.
Raman spectroscopy of rare-earth orthoferrites RFeO₃ (R=La, Sm, Eu, Gd, Tb, Dy)
PHYSICAL REVIEW B Volume: 94 Issue: 21 Article Number: 214103 Published: DEC 7 2016
110. Praveena, K., Bharathi, P., Liu, H.-L., Varma, K.B.R.
Structural, multiferroic properties and enhanced magnetoelectric coupling in Sm_{1-x}CaxFeO₃
Ceramics International 42(12), 13572-13585 DOI: 10.1016/j.ceramint.2016.05.150 (2016)
109. Jin, X., Li, H., Li, D., Zhang, Q., Li, F., Sun, W., Chen, Z., Li, Q.
Role of ytterbium- erbium co-doped gadolinium molybdate (Gd-2(MoO₄)(3):Yb/Er) nanophosphors in solar cells
OPTICS EXPRESS Volume: 24 Issue: 18 Pages: A1276-A1287 DOI: 10.1364/OE.24.0A1276 Published: SEP 5 2016
108. Saha, S., Chanda, S., Dutta, A., Sinha, T.P.
Dielectric relaxation of PrFeO₃ nanoparticles
SOLID STATE SCIENCES Volume: 58 Pages: 55-63 DOI: 10.1016/j.solidstatesciences.2016.05.013 Published: AUG 2016
107. Weber, M.C., Guennou, M., Dix, N., Pesquera, D., Sánchez, F., Herranz, G., Fontcuberta, J., López-Conesa, L., Estradé, S., Peiró, F., Iñiguez, J., Kreisel, J.
Multiple strain-induced phase transitions in LaNiO₃ thin films
PHYSICAL REVIEW B Volume: 94 Issue: 1 Article Number: 014118 DOI: 10.1103/PhysRevB.94.014118 Published: JUL 29 2016
106. Paul, B., Chatterjee, S., Gop, S., Roy, A., Grover, V., Shukla, R., Tyagi, A.K.
Evolution of lattice dynamics in ferroelectric hexagonal REInO₃ (RE = Ho, Dy, Tb, Gd, Eu, Sm) perovskites
MATERIALS RESEARCH EXPRESS Volume: 3 Issue: 7 Article Number: UNSP 075703 DOI: 10.1088/2053-1591/3/7/075703
Published: JUL 2016
105. Mishra, S.K., Gupta, M.K., Mittal, R., Kolesnikov, A.I., Chaplot, S.L.
Spin-phonon coupling and high-pressure phase transitions of RMnO₃ (R = Ca and Pr): An inelastic neutron scattering and first-principles study
PHYSICAL REVIEW B Volume: 93 Issue: 21 Article Number: 214306 DOI: 10.1103/PhysRevB.93.214306 Published: JUN 22 2016
104. Shukla, R., Chakraborty, KR, Mandal, BP, Kaushik, SD, Mukadam, MD, Lawes, G, Naik, R.; Kumarasiri, A, Siruguri, V, Yusuf, SM, Tyagi, AK
Synthesis, Characterization and Exploration of Multiferroic Properties in Nano-Crystalline Tb_{1-x}Y_xMnO₃ (0 ≤ x ≤ 0.4)
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY Volume: 16 Issue: 4 Pages: 4094-4099 DOI: 10.1166/jnn.2016.11102
Published: APR 2016
103. Kováčik, R., Murthy, S.S., Quiroga, C.E., Ederer, C., Franchini, C.
Combined first-principles and model Hamiltonian study of the perovskite series RMnO₃ (R = La, Pr, Nd, Sm, Eu, and Gd)
PHYSICAL REVIEW B Volume: 93 Issue: 7 Article Number: 075139 DOI: 10.1103/PhysRevB.93.075139 Published: FEB 19 2016
102. Elsässer, S., Geurts, J., Mukhin, A.A., Balbashov, A.M.
Lattice dynamics and spin-phonon coupling in orthorhombic Eu_{1-x}HoxMnO₃ (x ≤ 0.3) studied by Raman spectroscopy
PHYSICAL REVIEW B Volume: 93 Issue: 5 Article Number: 054301 DOI: 10.1103/PhysRevB.93.054301 Published: FEB 4 2016
101. Wahab, H.
Effect of A - Site disorder on the bonding mechanism and optical properties of Sm-x(Al₂O₃)(1-x) system
PHYSICA B-CONDENSED MATTER Volume: 481 Pages: 24-31 DOI: 10.1016/j.physb.2015.10.020 Published: JAN 15 2016
100. Yadagiri, K., Nithya, R.
Structural and micro-Raman studies of DyMnO₃ with potassium substitution at the Dy site
RSC ADVANCES Volume: 6 Issue: 98 Pages: 95417-95424 DOI: 10.1039/c6ra13808j Published: 2016
99. Romaguera-Barcelay, Y., Moreira, J.A., Almeida, A., Tavares, P.B., Fernandes, L., Pérez de la Cruz, J.
Persistence of the orthorhombic phase in YMnO₃ hexagonal thin films
FERROELECTRICS Volume: 498 Issue: 1 Special Issue: SI Pages: 80-84 DOI: 10.1080/00150193.2016.1168211 Part: 2 Published: 2016

98. Lahmar, A., Es-Souni, M.
Sequence of structural transitions in BiFeO₃-RMnO₃ thin films (R=Rare earth)
Ceramics International 41(4), 5721-5726 DOI: 10.1016/j.ceramint.2014.12.157 (2015)
97. Zhang, AM (Zhang An-Min); Liu, K (Liu Kai); Ji, JT (Ji Jian-Ting); He, CZ (He Chang-Zhen); Tian, Y (Tian Yong); Jin, F (Jin Feng); Zhang, QM (Zhang Qing-Ming)
Raman phonons in multiferroic FeVO₄ crystals
CHINESE PHYSICS B Volume: 24 Issue: 12 Article Number: 126301 DOI: 10.1088/1674-1056/24/12/126301 Published: DEC 2015
96. Chanda, S., Saha, S., Dutta, A., Irfan, B., Chatterjee, R., Sinha, T.P.
Magnetic and dielectric properties of orthoferrites La_{1-x}Pr_xFeO₃ (x=0, 0.1, 0.2, 0.3, 0.4 and 0.5)
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 649 Pages: 1260-1266 DOI: 10.1016/j.jallcom.2015.07.215 Published: NOV 15 2015
95. Li, D., Sun, W., Shao, L., Wu, S., Huang, Z., Jin, X., Zhang, Q., Li, Q.
Tailoring solar energy spectrum for efficient organic/inorganic hybrid solar cells by up-conversion luminescence nanophosphors
ELECTROCHIMICA ACTA Volume: 182 Pages: 416-423 DOI: 10.1016/j.electacta.2015.09.023 Published: NOV 10 2015
94. Zhang, X., Zhang, A.M., Xie, W.M., Lin, J.G., Wu, X.S.
Effect of strain-modulated lattice distortion on the magnetic properties of LaMnO₃ films
PHYSICA B-CONDENSED MATTER Volume: 476 Pages: 114-117 DOI: 10.1016/j.physb.2015.04.038 Published: NOV 1 2015
93. Xie, Changzheng; Shi, Lei; Zhao, Jiyin; et al.
The influence of substrate orientation and annealing condition on the properties of LaMnO₃ thin films grown by polymer-assisted deposition
APPLIED SURFACE SCIENCE Volume: 351 Pages: 188-192 Published: OCT 1 2015
92. Vilarinho, R.; Queiros, E. C.; Almeida, A.; et al.
Scaling spin-phonon and spin-spin interactions in magnetoelectric Gd_{1-x}Y_xMnO₃
JOURNAL OF SOLID STATE CHEMISTRY Volume: 228 Pages: 76-81 Published: AUG 2015
91. McDannald, A.; Kuna, L.; Seehra, M. S.; et al.
Magnetic exchange interactions of rare-earth-substituted DyCrO₃ bulk powders
PHYSICAL REVIEW B Volume: 91 Issue: 22 Article Number: 224415 Published: JUN 11 2015
90. Mishra, Dileep K.; Sathe, V. G.; Rawat, R.; et al.
Controlling phase separation in La_{5/8-y}PryCa_{3/8}MnO₃ (y=0.45) epitaxial thin films by strain disorder
APPLIED PHYSICS LETTERS Volume: 106 Issue: 7 Article Number: 072401 Published: FEB 16 2015
89. Tang, Ping; Kuang, Daihong; Yang, Shenghong; et al.
The structural, optical and enhanced magnetic properties of Bi_{1-x}Gd_xFe_{1-y}Mn_yO₃ nanoparticles synthesized by sol-gel
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 622 Pages: 194-199 Published: FEB 15 2015
88. Lazurova, J.; Mihalik, M.; Mihalik, M., Jr.; et al.
Magnetic Properties and Mossbauer spectroscopy of NdFe₂(1-x)Mn_xO₃
Journal of Physics Conference Series Volume: 592 Article Number: 012117 Published: 2015
87. Gupta, Preeti; Poddar, Pankaj
Using Raman and dielectric spectroscopy to elucidate the spin phonon and magnetoelectric coupling in DyCrO₃ nanoplatelets
RSC ADVANCES Volume: 5 Issue: 14 Pages: 10094-10101 Published: 2015
86. Bhadram, V.S., Swain, D., Dhanya, R., Polentarutti, M., Sundaresan, A., Narayana, C.
Effect of pressure on octahedral distortions in RCrO₃ (R=Lu, Tb, Gd, Eu, Sm): the role of R-ion size and its implications
MATERIALS RESEARCH EXPRESS Volume: 1 Issue: 2 Article Number: 026111 DOI: 10.1088/2053-1591/1/2/026111 Published: JUN 2014
85. Yan, N.; Zhang, Y. L.; Tang, W. L.; et al.
The effects of Mn doping on the optical properties of chemically deposited BiFeO₃ thin films
THIN SOLID FILMS Volume: 571 Pages: 554-557 Part: 3 Published: NOV 28 2014
84. Mota, D. A.; Almeida, A.; Rodrigues, V. H.; et al.
Dynamic and structural properties of orthorhombic rare-earth manganites under high pressure
PHYSICAL REVIEW B Volume: 90 Issue: 5 Article Number: 054104 Published: AUG 8 2014
83. Romaguera-Barcelay, Y.; Agostinho Moreira, J.; Almeida, A.; et al.
Structural, electrical and magnetic properties of magnetoelectric GdMnO₃ thin films prepared by a sol-gel method
THIN SOLID FILMS 564, pp. 419-425 AUG 1 2014
82. Manna, Kaustuv; Bhadram, Venkata Srinu; Elizabeth, Suja; et al.
Octahedral distortion induced magnetic anomalies in LaMn_{0.5}Co_{0.5}O₃ single crystals
JOURNAL OF APPLIED PHYSICS 116 (4), Art. No. 043903 JUL 28 2014
81. Romero, M.; Gomez, R. W.; Marquina, V.; et al.
Synthesis by molten salt method of the AFeO₃ system (A= La, Gd) and its structural, vibrational and internal hyperfine magnetic field characterization
PHYSICA B-CONDENSED MATTER 443, pp. 90-94 JUN 15 2014

80. Guennou, Mael; Bouvier, Pierre; Toulemonde, Pierre; et al.
Jahn-Teller, Polarity, and Insulator-to-Metal Transition in BiMnO₃ at High Pressure
PHYSICAL REVIEW LETTERS 112 (7), Art. No. 075501 FEB 19 2014
79. Kozlenko, D. P.; Dang, N. T.; Jabarov, S. H.; et al.
Structural polymorphism in multiferroic BiMnO₃ at high pressures and temperatures
JOURNAL OF ALLOYS AND COMPOUNDS 585, pp. 741-747 FEB 5 2014
78. Staruch, M.; Jain, M.
Evidence of antiferromagnetic and ferromagnetic superexchange interactions in bulk TbMn_{1-x}Cr_xO₃
JOURNAL OF PHYSICS-CONDENSED MATTER 26 (4), Art. No. 046005 JAN 29 2014
77. Das, Raja; Poddar, Pankaj
Observation of exchange bias below incommensurate antiferromagnetic (ICAFM) to canted A-type antiferromagnetic (cAAFM) transition in nanocrystalline orthorhombic EuMnO₃
RSC ADVANCES 4 (21), pp. 10614-10618 2014
76. Zhu, L. P.; Deng, H. M.; Sun, L.; et al.
Optical properties of multiferroic LuFeO₃ ceramics
CERAMICS INTERNATIONAL 40 (1), pp. 1171-1175 Part: A JAN 2014
75. Do, D., Kim, J.W., Song, T.K., Kim, S.S.
Effects of transition metal (Ni, Mn, Cu) doping on ferroelectric properties of Bi_{0.9}Nd_{0.1}FeO₃ thin films prepared by chemical solution deposition method
Journal of Electroceramics 30, 55-59 DOI: 10.1007/s10832-012-9715-6 (2013)
74. Chaturvedi, Aditi; Sathe, Vasant
Thickness dependent Raman study of epitaxial LaMnO₃ thin films
THIN SOLID FILMS 548, pp. 75-80 DEC 2 2013
73. Choi, Sun Gyu; Lee, Hong-Sub; Choi, Hyejung; et al.
The effect of Ca substitution on the structural and electrical properties of La_{0.7}Sr_{0.3-x}Ca_xMnO₃ perovskite manganite films
JOURNAL OF PHYSICS D-APPLIED PHYSICS 46 (42), Art. No. 425102 OCT 23 2013
72. Chaturvedi, Aditi; Sathe, V. G.
Raman spectroscopy and X-ray diffraction study of PrMnO₃ oriented thin films deposited on LaAlO₃ and SrTiO₃ substrates
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 344, 230-234, OCT 2013
71. Dang, N. T.; Kozlenko, D. P.; Kichanov, S. E.; et al.
Structural and magnetic phase transitions occurring in Pr_{0.7}Sr_{0.3}MnO₃ manganite at high pressures
JETP LETTERS 97 (9), 540-545, JUL 2013
70. Chou, Ta-Lei; Lee, Jenn-Min; Chen, Shin-An; et al.
Pressure and Temperature Dependence of Local Structure and Electronic Structure of Orthorhombic DyMnO₃
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN 82 (6), 064708, JUN 2013
69. Choi, Sun Gyu; Lee, Hong-Sub; Yeom, Geun Young; et al.
Investigation of the Properties of Ba-Substituted La_{0.7}Sr_{0.3-x}Ba_xMnO₃ Perovskite Manganite Films for Resistive Switching Applications
JOURNAL OF ELECTRONIC MATERIALS 42 (6), 1196-1201, JUN 2013
68. Staruch, M.; Violette, D.; Jain, M.
Structural and magnetic properties of multiferroic bulk TbMnO₃
MATERIALS CHEMISTRY AND PHYSICS 139 (2-3), 897-900, MAY 15 2013
67. Pandey, Pankaj K.; Choudhary, R. J.; Mishra, Dileep K.; et al.
Signature of spin-phonon coupling in Sr₂CoO₄ thin film: A Raman spectroscopic study
APPLIED PHYSICS LETTERS 102 (14), 142401, APR 8 2013
66. Staruch, M.; Lawes, G.; Kumarasiri, A.; et al.
Effects of holmium substitution on multiferroic properties in Tb_{0.67}Ho_{0.33}MnO₃
APPLIED PHYSICS LETTERS 102 (6), 062908, FEB 11 2013
65. Hu, Y., Stender, D., Medarde, M., Lippert, T., Wokaun, A., Schneider, C.W.
Lattice distortion and strain relaxation in epitaxial thin films of multiferroic TbMnO₃ probed by X-ray diffractometry and micro-Raman spectroscopy
Applied Surface Science 278, pp. 92-95, 2013
64. Mota, D.A., Romaguera Barcelay, Y., Tavares, P.B., Chaves, M.R., Almeida, A., Oliveira, J., Ferreira, W.S., Agostinho Moreira, J.
Competing exchanges and spin-phonon coupling in Eu_{1-x}R_xMnO₃ (R=Y, Lu)
Journal of Physics Condensed Matter 25 (23), art. no. 235602, 2013
63. Caviezel, A., Mariager, S.O., Johnson, S.L., Möhr-Vorobeve, E., Huang, S.W., Ingold, G., Staub, U., (...), Beaud, P.
Identification of coherent lattice modulations coupled to charge and orbital order in a manganite
Physical Review B - Condensed Matter and Materials Physics 87 (20), art. no. 205104, 2013

62. Kumar, A., Shahi, P., Kumar, S., Shukla, K.K., Singh, R.K., Ghosh, A.K., Nigam, A.K., Chatterjee, S.
Raman effect and magnetic properties of doped TbMnO₃
Journal of Physics D: Applied Physics 46 (12), art. no. 125001, 2013
61. Thomasson, A., Kreisel, J., Lefèvre, C., Roulland, F., Versini, G., Barre, S., Viart, N.
Raman scattering of magnetoelectric gallium ferrite thin films
Journal of Physics Condensed Matter 25 (4), art. no. 045401, 2013
60. Srinu Bhadram, V., Rajeswaran, B., Sundaresan, A., Narayana, C.
Spin-phonon coupling in multiferroic RCrO₃ (R=Y, Lu, Gd, Eu, Sm): A Raman study
EPL 101 (1), art. no. 17008, 2013
59. Fernández-García, M.P., Agostinho Moreira, J., Pereira, A.M., Oliveira, G.N.P., Azevedo, J., Oliveira, J., Chaves, M.R., Mota, D., Sousa, C.T., Teixeira, J.M., Lopes, A.M.L., Costa, M.M.R., Amaral, J.S., Mendonça, T.M., Khonchenko, V.A., Rodrigues, V.H., Tavares, P.B., Mendes, A., Correia, J.G., Amaral, V.S., Almeida, A., Sousa, J.B., Araújo, J.P.
Synchrotron radiation experiments on multiferroic, magnetocaloric and magnetic nanostructured materials
Ciencia e Tecnologia dos Materiais 24, 128-133 (2012)
58. Do, Dalhyun; Kim, Jin Won; Kim, Sang Su; et al.
Electrical properties in lanthanides substituted (Bi-0.9 A (0.1))(Fe_{0.975}Co_{0.025})O₃-delta (A = La, Eu, Gd) thin films
JOURNAL OF THE KOREAN PHYSICAL SOCIETY 61 (9), 1409-1412, NOV 2012
57. Agostinho Moreira, J., Almeida, A., Chaves, M.R., Kreisel, J., Oliveira, J., Carpinteiro, F., Tavares, P.B.
Magnetically-induced lattice distortions and ferroelectricity in magnetoelectric GdMnO₃
Journal of Physics Condensed Matter 24 (43), art. no. 436002, 2012
56. Kim, J.W., Raghavan, C.M., Kim, H.J., Kim, Y.J., Jang, K.W., Kim, S.S., Lee, Y.I., (...), Shin, D.S.
Electrical properties of Dy, Mn Co-doped BiFeO₃ thin films prepared by using chemical solution deposition
Journal of the Korean Physical Society 61 (6), pp. 903-907, 2012
55. Raghavan, C.M., Kim, J.W., Do, D., Kim, S.S., Kim, M.H., Song, T.K.
Enhancement of ferroelectricity in rare earth and manganese ions Co-doped BiFeO₃ thin films via chemical solution deposition method
Integrated Ferroelectrics 132 (1), pp. 45-52, 2012
54. Do, D., Kim, J.W., Kim, S.S., Kim, W.-J., Lee, M.H., Cho, H.J., Cho, J.H., (...), Kim, M.H.
Reduced leakage current and improved ferroelectric properties of Eu and Mn codoped BiFeO₃ thin films
Journal of the Korean Physical Society 60 (2), pp. 203-206, 2012
53. Lazarević, N., Radonjić, M.M., Tanasković, D., Hu, R., Petrovic, C., Popović, Z.V.
Lattice dynamics of FeSb₂
Journal of Physics Condensed Matter 24 (25), art. no. 255402, 2012.
52. Rovillain, P.; Liu, J.; Cazayous, M.; et al.
Electromagnon and phonon excitations in multiferroic TbMnO₃
PHYSICAL REVIEW B 86 (1) Article Number: 014437, JUL 30 2012.
51. Romaguera-Barcelay Y.; Agostinho Moreira J.; Almeida A.; et al.
Dimensional effects on the structure and magnetic properties of GdMnO₃ thin films
MATERIALS LETTERS 70, 167-170, MAR 1 2012.
50. Hu, L., Sheng, Z., Hu, X., Zhang, R., Wang, B., Song, W., Sun, Y.
Control of the charge/orbital ordering transition in epitaxial La_{7/8}Sr_{1/8}MnO₃ thin films through compressive strain
Journal of Physics D: Applied Physics 45 (17), art. no. 175002, 2012.
49. Oliveira, J., Agostinho Moreira, J., Almeida, A., Rodrigues, V.H., Costa, M.M.R., Tavares, P.B., Bouvier, P., (...), Kreisel, J.
Structural and insulator-to-metal phase transition at 50 GPa in GdMnO₃
Physical Review B - Condensed Matter and Materials Physics 85 (5), art. no. 052101, 2012.
48. Weber, M.C., Kreisel, J., Thomas, P.A., Newton, M., Sardar, K., Walton, R.I.
Phonon Raman scattering of RCrO₃ perovskites (R=Y, La, Pr, Sm, Gd, Dy, Ho, Yb, Lu)
Physical Review B - Condensed Matter and Materials Physics 85 (5), art. no. 054303, 2012.
47. Himcinschi, C., Vrejoiu, I., Weibach, T., Vijayanandhini, K., Talkenberger, A., Rder, C., Bahmann, S., (...), Kortus, J.
Raman spectra and dielectric function of BiCrO₃: Experimental and first-principles studies
Journal of Applied Physics 110 (7), art. no. 073501, 2011.
46. Hien, N.T.M., Oh, S.-Y., Chen, X.-B., Lee, D., Jang, S.-Y., Noh, T.W., Yang, I.-S.
Raman scattering studies of hexagonal rare-earth RMnO₃ (R = Tb, Dy, Ho, Er) thin films
Journal of Raman Spectroscopy 42 (9), 1774-1779, 2011.
45. Do, D., Kim, J.W., Kim, G.H., Bae, Y.R., Kim, E.S., Kim, S.S., Lee, M.H., (...), Song, T.K.
EuMnO₃ effects on structure and electrical properties of chemical solution deposited BiFeO₃ thin films
2011 International Symposium on Applications of Ferroelectrics and 2011 International Symposium on Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, ISAF/PFM 2011 , art. no. 6014145, (2011).

44. Do Dalhyun; Kim Jin Won; Kim Sang Su
Effects of Dy and Mn Codoping on Ferroelectric Properties of BiFeO₃ Thin Films
JOURNAL OF THE AMERICAN CERAMIC SOCIETY 94 (9) Pages: 2792-2795, SEP 2011.
43. Do Dalhyun; Bae Yu Ri; Kim Jin Won; et al.
Multiferroic (Bi_{0.9}Dy_{0.1})(Fe_{0.9}Mn_{0.1})O₃ Thin Film
JOURNAL OF THE KOREAN PHYSICAL SOCIETY 59 (3) Pages: 2462-2465, SEP 2011.
42. Rovillain P.; Cazayous M.; Gallais Y.; et al.
Magnetic Field Induced Dehybridization of the Electromagnons in Multiferroic TbMnO₃
PHYSICAL REVIEW LETTERS 107 (1) Article Number: 027202, JUL 5 2011.
41. Romaguera-Barcelay Y.; Moreira J. Agostinho; Gonzalez-Aguilar G.; et al.
Synthesis of orthorhombic rare-earth manganite thin films by a novel chemical solution route
JOURNAL OF ELECTROCERAMICS 26 (1-4) Pages: 44-55, JUN 2011.
40. Choithrani Renu; Rao Mala N.; Chaplot S. L.; et al.
Structural and phonon dynamical properties of perovskite manganites: (Tb, Dy, Ho)MnO₃
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 323 (12) Pages: 1627-1635, JUN 2011.
39. Kaur Nupinderjeet; Mohan Rajneesh; Gaur N. K.; et al.
Influence of La doping on elastic and thermodynamic properties of SrMoO₃
JOURNAL OF ALLOYS AND COMPOUNDS 509 (20) Pages: 6077-6082, MAY 19 2011.
38. Das Raja; Jaiswal Adhish; Adyanthaya Suguna; et al.
Effect of particle size and annealing on spin and phonon behavior in TbMnO₃
JOURNAL OF APPLIED PHYSICS 109 (6) Article Number: 064309, MAR 15 2011.
37. Antonakos A.; Liarokapis E.; Aydogdu G. H.; et al.
Strain induced phase separation on La_{0.5}Ca_{0.5}MnO₃ thin films
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 323 (5) Pages: 620-630, MAR 2011.
36. Chaix-Pluchery O.; Kreisel J.
Raman scattering of perovskite SmScO₃ and NdScO₃ single crystals
PHASE TRANSITIONS Volume: 84 (5-6) Pages: 542-554 Article Number: PII 934269525, 2011.
35. Chou, T.L., Lee, J.M., Chen, S.A., Ishii, H., Hiraoka, N., Lin, C.M., Chen, T.H., Haw, S.C., Chen, S.W., Lu, K.T., Chen, J.M.
Modifications of MnO₆ Octahedra in DyMnO₃ under High Pressure
Journal of Physics Conference Series Volume: 215 Article Number: 012030 DOI: 10.1088/1742-6596/215/1/012030 Published: 2010
34. Gao, P., Chen, H.Y., Tyson, T.A., Liu, Z.X., Bai, J.M., Wang, L.P., Choi, Y.J., Cheong, S.-W.
Observation of anomalous phonons in orthorhombic rare-earth manganites
APPLIED PHYSICS LETTERS 97 (26) Article Number: 262905, DEC 27 2010.
33. Issing, S., Pimenov, A., Ivanov, Y. Vu., Mukhin, A.A., Geurts, J.
Spin-phonon coupling in multiferroic manganites RMnO₃: comparison of pure (R = Eu, Gd, Tb) and substituted (R = Eu_{1-x}Y_x) compounds
EUROPEAN PHYSICAL JOURNAL B 78 (3) Pages: 367-372, DEC 2010.
32. Guennou, M., Bouvier, P., Krikler, B., Kreisel, J., Haumont, R., Garbarino, G.
High-pressure investigation of CaTiO₃ up to 60 GPa using x-ray diffraction and Raman spectroscopy
PHYSICAL REVIEW B 82 (13) Article Number: 134101, OCT 4 2010.
31. Chaban N.; Weber M.; Pignard S.; et al.
Phonon Raman scattering of perovskite LaNiO₃ thin films
APPLIED PHYSICS LETTERS 97 (3) Article Number: 031915, JUL 19 2010.
30. Chaix-Pluchery O.; Sauer D.; Kreisel J.
Temperature-dependent Raman scattering of DyScO₃ and GdScO₃ single crystals
JOURNAL OF PHYSICS-CONDENSED MATTER 22 (16) Article Number: 165901, APR 28 2010.
29. Lazarevic N.; Popovic Z. V.; Hu Rongwei; et al.
Evidence for electron-phonon interaction in Fe_{1-x}M_xSb₂ (M=Co and Cr; 0 <= x <= 0.5) single crystals
PHYSICAL REVIEW B 81 (14) Article Number: 144302, APR 1 2010.
28. Kumar Pradeep; Saha Surajit; Muthu D. V. S.; et al.
Raman evidence for orbiton-mediated multiphonon scattering in multiferroic TbMnO₃
JOURNAL OF PHYSICS-CONDENSED MATTER 22 (11) Article Number: 115403, MAR 24 2010.
27. Moreira J. Agostinho; Almeida A.; Ferreira W. S.; et al.
Coupling between phonons and magnetic excitations in orthorhombic Eu_{1-x}Y_xMnO₃
PHYSICAL REVIEW B 81(5) Article Number: 054447, FEB 2010.
26. Kumar Pradeep; Saha Surajit; Serrao C. R.; et al.
Temperature-dependent infrared reflectivity studies of multiferroic TbMnO₃: Evidence for spin-phonon coupling
PRAMANA-JOURNAL OF PHYSICS 74 (2) Pages: 281-291, FEB 2010.

25. Issing S.; Pimenov A.; Ivanov V. Yu.; et al.
Composition-dependent spin-phonon coupling in mixed crystals of the multiferroic manganite $\text{Eu}(1-x)\text{Y}(x)\text{MnO}_3$ ($0 \leq x \leq 0.5$) studied by Raman spectroscopy
PHYSICAL REVIEW B 81 (2) Article Number: 024304, JAN 2010.
24. Sopracase Rodolphe; Gruener Gisele; Olive Enrick; et al.
Infrared study of the phonon modes in PrMnO_3 and CaMnO_3
PHYSICA B-CONDENSED MATTER 405 (1) Pages: 45-52, JAN 1 2010.
23. Issing, S., Fuchs, F., Ziereis, C., Batke, E., Pimenov, A., Ivanov, Y.V., Mukhin, A.A., Geurts, J.
Lattice dynamics of $\text{Eu}_{1-x}\text{Y}_x\text{MnO}_3$ ($0 \leq x \leq 0.5$)
European Physical Journal B 73 (3), pp. 353-360 (2010).
22. Rao, M.N., Kaur, N., Chaplot, S.L., Gaur, N.K., Singh, R.K.
Lattice dynamics of orthorhombic perovskite yttrium manganite, YMnO_3
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 21 Issue: 35 Article Number: 355402 DOI: 10.1088/0953-8984/21/35/355402 Published: SEP 2 2009
21. Choithrani, R., Rao, M.N., Chaplot, S.L., Gaur, N.K., Singh, R.K.
Lattice dynamics of manganites RMnO_3 ($\text{R} = \text{Sm}, \text{Eu}$ or Gd): instabilities and coexistence of orthorhombic and hexagonal phases
NEW JOURNAL OF PHYSICS Volume: 11 Article Number: 073041 DOI: 10.1088/1367-2630/11/7/073041 Published: JUL 23 2009
20. Matsuzaki, H., Uemura, H., Matsubara, M., Kimura, T., Tokura, Y., Okamoto, H.
Detecting charge and lattice dynamics in photoinduced charge-order melting in perovskite-type manganites using a 30-femtosecond time resolution
PHYSICAL REVIEW B Volume: 79 Issue: 23 Article Number: 235131 DOI: 10.1103/PhysRevB.79.235131 Published: JUN 2009
19. Antonakos, A., Filippi, M., Auban-Senzier, P., Lampakis, D., Pasquier, C.R., Prellier, W., Liarokapis, E.
Pressure and magnetic field effects on $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ thin films
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume: 246 Issue: 3 Pages: 622-625 DOI: 10.1002/pssb.200880539 Published: MAR 2009
18. Antonakos, A., Filippi, M., Aydogdu, G.H., Prellier, W., Habermeier, H.-U., Liarokapis, E.
Tuning of the charge ordered state in the manganite thin films by internal or external strains
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume: 246 Issue: 3 Pages: 635-642 DOI: 10.1002/pssb.200880545 Published: MAR 2009
17. Chaix-Pluchery, O., Kreisel, J.
Raman scattering of perovskite DyScO_3 and GdScO_3 single crystals
Journal of Physics Condensed Matter 21 (17), art. no. 175901 (2009).
16. Sathe, V.G., Rawat, R., Dubey, A., Narlikar, A.V., Prabhakaran, D.
Photo-induced insulator-metal transition probed by Raman spectroscopy
Journal of Physics Condensed Matter 21 (7), art. no. 075603 (2009).
15. Antonakos, A., Lampakis, D., Liarokapis, E., Filippi, M., Prellier, W., Aydogdu, GH, Habermeier, HU
Phase separation in manganite thin films
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 20 Issue: 43 Article Number: 434232 DOI: 10.1088/0953-8984/20/43/434232 Published: OCT 29 2008
14. Lampakis, D., Antonakos, A., Liarokapis, E., Filippi, M., Prellier, W., Auban-Senzier, P., Pasquier, C.
Pressure effects on the phase separation of $\text{Pr}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$ thin films
Journal of Physics Condensed Matter 20 (48), art. no. 485202 (2008).
13. Dubey, A., Sathe, V.G., Rawat, R.
Signature of Jahn-Teller distortion and oxygen stoichiometry in Raman spectra of epitaxial $\text{LaMnO}_{3+\delta}$ thin films
Journal of Applied Physics 104 (11), art. no. 113530 (2008).
12. Andreasson, J., Holmlund, J., Rauer, R., Käll, M., Börjesson, L., Knee, C.S., Eriksson, A.K., (...), Chaudhury, R.P.
Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution
Physical Review B - Condensed Matter and Materials Physics 78 (23), art. no. 235103 (2008).
11. Choithrani, R., Gaur, N.K., Singh, R.K.
Thermodynamic properties of SmMnO_3 , $\text{Sm}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ and $\text{Ca}_{0.85}\text{Sm}_{0.15}\text{MnO}_3$
Journal of Physics Condensed Matter 20 (41), art. no. 415201 (2008).
10. Barath, H., Kim, M., Cooper, S.L., Abbamonte, P., Fradkin, E., Mahns, I., Rübhausen, M., (...), Argyriou, D.N.
Domain fluctuations near the field-induced incommensurate-commensurate phase transition of TbMnO_3
Physical Review B - Condensed Matter and Materials Physics 78 (13), art. no. 134407 (2008).
9. Antonakos, A., Palles, D., Liarokapis, E., Filippi, M., Prellier, W.
Evaluation of the strains in charge-ordered $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ thin films using Raman spectroscopy
Journal of Applied Physics 104 (6), art. no. 063508 (2008).

8. Choithrani, R., Gaur, N.K., Singh, R.K.
Specific heat and transport properties of $\text{La}_{1-x}\text{Gd}_x\text{MnO}_3$ at $15 \text{ K} \leq T \leq 300 \text{ K}$
Solid State Communications 147 (3-4), pp. 103-106 (2008).
 7. Choithrani, R., Gaur, N.K.
Heat capacity of EuMnO_3 and $\text{Eu}_{0.7}\text{A}_{0.3}\text{MnO}_3$ (A=Ca, Sr) compounds
Journal of Magnetism and Magnetic Materials 320 (5), pp. 612-616 (2008).
 6. Truong, K.D., Laverdière, J., Singh, M.P., Jandl, S., Fournier, P.
Impact of Co/Mn cation ordering on phonon anomalies in $\text{La}(\text{2})\text{CoMnO}(\text{6})$ double perovskites: Raman spectroscopy
PHYSICAL REVIEW B Volume: 76 Issue: 13 Article Number: 132413 DOI: 10.1103/PhysRevB.76.132413 Published: OCT 2007
 5. Dubey, A., Sathe, V.G.
The effect of magnetic order and thickness in the Raman spectra of oriented thin films of LaMnO_3
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 19 Issue: 34 Article Number: 346232 DOI: 10.1088/0953-8984/19/34/346232 Published: AUG 29 2007
 4. Gupta, R.K., Whang, C.M.
Structural study of a sol-gel derived novel solid oxide fuel cell perovskite: $(\text{La}_{1-x}\text{Sr}_x)(\text{Cr}_{0.85}\text{Fe}_{0.05}\text{Co}_{0.05}\text{Ni}_{0.05})\text{O}_{3-\delta}$
Journal of Physics Condensed Matter 19 (19), art. no. 196209 (2007).
 3. Wesselinowa JM, St Kovachev
Magnetic ordering effects in the phonon spectra of orthorhombic RMnO_3 compounds
JOURNAL OF PHYSICS-CONDENSED MATTER 19 (17), 176211 (2007).
 2. Rini EG, Rao MN, Chaplot SL, et al.
Phonon dynamics of lanthanum manganite LaMnO_3 using an interatomic shell model potential
PHYSICAL REVIEW B 75 (21), 214301 (2007).
 1. Han JT, Huang YH, Huang W, et al.
Selective synthesis of TbMn_2O_5 nanorods and TbMnO_3 micron crystals
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 128 (45): 14454-14455 NOV 15 2006
55. “*Gold catalysts supported on ceria and ceria-alumina for water-gas shift reaction*”
Andreeva, D., Ivanov, I., Ilieva, L., Abrashev, M.V.
Applied Catalysis A: General 302 (1), pp. 127-132 (2006).
71. Ceria-Based Catalysts for Selective Hydrogenation Reactions: A Critical Review
Razmgar, Kourosh; Altarawneh, Mohammednoor; Oluwoye, Ibukun; et al.
CATALYSIS SURVEYS FROM ASIA Volume: 25 Issue: 1 Pages: 27-47 Published: MAR 2021
 70. Divergent influence of {111} vs. {100} crystal planes and Yb^{3+} dopant on CO oxidation paths in mixed nano-sized oxide $\text{Au/Ce}_{1-x}\text{Yb}_x\text{O}_{2-x/2}$ ($x=0$ or 0.1) systems
Wozniak, Piotr; Kraszkiewicz, Piotr; Malecka, Malgorzata A.
CRYSTENGCOMM Volume: 22 Issue: 35 Pages: 5828-5840 Published: SEP 21 2020
 69. Recent Advances in Design of Gold-Based Catalysts for H-2 Clean-Up Reactions
Tabakova, Tatyana
FRONTIERS IN CHEMISTRY Volume: 7 Article Number: 517 Published: AUG 7 2019
 68. Recent Advances in the Gold-Catalysed Low-Temperature Water-Gas Shift Reaction
Carter, James H.; Hutchings, Graham J.
CATALYSTS Volume: 8 Issue: 12 Article Number: 627 Published: DEC 2018
 67. Gonzalez-Castano, M.; Ivanova, S.; Ioannides, T.; et al.
Deep insight into Zr/Fe combination for successful $\text{Pt/CeO}_2/\text{Al}_2\text{O}_3$ WGS catalyst doping
CATALYSIS SCIENCE & TECHNOLOGY Volume: 7 Issue: 7 Pages: 1556-1564 Published: APR 7 2017
 66. Magadzu, T.; Scurrell, M. S.
Stability of gold particles in NaY-type zeolites: Promotional effects of co-exchanged metal cations
MICROPOROUS AND MESOPOROUS MATERIALS Volume: 241 Pages: 52-57 Published: MAR 15 2017
 65. Menegazzo, Federica; Signoretto, Michela; Ghedini, Elena; et al.
Effects of zirconia precursor on gold based samples for low temperature WGS
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY Volume: 6 Issue: 6 Pages: 1828-1832 Published: DEC 15 2016
 64. Gurram, Venkata Ramesh Babu; Enumula, Siva Sankar; Mutyala, Suresh; et al.
The advantage of ceria loading over $\text{V}_2\text{O}_5/\text{Al}_2\text{O}_3$ catalyst for vapor phase oxidative dehydrogenation of ethylbenzene to styrene using CO_2 as a soft oxidant
APPLIED PETROCHEMICAL RESEARCH Volume: 6 Issue: 4 Pages: 427-437 Published: DEC 2016
 63. Gomes, S.R., Bion, N., Duprez, D., Epron, F.
Hydrogen production from hydrocarbons over Rh supported on Ce-based oxides for automotive applications

APPLIED CATALYSIS B-ENVIRONMENTAL Volume: 197 Special Issue: SI Pages: 138-145 DOI: 10.1016/j.apcatb.2016.01.022
Published: NOV 15 2016

62. Villa, A., Dimitratos, N., Chan-Thaw, C.E., Hammond, C., Veith, G.M., Wang, D., Manzoli, M., Prati, L., Hutchings, G.J.
Characterisation of gold catalysts

CHEMICAL SOCIETY REVIEWS Volume: 45 Issue: 18 Pages: 4953-4994 DOI: 10.1039/c5cs00350d Published: SEP 21 2016

61. Montini, T., Melchionna, M., Monai, M., Fornasiero, P.

Fundamentals and Catalytic Applications of CeO₂-Based Materials

CHEMICAL REVIEWS Volume: 116 Issue: 10 Pages: 5987-6041 DOI: 10.1021/acs.chemrev.5b00603 Published: MAY 25 2016

60. Pérez, P., Soria, M.A., Carabineiro, S.A.C., Maldonado-Hódar, F.J., Mendes, A., Madeira, L.M.

Application of Au/TiO₂ catalysts in the low-temperature water-gas shift reaction

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 41 Issue: 8 Pages: 4670-4681 DOI: 10.1016/j.ijhydene.2016.01.037
Published: MAR 2 2016

59. Reddy, G.K., Smirniotis, P.G.

Water Gas Shift Reaction: Research Developments and Applications

Water Gas Shift Reaction: Research Developments and Applications 1-261 (2015)

58. Ma, Z (Ma, Zhen); Tao, F (Tao, Franklin (Feng)); Gu, XL (Gu, Xiaoli)

DEVELOPMENT OF NEW GOLD CATALYSTS FOR REMOVING CO FROM H₂

HETEROGENEOUS CATALYSIS AT NANOSCALE FOR ENERGY APPLICATIONS Pages: 217-238 Published: 2015

57. Zhou, Zhiwei; Dai, Songshan; Qin, Juan; et al.

Preparation of nano-Ni/meso-Ce-TiO₂ by one-step in a sol-gel system and its catalytic performance for hydrogenolysis of xylitol

RSC ADVANCES Volume: 5 Issue: 86 Pages: 70410-70416 Published: 2015

56. Li, Changshun; Sun, Yufeng; Zhang, Aimin

Binary Ce-Mn oxides confined in carbon nanotubes as efficient catalysts for ethylbenzene dehydrogenation in the presence of carbon dioxide

RSC ADVANCES Volume: 5 Issue: 46 Pages: 36394-36403 Published: 2015

55. Correia Carabineiro, S.A.

Synthesis and applications of gold nanoparticles

Advances in Nanotechnology 12, 95-122 (2014)

54. Raju, G., Reddy, B.M., Park, S.-E.

CO₂ promoted oxidative dehydrogenation of n-butane over VO_x/MO₂ZrO₂ (M = Ce or Ti) catalysts

JOURNAL OF CO₂ UTILIZATION Volume: 5 Pages: 41-46 DOI: 10.1016/j.jcou.2013.12.003 Published: MAR 2014

53. Kustov, Leonid M.; Tarasov, Andrei L.

Hydrogenation of carbon dioxide: a comparison of different types of active catalysts

MENDELEEV COMMUNICATIONS Volume: 24 Issue: 6 Pages: 349-350 Published: NOV-DEC 2014

52. Ang, M. L.; Oemar, U.; Saw, E. T.; et al.

Highly Active Ni/xNa/CeO₂ Catalyst for the Water Gas Shift Reaction: Effect of Sodium on Methane Suppression

ACS CATALYSIS 4 (9), pp. 3237-3248 SEP 2014

51. Gonzalez Castano, M.; Reina, T. R.; Ivanova, S.; et al.

Pt vs. Au in water-gas shift reaction

JOURNAL OF CATALYSIS 314, pp. 1-9 MAY 2014

50. Ramirez Reina, Tomas; Ivanova, Svetlana; Jose Delgado, Juan; et al.

Viability of Au/CeO₂-ZnO/Al₂O₃ Catalysts for Pure Hydrogen Production by the Water-Gas Shift Reaction

CHEMCATCHER 6 (5), pp. 1401-1409 MAY 2014

49. Soria, M. A.; Perez, P.; Carabineiro, S. A. C.; et al.

Effect of the preparation method on the catalytic activity and stability of Au/Fe₂O₃ catalysts in the low-temperature water-gas shift reaction

APPLIED CATALYSIS A-GENERAL 470, pp. 45-55 JAN 30 2014

48. Marin, Raimon P.; Kondrat, Simon A.; Davies, Thomas E.; et al.

Novel cobalt zinc oxide Fischer-Tropsch catalysts synthesised using supercritical anti-solvent precipitation

CATALYSIS SCIENCE & TECHNOLOGY 4 (7), pp. 1970-1978 2014

47. Li, Yong; Shen, Wenjie

Morphology-dependent nanocatalysts: Rod-shaped oxides

CHEMICAL SOCIETY REVIEWS 43 (5), pp. 1543-1574 2014

46. Deshpande, P.A., Madras, G.

Catalytic Synthesis of CO Free Hydrogen

New and Future Developments in Catalysis 223-252 DOI: 10.1016/B978-0-444-53882-6.00009-7 (2013)

45. Carabineiro, S.A.C.

Synthesis and applications of gold nanoparticles

44. Signoretto, Michela; Menegazzo, Federica; Trevisan, Valentina; et al.
Investigation on the Stability of Supported Gold Nanoparticles
CATALYSTS 3 (3), pp. 656-670 SEP 2013
43. Gnanakumar, Edwin S.; John, Jino C.; Raja, Thirumalaiswamy; et al.
Functional and Disordered Meso-Macroporous gamma-Al₂-xMxO₃ +/- y (M = Cu and/or Ce)
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 13 (4) SI, 2682-2688, APR 2013
42. Liu, Z., Tan, X., Lv, C.
Sucrose-assisted synthesis of three-dimensionally ordered macroporous CeO₂ and its use as a support for promotional catalytic performance of CO oxidation
Applied Surface Science 283, pp. 290-296, 2013
41. Tao, F., Ma, Z.
Water-gas shift on gold catalysts: Catalyst systems and fundamental studies
Physical Chemistry Chemical Physics 15 (37), pp. 15260-15270, 2013
40. Wang, N., Shen, K., Huang, L., Yu, X., Qian, W., Chu, W.
Facile route for synthesizing ordered mesoporous Ni-Ce-Al oxide materials and their catalytic performance for methane dry reforming to hydrogen and syngas
ACS Catalysis 3 (7), pp. 1638-1651, 2013
39. Mandal, S., Santra, C., Bando, K.K., James, O.O., Maity, S., Mehta, D., Chowdhury, B.
Aerobic oxidation of benzyl alcohol over mesoporous Mn-doped ceria supported Au nanoparticle catalyst
Journal of Molecular Catalysis A: Chemical 378, pp. 47-56, 2013
38. Ta, N., Liu, J., Shen, W.
Tuning the shape of ceria nanomaterials for catalytic applications
Cuihua Xuebao/Chinese Journal of Catalysis 34 (5), pp. 838-850, 2013
37. Reina, T.R., Xu, W., Ivanova, S., Centeno, M.Á., Hanson, J., Rodriguez, J.A., Odriozola, J.A.
In situ characterization of iron-promoted ceria-alumina gold catalysts during the water-gas shift reaction
Catalysis Today 205, pp. 41-48, 2013
36. Reina, T.R., Ivanova, S., Idakiev, V., Delgado, J.J., Ivanov, I., Tabakova, T., Centeno, M.A., Odriozola, J.A.
Impact of Ce-Fe synergism on the catalytic behaviour of Au/CeO₂-FeOx/Al₂O₃ for pure H₂ production
Catalysis Science and Technology 3 (3), pp. 779-787, 2013
35. Mandal, S., Bando, K.K., Santra, C., Maity, S., James, O.O., Mehta, D., Chowdhury, B.
Sm-CeO₂ supported gold nanoparticle catalyst for benzyl alcohol oxidation using molecular O₂
Applied Catalysis A: General 452, pp. 94-104, 2013
34. Yazid, H., Adnan, R., Farrukh, M.A.
Gold nanoparticles supported on titania for the reduction of p-nitrophenol
Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry 52 (2), pp. 184-191, 2013
33. Hutchings, G.J., Edwards, J.K.
Application of gold nanoparticles in catalysis
Frontiers of Nanoscience 3 (1), pp. 249-293, 2012
32. Fonseca, J., Royer, S., Bion, N., Pirault-Roy, L., Rangel, M.C., Duprez, D., Epron, F.
Preferential CO oxidation over nanosized gold catalysts supported on ceria and amorphous ceria-alumina
Applied Catalysis B: Environmental 128, pp. 10-20, 2012
31. Reddy, E.L., Prabhakarn, A., Karuppiyah, J., Rameshbabu, N., Subrahmanyam, C.H.
Gold supported calcium deficient hydroxyapatite for room temperature co oxidation
International Journal of Nanoscience 11 (3), art. no. 1240004, 2012.
30. Alhumaimess, M., Lin, Z., Weng, W., Dimitratos, N., Dummer, N.F., Taylor, S.H., Bartley, J.K., (...), Hutchings, G.J.
Oxidation of benzyl alcohol by using gold nanoparticles supported on ceria foam
ChemSusChem 5 (1), pp. 125-131, 2012.
29. Xu, J., Xue, B., Liu, Y.-M., Li, Y.-X., Cao, Y., Fan, K.-N.
Mesoporous Ni-doped ceria as an efficient catalyst for styrene synthesis by oxidative dehydrogenation of ethylbenzene
Applied Catalysis A: General 405 (1-2), pp. 142-148, 2011.
28. Kugai Junichiro; Miller Jeffrey T.; Guo Neng; et al.
Role of metal components in Pd-Cu bimetallic catalysts supported on CeO₂ for the oxygen-enhanced water gas shift
APPLIED CATALYSIS B-ENVIRONMENTAL 105 (3-4) Pages: 306-316, JUN 22 2011.
27. Ousmane M.; Liotta L. F.; Di Carlo G.; et al.
Supported Au catalysts for low-temperature abatement of propene and toluene, as model VOCs: Support effect
APPLIED CATALYSIS B-ENVIRONMENTAL 101 (3-4) Pages: 629-637, JAN 14 2011.

26. Sun Y.; Hla S. S.; Duffy G. J.; et al.
High temperature water-gas shift Cu catalysts supported on Ce-Al containing materials for the production of hydrogen using simulated coal-derived syngas
CATALYSIS COMMUNICATIONS 12 (4) Pages: 304-309, DEC 15 2010.
25. Ma Zhen; Yin Hongfeng; Dai Sheng
Performance of Au/M(x)O(y)/TiO(2) Catalysts in Water-Gas Shift Reaction
CATALYSIS LETTERS 136 (1-2) Pages: 83-91, MAY 2010.
24. Ma, Z., Yin, H., Dai, S.
Performance of Au/M x Oy/TiO2 Catalysts in water-gas shift reaction
Catalysis Letters 136 (1-2), pp. 83-91 (2010).
23. Yu, Q.-Q., Dong, Y.-Y., Liao, W.-P., Jin, M.-S., He, T., Suo, Z.-H.
Preparation of ceria-alumina and catalytic activity of gold catalyst supported on ceria-alumina for water gas shift reaction
Ranliao Huaxue Xuebao/Journal of Fuel Chemistry and Technology 38 (2), pp. 223-229 (2010).
22. González, I.D., Navarro, R.M., Wen, W., Marinkovic, N., Rodríguez, J.A., Rosa, F., Fierro, J.L.G.
A comparative study of the water gas shift reaction over platinum catalysts supported on CeO₂, TiO₂ and Ce-modified TiO₂
Catalysis Today 149 (3-4), pp. 372-379 (2010).
21. Carmen Blanco Ortiz, M.D.
Catalysis
Modern Supramolecular Gold Chemistry: Gold-Metal Interactions and Applications 429-490 DOI: 10.1002/9783527623778.ch8 (2009)
20. Xu, J., Wang, L.-C., Liu, Y.-M., Cao, Y., He, H.-Y., Fan, K.-N.
Mesostructured CeO₂ as an effective catalyst for styrene synthesis by oxidative dehydrogenation of ethylbenzene
Catalysis Letters 133 (3-4), pp. 307-313 (2009).
19. Miedziak, P.J., Tang, Z., Davies, T.E., Enache, D.I., Bartley, J.K., Carley, A.F., Herzing, A.A., (...), Hutchings, G.J.
Ceria prepared using supercritical antisolvent precipitation: A green support for gold-palladium nanoparticles for the selective catalytic oxidation of alcohols
Journal of Materials Chemistry 19 (45), pp. 8619-8627 (2009).
18. Yen, C.-W., Lin, M.-L., Wang, A., Chen, S.-A., Chen, J.-M., Mou, C.-Y.
CO oxidation catalyzed by Au-Ag bimetallic nanoparticles supported in mesoporous silica
Journal of Physical Chemistry C 113 (41), pp. 17831-17839 (2009).
17. She, Y., Zheng, Q., Li, L., Zhan, Y., Chen, C., Zheng, Y., Lin, X.
Rare earth oxide modified CuO/CeO₂ catalysts for the water-gas shift reaction
International Journal of Hydrogen Energy 34 (21), pp. 8929-8936 (2009).
16. Zane, F., Trevisan, V., Pinna, F., Signoretto, M., Menegazzo, F.
Investigation on gold dispersion of Au/ZrO₂ catalysts and activity in the low-temperature WGS reaction
Applied Catalysis B: Environmental 89 (1-2), pp. 303-308 (2009).
15. Yang, S., Zhan, Y., Chen, C., Cao, Y., Lin, X., Zheng, Q.
Effect of rare earth oxide on the catalytic performance of Au/CeO₂ catalyst for water-gas shift reaction
Cuihua Xuebao / Chinese Journal of Catalysis 30 (7), pp. 666-672 (2009).
14. Chen, Y.-C., Chen, K.-B., Lee, C.-S., Lin, M.C.
Direct synthesis of Zr-doped ceria nanotubes
Journal of Physical Chemistry C 113 (13), pp. 5031-5034 (2009).
13. Skála, T., Šutara, F., Prince, K.C., Matolín, V.
Cerium oxide stoichiometry alteration via Sn deposition: Influence of temperature
Journal of Electron Spectroscopy and Related Phenomena 169 (1), pp. 20-25 (2009).
12. Menegazzo, F., Pinna, F., Signoretto, M., Trevisan, V., Boccuzzi, F., Chiorino, A., Manzoli, M.
Highly dispersed gold on zirconia: Characterization and activity in low-temperature water gas shift tests
CHEMSUSCHEM Volume: 1 Issue: 4 Pages: 320-326 DOI: 10.1002/cssc.200700152 Published: 2008
11. Romero-Sarria, F., Penkova, A., Martinez T., L.M., Centeno, M.A., Hadjiivanov, K., Odriozola, J.A.
Role of water in the CO oxidation reaction on Au/CeO₂: Modification of the surface properties
Applied Catalysis B: Environmental 84 (1-2), pp. 119-124 (2008).
10. Skála, T., Šutara, F., Cabala, M., Škoda, M., Prince, K.C., Matolín, V.
A photoemission study of the interaction of Ga with CeO₂(1 1 1) thin films
Applied Surface Science 254 (21), pp. 6860-6864 (2008).
9. Bali, S., Turpin, G.C., Ernst, R.D., Pugmire, R.J., Singh, V., Seehra, M.S., Eyring, E.M.
Water gas shift catalysis using iron aerogels doped with palladium by the gas-phase incorporation method
Energy and Fuels 22 (3), pp. 1439-1443 (2008).
8. Jacobs, G., Davis, B.H.
Low temperature water-gas shift catalysts

7. Reddy BM, Rao KN, Reddy GK, et al.
Structural characterization and oxidehydrogenation activity of CeO₂/Al₂O₃ and V₂O₅/CeO₂/Al₂O₃ catalysts
JOURNAL OF PHYSICAL CHEMISTRY C 111 (50), pp. 18751-18758 (2007).
 6. Li, L., Zhan, Y., Zheng, Q., Zheng, Y., Lin, X., Li, D., Zhu, J.
Water-gas shift reaction over aluminum promoted Cu/CeO₂ nanocatalysts characterized by XRD, BET, TPR and cyclic voltammetry (CV)
Catalysis Letters 118 (1-2), pp. 91-97 (2007)
 5. Tang, Z.-R., Edwards, J.K., Bartley, J.K., Taylor, S.H., Carley, A.F., Herzing, A.A., Kiely, C.J., Hutchings, G.J.
Nanocrystalline cerium oxide produced by supercritical antisolvent precipitation as a support for high-activity gold catalysts
Journal of Catalysis 249 (2), pp. 208-219 (2007)
 4. Hammer, N., Kvande, I., Chen, D., Rønning, M.
Au-TiO₂ catalysts stabilised by carbon nanofibres
Catalysis Today 122 (3-4), pp. 365-369 (2007)
 3. Shapovalov, V., Metiu, H.
Catalysis by doped oxides: CO oxidation by AuxCe_{1-x}O₂
Journal of Catalysis 245 (1), pp. 205-214 (2007)
 2. Cortie, M., Laguna, A., Thompson, D.
Gold 2006. Highlights of 4th International Conference on the Science, Technology and Industrial Applications of Gold: Limerick, Ireland 3-6 September (2006).
Gold Bulletin 39 (4), pp. 226-235 (2006).
 1. Hashmi, A.S.K., Hutchings, G.J.
Gold Catalysis
Angewandte Chemie - International Edition 45 (47), pp. 7896-7936 (2006)
56. *"Raman and infrared studies of La_{1-y}Sr_yMn_{1-x}MxO₃ (M=Cr, Co, Cu, Zn, Sc or Ga): Oxygen disorder and local vibrational modes"*
A. Dubroka, J. Humlíček, M. V. Abrashev, Z. V. Popovic, F. Sapiña, and A. Cantarero
Phys. Rev. B 73, 224401 (2006).
37. Enhancement of intrinsic magnetoresistance in Zn doped La_{0.9}Sr_{0.1}MnO₃ epitaxial films
Yin, Lu; Wang, Chuanbin; Shen, Qiang
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 859 Article Number: 157817 Published: APR 5 2021
 36. Influence of calcination on the structural properties of earth abundant Cu₂ZnSnS₄
Ahmadi, Souha; Khemiri, Naoufel; Cantarero, Andres; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 852 Article Number: 156714 Published: JAN 25 2021
 35. Short-Range Order in VI₃
Mijin, Sanja Djurdjic; Abeykoon, A. M. Milinda; Solajic, Andrijana; et al.
INORGANIC CHEMISTRY Volume: 59 Issue: 22 Pages: 16265-16271 Published: NOV 16 2020
 34. PI-MOCVD technology of (La, Sr)(Mn, Co)O-3: From epitaxial to nanostructured films
Vagner, Milita; Plausinaitiene, Valentina; Lukose, Rasuole; et al.
SURFACE & COATINGS TECHNOLOGY Volume: 385 Article Number: 125287 Published: MAR 15 2020
 33. Strain-dependent structure and Raman behaviours in the heavy-ion irradiated manganite at extreme low dose
Nam Nhat Hoang; Duc Huyen Yen Pham; The Nghia Nguyen
SCIENTIFIC REPORTS Volume: 9 Article Number: 19204 Published: DEC 16 2019
 32. In Situ Method Correlating Raman Vibrational Characteristics to Chemical Expansion via Oxygen Nonstoichiometry of Perovskite Thin Films
Sediva, Eva; Defferriere, Thomas; Perry, Nicola H.; et al.
ADVANCED MATERIALS Volume: 31 Issue: 33 Article Number: 1902493 Published: AUG 2019
 31. Self-doped La_{1-x}MnO₃+delta perovskites: Electron state hybridization and Raman modes
Ulyanov, A. N.; Sidorov, A., V; Pismenova, N. E.; et al.
SOLID STATE SCIENCES Volume: 94 Pages: 41-44 Published: AUG 2019
 30. Temperature Dependent Raman Spectroscopic Study of the Fe Doped La_{0.67}Sr_{0.33}MnO₃ Prepared Using Ball Milling Method
Astik, Nidhi; Jha, Prafulla K.; Sathe, Vasant
PHYSICS OF THE SOLID STATE Volume: 61 Issue: 4 Pages: 618-626 Published: APR 2019
 29. Phenomenological description of doped manganites. Electron bandwidth, crystal local structure and Curie temperature
Ulyanov, A. N.; Vasiliev, A. V.; Eremina, E. A.; et al.
CERAMICS INTERNATIONAL Volume: 44 Issue: 18 Pages: 22297-22300 Published: DEC 15 2018

28. LaFeO₃ thin films as relevant models for the surface investigation of 3-way catalysts
Nandi, Shreya; Blanck, Dimitri; Carlier, Thomas; et al.
SURFACE AND INTERFACE ANALYSIS Volume: 50 Issue: 11 Pages: 1018-1024 Published: NOV 2018
27. Influence of Fe substitution on structure and Raman spectra of La_{0.67}Sr_{0.33}MnO₃: Experimental and density functional studies
Astik, Nidhi M.; Soni, Himadri; Jha, Prafulla K.; et al.
PHYSICA B-CONDENSED MATTER Volume: 541 Pages: 103-110 Published: JUL 15 2018
26. H₂S sensing characteristics of Ni-doped CaCu₃Ti₄O₁₂ films synthesized by a sol-gel method
Boontum, Arisara; Phokharatkul, Ditsayut; Hodak, Jose H.; et al.
SENSORS AND ACTUATORS B-CHEMICAL Volume: 260 Pages: 877-887 Published: MAY 1 2018
25. Boontum, A., Phokharatkul, D., Hodak, J.H., Wisitsoraat, A., Hodak, S.K.
H₂S sensing characteristics of Ni-doped CaCu₃Ti₄O₁₂ films synthesized by a sol-gel method
Sensors and Actuators, B: Chemical 260, pp. 877-887, 2018
24. Oumezzine, Marwene; Hassayoun, Oumayma; Bellouz, Ridha; et al.
On the role of disorder produced by manganese vacancy at the B site on the structural and magnetic properties of La_{0.67}Ba_{0.33}Mn_{1-x}O₃ nanocrystalline
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 729 Pages: 156-161 Published: DEC 30 2017
23. Ulyanov, A. N.; Savilov, S. V.; Sidorov, A. V.; et al.
Electron structure, Raman "vacancy" modes and Griffiths-like phase of self-doped Pr_{1-x}MnO₃+delta manganites
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 722 Pages: 77-82 Published: OCT 25 2017
22. Turki, D.; Ghouri, Zafar Khan; Al-Meer, Saeed; et al.
Synthesis and Physicochemical Studies of Perovskite Manganite La_(0.8)Ca_(0.2)Nn_(1-x)Co_(x)O₃ (0 ≤ x ≤ 0.3)
JOURNAL OF MAGNETICS Volume: 22 Issue: 3 Pages: 353-359 Published: SEP 2017
21. Blanck, Dimitri; Schon, Anke; Mamede, Anne-Sophie; et al.
In situ Raman spectroscopy evidence of an accessible phase potentially involved in the enhanced activity of La -deficient lanthanum orthoferrite in 3-way catalysis (TWC)
CATALYSIS TODAY Volume: 283 Pages: 151-157 Published: APR 1 2017
20. Zhang, J.Z., Jiang, K., Hu, Z.G., Chu, J.H.
A novel technique for probing phase transitions in ferroelectric functional materials: Condensed matter spectroscopy
SCIENCE CHINA-TECHNOLOGICAL SCIENCES Volume: 59 Issue: 10 Pages: 1537-1548 DOI: 10.1007/s11431-015-0999-6
Published: OCT 2016
19. Jiang, K., Zhang, P., Zhang, J., Xu, G., Li, W., Hu, Z., Chu, J.
Relationship between negative thermal expansion and lattice dynamics in a tetragonal PbTiO₃-Bi(Mg_{1/2}Ti_{1/2})O₃ perovskite single crystal
RSC ADVANCES Volume: 6 Issue: 4 Pages: 3159-3164 DOI: 10.1039/c5ra24408k Published: 2016
18. Kotnana, G (Kotnana, Ganesh); Jammalamadaka, SN (Jammalamadaka, S. Narayana)
Band gap tuning and orbital mediated electron-phonon coupling in HoFe_{1-x}Cr_xO₃ (0 ≤ x ≤ 1)
JOURNAL OF APPLIED PHYSICS Volume: 118 Issue: 12 Article Number: 124101 DOI: 10.1063/1.4931155 Published: SEP 28 2015
17. Zhang, Jinzhong; Tong, Wen-Yi; Zhu, Jiajun; et al.
Temperature-dependent lattice dynamics and electronic transitions in 0.93Pb(Zn_{1/3}Nb_{2/3})O₃-0.07PbTiO₃ single crystals: Experiment and theory
PHYSICAL REVIEW B Volume: 91 Issue: 8 Article Number: 085201 Published: FEB 4 2015
16. Duan, Z. H.; Chang, P.; Hu, Z. G.; et al.
Temperature dependent Raman scattering and far-infrared reflectance spectra of MgO modified Pb-0.99(Zr_{0.95}Ti_{0.05})(0.98)Nb_{0.02}O₃ ceramics: A composition effect
JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 9 Article Number: 093513 Published: SEP 7 2014
15. Graziosi, P.; Gambardella, A.; Prezioso, M.; et al.
Polaron framework to account for transport properties in metallic epitaxial manganite films
PHYSICAL REVIEW B 89 (21), Art. No. 214411 JUN 12 2014
14. Phong, P.T., Jang, S.J., Huy, B.T., Lee, Y.-I., Lee, I.-J.
Structural, magnetic, infrared and Raman studies of La_{0.8}Sr_xCa_{0.2-x}MnO₃ (0 ≤ x ≤ 0.2)
Journal of Materials Science: Materials in Electronics 24(7), 2292-2301 DOI: 10.1007/s10854-013-1092-7 (2013)
13. Dodiya, Neha; Varshney, Dinesh
Structural properties and Raman spectroscopy of rhombohedral La_{1-x}NaxMnO₃ (0.075 ≤ x ≤ 0.15)
JOURNAL OF MOLECULAR STRUCTURE 1031, 104-109, JAN 16 2013
12. Islam, M.A., Rondinelli, J.M., Spanier, J.E.
Normal mode determination of perovskite crystal structures with octahedral rotations: Theory and applications
Journal of Physics Condensed Matter 25 (17), art. no. 175902, 2013
11. Craus, M.-L., Anitas, E., Cornei, N., Islamov, A., Garamus, V.
Magnetic structure of La_{0.54}Ho_{0.11}Sr_{0.35}Mn_{1-x}Cu_xO₃ manganites

10. Eremina, R. M.; Sharipov, K. R.; Mingalieva, L. V.; et al.
Properties of $\text{La}_{1-x}\text{Sr}_x\text{Mn}_{0.925}\text{Zn}_{0.075}\text{O}_3$ ($x=0.075, 0.095, 0.115$) ceramics
PHYSICS OF THE SOLID STATE 54 (6) Pages: 1160-1165, JUN 2012.

9. Weber, M.C., Kreisel, J., Thomas, P.A., Newton, M., Sardar, K., Walton, R.I.
Phonon Raman scattering in RCrO_3 perovskites ($R=Y, \text{La}, \text{Pr}, \text{Sm}, \text{Gd}, \text{Dy}, \text{Ho}, \text{Yb}, \text{Lu}$)
Physical Review B - Condensed Matter and Materials Physics 85 (5) , art. no. 054303, 2012.

8. Mir Feroz Ahmad; Ikram M.; Kumar Ravi
Local symmetry breaking in PrFeO_3 thin films and other similar systems after Ni doping: A brief Raman study
VIBRATIONAL SPECTROSCOPY 55 (2) Pages: 307-310, MAR 2011.

7. Mir Feroz Ahmad; Ikram M.; Kumar Ravi
Symmetry breaking in Ni-doped PrFeO_3 thin films established by Raman study
PHASE TRANSITIONS 84 (2) Pages: 167-178, 2011.

6. Chen CZ, Cai CB, Liu ZY, et al
Stress evolution and lattice distortion induced by thickness variation and lattice misfit in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_{3-\delta}$ films
Solid State Communications 150 (1-2), 66-69 (2010).

5. Andreasson, J., Holmlund, J., Rauer, R., Käll, M., Börjesson, L., Knee, C.S., Eriksson, A.K., (...), Chaudhury, R.P.
Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution
Physical Review B - Condensed Matter and Materials Physics 78 (23), art. no. 235103 (2008).

4. Nucara, A., Maselli, P., Del Bufalo, M., Guidi, M.C., Garcia, J., Orgiani, P., Maritato, L., Calvani, P.
Effect of Ga substitution on the optical properties of La-Sr manganites
Physical Review B - Condensed Matter and Materials Physics 77 (6), art. no. 064431 (2008).

3. Rossiny, J.C.H., Fearn, S., Kilner, J.A., Zhang, Y., Chen, L., Yang, S., Evans, J., (...), Cohen, L.F.
Characterisation of combinatorial libraries of perovskite materials for SOFC cathode applications
ECS Transactions 7 (1 PART 1), pp. 1003-1013 (2007).

2. Andreasson J, Holmlund J, Knee CS, et al.
Franck-Condon higher order lattice excitations in the $\text{LaFe}_{1-x}\text{Cr}_x\text{O}_3$ ($x=0, 0.1, 0.5, 0.9, 1.0$) perovskites due to Fe-Cr charge transfer effects
PHYSICAL REVIEW B 75 (10), 103402 (2007).

1. Li WJ, Zhang B, Lu W
Structural properties and Raman spectroscopy of $\text{La}_{((2+4x))/\text{Sr}-3((1-4x))}\text{Mn}-3(1-x)\text{Cu}_x\text{O}_3$ ($0 \leq x \leq 0.2$)
PHYSICS LETTERS A 362 (4), pp. 327-330 (2007).

57. "Properties of AlN epitaxial layers on 6H-SiC substrate grown by sublimation in argon, nitrogen, and their mixtures"

M. Beshkova, Z. Zakhariev, M.V. Abrashev, J. Birch, A. Postovit, and R. Yakimova
Materials Science and Engineering B 129, 228–231 (2006).

2. Perng, Ya-Chuan; Kim, Taeseung; Chang, Jane P.
Effect of residual H_2O on epitaxial AlN film growth on 4H-SiC by alternating doses of TMA and NH_3
APPLIED SURFACE SCIENCE 314, pp. 1047-1052 SEP 30 2014

1. Kangawa, Y., Wakigawa, T., Kakimoto, K.
Possibility of AlN solution growth using Al and Li_3N
Japanese Journal of Applied Physics, Part 1: Regular Papers and Short Notes and Review Papers 46 (9 A), pp. 5785-5787 (2007)

58. "Gold supported on ceria and ceria-alumina promoted by molybdena for complete benzene oxidation"

Andreeva, D., Petrova, P., Sobczak, J.W., Ilieva, L., and Abrashev, M.
Applied Catalysis B: Environmental 67 (3-4), pp. 237-245 (2006).

34. Divergent influence of $\{111\}$ vs. $\{100\}$ crystal planes and Yb^{3+} dopant on CO oxidation paths in mixed nano-sized oxide $\text{Au/Ce}_{1-x}\text{Yb}_x\text{O}_{2-x/2}$ ($x=0$ or 0.1) systems
Wozniak, Piotr; Kraszkiewicz, Piotr; Malecka, Malgorzata A.
CRYSTENGCOMM Volume: 22 Issue: 35 Pages: 5828-5840 Published: SEP 21 2020

33. Decoration of Cube-Like Ceria Crystals by Well-Dispersed Au Nanoparticles: Surface Influence
Malecka, Malgorzata A.; Matus, Krzysztof; Wozniak, Piotr
CHEMISTRYSELECT Volume: 5 Issue: 10 Pages: 2871-2877 Published: MAR 13 2020

32. Establishing high-performance Au/cobalt oxide interfaces for low-temperature benzene combustion
Jiang, Wu; Feng, Yina; Zeng, Yiqiang; et al.
JOURNAL OF CATALYSIS Volume: 375 Pages: 171-182 Published: JUL 2019

31. Recent Advances in the Catalytic Oxidation of Volatile Organic Compounds: A Review Based on Pollutant Sorts and Sources
He, Chi; Cheng, Jie; Zhang, Xin; et al.
CHEMICAL REVIEWS Volume: 119 Issue: 7 Pages: 4471-4568 Published: APR 10 2019
30. The Key Role of Nanocasting in Gold-based Fe₂O₃ Nanocasted Catalysts for Oxygen Activation at the Metal-support Interface
Garcia, Tomas; Lopez, Jose M.; Solsona, Benjamin; et al.
CHEMCATCHEM Volume: 11 Issue: 7 Pages: 1915-1927 Published: APR 4 2019
29. Ce/Al₂O₃ as an efficient catalyst for oxidative desulfurization of liquid fuel
Jatav, Shweta; Srivastava, Vimal Chandra
PETROLEUM SCIENCE AND TECHNOLOGY Volume: 37 Issue: 6 Pages: 633-640 Published: MAR 19 2019
28. Effect of the chemical composition of mesoporous cerium-zirconium oxides on the modification with sulfur and gold species and their application in glycerol oxidation
Kaminski, P.
ChemEngineering 1(2),18, pp. 1-24 (2017)
27. Development of Mo/ γ -Al₂O₃-CeO₂ catalyst with high thermal stability by modified impregnation method
Ramli, A
Materials Science Forum 888 MSF, pp. 491-495 (2017)
26. Jin, Baofang; Wei, Yuechang; Zhao, Zhen; et al.
Three-dimensionally ordered macroporous CeO₂/Al₂O₃-supported Au nanoparticle catalysts: Effects of CeO₂ nanolayers on catalytic activity in soot oxidation
CHINESE JOURNAL OF CATALYSIS Volume: 38 Issue: 9 Pages: 1629-1641 Published: SEP 2017
25. Centeno, M.A., Reina, T.R., Ivanova, S., Laguna, O.H., Odriozola, J.A.
Au/CeO₂ catalysts: Structure and CO oxidation activity
Catalysts 6(10), Art.No. 158 DOI: 10.3390/catal6100158 (2016)
24. Liberman, E.Yu., Naumkin, A.V., Mikhailichenko, A.I., Batrakova, M.K., Maslakov, K.I., Revina, A.A., Papkova, M.V., Kon'Kova, T.V., Grunskii, V.N., Gasparyan, M.D., Karpovich, A.L., Lizunova, A.A.
Au/Ce_{0.72}Zr_{0.18}Pr_{0.10}O₂ nanodisperse catalyst for oxidation of carbon monoxide
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A Volume: 90 Issue: 1 Pages: 166-172 DOI: 10.1134/S0036024416010167
Published: JAN 2016
23. Tang, W.X., Li, S.D., Chen, Y.F.
Controlled synthesis of manganese oxides with different morphologies and their performance for catalytic removal of gaseous benzene
Energy and Environmental Engineering - Proceedings of the International Conference on Energy and Environmental Engineering, ICEEE 2014, 47-51 (2015)
22. Dongil, A.B., Pastor-Pérez, L., Sepúlveda-Escribano, A., Reyes, P.
Promoter effect of sodium in graphene-supported Ni and Ni-CeO₂ catalyst for the low-temperature WGS reaction
APPLIED CATALYSIS A-GENERAL Volume: 505 Pages: 98-104 DOI: 10.1016/j.apcata.2015.07.036 Published: SEP 25 2015
21. Fiorenza, Roberto; Crisafulli, Carmelo; Condorelli, Guglielmo G.; et al.
Au-Ag/CeO₂ and Au-Cu/CeO₂ Catalysts for Volatile Organic Compounds Oxidation and CO Preferential Oxidation
CATALYSIS LETTERS Volume: 145 Issue: 9 Pages: 1691-1702 Published: SEP 2015
20. Carabineiro, S. A. C.; Chen, X.; Martynyuk, O.; et al.
Gold supported on metal oxides for volatile organic compounds total oxidation
CATALYSIS TODAY Volume: 244 Pages: 103-114 Published: APR 15 2015
19. Lakshmanan, Pandian; Averseng, Frederic; Bion, Nicolas; et al.
Understanding of the oxygen activation on ceria- and ceria/alumina-supported gold catalysts: a study combining O-18/O-16 isotopic exchange and EPR spectroscopy
GOLD BULLETIN 46 (4), pp. 233-242 2013
18. Lakshmanan, Pandian; Delannoy, Laurent; Louis, Catherine; et al.
Au/xCeO₂/Al₂O₃ catalysts for VOC elimination: oxidation of 2-propanol
CATALYSIS SCIENCE & TECHNOLOGY 3 (11), pp. 2918-2925 2013
17. Kaminski, P., Sobczak, I., Decyk, P., Ziolk, M., Roth, W.J., Campo, B., Daturi, M.
Zeolite MCM-22 modified with Au and Cu for catalytic total oxidation of methanol and carbon monoxide
Journal of Physical Chemistry C 117 (5), pp. 2147-2159, 2013
16. Farooq, M., Ramli, A., Subbarao, D.
Synthesis and characterization of molybdenum catalysts supported on γ -Al₂O₃-CeO₂ composite oxides
AIP Conference Proceedings 1482, pp. 585-589, 2012
15. Bo, L.-L., Zhang, Y.-C., Wang, X.-H., Liu, H.-N., Zhang, H.
Preparation and application of high-performance catalyst in microwave assisted catalytic oxidation of benzene
Ranliao Huaxue Xuebao/Journal of Fuel Chemistry and Technology 40 (7), pp. 878-885, 2012
14. Scirè, S., Liotta, L.F.

- Supported gold catalysts for the total oxidation of volatile organic compounds
Applied Catalysis B: Environmental 125, pp. 222-246, 2012.
13. Wu, P., Loh, P.K., Zhao, X.S.
Supported gold catalysts for selective oxidation of organics
Science of Advanced Materials 3 (6), pp. 970-983, 2011.
12. Bonelli R.; Lucarelli C.; Pasini T.; et al.
Total oxidation of volatile organic compounds on Au/FeO(x) catalysts supported on mesoporous SBA-15 silica
APPLIED CATALYSIS A-GENERAL 400 (1-2) Pages: 54-60, JUN 30 2011.
11. Bonelli R.; Albonetti S.; Morandi V.; et al.
Design of nano-sized FeO(x) and Au/FeO(x) catalysts supported on CeO(2) for total oxidation of VOC
APPLIED CATALYSIS A-GENERAL 395 (1-2) Pages: 10-18, MAR 15 2011.
10. Wang Lei; Guo Guangsheng; Gu Fubo; et al.
Preparation of three different sphere-like Au/CeO(2) catalysts and their activity for the CO oxidation
MATERIALS SCIENCE AND ENGINEERING APPLICATIONS, PTS 1-3 Book Series: Advanced Materials Research Volume: 160-162 Pages: 428-433, 2011.
9. Musialik-Piotrowska Anna
Activity of Perovskite-Based Platinum Doped Catalysts in Oxidation of Organic Air Pollutants
OCHRONA SRODOWISKA 33 (1) Pages: 19-24, 2011.
8. Yu Qiangqiang; Chen Wei; Li Yang; et al.
The action of Pt in bimetallic Au- Pt/CeO(2) catalyst for water-gas shift reaction
CATALYSIS TODAY 158 (3-4) Pages: 324-328, DEC 22 2010.
7. Scire Salvatore; Riccobene Paolo M.; Crisafulli Carmelo
Ceria supported group IB metal catalysts for the combustion of volatile organic compounds and the preferential oxidation of CO
APPLIED CATALYSIS B-ENVIRONMENTAL 101 (1-2) Pages: 109-117, NOV 22 2010.
6. Yu, Q.-Q., Dong, Y.-Y., Liao, W.-P., Jin, M.-S., He, T., Suo, Z.-H.
Preparation of ceria-alumina and catalytic activity of gold catalyst supported on ceria-alumina for water gas shift reaction
Ranliao Huaxue Xuebao/Journal of Fuel Chemistry and Technology 38 (2), pp. 223-229 (2010).
5. Delannoy, L., Fajerweg, K., Lakshmanan, P., Potvin, C., Méthivier, C., Louis, C.
Supported gold catalysts for the decomposition of VOC: Total oxidation of propene in low concentration as model reaction
Applied Catalysis B: Environmental 94 (1-2), pp. 117-124 (2010).
4. Huang, S., Zhang, C., He, H.
Complete oxidation of o-xylene over Pd/Al₂O₃ catalyst at low temperature
Catalysis Today 139 (1-2), pp. 15-23 (2008).
3. Manzoli, M., Avgouropoulos, G., Tabakova, T., Papavasiliou, J., Ioannides, T., Boccuzzi, F.
Preferential CO oxidation in H₂-rich gas mixtures over Au/doped ceria catalysts
Catalysis Today 138 (3-4), pp. 239-243 (2008).
2. Wang, L.-C., He, L., Liu, Q., Liu, Y.-M., Chen, M., Cao, Y., He, H.-Y., Fan, K.-N.
Solvent-free selective oxidation of alcohols by molecular oxygen over gold nanoparticles supported on β -MnO₂ nanorods
Applied Catalysis A: General 344 (1-2), pp. 150-157 (2008).
1. Gennequin, C., Lamalle, M., Cousin, R., Siffert, S., Aissi, F., Aboukais, A.
Catalytic oxidation of VOCs on Au/Ce-Ti-O
Catalysis Today 122 (3-4), pp. 301-306 (2007)
59. “Raman spectroscopy of low-temperature (*Pnma*) and high-temperature (*R-3c*) phases of LaCrO₃”
Iliev, M.N., Litvinchuk, A.P., Hadjiev, V.G., Wang, Y.-Q., Cmaidalka, J., Meng, R.-L., Sun, Y.-Y., Kolev N., and Abrashev, M.V.
Phys. Rev. B 74 (21), 214301 (2006).
51. Raman spectroscopy of the Al-doping induced structural phase transition in LaCrO₃ perovskite
Silva, R.S., Cunha, F., Barrozo, P.
Solid State Communications 333, 114346 (2021)
50. Characterization of structure and properties in CaO-Nd₂O₃-TiO₂ microwave dielectric ceramic modified by Al₂O₃
Xiong, Z., Zhang, X., Tang, B., (...), Fang, Z., Zhang, S.
Materials Characterization 176, 111108 (2021)
49. Structural and morphological characterization of the perovskite LaFe_{0.2}Cr_{0.8-x}CoxO₃ (x=0.0, 0.2, 0.4, 0.6, 0.8) for selective oxidation of CO
Rativa-Parada, Wilson; Gomez-Cuaspu, Jairo A.; Schmal, Martin; et al.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY Early Access: MAR 2021

48. Site substitution in GdMnO₃: Effects on structural, electronic, and magnetic properties
Mahana, Sudipta; Pandey, Shishir Kumar; Rakshit, Bipul; et al.
PHYSICAL REVIEW B Volume: 102 Issue: 24 Article Number: 245120 Published: DEC 15 2020
47. Spin-phonon coupling and thermodynamic behaviour in YCrO₃ and LaCrO₃: inelastic neutron scattering and lattice dynamics
Gupta, Mahan K.; Mittal, Ranjan; Mishra, Sanjay K.; et al.
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 32 Issue: 50 Article Number: 505402 Published: SEP 30 2020
46. Assignment of optical phonons at the zone center of distorted orthorhombic RCrO₃ (R = La, Pr, Nd, Sm, Eu) perovskites using force-field lattice model
Jana, Y. M.; Saha, Jyoti; Nandi, Saikat
VIBRATIONAL SPECTROSCOPY Volume: 109 Article Number: 103086 Published: JUL 2020
45. Orbital facilitated charge transfer originated phonon mode in Cr-substituted PrFeO₃: A brief Raman study
Kumar, Anil; Umrao, Sima; Sagdeo, Pankaj R.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 51 Issue: 7 Pages: 1210-1218 Published: JUL 2020
44. Spin-phonon coupling in monoclinic BiCrO₃
Araujo, B. S.; Arevalo-Lopez, A. M.; Santos, C. C.; et al.
JOURNAL OF APPLIED PHYSICS Volume: 127 Issue: 11 Article Number: 114102 Published: MAR 21 2020
43. Anomalous magnetic behavior and complex magnetic structure of proximate LaCrO₃-LaFeO₃ system
Tiwari, B., Dixit, A., Ramachandra Rao, M.S.
Materials Research Express 6(12),126119 (2019)
42. Impedance spectroscopy study on Ca²⁺ doped YCrO₃ ceramics
Mall, Ashish Kumar; Pramanik, A. K.
AIP Conference Proceedings Volume: 2220 Article Number: 110005 Published: 2019
41. Study of structural and dielectric properties of La_{0.9}Na_{0.1}CrO₃- and Ni_{0.5}Cu_{0.5}Fe₂O₄-based composites
Saleem, M.; Chouhan, Shivani; Mishra, A.
JOURNAL OF ADVANCED DIELECTRICS Volume: 9 Issue: 6 Article Number: 1950044 Published: DEC 2019
40. Modifying La_{0.6}Sr_{0.4}MnO₃ Perovskites with Cr Incorporation for Fast Isothermal CO₂-Splitting Kinetics in Solar-Driven Thermochemical Cycles
Carrillo, Alfonso J.; Bork, Alexander H.; Moser, Thierry; et al.
ADVANCED ENERGY MATERIALS Volume: 9 Issue: 28 Article Number: 1803886 Published: JUL 2019
39. Mild Hydrothermal Crystallization of Heavy Rare-Earth Chromite RECrO₃ (RE = Er, Tm, Yb, Lu) Perovskites and Magnetic Properties
Wang, Shan; Wu, Xiaofeng; Wang, Tiesheng; et al.
INORGANIC CHEMISTRY Volume: 58 Issue: 4 Pages: 2315-2329 Published: FEB 18 2019
38. Structural, vibrational, and enhanced magneto-electric coupling in Ho-substituted BiFeO₃
Muneeswaran, M., Lee, S.H., Kim, D.H., (...), Giridharan, N.V., Venkateswaran, C.
Journal of Alloys and Compounds 750, pp. 276-285 (2018)
37. Continuous Hydrothermal Flow Synthesis of LaCrO₃ in Supercritical Water and Its Application in Dual-Phase Oxygen Transport Membranes
Xu, Y., Pirou, S., Zielke, P., (...), Hendriksen, P.V., Kiebach, R.
Industrial and Engineering Chemistry Research 57(6), pp. 2123-2130 (2018)
36. Effect of rare earth ions on structural and optical properties of specific perovskite orthochromates; RCrO₃ (R = La, Nd, Eu, Gd, Dy, and Y)
Singh, Kapil Dev; Pandit, Rabia; Kumar, Ravi
SOLID STATE SCIENCES Volume: 85 Pages: 70-75 Published: NOV 2018
35. Suppression of the cooperative Jahn-Teller distortion and its effect on the Raman octahedra-rotation modes of TbMn_{1-x}Fe_xO₃
Vilarinho, R.; Passos, D. J.; Queiros, E. C.; et al.
PHYSICAL REVIEW B Volume: 97 Issue: 14 Article Number: 144110 Published: APR 19 2018
34. Study of Structural and Magnetic Characterization of Polycrystalline Y_{0.5}Ho_{0.5}CrO₃
Mall, Ashish Kumar; Garg, Ashish; Gupta, Rajeev
AIP Conference Proceedings Volume: 1953 Article Number: 120009 Published: 2018
33. Study of structural, dielectric, optical properties and electronic structure of Cr-doped LaInO₃ perovskite nanoparticles
Kumar, S., Dwivedi, G.D., Joshi, A.G., Chatterjee, S., Ghosh, A.K.
Materials Characterization 131, pp. 108-115 (2017)
32. Ac Conductivity And Raman Spectroscopic Studies Of PrMnO₃ Nanostructure
Saha, Sujoy; Maity, Ritwik; Sakhya, Anup Pradhan; et al.
MATERIALS TODAY-PROCEEDINGS Volume: 5 Issue: 3 Pages: 9981-9988 Part: 3 Published: 2017
31. Polarized Raman scattering on single crystals of rare earth orthochromite RCrO₃ (R=La, Pr, Nd, and Sm)
Camara, Nimbo Robert; Vinh Ta Phuoc; Monot-Laffez, Isabelle; et al.

30. Blanck, Dimitri; Schon, Anke; Mamede, Anne-Sophie; et al.
In situ Raman spectroscopy evidence of an accessible phase potentially involved in the enhanced activity of La -deficient lanthanum orthoferrite in 3-way catalysis (TWC)
CATALYSIS TODAY Volume: 283 Pages: 151-157 Published: APR 1 2017
29. Weber, Mads Christof; Guennou, Mael; Zhao, Hong Jian; et al.
Raman spectroscopy of rare-earth orthoferrites RFeO₃ (R=La, Sm, Eu, Gd, Tb, Dy)
PHYSICAL REVIEW B Volume: 94 Issue: 21 Article Number: 214103 Published: DEC 7 2016
28. Shportko, K.V., Rueckamp, R., Shoukavaya, T.V., Trukhan, V.M., El-Nasser, H.M., Venger, E.F.
Effect of the low temperatures on the Raman active vibrational modes in ZnP₂ and CdP₂
Vibrational Spectroscopy 87, 173-181 DOI: 10.1016/j.vibspec.2016.09.02 (2016)
27. Saha, S., Chanda, S., Dutta, A., Sinha, T.P.
Dielectric relaxation of PrFeO₃ nanoparticles
SOLID STATE SCIENCES Volume: 58 Pages: 55-63 DOI: 10.1016/j.solidstatesciences.2016.05.013 Published: AUG 2016
26. Taheri, M., Razavi, F.S., Yamani, Z., Flacau, R., Reuvekamp, P.G., Schulz, A., Kremer, R.K.
Magnetic structure, magnetoelastic coupling, and thermal properties of EuCrO₃ nanopowders
PHYSICAL REVIEW B Volume: 93 Issue: 10 Article Number: 104414 DOI: 10.1103/PhysRevB.93.104414 Published: MAR 16 2016
25. Shi, J., Zong, S., Hu, Y., Guan, X., Luo, J., Shang, Y., Li, G., Liu, D., Wang, X., Guo, P.
Continuous solid solutions of Na_{0.5}La_{0.5}TiO₃-LaCrO₃ for photocatalytic H₂ evolution under visible-light irradiation
RSC ADVANCES Volume: 6 Issue: 57 Pages: 51801-51806 DOI: 10.1039/c6ra07891e Published: 2016
24. Mall, A.K., Garg, A., Gupta, R.
High Temperature X-ray Diffraction, Raman Spectroscopy and Dielectric Studies on Yttrium Orthochromites
AIP Conference Proceedings Volume: 1728 Article Number: 020239 DOI: 10.1063/1.4946290 Published: 2016
23. Wang, S., Huang, K., Hou, C., Yuan, L., Wu, X., Lu, D.
Low temperature hydrothermal synthesis, structure and magnetic properties of RECrO₃ (RE = La, Pr, Nd, Sm)
DALTON TRANSACTIONS Volume: 44 Issue: 39 Pages: 17201-17208 DOI: 10.1039/c5dt02342d Published: 2015
22. Gupta, Preeti; Bhargava, Richa; Poddar, Pankaj
Colossal increase in negative magnetization, exchange bias and coercivity in samarium chromite due to a strong coupling between Sm³⁺-Cr³⁺ spins sublattices
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 48 Issue: 2 Article Number: 025004 Published: JAN 21 2015
21. Gupta, Preeti; Poddar, Pankaj
Using Raman and dielectric spectroscopy to elucidate the spin phonon and magnetoelectric coupling in DyCrO₃ nanoplatelets
RSC ADVANCES Volume: 5 Issue: 14 Pages: 10094-10101 Published: 2015
20. Sood, Kapil; Singh, K.; Pandey, O. P.
Co-existence of cubic and orthorhombic phases in Ba-doped LaInO₃ and their effect on conductivity
PHYSICA B-CONDENSED MATTER Volume: 456 Pages: 250-257 Published: JAN 1 2015
19. Mandal, P.R., Sahoo, R.C., Nath, T.K.
A comparative study of structural, magnetic, dielectric behaviors and impedance spectroscopy for bulk and nanometric double perovskite Sm₂CoMnO₆
MATERIALS RESEARCH EXPRESS Volume: 1 Issue: 4 Article Number: 046108 DOI: 10.1088/2053-1591/1/4/046108 Published: DEC 2014
18. Bhadram, V.S., Swain, D., Dhanya, R., Polentarutti, M., Sundaresan, A., Narayana, C.
Effect of pressure on octahedral distortions in RCrO₃ (R=Lu, Tb, Gd, Eu, Sm): the role of R-ion size and its implications
MATERIALS RESEARCH EXPRESS Volume: 1 Issue: 2 Article Number: 026111 DOI: 10.1088/2053-1591/1/2/026111 Published: JUN 2014
17. Muneeswaran, M.; Giridharan, N. V.
Effect of Dy-substitution on the structural, vibrational, and multiferroic properties of BiFeO₃ nanoparticles
JOURNAL OF APPLIED PHYSICS 115 (21), Art. No. 214109 JUN 7 2014
16. El Amrani, M.; Zaghrioui, M.; Ta Phuoc, V.; et al.
Local symmetry breaking and spin-phonon coupling in SmCrO₃ orthochromite
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 361, pp.1-6 JUN 2014
15. Saha, Sujoy; Chanda, Sadhan; Dutta, Alo; et al.
Dielectric relaxation and phonon modes of NdCrO₃ nanostructure
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY 69 (3), pp. 553-563 MAR 2014
14. Tiwari, B., Dixit, A., Naik, R., Lawes, G., Ramachandra Rao, M.S.
Dielectric and optical phonon anomalies near antiferromagnetic ordering in LaCrO₃: A possible near room temperature magnetodielectric system
Applied Physics Letters 103(15), 152906 DOI: 10.1063/1.4824919 (2013)

13. Daniels, Luke M.; Weber, Mads C.; Lees, Martin R.; et al.
Structures and Magnetism of the Rare-Earth Orthochromite Perovskite Solid Solution $\text{La}_x\text{Sm}_{1-x}\text{CrO}_3$
INORGANIC CHEMISTRY 52 (20), pp. 12161-12169 OCT 21 2013
12. Jacob, Kallarakel Thomas; Gupta, Sapna; Singh, Prabhakar
Electrochemical Determination of Gibbs Energy of Formation of LaCrO_3 Using a Composition-Graded Bielectrolyte
JOURNAL OF THE AMERICAN CERAMIC SOCIETY 96 (10), pp. 3272-3278 OCT 2013
11. Bielecki, J., Svedlindh, P., Tibebe, D.T., Cai, S., Eriksson, S.-G., Börjesson, L., Knee, C.S.
Structural and magnetic properties of isovalently substituted multiferroic BiFeO_3 : Insights from Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 86 (18), art. no. 184422, 2012
10. Runka, T.; Berkowski, M.
Perovskite $\text{La}_{1-x}\text{Sr}_x\text{Ga}_{1-y}\text{Mn}_y\text{O}_{3-y}$ solid solution crystals: Raman spectroscopy characterization
JOURNAL OF MATERIALS SCIENCE 47 (14) Pages: 5393-5401, JUL 2012.
9. Weber, M.C., Kreisel, J., Thomas, P.A., Newton, M., Sardar, K., Walton, R.I.
Phonon Raman scattering of RCrO_3 perovskites ($\text{R}=\text{Y}, \text{La}, \text{Pr}, \text{Sm}, \text{Gd}, \text{Dy}, \text{Ho}, \text{Yb}, \text{Lu}$)
Physical Review B - Condensed Matter and Materials Physics 85 (5), art. no. 054303, 2012.
8. Martinelli, A., Ferretti, M., Cimberle, M.R., Ritter, C.
The crystal and magnetic structure of Ti-substituted LaCrO_3
Materials Research Bulletin 46 (2), pp. 190-193 (2011).
7. Du Yi; Cheng Zhen Xiang; Wang Xiao-Lin; et al.
Structure, magnetic, and thermal properties of $\text{Nd}_{1-x}\text{La}_x\text{CrO}_3$ ($0 \leq x \leq 1.0$)
JOURNAL OF APPLIED PHYSICS 108 (9) Article Number: 093914, NOV 1 2010.
6. Shen Y, Liu MN, He TM, et al
A potential interconnect material for solid oxide fuel cells: $\text{Nd}_{0.75}\text{Ca}_{0.25}\text{Cr}_{0.98}\text{O}_{3-\delta}$
Journal of Power Sources 157 (3), B441-B448 (2010).
5. Sharma, V.I., Yildiz, B.
Degradation mechanism in $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3$ as contact layer on the solid oxide electrolysis cell anode
Journal of the Electrochemical Society 157 (3), pp. B441-B448 (2010).
4. Shen, Y., Liu, M., He, T., Jiang, S.P.
Preparation, electrical conductivity, and thermal expansion behavior of dense $\text{Nd}_{1-x}\text{Ca}_x\text{CrO}_3$ solid solutions
Journal of the American Ceramic Society 92 (10), pp. 2259-2264 (2009).
3. Povoden, E., Chen, M., Grundy, A.N., Ivas, T., Gauckler, L.J.
Thermodynamic assessment of the La-Cr-O system
Journal of Phase Equilibria and Diffusion 30 (1), pp. 12-27 (2009).
2. Andreasson, J., Holmlund, J., Rauer, R., Käll, M., Börjesson, L., Knee, C.S., Eriksson, A.K., (...), Chaudhury, R.P.
Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution
Physical Review B - Condensed Matter and Materials Physics 78 (23), art. no. 235103 (2008).
1. Ong, K.P., Blaha, P., Wu, P.
Origin of the light green color and electronic ground state of LaCrO_3
Physical Review B - Condensed Matter and Materials Physics 77 (7), art. no. 073102 (2008).
60. "Sublimation Epitaxy of AlN layers grown by different conditions on 4H-SiC substrates"
M. Beshkova, K. G. Grigorov, Z. Zakhariev, M. Abrashev, M. Massi, R. Yakimova
J. Optoelectr. and Adv. Mater. 9, 213 (2007).
61. "Polarized micro-Raman scattering characterization of Mg_2Si nanolayers in (001) Si matrix"
G. Zlateva, A. Atanassov, M. Baleva, L. Nikolova and M. V. Abrashev
J. Phys.: Condens. Matter 19, 086220 (2007). (9 pages)
5. First-Principle Simulation of Ferromagnetism in Gd-Doped Mg_2X ($\text{X} = \text{Si}, \text{Ge}$ and Sn)
El Ahmar, Y.; Hallouche, A.; Dahani, A.; et al.
SPIN Volume: 9 Issue: 3 Article Number: 1950010 Published: SEP 2019
4. AZ91 magnesium matrix foam composites with fly ash cenospheres fabricated by negative pressure infiltration technique
Braszczyńska-Malik, K.N., Kamieniak, J.
Materials Characterization 128, pp. 209-216 (2017)
3. Morozova, Natalia V.; Ovsyannikov, Sergey V.; Korobeinikov, Igor V.; et al.
Significant enhancement of thermoelectric properties and metallization of Al-doped Mg_2Si under pressure
JOURNAL OF APPLIED PHYSICS 115 (21), Art. No. 213705 JUN 7 2014

2. Fan, T.-W., Ke, J.-L., Fu, L., Tang, B.-Y., Peng, L.-M., Ding, W.-J.
Ideal strength of Mg₂X (X = Si, Ge, Sn and Pb) from first-principles
Journal of Magnesium and Alloys 1(2), 163-168 DOI: 10.1016/j.jma.2013.06.002 (2013)

1. Kang, Y., Brockway, L., Vaddiraju, S.
A simple phase transformation strategy for converting silicon nanowires into metal silicide nanowires: Magnesium silicide
Materials Letters 100, pp. 106-110, 2013

62. “*Raman spectroscopy of ordered double perovskite La₂CoMnO₆ thin films*”

M. N. Iliev, M. V. Abrashev, A. P. Litvinchuk, V. G. Hadjiev, H. Guo, and A. Gupta
Phys. Rev. B 75, 104118 (2007). (6 pages)

121. Strong spin-phonon coupling and large dielectric constant observed in quasi-two-dimensional layered perovskite SrLaCo_{0.5}Mn_{0.5}O₄
Das, R.R., Lekshmi, P.N., Santhosh, P.N.
Journal of Alloys and Compounds 874, 159736 (2021)

120. Tuning of multi-magnetic phase and exchange bias effect by antisite disorder in Ca-doped La₂CoMnO₆ double perovskites
Sahoo, R.C., Das, S., Daw, D., (...), Das, A., Nath, T.K.
Journal of Physics Condensed Matter 33(21), 215804 (2021)

119. Unraveling the impact of nonmagnetic Sc substitution on the magnetic properties of La₂NiMnO₆ double perovskite
Nasir, Mohammad; Khan, Mahmud; Bhatt, Subhash; et al.
PHYSICA SCRIPTA Volume: 96 Issue: 4 Article Number: 045805 Published: APR 2021

118. Bandgap engineering and sublattice distortion driven bandgap bowing in Cs₂Ag_{1-x}NaxBiCl₆ double perovskites
Dakshinamurthy, Athrey C.; Sudakar, C.
APPLIED PHYSICS LETTERS Volume: 118 Issue: 13 Article Number: 131902 Published: MAR 29 2021

117. Structural, dielectric, and magnetic properties of LaCo_{0.2}Mn_{0.8}O₃ and La₂CoMnO₆ perovskite materials
Yousif, N. M.; Makram, N.; Wahab, L. A.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY Volume: 98 Issue: 1 Pages: 238-251 Published: APR 2021

116. Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides
Zhuang, Zechao; Li, Yong; Li, Yihang; et al.
ENERGY & ENVIRONMENTAL SCIENCE Volume: 14 Issue: 2 Pages: 1016-1028 Published: FEB 1 2021

115. Preparation and characterization of R₂CoMnO₆ (R=La, Nd) via PVA sol-gel route
Xu, Zhibo; Feng, Zhongshuai; Xu, Yebin
JOURNAL OF ASIAN CERAMIC SOCIETIES Volume: 9 Issue: 1 Pages: 119-127 Published: JAN 2 2021

114. Improved magnetic performance of Co-doped La₂NiMnO₆ ceramics prepared at low temperature
Gan, H., Wang, C., Shen, Q.
Journal of the European Ceramic Society 40(5), pp. 1909-1916 (2020)

113. Physical properties in nano-crystalline Ho₂CoMnO₆
Bhatti, I.N., Bhatti, I.N., Mahato, R.N., Ahsan, M.A.H.
Ceramics International 46(1), pp. 46-55 (2020)

112. Anomalous magnetism in Al doped La₂CoMnO₆ ceramics
Xin, Y., Shi, L., Zhao, J., (...), Hou, L., Tong, R.
Journal of Magnetism and Magnetic Materials 510, 166950 (2020)

111. Structure, magnetism and dielectric study of nano-crystalline Gd₂CoMnO₆
Bhatti, Ilyas Noor; Bhatti, Imtiaz Noor; Mahato, Rabindra Nath; et al.
SOLID STATE SCIENCES Volume: 108 Article Number: 106384 Published: OCT 2020

110. Evidence of cluster-glass and Griffiths-like phases in partially ordered La₂(FeMnO₆) double perovskite
Nasir, Mohammad; Khan, Mahmud; Agbo, Sunday Arome; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 53 Issue: 37 Article Number: 375003 Published: SEP 9 2020

109. Effect of bismuth (Bi³⁺) substitution on structural, optical, dielectric and magnetic nature of La₂(CoMnO₆) double perovskite
Bajpai, Niketa; Saleem, M.; Mishra, Ashutosh
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Early Access: SEP 2020

108. High-temperature structural phase transition and infrared dielectric features of La₂CoMnO₆
Silva, R. X.; Silva, A.; Moreira, R. L.; et al.
MATERIALS RESEARCH BULLETIN Volume: 129 Article Number: 110878 Published: SEP 2020

107. Structural, Dielectric, and Energy Storage Properties of Citric Acid and Ethylene Glycol Assisted Hydrothermally Synthesized Y₂FeCoO₆
Devi, Manju; Kumar, Ashavani; Kumar, Ashok
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE Volume: 217 Issue: 20 Article Number: 2000324
Published: OCT 2020

106. Extraordinary magnetic properties of double perovskite $\text{Eu}_2\text{CoMnO}_6$ wide band gap semiconductor
Alam, Mohd; Singh, Prajyoti; Anand, Khyati; et al.
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 32 Issue: 36 Article Number: 365802 Published: AUG 26 2020
105. Effect of structural and magnetic disorder on the 3d-5d exchange interactions in $\text{La}_{2-x}\text{Ca}_x\text{CoIrO}_6$
Bufaical, L.; Sadrollahi, E.; Litterst, F. J.; et al.
PHYSICAL REVIEW B Volume: 102 Issue: 2 Article Number: 024436 Published: JUL 22 2020
104. Structural, transport, optical, and electronic properties of $\text{Sr}_2\text{CoNbO}_6$ thin films
Kumar, Ajay; Shukla, Rishabh; Pandey, Akhilesh; et al.
JOURNAL OF APPLIED PHYSICS Volume: 128 Issue: 2 Article Number: 025303 Published: JUL 14 2020
103. Antisite disorder driven magnetodielectric and magnetocaloric effect in double perovskite $\text{La}_{2-x}\text{Sr}_x\text{CoMnO}_6$ ($x=0.0, 0.5, 1.0$)
Mandal, P. R.; Khan, Anasua; Nath, T. K.
JOURNAL OF APPLIED PHYSICS Volume: 128 Issue: 2 Article Number: 024104 Published: JUL 14 2020
102. Investigation of structural, morphological and electrochemical properties of mesoporous $\text{La}_2\text{CuCoO}_6$ rods fabricated by facile hydrothermal route
Singh, Jashandeep; Kumar, Ashok
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS Volume: 27 Issue: 7 Pages: 987-995
Published: JUL 2020
101. Raman and photoluminescence spectral studies in double perovskite epitaxial $\text{Nd}_2\text{CoMnO}_6$ thin films deposited by pulse laser deposition
Anshul, Avneesh; Kumar, Manish; Raj, Abhishek
OPTIK Volume: 212 Article Number: 164749 Published: JUN 2020
100. Structure, magnetic and dielectric properties in nano-crystalline $\text{Yb}_2\text{CoMnO}_6$
Bhatti, Ilyas Noor; Bhatti, Imtiaz Noor; Mahato, Rabindra Nath; et al.
MATERIALS CHEMISTRY AND PHYSICS Volume: 244 Article Number: 122709 Published: APR 1 2020
99. Physical properties of nano-crystalline $\text{Sm}_2\text{CoMnO}_6$: Structure, magnetism, spin-phonon coupling and dielectric study
Bhatti, Ilyas Noor; Bhatti, Imtiaz Noor; Mahato, Rabindra Nath; et al.
PHYSICA B-CONDENSED MATTER Volume: 582 Article Number: 411975 Published: APR 1 2020
98. Unraveling magnetic interactions and the spin state in insulating $\text{Sr}_2\text{La}_x\text{CoNbO}_6$
Kumar, Ajay; Dhaka, R. S.
PHYSICAL REVIEW B Volume: 101 Issue: 9 Article Number: 094434 Published: MAR 31 2020
97. Spin-phonon coupling in monoclinic BiCrO_3
Araujo, B. S.; Arevalo-Lopez, A. M.; Santos, C. C.; et al.
JOURNAL OF APPLIED PHYSICS Volume: 127 Issue: 11 Article Number: 114102 Published: MAR 21 2020
96. Wet chemical synthesis and electrochemical performance of novel double perovskite Y_2CuMnO_6 nanocrystallites
Mansoorie, Farha Naaz; Singh, Jashandeep; Kumar, Ashok
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING Volume: 107 Article Number: 104826 Published: MAR 1 2020
95. Bismuth Doped $\text{La}_2\text{CoMnO}_6$: A Study of Williamson-Hall Analysis And Four-Probe Resistivity Measurement
Bajpai, N.; Saleem, M.; Tiwari, S.; et al.
AIP Conference Proceedings Volume: 2220 Article Number: 040029 Published: 2020
94. Structural and transport study of disordered double perovskite $\text{Pr}_2\text{FeMnO}_6$
Rana, Sumesh; Dwij, Vivek; Sharma, Gaurav; et al.
AIP Conference Proceedings Volume: 2220 Article Number: 040005 Published: 2020
93. Facile wet chemical synthesis and electrochemical behavior of $\text{La}_2\text{FeCoO}_6$ nano-crystallites
Singh, J., Kumar, A.
Materials Science in Semiconductor Processing 99, pp. 8-13 (2019)
92. Optical Study of the Electronic Structure and Lattice Dynamics of $\text{NdBaMn}_2\text{O}_6$ Single Crystals
Mero, Rea Divina; Ogawa, Kirari; Yamada, Shigeki; et al.
SCIENTIFIC REPORTS Volume: 9 Article Number: 18164 Published: DEC 3 2019
91. Influence of Cation Order and Valence States on Magnetic Ordering in $\text{La}_2\text{Ni}_{1-x}\text{Mn}_x\text{O}_6$
Nasir, Mohd.; Khan, Mahmud; Bhatt, Subhash; et al.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume: 256 Issue: 11 Article Number: 1900019 Published: NOV 2019
90. Lattice Dynamics, Phonon Chirality, and Spin-Phonon Coupling in 2D Itinerant Ferromagnet Fe_3GeTe_2
Du, LuoJun; Tang, Jian; Zhao, Yanchong; et al.
ADVANCED FUNCTIONAL MATERIALS Volume: 29 Issue: 48 Article Number: 1904734 Published: NOV 2019
89. Zero-field-cooled exchange bias effect in phase-segregated $\text{La}_{2-x}\text{A}_x\text{CoMnO}_{6-\delta}$ ($\text{A} = \text{Ba}, \text{Ca}, \text{Sr}$; $x=0, 0.5$)
Coutrim, L. T.; Rigitano, D.; Macchiutti, C.; et al.
PHYSICAL REVIEW B Volume: 100 Issue: 5 Article Number: 054428 Published: AUG 21 2019

88. The effect of high temperature annealing on the antisite defects in ferromagnetic La₂NiMnO₆ double perovskite
Nasir, Mohd; Khan, Mahmud; Kumar, Sunil; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 483 Pages: 114-123 Published: AUG 1 2019
87. Magnetoelastic coupling behavior at the ferromagnetic transition in the partially disordered double perovskite La₂NiMnO₆
Yang, Dexin; Lampronti, Giulio, I; Haines, C. R. Sebastian; et al.
PHYSICAL REVIEW B Volume: 100 Issue: 1 Article Number: 014304 Published: JUL 23 2019
86. High-Pressure Study of the Elpasolite Perovskite La₂NiMnO₆
Ridley, Christopher J.; Daisenberger, Dominik; Wilson, Craig W.; et al.
INORGANIC CHEMISTRY Volume: 58 Issue: 14 Pages: 9016-9027 Published: JUL 15 2019
85. Investigation of multi-mode spin-phonon coupling and local B-site disorder in Pr₂CoFeO₆ by Raman spectroscopy and correlation with its electronic structure by XPS and XAS studies
Pal, Arkadeb; Ghosh, Surajit; Joshi, Amish G.; et al.
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 31 Issue: 27 Article Number: 275802 Published: JUL 10 2019
84. SYNTHESIS, X-RAY DIFFRACTION, AND RAMAN SPECTROSCOPY OF AgSnBiSe₃ AND AgSnBiSe₂S SYSTEMS
Moris, S.; Barahona, P.; Valencia-Galvez, P.; et al.
CHALCOGENIDE LETTERS Volume: 16 Issue: 6 Pages: 303-307 Published: JUN 2019
83. Dielectric and Raman spectroscopy study of structural phase transformation of Sr-doped La₂CoMnO₆ double perovskite
Magray, Mushtaq Ahmad; Ikram, M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 30 Issue: 9 Pages: 8655-8666 Published: MAY 2019
82. Strain coupling and acoustic attenuation associated with glassy magnetic phase transitions in the disordered double perovskite La₂FeMnO₆
Yang, Dexin; Yang, Tao; Mukherjee, Paromita; et al.
PHYSICAL REVIEW B Volume: 99 Issue: 9 Article Number: 094314 Published: MAR 28 2019
81. Vibrational properties and infrared dielectric features of Gd₂CoMnO₆ and Y₂CoMnO₆ double perovskites
Silva, R. X.; Almeida, R. M.; Moreira, R. L.; et al.
CERAMICS INTERNATIONAL Volume: 45 Issue: 4 Pages: 4756-4762 Published: MAR 2019
80. Connection between Unusual Lattice Thermal Expansion and Cooperative Jahn-Teller Effect in Double Perovskites LaPbMSbO₆ (M = Mn, Co, Ni)
Bai, Yijia; Han, Lin; Meng, Jian; et al.
INORGANIC CHEMISTRY Volume: 58 Issue: 4 Pages: 2888-2898 Published: FEB 18 2019
79. Competing short-range magnetic correlations, metamagnetic behavior and spin-phonon coupling in Nd₂CoMnO₆ double perovskite
Das, Ranjana R.; Lekshmi, R. Neenu; Das, S. C.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 773 Pages: 770-777 Published: JAN 30 2019
78. Structural and Magnetic Properties of Fe, Mn based Double Perovskite La₂FeMnO₆ Compound
Punitha, J. Stella; Dhilip, M.; Anbarasu, V.; et al.
AIP Conference Proceedings Volume: 2115 Article Number: 030468 Published: 2019
77. Role of Antisite Disorder, Rare-Earth Size, and Superexchange Angle on Band Gap, Curie Temperature, and Magnetization of R₂NiMnO₆ Double Perovskites
Nasir, Mohd; Kumar, Sunil; Patra, Nirmalendu; et al.
ACS APPLIED ELECTRONIC MATERIALS Volume: 1 Issue: 1 Pages: 141-153 Published: JAN 2019
76. Spin-phonon coupling in melanothallite Cu₂OCu₂
Araujo, B. S.; Arevalo-Lopez, A. M.; Attfield, J. P.; et al.
APPLIED PHYSICS LETTERS Volume: 113 Issue: 22 Article Number: 222901 Published: NOV 26 2018
75. Electrochemical and Operando Spectroscopic Studies of Sr₂Fe_{1.5}Mo_{0.5}O_{6-δ} Anode Catalysts in Solid Oxide Fuel Cells Operating with Direct Alcohol Fuels
Bode, Gregory L.; McIntyre, Melissa D.; Neuberger, Daniel M.; et al.
CHEMELECTROCHEM Volume: 5 Issue: 21 Pages: 3162-3168 Published: NOV 2 2018
74. Structure, magnetism, and spin-phonon coupling in heteroepitaxial La₂CoMnO₆/Al₂O₃(0001) films
Meyer, Ch; Roddatis, V; Ksoll, P.; et al.
PHYSICAL REVIEW B Volume: 98 Issue: 13 Article Number: 134433 Published: OCT 18 2018
73. Quantum well structure of a double perovskite superlattice and formation of a spin-polarized two-dimensional electron gas
Samanta, S.; Mishra, S. B.; Nanda, B. R. K.
PHYSICAL REVIEW B Volume: 98 Issue: 11 Article Number: 115155 Published: SEP 26 2018
72. Effect of rare earth site substitution on magnetic and transport properties of Ln₂(CoMnO₆) (Ln = La, Sm and Gd) double perovskites
Sahoo, R. C.; Das, Sananda; Nath, T. K.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 460 Pages: 409-417 Published: AUG 15 2018
71. Revisiting La₂MMnO₆ (M = Co, Ni, Cu, Zn) perovskites in view of 3d-electron configuration
Guo, Lin; Bai, Yijia; Huang, Chunming; et al.

- JOURNAL OF APPLIED PHYSICS Volume: 124 Issue: 6 Article Number: 065103 Published: AUG 14 2018
70. Role of spontaneous strains on the biphasic nature of partial B-site disorder double perovskite La₂NiMnO₆
Yang, Dexin; Wang, Wei; Yang, Tao; et al.
APL MATERIALS Volume: 6 Issue: 6 Article Number: 066102 Published: JUN 2018
69. Strain-induced changes of the electronic properties of B-site ordered double-perovskite Sr₂CoIrO₆ thin films
Esser, S.; Chang, C. F.; Kuo, C-Y; et al.
PHYSICAL REVIEW B Volume: 97 Issue: 20 Article Number: 205121 Published: MAY 15 2018
68. Grain boundary-dominated electrical conduction and anomalous optical-phonon behaviour near the Neel temperature in YFeO₃ ceramics
Raut, Subhajt; Babu, P. D.; Sharma, R. K.; et al.
JOURNAL OF APPLIED PHYSICS Volume: 123 Issue: 17 Article Number: 174101 Published: MAY 7 2018
67. Spin-phonon coupling in HoCr_{1-x}Fe_xO₃ (x=0 and 0.5) compounds
Kotnana, Ganesh; Sathe, Vasant. G.; Jammalamadaka, S. Narayana
JOURNAL OF RAMAN SPECTROSCOPY Volume: 49 Issue: 4 Pages: 764-770 Published: APR 2018
66. Barbosa, D. A. B.; Paschoal, C. W. A.
Raman evidence for presence of high-temperature ferromagnetic clusters in magnetodielectric compound Ba-doped La₂NiMnO₆
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: 185 Pages: 125-129
Published: OCT 5 2017
65. Yadav, Rashmi; Para, Touseef Ahmad; Reshi, Hilal Ahmad; et al.
Easy synthesis and electric, magneto-transport and magnetic properties of double perovskite La₂CoMnO₆ compound
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 3 Pages: 2970-2975 Published: FEB 2017
64. Meyer, Christoph; Huehn, Sebastian; Jungbauer, Markus; et al
Tip-enhanced Raman spectroscopy (TERS) on double perovskite La₂CoMnO₆ thin films: field enhancement and depolarization effects
JOURNAL OF RAMAN SPECTROSCOPY Volume: 48 Issue: 1 Pages: 46-52 Published: JAN 2017
63. Silva, R.X., Castro Júnior, M.C., Yáñez-Vilar, S., Andújar, M.S., Mira, J., Señaris-Rodríguez, M.A., Paschoal, C.W.A.
Spin-phonon coupling in multiferroic Y₂CoMnO₆
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 690 Pages: 909-915 DOI: 10.1016/j.jallcom.2016.07.010 Published: JAN 5 2017
62. Opacic, M, Lazarevic, N, Radonjic, MM.; Scepanovic, M, Ryu, H, Wang, AF.; Tanaskovic, D, Petrovic, C, Popovic, ZV
Raman spectroscopy of K_xCo_{2-y}Se₂ single crystals near the ferromagnet-paramagnet transition
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 28 Issue: 48 Article Number: 485401 DOI: 10.1088/0953-8984/28/48/485401 Published: DEC 7 2016
61. Krishna Murthy, J., Devi Chandrasekhar, K., Venimadhav, A.
Observation of Griffiths-like phase and its tunability in La₂Ni_{1-x}CoxO₆ (0 ≤ x ≤ 1) nanoparticles
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 418 Pages: 2-8 DOI: 10.1016/j.jmmm.2016.02.074 Published: NOV 15 2016
60. Xie, CZ (Xie, Changzheng); Shi, L (Shi, Lei); Zhao, JY (Zhao, Jiyin); Zhou, SM (Zhou, Shiming); Li, Y (Li, Yang); Yuan, XY (Yuan, Xueyou)
Spin-phonon coupling in R₂CoMnO₆ (R=Pr, Nd, Sm) thin films under biaxial compressive strain
JOURNAL OF APPLIED PHYSICS Volume: 120 Issue: 15 Article Number: 155302 DOI: 10.1063/1.4964940 Published: OCT 21 2016
59. Ren, Yaoyu; Liu, Ting; Shen, Yang; et al.
Chemical compatibility between garnet-like solid state electrolyte Li_{6.75}La₃Zr_{1.75}Ta_{0.25}O₁₂ and major commercial lithium battery cathode materials
JOURNAL OF MATERIMICS Volume: 2 Issue: 3 Pages: 256-264 Published: SEP 2016
58. Reddy, MP (Reddy, M. Penchal); Shakoor, RA (Shakoor, R. A.); Mohamed, AMA (Mohamed, A. M. A.)
Structural and magnetic studies of La₂BMnO₆ (B=Ni and Co) nanoparticles prepared by microwave sintering approach
MATERIALS CHEMISTRY AND PHYSICS Volume: 177 Pages: 346-352 DOI: 10.1016/j.matchemphys.2016.04.038 Published: JUL 1 2016
57. Silva, R.X., De Menezes, A.S., Almeida, R.M., Moreira, R.L., Paniago, R., Marti, X., Reichlova, H., Maryško, M., Rezende, M.V.D.S., Paschoal, C.W.A.
Structural order, magnetic and intrinsic dielectric properties of magnetoelectric La₂CoMnO₆
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 661 Pages: 541-552 DOI: 10.1016/j.jallcom.2015.11.097 Published: MAR 15 2016
56. Neenu Lekshmi, P., Raama Varma, M.
Colossal magneto-dielectricity in La₂NiMnO₆ probed by Raman spectroscopy
Materials Science Forum 830-831, 513-517 DOI: 10.4028/www.scientific.net/MSF.830-831.513 (2015)
55. Kumar, D., Sathe, V.G.
Raman spectroscopic study of structural transformation in ordered double perovskites La₂CoMnO₆ bulk and epitaxial film
SOLID STATE COMMUNICATIONS Volume: 224 Pages: 10-14 DOI: 10.1016/j.ssc.2015.09.014 Published: DEC 2015

54. Masud, MG (Masud, Md G.); Sakata, H (Sakata, H.); Biswal, AK (Biswal, A. K.); Vishwakarma, PN (Vishwakarma, P. N.); Chaudhuri, BK (Chaudhuri, B. K.)
Structural, ac conductivity scaling and magnetodielectric behaviour of a partially disordered insulating ferromagnetic double perovskite $\text{Eu}_2\text{NiMnO}_6$
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 48 Issue: 37 Article Number: 375504 DOI: 10.1088/0022-3727/48/37/375504
Published: SEP 23 2015
53. Xie, C., Shi, L., Zhou, S., Zhao, J., Liu, H., Li, Y., Yao, D.
Structural characteristics, magnetic properties of $\text{Re}_2\text{NiMnO}_6$ (Re = La, Pr, Nd, Sm, Y) thin films on (001) LaAlO_3 by simple polymer assisted deposition
SURFACE & COATINGS TECHNOLOGY Volume: 277 Pages: 222-226 DOI: 10.1016/j.surfcoat.2015.07.056 Published: SEP 15 2015
52. Macedo Filho, R.B., Barbosa, D.A.B., Reichlova, H., Marti, X., De Menezes, A.S., Ayala, A.P., Paschoal, C.W.A.
Role of rare-earth ionic radii on the spin-phonon coupling in multiferroic ordered double perovskites
MATERIALS RESEARCH EXPRESS Volume: 2 Issue: 7 Article Number: 075201 DOI: 10.1088/2053-1591/2/7/075201 Published: JUL 2015
51. Shi, L., Liu, W., Zhao, J., Li, Y., Zhou, S., Guo, Y., Wang, Y.
The magnetic properties and spin-phonon coupling of $\text{Pr}_2\text{CoMnO}_6$ particles
MATERIALS RESEARCH EXPRESS Volume: 2 Issue: 7 Article Number: 076104 DOI: 10.1088/2053-1591/2/7/076104 Published: JUL 2015
50. Kumar, D (Kumar, Dharendra); Kumar, S (Kumar, Satish); Sathe, VG (Sathe, V. G.)
Raman Studies of Ordered Double Perovskite Thin Film at High Temperatures
PROCEEDINGS OF THE 59TH DAE SOLID STATE PHYSICS SYMPOSIUM 2014 (SOLID STATE PHYSICS) Book Series: AIP Conference Proceedings Volume: 1665 Article Number: 140030 DOI: 10.1063/1.4918239 Published: 2015
49. Silva, R. X.; Moreira, R. L.; Almeida, R. M.; et al.
Intrinsic dielectric properties of magnetodielectric $\text{La}_2\text{CoMnO}_6$
JOURNAL OF APPLIED PHYSICS Volume: 117 Issue: 21 Article Number: 214105 Published: JUN 7 2015
48. Takahashi, R.; Ohkubo, I.; Yamauchi, K.; et al.
A-site-driven ferroelectricity in strained ferromagnetic $\text{La}_2\text{NiMnO}_6$ thin films
PHYSICAL REVIEW B Volume: 91 Issue: 13 Article Number: 134107 Published: APR 20 2015
47. Murthy, J. Krishna; Chandrasekhar, K. Devi; Murugavel, S.; et al.
Investigation of the intrinsic magnetodielectric effect in $\text{La}_2\text{CoMnO}_6$: role of magnetic disorder
JOURNAL OF MATERIALS CHEMISTRY C Volume: 3 Issue: 4 Pages: 836-843 Published: 2015
46. Mandal, PR (Mandal, P. R.); Sahoo, RC (Sahoo, R. C.); Nath, TK (Nath, T. K.)
A comparative study of structural, magnetic, dielectric behaviors and impedance spectroscopy for bulk and nanometric double perovskite $\text{Sm}_2\text{CoMnO}_6$
MATERIALS RESEARCH EXPRESS Volume: 1 Issue: 4 Article Number: 046108 DOI: 10.1088/2053-1591/1/4/046108 Published: DEC 2014
45. Liu, Wenjie; Shi, Lei; Zhou, Shiming; et al.
Griffiths phase, spin-phonon coupling, and exchange bias effect in double perovskite $\text{Pr}_2\text{CoMnO}_6$
JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 19 Article Number: 193901 Published: NOV 21 2014
44. Han, Lin; Bai, Yijia; Liu, Xiaojuan; et al.
Synthesis, structure and dielectric properties of new ordering perovskites LnPbMgSbO_6 (Ln = La, Pr, Nd)
SOLID STATE SCIENCES Volume: 36 Pages: 8-15 Published: OCT 2014
43. Kumar, Dharendra; Kumar, Satish; Sathe, Vasant G.
Spin-phonon coupling in ordered double perovskites $\text{A}_2(\text{CoMnO})_6$ (A=La, Pr, Nd) probed by micro-Raman spectroscopy
SOLID STATE COMMUNICATIONS 194, pp. 59-64 SEP 2014
42. Ghosh, Binita; Halder, Saswata; Sinha, Tripurari Prasad
Dielectric Relaxation and Collective Vibrational Modes of Double-Perovskites A_2SmTaO_6 (A = Ba, Sr and Ca)
JOURNAL OF THE AMERICAN CERAMIC SOCIETY 97 (8), pp. 2564-2572 AUG 2014
41. Manna, Kaustuv; Bhadram, Venkata Srinu; Elizabeth, Suja; et al.
Octahedral distortion induced magnetic anomalies in $\text{LaMn}_{0.5}\text{Co}_{0.5}\text{O}_3$ single crystals
JOURNAL OF APPLIED PHYSICS 116 (4), Art. No. 043903 JUL 28 2014
40. Basistyy, R.; Stanislavchuk, T. N.; Sirenko, A. A.; et al.
Infrared-active optical phonons and magnetic excitations in the hexagonal manganites RMnO_3 (R = Ho, Er, Tm, Yb, and Lu)
PHYSICAL REVIEW B 90 (2), Art. No. 024307 JUL 23 2014
39. Apostolov, A. T.; Apostolova, I. N.; Wesselinowa, J. M.
The magnetoelectric effect in thin films of ferromagnetic semiconductor $\text{La}_2\text{NiMnO}_6$
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 251 (6), pp. 1219-1224 JUN 2014
38. El Amrani, M.; Zaghrioui, M.; Ta Phuoc, V.; et al.
Local symmetry breaking and spin-phonon coupling in SmCrO_3 orthochromite
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 361, pp. 1-6 JUN 2014

37. Kumar, Pradeep; Ghara, Somnath; Rajeswaran, B.; et al.
Temperature dependent magnetic, dielectric and Raman studies of partially disordered $\text{La}_2\text{NiMnO}_6$
SOLID STATE COMMUNICATIONS 184, pp. 47-51 APR 2014
36. Garcia-Flores, A. F.; Terashita, H.; Bittar, E. M.; et al.
Raman scattering in the magnetically frustrated double perovskite Sr_2YRuO_6
JOURNAL OF RAMAN SPECTROSCOPY 45 (2), pp. 193-196 FEB 2014
35. Ghosh, Binita; Dutta, Alo; Shannigrahi, Santiranjana; et al.
Combined XPS and first principles study of double-perovskite $\text{Ca}_2\text{GdTaO}_6$
JOURNAL OF MATERIALS SCIENCE 49 (2), pp. 819-826 JAN 2014
34. Ghosh, Binita; Dutta, Alo; Sinha, T. P.
Vibrational modes and electrical transport in $\text{Sr}_2\text{GdTaO}_6$
MATERIALS CHEMISTRY AND PHYSICS 143 (1), 26-33 DEC 16 2013
33. Silva, R. X.; Reichlova, H.; Marti, X.; et al.
Spin-phonon coupling in $\text{Gd}(\text{Co}_{1/2}\text{Mn}_{1/2})\text{O}_3$ perovskite
JOURNAL OF APPLIED PHYSICS 114 (19), Art. No. 194102 NOV 21 2013
32. Macedo Filho, Raimundo Bezerra; Ayala, Alejandro Pedro; de Araujo Paschoal, Carlos William
Spin-phonon coupling in Y_2NiMnO_6 double perovskite probed by Raman spectroscopy
APPLIED PHYSICS LETTERS 102 (19), 192902, MAY 13 2013
31. Milenov, T. I.; Rafailov, P. M.; Urcelay-Olabarria, I.; et al.
Magnetic behavior of $\text{La}_2\text{CoMnO}_6$ -delta crystal doped with Pb and Pt
MATERIALS RESEARCH BULLETIN 47 (12), 4001-4005 DEC 2012
30. Bai, YJ, Xia, YJ.; Li, HP, Han, L, Wang, ZC, Wu, X, Lv, SH, Liu, XJ, Meng, J
A-Site-Doping Enhanced B-Site Ordering and Correlated Magnetic Property in $\text{La}_2\text{-xBixCoMnO}_6$
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 116 Issue: 32 Pages: 16841-16847 DOI: 10.1021/jp302735x Published: AUG 16 2012
29. Mishra, Dileep K.; Sathe, V. G.
Evidence of the Fano resonance in a temperature dependent Raman study of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ and $\text{SrCu}_3\text{Ti}_4\text{O}_{12}$
JOURNAL OF PHYSICS-CONDENSED MATTER 24 (25) Article Number: 252202, JUN 27 2012.
28. Bai, Yijia; Liu, Xiaojuan; Xia, Yanjie; et al.
B-site ordering induced suppression of magnetic cluster glass and dielectric anomaly in $\text{La}_2\text{-xBixCoMnO}_6$
APPLIED PHYSICS LETTERS 100 (22) Article Number: 222907, MAY 28 2012.
27. Garcia-Flores, A. F.; Moreira, A. F. L.; Kaneko, U. F.; et al.
Spin-Electron-Phonon Excitation in Re-based Half-Metallic Double Perovskites
PHYSICAL REVIEW LETTERS 108 (17) Article Number: 177202, APR 25 2012.
26. Gu Yijing; Wang Yunfeng; Wang Tao; et al.
Structure and current-induced effect on the resistivity of $\text{La}_2\text{CoMnO}_6$ thin films
MATERIALS CHEMISTRY AND PHYSICS 132 (2-3), 466-470, FEB 15 2012.
25. Zhu Min; Lin Yong; Lo Edward W. C.; et al.
Electronic and magnetic properties of $\text{La}_2\text{NiMnO}_6$ and $\text{La}_2\text{CoMnO}_6$ with cationic ordering
APPLIED PHYSICS LETTERS 100 (6) Article Number: 062406, FEB 6 2012.
24. Zhang Zhiqing; Jian Hongbin; Tang Xianwu; et al.
Structural, magnetic and dielectric properties of $\text{La}_2(\text{NiMnO}_6)$ thin film by chemical solution deposition method
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY 61 (1), 224-228, JAN 2012.
23. Nair Harikrishnan S.; Swain Diptikanta; Hariharan N.; et al.
Griffiths phase-like behavior and spin-phonon coupling in double perovskite $\text{Tb}_2(\text{NiMnO}_6)$
JOURNAL OF APPLIED PHYSICS 110 (12) Article Number: 123919, DEC 15 2011.
22. Gu Yijing; Wang Yunfeng; Wang Tao; et al.
Synthesis, structural and magnetic study of polycrystalline $\text{LaNi}_{1-x}\text{Mn}_x\text{O}_3$ films
PHYSICA B-CONDENSED MATTER 406 (14) Pages: 2876-2879, JUL 15 2011.
21. Singh M. P.; Truong K. D.; Jandl S.; et al.
Magnetic properties and phonon behavior of $\text{Pr}_2(\text{NiMnO}_6)$ thin films
APPLIED PHYSICS LETTERS 98 (16) Article Number: 162506, APR 18 2011.
20. Viswanathan M.; Hsieh H. H.; Lin H. -J.; et al.
Investigation on the Magnetic Anomaly and the Role of Orbital Moment on the Magnetic Properties of $\text{LaMn}_{0.5}\text{Co}_{0.5}\text{O}_3$
JOURNAL OF PHYSICAL CHEMISTRY C 115 (11) Pages: 4851-4855, MAR 24 2011.
19. Truong K. D.; Singh M. P.; Jandl S.; et al.
Investigation of phonon behavior in $\text{Pr}_2(\text{NiMnO}_6)$ by micro-Raman spectroscopy

18. Moreira, A.F.L., García-Flores, A.F., Granado, E., Massa, N.E., Pinacca, R.M., Pedregosa, J.C., Carbonio, R.E., (...), Echegut, P.
Raman and infrared spectroscopy of Sr(2)B ' UO(6) (B ' = Ni; Co) double perovskites
VIBRATIONAL SPECTROSCOPY 54 (2) Pages: 142-147, NOV 18 2010.
17. Zhao, H., Kimura, H., Cheng, Z., Wang, X., Ozawa, K., Nishida, T.
Magnetic properties of La doped Bi(2)FeMnO(6) ceramic and film
JOURNAL OF APPLIED PHYSICS 108 (9) Article Number: 093903, NOV 1 2010.
16. Viswanathan, M., Anil Kumar, P.S., Bhadram, V.S., Narayana, C., Bera, A.K., Yusuf, S.M.
Influence of lattice distortion on the Curie temperature and spin-phonon coupling in LaMn0.5Co0.5O3
Journal of Physics Condensed Matter 22 (34), art. no. 346006, SEP 1 2010.
15. Singh M. P.; Truong K. D.; Jandl S.; et al.
Phase formation, phonon behavior, and magnetic properties of novel ferromagnetic La(3)BaMnO(9) (B=Co or Ni) triple perovskites
JOURNAL OF APPLIED PHYSICS 107 (9) Article Number: 09D916, MAY 1 2010.
14. Wang, T., Shi, W., Fang, X., Dong, W., Tao, R.
Fabrication of polycrystalline La2NiMnO6 thin films on Si (1 0 0) substrates by chemical solution deposition
Journal of Sol-Gel Science and Technology 53 (3), pp. 655-659, MAR 2010.
13. Singh, M.K., Prellier, W., Jang, H.M., Katiyar, R.S.
Anomalous magnetic ordering induced spin-phonon coupling in BiFeO3 thin films
SOLID STATE COMMUNICATIONS Volume: 149 Issue: 43-44 Pages: 1971-1973 DOI: 10.1016/j.ssc.2009.07.036 Published: NOV 2009
12. Truong, K.D., Singh, M.P., Jandl, S., Fournier, P.
Influence of Ni/Mn cation order on the spin-phonon coupling in multifunctional La2NiMnO6 epitaxial films by polarized Raman spectroscopy
PHYSICAL REVIEW B Volume: 80 Issue: 13 Article Number: 134424 DOI: 10.1103/PhysRevB.80.134424 Published: OCT 2009
11. Singh, M.P., Truong, K.D., Jandl, S., Fournier, P.
Long-range Ni/Mn structural order in epitaxial double perovskite La2NiMnO6 thin films
PHYSICAL REVIEW B Volume: 79 Issue: 22 Article Number: 224421 DOI: 10.1103/PhysRevB.79.224421 Published: JUN 2009
10. Singh, M.P., Truong, K.D., Fournier, P., Rauwel, P., Rauwel, E., Carignan, L.P., Ménard, D.
A radical approach to promote multiferroic coupling in double perovskites
Journal of Magnetism and Magnetic Materials 321 (11), pp. 1743-1747 (2009).
9. Tong, W., Yoon, W.-S., Hagh, N.M., Amatucci, G.G.
A novel silver molybdenum oxyfluoride perovskite as a cathode material for lithium batteries
Chemistry of Materials 21 (10), pp. 2139-2148 (2009).
8. Singh, M.P., Truong, K.D., Jandl, S., Fournier, P.
Stabilization and functional properties of La3NiAlMnO9 and La3CoAlMnO9 magnetoelectric triple perovskites
Applied Physics Letters 94 (17), art. no. 171908 (2009).
7. Wang, T., Xu, W., Fang, X., Dong, W., Tao, R., Li, D., Zhao, Y., Zhu, X.
Chemical solution deposition preparation of double-perovskite La2NiMnO6 film on LaAlO3 (0 0 1) substrate
Journal of Alloys and Compounds 475 (1-2), pp. 9-12 (2009).
6. Sheets, W.C., Smith, A.E., Subramanian, M.A., Prellier, W.
Effect of oxygen concentration on the structural and magnetic properties of LaRh1/2Mn1/2O3 thin films
Journal of Applied Physics 105 (2), art. no. 023915 (2009).
5. Andreasson, J., Holmlund, J., Rauer, R., Käll, M., Börjesson, L., Knee, C.S., Eriksson, A.K., (...), Chaudhury, R.P.
Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution
Physical Review B - Condensed Matter and Materials Physics 78 (23), art. no. 235103 (2008).
4. Wang, T., Fang, X., Dong, W., Tao, R., Deng, Z., Li, D., Zhao, Y., (...), Zhu, X.
Fabrication of polycrystalline La2NiMnO6 thin films on LaAlO3 (1 0 0) substrates by chemical solution deposition
Journal of Crystal Growth 310 (14), pp. 3386-3390 (2008).
3. Singh, M.P., Truong, K.D., Laverdière, J., Charpentier, S., Jandl, S., Fournier, P.
Cationic ordering and role of A -site ion in manganese-based double perovskites
Journal of Applied Physics 103 (7), art. no. 07E315 (2008).
2. Ranjith, R., Kundu, A.K., Filippi, M., Kundys, B., Prellier, W., Raveau, B., Laverdière, J., (...), Jandl, S.
Ferromagnetism and magnetodielectric effect in insulating LaBiMn43Co23O6 thin films
Applied Physics Letters 92 (6), art. no. 062909 (2008).
1. Truong KD, Laverdière J, Singh MP, et al.
Impact of Co/Mn cation ordering on phonon anomalies in La2CoMnO6 double perovskites: Raman spectroscopy
PHYSICAL REVIEW B 76 (13), 132413 (2007).

63. *“Design of new gold catalysts supported on mechanochemically activated ceria-alumina, promoted by molybdena for complete benzene oxidation”*

D. Andreeva, P. Petrova, L. Ilieva, J.W. Sobczak and M.V. Abrashev

Applied Catalysis B: Environmental 77 (3-4), 364-372 (2008).

16. Centeno, M.A., Reina, T.R., Ivanova, S., Laguna, O.H., Odriozola, J.A.
Au/CeO₂ catalysts: Structure and CO oxidation activity
Catalysts 6(10), Art.No. A15 DOI: 10.3390/catal6100158 (2016)
15. Mitran, G., Pavel, O.D., Mieritz, D.G., Seo, D.-K., Florea, M.
Effect of Mo/Ce ratio in Mo-Ce-Al catalysts on the hydrogen production by steam reforming of glycerol
Catalysis Science and Technology 6(21), 7902-7912 DOI: 10.1039/c6cy00999a (2016)
14. Kaminski, P., Ziolk, M.
Mobility of gold, copper and cerium species in Au, Cu/Ce, Zr-oxides and its impact on total oxidation of methanol
APPLIED CATALYSIS B-ENVIRONMENTAL Volume: 187 Pages: 328-341 DOI: 10.1016/j.apcatb.2016.01.040 Published: JUN 15 2016
13. Jiang, F., Chen, H., Zheng, S.
Catalytic combustion of ethyl acetate on Al₂O₃ supported chromia catalysts
Indoor Air 2014 - 13th International Conference on Indoor Air Quality and Climate, 134-136 (2014)
12. Laguna, O.H., Domínguez, M.I., Romero-Sarria, F., Odriozola, J.A., Centeno, M.A.
Role of oxygen vacancies in gold oxidation catalysis
RSC Catalysis Series 2014-January(18), 489-511 (2014)
11. Gao Lin-Xin; Jiang Xin; Guo Sen
MnOx/CeO₂/SiO₂ Catalysts Prepared by Adsorption Phase Reaction Technique for Selective Catalytic Reduction of NO_x at Low-Temperature
ACTA PHYSICO-CHIMICA SINICA 30 (7), pp. 1303-1308 JUL 2014
10. Xing, T., Wan, H., Shao, Y., Han, Y., Xu, Z., Zheng, S.
Catalytic combustion of benzene over γ -alumina supported chromium oxide catalysts
Applied Catalysis A: General 468, pp. 269-275, 2013
9. Long, Baihua; Huang, Jianhui; Wang, Xinchun
Photocatalytic degradation of benzene in gas phase by nanostructured BiPO₄ catalysts
PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL 22 (6), 645-654, DEC 2012
8. Bazin, P., Marie, O., Daturi, M.
Operando IR spectroscopy study of catalytic materials for pollution treatment of vehicle cockpits: Evidence of the active sites, intermediate/spectator species and reaction mechanisms
Materiaux et Techniques 100 (3) , pp. 201-210, 2012.
7. Jiang, X., Deng, H.
Synthesis of Au-CeO₂/SiO₂ catalyst via adsorbed-layer reactor technique combined with alcohol-thermal treatment
Applied Surface Science 257 (24), pp. 10883-10887, 2011.
6. Bonelli R.; Albonetti S.; Morandi V.; et al.
Design of nano-sized FeO(x) and Au/FeO(x) catalysts supported on CeO(2) for total oxidation of VOC
APPLIED CATALYSIS A-GENERAL 395 (1-2) Pages: 10-18, MAR 15 2011.
5. Carolina Gomez-Carrillo Sandra; Guillermo Bolcatto Pablo
Coexistence of root 3 x root 3 and quasi-linear phases of sulfur adsorbed (Theta=1/3) on a gold (111) substrate
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 13 (2) Pages: 461-466, 2011.
4. Rousseau Severine; Marie Olivier; Bazin Philippe; et al.
Investigation of Methanol Oxidation over Au/Catalysts Using Operando IR Spectroscopy: Determination of the Active Sites, Intermediate/Spectator Species, and Reaction Mechanism
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 132 (31) Pages: 10832-10841, AUG 11 2010.
3. Hu, C., Zhu, Q., Chen, L., Wu, R.
CuO-CeO₂ binary oxide nanoplates: Synthesis, characterization, and catalytic performance for benzene oxidation
Materials Research Bulletin 44 (12), pp. 2174-2180 (2009).
2. Naknam, P., Luengnaruemitchai, A., Wongkasemjit, S.
Preferential CO oxidation over Au/ZnO and Au/ZnO-Fe₂O₃ catalysts prepared by photodeposition
International Journal of Hydrogen Energy 34 (24), pp. 9838-9846 (2009).
1. Jianhui, H., Kaining, D., Xinchun, W., Xianzhi, F.
Nanostructuring cadmium germanate catalysts for photocatalytic oxidation of benzene at ambient conditions
Langmuir 25 (14), pp. 8313-8319 (2009).

64. "Gold catalysts on doped by lanthanides ceria for pure hydrogen production"
D. Andreeva, I. Ivanov, J. W. Sobczak, W. Lisowski, P. Petrova, M. V. Abrashev, and L. Ilieva
Current Topics in Catalysis **7**, 33-41 (2008).
65. "Gold catalysts supported on ceria doped by rare earth metals for water gas shift reaction: Influence of the preparation method"
Andreeva, D., Ivanov, I., Ilieva, L., Abrashev, M.V., Zanella, R., Sobczak, J.W., Lisowski, W., Kantcheva M., Avdeev G., and Petrov, K.
Applied Catalysis A: General **357**(2) 159–169 (2009).
51. Methanol reforming by nanostructured Pd/Sm-doped ceria catalysts
Kosinski, M. R.; Vizcaino, A. J.; Gomez-Sainero, L. M.; et al.
APPLIED CATALYSIS B-ENVIRONMENTAL Volume: 286 Article Number: 119935 Published: JUN 5 2021
50. A review of recent advances in water-gas shift catalysis for hydrogen production
Ebrahimi, Parisa; Kumar, Anand; Khraisheh, Majeda
EMERGENT MATERIALS Volume: 3 Issue: 6 Pages: 881-917 Published: DEC 2020
49. Nontraditional Catalyst Supports in Surface Organometallic Chemistry
Witzke, Ryan J.; Chapovetsky, Alon; Conley, Matthew P.; et al.
ACS CATALYSIS Volume: 10 Issue: 20 Pages: 11822-11840 Published: OCT 16 2020
48. Defect Chemistry of Ceria Nanostructures and Their Applications in Heterogeneous Catalysis
Yuan, K., Zhang, Y.
Zhongguo Xitu Xuebao/Journal of the Chinese Rare Earth Society **38**(3), pp. 326-344 (2020)
47. Heterogeneous Gold Catalysis: From Discovery to Applications
Alshammari, Ahmad S.
CATALYSTS Volume: 9 Issue: 5 Article Number: 402 Published: MAY 2019
46. Recent Advances in the Gold-Catalysed Low-Temperature Water-Gas Shift Reaction
Carter, James H.; Hutchings, Graham J.
CATALYSTS Volume: 8 Issue: 12 Article Number: 627 Published: DEC 2018
45. Ambient temperature aqueous synthesis of ultrasmall copper doped ceria nanocrystals for the water gas shift and carbon monoxide oxidation reactions
Curran, Christopher D.; Lu, Li; Kiely, Christopher J.; et al.
JOURNAL OF MATERIALS CHEMISTRY A Volume: 6 Issue: 1 Pages: 244-255 Published: JAN 7 2018
44. Temperature-programmed reduction of lightly yttrium-doped Au/CeO₂ catalysts Correlation between oxygen mobility and WGS activity
Munteanu, G.; Petrova, P.; Ivanov, I.; et al.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 131 Issue: 1 Pages: 145-154 Published: JAN 2018
43. Preparation and characterization of Ce_{1-x}Pr_xO₂ supports and their catalytic activities
Chanapattarapol, Kingkaew Chayakul; Krachumram, Somkiat; Makdee, Ammarika; et al.
JOURNAL OF RARE EARTHS Volume: 35 Issue: 12 Pages: 1197-1205 Published: DEC 2017
42. Oh, Jiwoo; Do Yoo, Jeong; Kim, Keunsoo; et al.
Negative Effects of Dopants on Copper-Ceria Catalysts for CO Preferential Oxidation Under the Presence of CO₂ and H₂O
CATALYSIS LETTERS Volume: 147 Issue: 12 Pages: 2987-3003 Published: DEC 2017
41. Genty, Eric; Jacobs, Luc; de Bocarme, Thierry Visart; et al.
Dynamic Processes on Gold-Based Catalysts Followed by Environmental Microscopies
CATALYSTS Volume: 7 Issue: 5 Article Number: 134 Published: MAY 2017
40. Yang, Nan; Orgiani, Pasquale; Di Bartolomeo, Elisabetta; et al.
Effects of Dopant Ionic Radius on Cerium Reduction in Epitaxial Cerium Oxide Thin Films
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 121 Issue: 16 Pages: 8841-8849 Published: APR 27 2017
39. Izquierdo, U.; Neuberg, S.; Pecov, S.; et al.
Hydrogen production with a microchannel heat-exchanger reactor by single stage water-gas shift; catalyst development
CHEMICAL ENGINEERING JOURNAL Volume: 313 Pages: 1494-1508 Published: APR 1 2017
38. He, RX (He Runxia); Wang, DD (Wang Dandan); Zhi, KD (Zhi Keduan); Wang, B (Wang Bin); Zhong, HC (Zhong Huacong); Jiang, HQ (Jiang Haoqiang); Li, N (Li Na); Liu, QS (Liu Quansheng)
Cu-Mn catalysts modified by rare earth lanthanum for low temperature water-gas shift reaction
JOURNAL OF RARE EARTHS Volume: 34 Issue: 10 Pages: 994-1003 DOI: 10.1016/S1002-0721(16)60126-6 Published: OCT 2016
37. Bilkova, I., Sobczak, I., Decyk, P., Ziolk, M., Whitten, J.E.
The effect of zinc and copper in gold catalysts supported on MCF cellular foams on surface properties and catalytic activity in methanol oxidation
MICROPOROUS AND MESOPOROUS MATERIALS Volume: 232 Pages: 97-108 DOI: 10.1016/j.micromeso.2016.06.008 Published: SEP 15 2016

36. Jaoude, MA.; Polychronopoulou, K, Hinder, SJ, Katsiotis, MS, Baker, MA, Greish, YE, Alhassan, SM
Synthesis and properties of 1D Sm-doped CeO₂ composite nanofibers fabricated using a coupled electrospinning and sol-gel methodology
CERAMICS INTERNATIONAL Volume: 42 Issue: 9 Pages: 10734-10744 DOI: 10.1016/j.ceramint.2016.03.197 Published: JUL 2016
35. Montini, T., Melchionna, M., Monai, M., Fornasiero, P.
Fundamentals and Catalytic Applications of CeO₂-Based Materials
CHEMICAL REVIEWS Volume: 116 Issue: 10 Pages: 5987-6041 DOI: 10.1021/acs.chemrev.5b00603 Published: MAY 25 2016
34. Liberman, E.Yu., Naumkin, A.V., Mikhailichenko, A.I., Batrakova, M.K., Maslakov, K.I., Revina, A.A., Papkova, M.V., Kon'Kova, T.V., Grunskii, V.N., Gasparyan, M.D., Karpovich, A.L., Lizunova, A.A.
Au/Ce_{0.72}Zr_{0.18}Pr_{0.10}O₂ nanodisperse catalyst for oxidation of carbon monoxide
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A Volume: 90 Issue: 1 Pages: 166-172 DOI: 10.1134/S0036024416010167
Published: JAN 2016
33. Liao, W., Lv, H., Suo, Z.
The action of VO_x doping on Au/CeO₂ catalysts for CO oxidation and water-gas shift reaction
REACTION KINETICS MECHANISMS AND CATALYSIS Volume: 116 Issue: 2 Pages: 491-506 DOI: 10.1007/s11144-015-0921-5
Published: DEC 2015
32. Sultana, S.S.P., Kishore, D.H.V., Kuniyil, M., Khan, M., Alwarthan, A., Prasad, K.R.S., Labis, J.P., Adil, S.F.
Ceria doped mixed metal oxide nanoparticles as oxidation catalysts: Synthesis and their characterization
ARABIAN JOURNAL OF CHEMISTRY Volume: 8 Issue: 6 Pages: 766-770 DOI: 10.1016/j.arabjc.2015.05.008 Published: NOV 2015
31. Ma, Z (Ma, Zhen); Tao, F (Tao, Franklin (Feng)); Gu, XL (Gu, Xiaoli)
DEVELOPMENT OF NEW GOLD CATALYSTS FOR REMOVING CO FROM H-2
HETEROGENEOUS CATALYSIS AT NANOSCALE FOR ENERGY APPLICATIONS Pages: 217-238 Published: 2015
30. Gradisher, Logan; Dutcher, Bryce; Fan, Maohong
Catalytic hydrogen production from fossil fuels via the water gas shift reaction
APPLIED ENERGY Volume: 139 Pages: 335-349 Published: FEB 1 2015
29. Deng, Changshun; Li, Bin; Dong, Lihui; et al.
NO reduction by CO over CuO supported on CeO₂-doped TiO₂: the effect of the amount of a few CeO₂
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 17 Issue: 24 Pages: 16092-16109 Published: 2015
28. Zhang, Yashan; Jin, Lei; Sterling, Kevin; et al.
Potassium modified layered Ln(2)O(2)CO(3) (Ln: La, Nd, Sm, Eu) materials: efficient and stable heterogeneous catalysts for biofuel production
GREEN CHEMISTRY Volume: 17 Issue: 6 Pages: 3600-3608 Published: 2015
27. Correia Carabineiro, S.A.
Synthesis and applications of gold nanoparticles
Advances in Nanotechnology 12, 95-122 (2014)
26. He, Geping; Fan, Huiqing; Wang, Zhiwei
Enhanced optical properties of heterostructured ZnO/CeO₂ nanocomposite fabricated by one-pot hydrothermal method: Fluorescence and ultraviolet absorption and visible light transparency
OPTICAL MATERIALS Volume: 38 Pages: 145-153 Published: DEC 2014
25. Odabasi, Cagla; Gunay, M. Erdem; Yildirim, Ramazan
Knowledge extraction for water gas shift reaction over noble metal catalysts from publications in the literature between 2002 and 2012
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 39 (11), pp. 5733-5746 APR 4 2014
24. Chen, Guangliang; Xue, Fei; Chen, Zhili; et al.
FABRICATING WELL-DISPERSED NANOSIZED GOLD CATALYST ON TITANATE NANOWIRES SURFACE FOR 4-NITROPHENOL REDUCTION
NANO 9 (3), Art. No. 1450039 APR 2014
23. He Runxia; Jiang Haoqiang; Wu Fang; et al.
Effect of doping rare earth oxide on performance of copper-manganese catalysts for water-gas shift reaction
JOURNAL OF RARE EARTHS 32 (4), pp. 298-305 APR 2014
22. Deshpande, P.A., Madras, G.
Catalytic Synthesis of CO Free Hydrogen
New and Future Developments in Catalysis 223-252 DOI: 10.1016/B978-0-444-53882-6.00009-7 (2013)
21. Carabineiro, S.A.C.
Synthesis and applications of gold nanoparticles
Gold Nanoparticles: Synthesis, Optical Properties and Applications for Cancer Treatment 1-37 (2013)
20. Delgado, JJ, del Rio, E, Chen, XW.; Blanco, G.; Pintado, JM, Bernal, S, Calvino, JJ
UNDERSTANDING CERIA-BASED CATALYTIC MATERIALS: AN OVERVIEW OF RECENT PROGRESS
CATALYSIS BY CERIA AND RELATED MATERIALS, 2ND EDITION Book Series: Catalytic Science Series Volume: 12 Pages: 47-138 Published: 2013

19. Tao, F., Ma, Z.
Water-gas shift on gold catalysts: Catalyst systems and fundamental studies
Physical Chemistry Chemical Physics 15 (37), pp. 15260-15270, 2013
18. Ivanov, I., Petrova, P., Georgiev, V., Batakliiev, T., Karakirova, Y., Serga, V., Kulikova, L., (...), Rakovsky, S.
Comparative study of ceria supported nano-sized platinum catalysts synthesized by extractive-pyrolytic method for Low-Temperature WGS reaction
Catalysis Letters 143 (9), pp. 942-949, 2013
17. He, G., Fan, H., Wang, K., Yin, H., Wu, J.
The heterostructured AAO/CeO₂ nanosystem fabricated by electrodeposition for charge storage and hydrophobicity
Materials Science and Engineering B: Solid-State Materials for Advanced Technology 178 (17), pp. 1140-1146, 2013
16. Del Río, E., López-Haro, M., Cies, J.M., Delgado, J.J., Calvino, J.J., Trasobares, S., Blanco, G., (...), Bernal, S.
Dramatic effect of redox pre-treatments on the CO oxidation activity of Au/Ce_{0.50}Tb_{0.12}Zr_{0.38}O_{2-x} catalysts prepared by deposition-precipitation with urea: A nano-analytical and nano-structural study
Chemical Communications 49 (60), pp. 6722-6724, 2013
15. Liu, X., Guo, P., Wang, B., Jiang, Z., Pei, Y., Fan, K., Qiao, M.
A comparative study of the deactivation mechanisms of the Au/CeO₂ catalyst for water-gas shift under steady-state and shutdown/start-up conditions in realistic reformat
Journal of Catalysis 300, pp. 152-162, 2013
14. Alijani, A., Irankhah, A.
Effect of Nickel Addition on Ceria-Supported Platinum Catalysts for Medium-Temperature Shift Reaction in Fuel Processors
Chemical Engineering and Technology 36 (4), pp. 552-558, 2013
13. Alijani, A., Irankhah, A.
Medium-Temperature Shift Catalysts for Hydrogen Purification in a Single-Stage Reactor
Chemical Engineering and Technology 36 (2), pp. 209-219, 2013
12. Reddy, E.L., Prabhakam, A., Karuppiiah, J., Rameshbabu, N., Subrahmanyam, C.H.
Gold supported calcium deficient hydroxyapatite for room temperature co oxidation
International Journal of Nanoscience 11 (3), art. no. 1240004, 2012.
11. Spivey, J.J.
GasifDeactivation of Reforming Catalysts
FUEL CELLS: TECHNOLOGIES FOR FUEL PROCESSING Pages: 285-315 DOI: 10.1016/B978-0-444-53563-4.10011-2 Published: 2011
10. Pinto, F., André, R., Costa, P., Carolino, C., Lopes, H., Gulyurtlu, I.
Gasification Technology and Its Contribution to Deal with Global Warming
SOLID BIOFUELS FOR ENERGY: A LOWER GREENHOUSE GAS ALTERNATIVE Book Series: Green Energy and Technology
Pages: 151-175 DOI: 10.1007/978-1-84996-393-0_7 Published: 2011
9. Caglayan Burcu Selen; Aksoylu A. Erhan
Water-gas shift activity of ceria supported Au-Re catalysts
CATALYSIS COMMUNICATIONS 12 (13) Pages: 1206-1211, JUL 26 2011.
8. Lenite Brenno A.; Galletti Camilla; Specchia Stefania
Studies on Au catalysts for water gas shift reaction
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 36 (13) Pages: 7750-7758, JUL 2011.
7. Yu Qiangqiang; Li Yang; Zou Xuhua; et al.
Effect of Alkali Metal Promoters on Water-Gas Shift Activity over Au-Pt/CeO₂ Catalyst
CHINESE JOURNAL OF CATALYSIS 31 (6) Pages: 671-676, JUN 2010.
6. Hernández, W.Y., Romero-Sarria, F., Centeno, M.A., Odriozola, J.A.
In situ characterization of the dynamic gold-support interaction over ceria modified Eu³⁺. Influence of the oxygen vacancies on the co oxidation reaction
Journal of Physical Chemistry C 114 (24), pp. 10857-10865 (2010).
5. Ma, Z., Yin, H., Dai, S.
Performance of Au/M x Oy/TiO₂ Catalysts in water-gas shift reaction
Catalysis Letters 136 (1-2), pp. 83-91 (2010).
4. Bali, S., Huggins, F.E., Ernst, R.D., Pugmire, R.J., Huffman, G.P., Eyring, E.M.
Iron-ceria aerogels doped with palladium as water-gas shift catalysts for the production of hydrogen
Industrial and Engineering Chemistry Research 49 (4), pp. 1652-1657 (2010).
3. Delannoy, L., Fajewerg, K., Lakshmanan, P., Potvin, C., Méthivier, C., Louis, C.
Supported gold catalysts for the decomposition of VOC: Total oxidation of propene in low concentration as model reaction
Applied Catalysis B: Environmental 94 (1-2), pp. 117-124 (2010).
2. Duarte de Farias, A.M., Nguyen-Thanh, D., Fraga, M.A.
Discussing the use of modified ceria as support for Pt catalysts on water-gas shift reaction

- Applied Catalysis B: Environmental 93 (3-4), pp. 250-258 (2010).
1. Yang, S., Zhan, Y., Chen, C., Cao, Y., Lin, X., Zheng, Q.
Effect of rare earth oxide on the catalytic performance of Au/CeO₂ catalyst for water-gas shift reaction
Cuihua Xuebao / Chinese Journal of Catalysis 30 (7), pp. 666-672 (2009).
66. *“Growth and characterization of large La_{1-x}Pb_xMnO_{3+δ} (x=0.32-0.35) crystals”*
Milenov, T.I., Rafailov, P.M., Abrashev, M.V., Nikolova, R.P., Titorenkova, R., Gospodinov, M.M.
Crystal Research and Technology **44** (11), pp. 1192-1196 (2009).
2. Ewas, Ashraf M.; Hamad, Mahmoud A
Large magnetocaloric effect of La_{0.67}Pb_{0.33}Mn_{1-x}CoxO₃ in small magnetic field variation
CERAMICS INTERNATIONAL Volume: 43 Issue: 10 Pages: 7660-7662 Published: JUL 2017
1. Blagoev, B.S., Terzieva, S.D., Nurgaliev, T.K., Shivachev, B.L., Zaleski, A.J., Mikli, V., Staneva, A.D., Stoyanova-Ivanova, A.K.
Magnetic and transport characteristics of oxygenated polycrystalline La_{0.6}Pb_{0.4}MnO₃
Journal of Magnetism and Magnetic Materials 329, pp. 34-38, 2013
67. *“Optical phonons of NdBaCo₂O_{5+x}: Lattice dynamics calculations”*
Todorov, N.D., Abrashev, M.V., Ivanov, V.G., Vlahov, E.
AIP Conference Proceedings **1203**, pp. 1003-1006 (2009).
68. *“Raman spectroscopy investigation of magnetite nanoparticles in ferrofluids”*
Slavov, L., Abrashev, M.V., Merodiiska, T., Gelev, Ch., Vandenbergh, R.E., Markova-Deneva, I., Nedkov, I.
Journal of Magnetism and Magnetic Materials **322** (14), pp. 1904-1911 (2010).
144. Magnetic-core-based silibinin nanopolymeric carriers for the treatment of renal cell cancer
Takke, Anjali; Shende, Pravin
LIFE SCIENCES Volume: 275 Article Number: 119377 Published: JUN 15 2021
143. Photocatalytic and antibacterial performance of iron oxide nanoparticles formed by the combustion method
Tharani, K.; Christy, A. Jegatha; Sagadevan, Suresh; et al.
CHEMICAL PHYSICS LETTERS Volume: 771 Article Number: 138524 Published: MAY 16 2021
142. Study of the surface properties and particle-particle interactions in oleic acid-coated Fe₃O₄ nanoparticles
Urian, Y. A.; Atoche-Medrano, J. J.; Quispe, Luis T.; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 525 Article Number: 167686 Published: MAY 1 2021
141. Synthesis and characterization of magnetic wrinkled mesoporous silica nanocomposites containing Fe₃O₄ or CoFe₂O₄ nanoparticles for potential biomedical applications
Flood-Garibay, Jessica Andrea; Mendez-Rojas, Miguel A.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS Volume: 615 Article Number: 126236 Published: APR 20 2021
140. Magnetic iron oxides nanoparticles obtained by mechanochemical reactions from different solid precursors
Bedoya, Pedro A. Calderon; Botta, Pablo M.; Bercoff, Paula G.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 860 Article Number: 157892 Published: APR 15 2021
139. Rietveld Refinement, mu-Raman, X-ray Photoelectron, and Mossbauer Studies of Metal Oxide-Nanoparticles Growth on Multiwall Carbon Nanotubes and Graphene Oxide
Ramos-Guivar, Juan A.; Gonzalez-Gonzalez, J. C.; Litterst, F. Jochen; et al.
CRYSTAL GROWTH & DESIGN Volume: 21 Issue: 4 Pages: 2128-2141 Published: APR 7 2021
138. Numerical simulation of ferrofluid-lubricated rough elliptical contact with start-up motion
Huang, Xingbao; Zhang, Xiao; Wang, Youqiang
APPLIED MATHEMATICAL MODELLING Volume: 91 Pages: 232-260 Published: MAR 2021
137. Effect of surface functionalization on the heating efficiency of magnetite nanoclusters for hyperthermia application
Jamir, Molongnenla; Islam, Riyajul; Pandey, Lalit M.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 854 Article Number: 157248 Published: FEB 15 2021
136. Role of Magnetite Nanoparticles Size and Concentration on Hyperthermia under Various Field Frequencies and Strengths
Narayanaswamy, Venkatesha; Sambasivam, Sangaraju; Saj, Alam; et al.
MOLECULES Volume: 26 Issue: 4 Article Number: 796 Published: FEB 2021
135. A Full Set of In Vitro Assays in Chitosan/Tween 80 Microspheres Loaded with Magnetite Nanoparticles
Rocho-Perez, Jorge A.; Rodriguez-Aguillon, Kassandra O.; Gallardo-Blanco, Hugo L.; et al.
POLYMERS Volume: 13 Issue: 3 Article Number: 400 Published: FEB 2021
134. Correlation between structural evolution and oxidative desulfurization activity for magnetically-recoverable gamma-Fe₂O₃@SiO₂ core-shell-Supported WO_x nanostructure
Piva, Diogenes H.; Piva, Roger H.; Picinini, Monize; et al.

- CATALYSIS COMMUNICATIONS Volume: 148 Article Number: 106182 Published: JAN 5 2021
133. A simple in-situ flame synthesis of nanocomposite (MWCNTs-Fe₂O₃) for electrochemical sensing of proguanil in pharmaceutical formulation
Nate, Zondi; Gill, Atal A. S.; Shinde, Suraj; et al.
DIAMOND AND RELATED MATERIALS Volume: 111 Article Number: 108178 Published: JAN 2021
132. Removal of azo dyes in aqueous solutions using magnetized and chemically modified chitosan beads
Muedas-Taípe, Golfer; Maza Mejia, Ily M.; Santillan, Fatima A.; et al.
MATERIALS CHEMISTRY AND PHYSICS Volume: 256 Article Number: 123595 Published: DEC 1 2020
131. Optimized and scalable synthesis of magnetic nanoparticles for RNA extraction in response to developing countries' needs in the detection and control of SARS-CoV-2
Chacon-Torres, Julio C.; Reinoso, C.; Navas-Leon, Daniela G.; et al.
SCIENTIFIC REPORTS Volume: 10 Issue: 1 Article Number: 19004 Published: NOV 4 2020
130. Synthesis of single-walled carbon nanotubes in rich hydrogen/air flames
Zhang, Cen; Tian, Bo; Chong, Cheng Tung; et al.
MATERIALS CHEMISTRY AND PHYSICS Volume: 254 Article Number: 123479 Published: NOV 1 2020
129. A sustainable two-layer lignin-anodized composite coating for the corrosion protection of high-strength low-alloy steel
Dastpak, Arman; Hannula, Pyy-Mikko; Lundstrom, Mari; et al.
PROGRESS IN ORGANIC COATINGS Volume: 148 Article Number: 105866 Published: NOV 2020
128. Impact of the pulling rate on the redox state and magnetic domains of Fe-Si-O glass ceramic processed by LFZ method
Salehizadeh, S. A.; Ferreira, N. M.; Ivanov, M. S.; et al.
MATERIALS RESEARCH BULLETIN Volume: 131 Article Number: 110972 Published: NOV 2020
127. Synthesis, characterization and catalytic activity of Fe₃O₄@WO₃/SBA-15 on photodegradation of the acid dichlorophenoxyacetic (2,4-D) under UV irradiation
Lima, Maciel S.; Cruz-Filho, Joao F.; Noleto, Luis F. G.; et al.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING Volume: 8 Issue: 5 Article Number: 104145 Published: OCT 2020
126. Thermosensitive Betulinic Acid-Loaded Magnetoliposomes: A Promising Antitumor Potential for Highly Aggressive Human Breast Adenocarcinoma Cells Under Hyperthermic Conditions
Farcas, Claudia Geanina; Dehelean, Cristina; Pinzaru, Iulia Andreea; et al.
INTERNATIONAL JOURNAL OF NANOMEDICINE Volume: 15 Pages: 8175-8200 Published: 2020
125. Recent Advances in Water Treatment Using Graphene-Based Materials
Khaligh, Nader Ghaffari; Johan, Mohd Rafie
MINI-REVIEWS IN ORGANIC CHEMISTRY Volume: 17 Issue: 1 Pages: 74-90 Published: 2020
124. Effects of pulsed laser and plasma interaction on Fe, Ni, Ti, and their oxides for LIBS Raman analysis in extraterrestrial environments
Schroeder, Susanne; Rammelkamp, Kristin; Hanke, Franziska; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 51 Issue: 9 Special Issue: SI Pages: 1667-1681 Published: SEP 2020
123. Investigation of the stability of NiFe-(oxy)hydroxide anodes in alkaline water electrolysis under industrially relevant conditions
Pascuzzi, Marco Etzi Coller; Man, Alex J. W.; Goryachev, Andrey; et al.
CATALYSIS SCIENCE & TECHNOLOGY Volume: 10 Issue: 16 Pages: 5593-5601 Published: AUG 21 2020
122. Use of polyethylenimine functionalised magnetic nanoparticles for gold thiosulfate recovery
Ilankoon, N. D.; Aldrich, C.; Oraby, E. A.; et al.
HYDROMETALLURGY Volume: 195 Article Number: 105375 Published: AUG 2020
121. Engineering nanostructured spinel ferrites by co-substitution for total water electrolysis by preferential exposure of metal cations on the surface
Archana, V. N.; Rastogi, Pankaj Kumar; Thoufeeq, S.; et al.
SUSTAINABLE ENERGY & FUELS Volume: 4 Issue: 8 Pages: 3915-3925 Published: AUG 1 2020
120. Sonosynthesis and characterization of a fluorescent Trojan Horse based on magnetic nanoparticles
Reyman, Dolores; Perez-Ramos, Marina; Diaz-Oliva, Cristina
JOURNAL OF NANOSTRUCTURE IN CHEMISTRY Volume: 10 Issue: 2 Pages: 105-113 Published: JUN 2020
119. Cytotoxic effect of thermosensitive magnetoliposomes loaded with gemcitabine and paclitaxel on human primary breast cancer cells (MGSO-3 line)
Ribeiro, Rita F. L.; Ferreira, Roberta, V.; Pedersoli, Davyston C.; et al.
JOURNAL OF NANOPARTICLE RESEARCH Volume: 22 Issue: 7 Article Number: 172 Published: JUN 17 2020
118. Impact of the magnetic field on 3T3-E1 preosteoblasts inside SMART silk fibroin-based scaffolds decorated with magnetic nanoparticles
Tanasa, Eugenia; Zaharia, Catalin; Hudita, Ariana; et al.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS Volume: 110 Article Number: 110714 Published: MAY 2020
117. Long-Term Sour Corrosion of Carbon Steel in Anoxic Conditions

- Goldman, M.; Noel, J. J.; Shoesmith, D. W.
CORROSION Volume: 76 Issue: 3 Pages: 324-331 Published: MAR 2020
116. Low-cost sugarcane bagasse and peanut shell magnetic-composites applied in the removal of carbofuran and iprodione pesticides
Paola Toledo-Jaldin, Helen; Sanchez-Mendieta, Victor; Blanco-Flores, Alien; et al.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH Volume: 27 Issue: 8 Pages: 7872-7885 Published: MAR 2020
115. Microstructure and chemical stability analysis of magnetic core coated with SILICA and functionalized with silane OTS
Candian Lobato, Natalia Cristina; Ferreira, Angela de Mello; Weidler, Peter Georg; et al.
APPLIED SURFACE SCIENCE Volume: 505 Article Number: 144565 Published: MAR 1 2020
114. Iron oxide nanoparticle core-shell magnetic microspheres: Applications toward targeted drug delivery
Ayyanaar, Srinivasan; Kesavan, Mookkandi Palsamy; Balachandran, Chandrasekar; et al.
NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE Volume: 24 Article Number: 102134 Published: FEB 2020
113. Photo-electrochemical ability of iron oxide nanoflowers fabricated via electrochemical anodization
Mir, Jaffar Farooq; Rubab, S.; Shah, M. A.
CHEMICAL PHYSICS LETTERS Volume: 741 Article Number: 137088 Published: FEB 16 2020
112. Graphene nanoribbons and iron oxide nanoparticles composite as a potential candidate in DNA sensing applications
Rodriguez, B. A. G.; Perez-Caro, M.; Alencar, R. S.; et al.
JOURNAL OF APPLIED PHYSICS Volume: 127 Issue: 4 Article Number: 044901 Published: JAN 31 2020
111. Magnetic Graphene Oxide Composite for the Microextraction and Determination of Benzophenones in Water Samples
Medina, Alejandro; Antonio Casado-Carmona, Francisco; Lopez-Lorente, Angela I.; et al.
NANOMATERIALS Volume: 10 Issue: 1 Article Number: 168 Published: JAN 2020
110. Microstrain analyses of Fe(3)O(4)NPs greenly synthesized using Gardenia jasminoides flower extract, during the photocatalytic removal of a commercial dye
Espinoza-Gomez, Heriberto; Flores-Lopez, Lucia Z.; Alejandra Espinoza, Karla; et al.
APPLIED NANOSCIENCE Volume: 10 Issue: 1 Pages: 127-140 Published: JAN 2020
109. Spin plasmonics and surface enhanced raman spectroscopy in label free biomolecular sensing
Grigorescu, C.E.A.; Iordache, A.-M.; Rusu, M.L., (...), Tonetto, A., Notonier, R.
International Conference on Transparent Optical Networks 2019-July, 8840169 (2019)
108. Improvement of magnetic solvent extraction using functionalized silica coated Fe₃O₄ nanoparticles
Candian Lobato, Natalia Cristina; Ferreira, Angela de Mello; Weidler, Peter Georg; et al.
SEPARATION AND PURIFICATION TECHNOLOGY Volume: 229 Article Number: 115839 Published: DEC 15 2019
107. Simple continuous flow synthesis of linoleic and palmitic acid-coated magnetite nanoparticles
Sawisai, Rotcharin; Wanchanthuek, Ratchaneekorn; Radchatawedchakoon, Widchaya; et al.
SURFACES AND INTERFACES Volume: 17 Article Number: 100344 Published: DEC 2019
106. Photo-Fenton Degradation of RB5 Dye in Aqueous Solution Using Fe Supported on Mexican Natural Zeolite
Domenzain-Gonzalez, Jose; Castro-Arellano, Jose J.; Galicia-Luna, Luis A.; et al.
INTERNATIONAL JOURNAL OF PHOTOENERGY Volume: 2019 Article Number: 4981631 Published: NOV 21 2019
105. In Vitro and In Vivo Antioxidant Activity of the New Magnetic-Cerium Oxide Nanoconjugates
Turin-Moleavin, Ioana-Andreea; Fifere, Adrian; Lungoci, Ana-Lacramioara; et al.
NANOMATERIALS Volume: 9 Issue: 11 Article Number: 1565 Published: NOV 2019
104. Hydrothermal synthesis of Fe₃O₄/TiO₂/g-C₃N₄: Advanced photocatalytic application
Raza, Adil; Shen, Honglie; Haidry, Azhar Ali; et al.
APPLIED SURFACE SCIENCE Volume: 488 Pages: 887-895 Published: SEP 15 2019
103. Synthesis and Characterization of Hydrophilic gamma-Fe₂O₃ Nanoparticles for Biomedical Applications
Malaeru, Teodora; Enescu, Elena; Georgescu, Gabriela; et al.
REVISTA DE CHIMIE Volume: 70 Issue: 6 Pages: 2026-2031 Published: JUN 2019
102. Raman spectroscopy to unravel the magnetic properties of iron oxide nanocrystals for bio-related applications
Testa-Anta, Martin; Ramos-Docampo, Miguel A.; Comesana-Hermo, Miguel; et al.
NANOSCALE ADVANCES Volume: 1 Issue: 6 Pages: 2086-2103 Published: JUN 1 2019
101. Clove and cinnamon: Novel anti-oxidant fuels for preparing magnetic iron oxide particles by the sol-gel auto-ignition method
Bena-Arfa, Basam A. E.; Miranda Salvado, Isabel M.; Ferreira, Jose M. F.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 786 Pages: 71-76 Published: MAY 25 2019
100. Kinetics and mechanism of selenite reduction by zero valent iron under anaerobic condition activated and enhanced by dissolved Fe(II)
Xu, Lin; Huang, Yongheng
SCIENCE OF THE TOTAL ENVIRONMENT Volume: 664 Pages: 698-706 Published: MAY 10 2019
99. Structure, thermal, magnetic and magneto-optical properties of core/shell Fe₃O₄@MoS₂ doped diamagnetic glasses
Chen, Qiuling; Su, Kai; Zhang, Meng

- JOURNAL OF NON-CRYSTALLINE SOLIDS Volume: 511 Pages: 166-176 Published: MAY 1 2019
98. Effects of polyethylene glycol (PEG) on the corrosion inhibition of mild steel by cerium nitrate in chloride solution
Boudelloua, H.; Hamlaoui, Y.; Tifouti, L.; et al.
APPLIED SURFACE SCIENCE Volume: 473 Pages: 449-460 Published: APR 15 2019
97. Biomimetic Mineralization of Magnetic Iron Oxide Nanoparticles Mediated by Bi-Functional Copolypeptides
Liu, Liu; Pu, Ximing; Yin, Guangfu; et al.
MOLECULES Volume: 24 Issue: 7 Article Number: 1401 Published: APR 10 2019
96. Controlling the transverse proton relaxivity of magnetic graphene oxide
Thapa, Bibek; Diaz-Diestra, Daysi; Badillo-Diaz, Dayra; et al.
SCIENTIFIC REPORTS Volume: 9 Article Number: 5633 Published: APR 4 2019
95. Effects of Nanoscale Structures on Photothermal Heating Behaviors of Surface-Modified Fe₃O₄ Nanoparticles
Sadat, M. E.; Mast, David B.; Sookoor, Jason; et al.
NANO LIFE Volume: 9 Issue: 1-2 Special Issue: SI Article Number: UNSP 1950001 Published: MAR-JUN 2019
94. A novel route to the formation of 3D nanoflower-like hierarchical iron oxide nanostructure
Ali, Ghafar; Park, Yang Jeong; Hussain, Arif; et al.
NANOTECHNOLOGY Volume: 30 Issue: 9 Article Number: 095601 Published: MAR 1 2019
93. Fe₃O₄/BaTiO₃ COMPOSITES WITH CORE-SHELL STRUCTURE
Tanasa, Eugenia; Andronescu, Ecaterina; Cernea, Marin; et al.
UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE
Volume: 81 Issue: 2 Pages: 171-180 Published: 2019
92. ATR-FTIR VERSUS RAMAN SPECTROSCOPY USED FOR STRUCTURAL ANALYSES OF THE IRON OXIDE NANOPARTICLES
Racuciu, M.; Oancea, S.
ROMANIAN REPORTS IN PHYSICS Volume: 71 Issue: 3 Article Number: 507 Published: 2019
91. Remediation of selected heavy metals (Pb, Cd) from fly ash using magnetite nanoparticles
Yadav, Virendra Kumar; Fulekar, M. H.
JOURNAL OF THE INDIAN CHEMICAL SOCIETY Volume: 96 Issue: 1 Special Issue: SI Pages: 203-206 Published: JAN 2019
90. Adsorption of Methylene Blue on Titanate Nanotubes Synthesized with Ultra-Small Fe₃O₄ Nanoparticles
Marc, Maciej; Dudek, Mirosław R.; Koziol, Jacek J.; et al.
NANO Volume: 13 Issue: 12 Article Number: 1850142 Published: DEC 2018
89. Surface micro-structuring of type 304 stainless steel by femtosecond pulsed laser: effect on surface wettability and corrosion resistance
Singh, A. K.; Kumar, B. Sunil; Jha, P.; et al.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 124 Issue: 12 Article Number: 846 Published: DEC 2018
88. Magnetite originating from bonfires in a Brazilian prehistoric Anthrosol: A micro-Raman approach
de Sousa, Daniel Vieira; Ker, Joao Carlos; Schaefer, Carlos Ernesto R.; et al.
CATENA Volume: 171 Pages: 552-564 Published: DEC 2018
87. Composite photocatalysts containing MIL-53(Fe) as a heterogeneous photo-Fenton catalyst for the decolorization of rhodamine B under visible light irradiation
Vinh Huu Nguyen; Long Giang Bach; Quynh Thi Phuong Bui; et al.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING Volume: 6 Issue: 6 Pages: 7434-7441 Published: DEC 2018
86. Extraction of nanosilica from oil palm leaves and its application as support for lipase immobilization
Onoja, Emmanuel; Chandren, Sheela; Razak, Fazira Ilyana Abdul; et al.
JOURNAL OF BIOTECHNOLOGY Volume: 283 Pages: 81-96 Published: OCT 10 2018
85. Fe/Fe₂O₃ nanoparticles as anode catalyst for exclusive power generation and degradation of organic compounds using microbial fuel cell
Mohamed, Hend Omar; Obaid, M.; Poo, Kyung-Min; et al.
CHEMICAL ENGINEERING JOURNAL Volume: 349 Pages: 800-807 Published: OCT 1 2018
84. Recent Application of the Various Nanomaterials and Nanocatalysts for the Heavy Metals' Removal from Wastewater
Khaligh, Nader Ghaffari; Johan, Mohd Rafie
NANO Volume: 13 Issue: 9 Article Number: 1830006 Published: SEP 2018
83. A theranostic nanocomposite system based on iron oxide-drug nanocages for targeted magnetic field responsive chemotherapy
Kesavan, Mookkandi Palsamy; Kotla, Niranjana G.; Ayyanaar, Srinivasan; et al.
NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE Volume: 14 Issue: 5 Pages: 1643-1654 Published: JUL 2018
82. Immobilization of PMDA on Fe₃O₄ magnetic nanoparticles surface: Mechanism of bonding
Demin, Alexander M.; Mekhaev, Alexander V.; Esin, Alexander A.; et al.
APPLIED SURFACE SCIENCE Volume: 440 Pages: 1196-1203 Published: MAY 15 2018

81. Effective reduction of p-nitrophenol by silver nanoparticle loaded on magnetic Fe₃O₄/ATO nano-composite
Karki, Hem Prakash; Ojha, Devi Prasad; Joshi, Mahesh Kumar; et al.
APPLIED SURFACE SCIENCE Volume: 435 Pages: 599-608 Published: MAR 30 2018
80. Heavy-metal detectors based on modified ferrite nanoparticles
Klekotka, Urszula; Winska, Ewelina; Zambrzycka-Szelewa, Elzbieta; et al.
BEILSTEIN JOURNAL OF NANOTECHNOLOGY Volume: 9 Pages: 762-770 Published: FEB 28 2018
79. Synthesis of magnetite by coprecipitation and sintering and its characterization
Dubey, Vivekanand; Kain, Vivekanand
MATERIALS AND MANUFACTURING PROCESSES Volume: 33 Issue: 8 Pages: 835-839 Published: 2018
78. Nanopatterning of steel by one-step anodization for anti-adhesion of bacteria
Chen, S., Li, Y., Cheng, Y.F.
Scientific Reports 7(1),5326 (2017)
77. Iskenderoglu, Demet; Guney, Harun
Synthesis and characterization of ZnO:Ni thin films grown by spray-deposition
CERAMICS INTERNATIONAL Volume: 43 Issue: 18 Pages: 16593-16599 Published: DEC 15 2017
76. Bharasi, N. Sivai; Pujar, M. G.; Mallika, C.; et al.
Corrosion and Passive Film Formation Studies on Modified 9Cr-1Mo Steel in Different Sodium Hydroxide Concentrations at Room Temperature and in Boiling Condition
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS Volume: 70 Issue: 8 Pages: 1953-1963 Published: OCT 2017
75. Guo, Juanjuan; Zheng, Zhichang; Chen, Chi; et al.
Enhanced Production of kappa-Carrageenase and kappa-Carrageenan Oligosaccharides through Immobilization of *Thalassospira* sp Fjfst-332 with Magnetic Fe₃O₄-Chitosan Microspheres
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY Volume: 65 Issue: 36 Pages: 7934-7943 Published: SEP 13 2017
74. Puente-Urbina, Allen; Montero-Campos, Virginia
Porous Materials Modified with Fe₃O₄ Nanoparticles for Arsenic Removal in Drinking Water
WATER AIR AND SOIL POLLUTION Volume: 228 Issue: 9 Article Number: 374 Published: SEP 2017
73. Zou, Peng; Tyner, Katherine; Raw, Andre; et al.
Physicochemical Characterization of Iron Carbohydrate Colloid Drug Products
AAPS JOURNAL Volume: 19 Issue: 5 Pages: 1359-1376 Published: SEP 2017
72. Ragavan, K. V.; Rastogi, Navin K.
beta-Cyclodextrin capped graphene-magnetite nanocomposite for selective adsorption of Bisphenol-A
CARBOHYDRATE POLYMERS Volume: 168 Pages: 129-137 Published: JUL 15 2017
71. Singh, K. K.; Senapati, K. K.; Sarma, K. C.
Synthesis of superparamagnetic Fe₃O₄ nanoparticles coated with green tea polyphenols and their use for removal of dye pollutant from aqueous solution
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING Volume: 5 Issue: 3 Pages: 2214-2221 Published: JUN 2017
70. Candian Lobato, Natalia Cristina; Mansur, Marcelo Borges; Ferreira, Angela de Mello
Characterization and Chemical Stability of Hydrophilic and Hydrophobic Magnetic Nanoparticles
MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS Volume: 20 Issue: 3 Pages: 736-746 Published: MAY-JUN 2017
69. Taufik, Ardiansyah; Saleh, Rosari
Synergistic effect between ternary iron-zinc-copper mixed oxides and graphene for photocatalytic water decontamination
CERAMICS INTERNATIONAL Volume: 43 Issue: 4 Pages: 3510-3520 Published: MAR 2017
68. Badhe, Ravindra V.; Kumar, Pradeep; Choonara, Yahya E.; et al.
Induction of creep crack morphology in iron oxide microparticles: An outcome of the common-ion effect
MATERIALS LETTERS Volume: 188 Pages: 417-422 Published: FEB 1 2017
67. Joseph, Delina; Rodriguez, Raul D.; Verma, Akash; et al.
Electrochemistry and surface-enhanced Raman spectroscopy of CTAB modulated interactions of magnetic nanoparticles with biomolecules
RSC ADVANCES Volume: 7 Issue: 7 Pages: 3628-3634 Published: 2017
66. Singh, K.K., Sarma, K.C.
A simple and feasible approach to decorating MWCNT with Fe₃O₄ and ZnS and their use as a magnetically separable photocatalyst in the degradation of Cr(VI) in wastewater
Environmental Nanotechnology, Monitoring and Management 6, 206-213 DOI: 10.1016/j.enmm.2016.11.003 (2016)
65. Prakash, T., Williams, G.V.M., Kennedy, J., Rubanov, S.
High spin-dependent tunneling magnetoresistance in magnetite powders made by arc-discharge
JOURNAL OF APPLIED PHYSICS Volume: 120 Issue: 12 Article Number: 123905 DOI: 10.1063/1.4963293 Published: SEP 28 2016
64. Lobato, N.C.C., Ferreira, A.D.M., Mansur, M.B.

- Evaluation of magnetic nanoparticles coated by oleic acid applied to solvent extraction processes
SEPARATION AND PURIFICATION TECHNOLOGY Volume: 168 Pages: 93-100 DOI: 10.1016/j.seppur.2016.05.027 Published: AUG 10 2016
63. Ivashchenko, O., Jurga-Stopa, J., Coy, E., Peplinska, B., Pietralik, Z., Jurga, S.
Fourier transform infrared and Raman spectroscopy studies on magnetite/Ag/antibiotic nanocomposites
APPLIED SURFACE SCIENCE Volume: 364 Pages: 400-409 DOI: 10.1016/j.apsusc.2015.12.149 Published: FEB 28 2016
62. Williams, M.J., Sánchez, E., Aluri, E.R., Douglas, F.J., Maclaren, D.A., Collins, O.M., Cussen, E.J., Budge, J.D., Sanders, L.C., Michaelis, M., Smales, C.M., Cinatl, J., Lorrio, S., Krueger, D., De Rosales, R.T.M., Corr, S.A.
Microwave-assisted synthesis of highly crystalline, multifunctional iron oxide nanocomposites for imaging applications
RSC ADVANCES Volume: 6 Issue: 87 Pages: 83520-83528 DOI: 10.1039/c6ra11819d Published: 2016
61. Ramanaidou, E., Wells, M., Lau, I., Laukamp, C.
Characterization of iron ore by visible and infrared reflectance and, Raman spectroscopies
Iron Ore: Mineralogy, Processing and Environmental Sustainability 191-228 DOI: 10.1016/B978-1-78242-156-6.00006-X (2015)
60. Barot, B.S., Parejiya, P.B., Shelat, P.K., Shah, G.B., Mehta, D.M., Pathak, T.V.
Physicochemical and toxicological characterization of sucrose-bound polynuclear iron oxyhydroxide formulations
Journal of Pharmaceutical Investigation 45(1), 35-49 DOI: 10.1007/s40005-014-0143-2 (2015)
59. Lu, J.F., Tsai, C.J.
Reduction kinetics of hematite to magnetite under hydrothermal treatments
RSC Advances 5(22), 17236-17244 DOI: 10.1039/c4ra12389a (2015)
58. Singh, P.N., Tiwary, D., Sinha, I.
Chromium removal from aqueous media by superparamagnetic starch functionalized maghemite nanoparticles
JOURNAL OF CHEMICAL SCIENCES Volume: 127 Issue: 11 Pages: 1967-1976 DOI: 10.1007/s12039-015-0957-0 Published: NOV 2015
57. Ibarra, J., Melendres, J., Almada, M., Burboa, M.G., Taboada, P., Juárez, J., Valdez, M.A.
Synthesis and characterization of magnetite/PLGA/chitosan nanoparticles
MATERIALS RESEARCH EXPRESS Volume: 2 Issue: 9 Article Number: 095010 DOI: 10.1088/2053-1591/2/9/095010 Published: SEP 2015
56. Herrera, W.T., Ramos Guivar, J.A., González, J.C., Baggio-Saitovitch, E.M.
Structural and vibrational studies of fatty acids-functionalized iron oxide nanoparticles via alkaline co-precipitation route
NANOCON 2015: 7TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION Pages: 511-519 Published: 2015
55. Venkateswarlu, S., Yoon, M.
Surfactant-free green synthesis of Fe₃O₄ nanoparticles capped with 3,4-dihydroxy-phenethylcarbomethiodithioate: stable recyclable magnetic nanoparticles for the rapid and efficient removal of Hg(II) ions from water
DALTON TRANSACTIONS Volume: 44 Issue: 42 Pages: 18427-18437 DOI: 10.1039/c5dt03155a Published: 2015
54. Ong, Hun Tiar; JULKAPLI, Nurhidayatullaili Muhd; Abd Hamid, Sharifah Bee; et al.
Effect of magnetic and thermal properties of iron oxide nanoparticles (IONs) in nitrile butadiene rubber (NBR) latex
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 395 Pages: 173-179 Published: DEC 1 2015
53. Joshi, Mahesh Kumar; Pant, Hem Raj; Liao, Nina; et al.
In-situ deposition of silver-iron oxide nanoparticles on the surface of fly ash for water purification
JOURNAL OF COLLOID AND INTERFACE SCIENCE Volume: 453 Pages: 159-168 Published: SEP 1 2015
52. Andrade, Luiza N.; Amorim, Camila C.; Santos, Sara V.; et al.
Efficient demulsification of wastewater by steel furnace dust. with amphiphilic and surface charge properties
CHEMICAL ENGINEERING JOURNAL Volume: 271 Pages: 281-286 Published: JUL 1 2015
51. Tavengwa, Nikita Tawanda; Cukrowska, Ewa; Chimuka, Luke
Sequestration of U(VI) from aqueous solutions using precipitate ion imprinted polymers endowed with oleic acid functionalized magnetite
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY Volume: 304 Issue: 2 Pages: 933-943 Published: MAY 2015
50. Altan, Cem L.; Lenders, Jos J. M.; Bomans, Paul H. H.; et al.
Partial Oxidation as a Rational Approach to Kinetic Control in Bioinspired Magnetite Synthesis
CHEMISTRY-A EUROPEAN JOURNAL Volume: 21 Issue: 16 Pages: 6150-6156 Published: APR 13 2015
49. Yusoff, N.; Kumar, S. Vijay; Pandikumar, A.; et al.
Core-shell Fe₃O₄-ZnO nanoparticles decorated on reduced graphene oxide for enhanced photoelectrochemical water splitting
CERAMICS INTERNATIONAL Volume: 41 Issue: 3 Pages: 5117-5128 Part: B Published: APR 2015
48. Dolores, Reyman; Raquel, Serrano; Adianez, Garcia-Leis
Sonochemical synthesis of iron oxide nanoparticles loaded with folate and cisplatin: Effect of ultrasonic frequency
ULTRASONICS SONOCHEMISTRY Volume: 23 Pages: 391-398 Published: MAR 2015
47. Asfaram, Arash; Ghaedi, Mehrorang; Goudarzi, Alireza; et al.
Response surface methodology approach for optimization of simultaneous dye and metal ion ultrasound-assisted adsorption onto Mn doped Fe₃O₄-NPs loaded on AC: kinetic and isothermal studies

46. Singh, Mahander Pratap; Raghupathy, Y.; Natarajan, K. A.; et al.
Synthesis, electron microscopy and anti-microbial properties of Fe₃O₄-Ag nanotubes
RSC ADVANCES Volume: 5 Issue: 48 Pages: 38164-38169 Published: 2015
45. Baibarac, M., Sima, M., Matei, E., Pasuk, I., Mihut, L.
Synthesis and Raman scattering of multiferroic Fe-Pb(Zr_{0.2}Ti_{0.8})O₃ core-shell wire arrays
Physica Status Solidi (A) Applications and Materials Science 211(1), 200-205 DOI: 10.1002/pssa.201330062 (2014)
44. Modh, N., Mehta, D., Parejiya, P., Popat, A., Barot, B.
An overview of recent patents on nanosuspension
Recent Patents on Drug Delivery and Formulation 8(2), 144-154 (2014)
43. Tai, M. F.; Lai, C. W.; Hamid, S. B. A.; et al.
Facile synthesis of magnetite iron oxide nanoparticles via precipitation method at different reaction temperatures
MATERIALS RESEARCH INNOVATIONS Volume: 18 Supplement: S6 Pages: 470-473 Published: DEC 2014
42. Gao, Yanyan; Zhong, Daobo; Zhang, Dafeng; et al.
Thermal regeneration of recyclable reduced graphene oxide/Fe₃O₄ composites with improved adsorption properties
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY Volume: 89 Issue: 12 Pages: 1859-1865 Published: DEC 2014
41. Chowdhury, Anirban; Iyyappan, Ramasamy; Majumdar, Dipanwita; et al.
Structural and spectroscopic characterisations of the surface oxide scales and inclusions present on edge-burst hot-rolled steel coils
MATERIALS CHEMISTRY AND PHYSICS Volume: 148 Issue: 1-2 Pages: 276-283 Published: NOV 14 2014
40. Al'myashev, V. I.; Gareev, K. G.; Ionin, S. A.; et al.
Investigation of the structure, elemental and phase compositions of Fe₃O₄-SiO₂ composite layers by scanning electron microscopy, X-ray spectroscopy, and thermal nitrogen desorption methods
PHYSICS OF THE SOLID STATE Volume: 56 Issue: 11 Pages: 2155-2159 Published: NOV 2014
39. Lenders, Jos J. M.; Altan, Cem L.; Bomans, Paul H. H.; et al.
A Bioinspired Coprecipitation Method for the Controlled Synthesis of Magnetite Nanoparticles
CRYSTAL GROWTH & DESIGN Volume: 14 Issue: 11 Pages: 5561-5568 Published: NOV 2014
38. Kumar, Pawan; No-Lee, Heung; Kumar, Rajesh
Synthesis of phase pure iron oxide polymorphs thin films and their enhanced magnetic properties
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 25 (10), pp. 4553-4561 OCT 2014
37. Venkateswarlu, Sada; Kumar, B. Natesh; Prasad, C. H.; et al.
Bio-inspired green synthesis of Fe₃O₄ spherical magnetic nanoparticles using Syzygium cumini seed extract
PHYSICA B-CONDENSED MATTER 449, pp. 67-71 SEP 15 2014
36. Dudek, Gabriela; Gnus, Malgorzata; Turczyn, Roman; et al.
Pervaporation with chitosan membranes containing iron oxide nanoparticles
SEPARATION AND PURIFICATION TECHNOLOGY 133, pp. 8-15 SEP 8 2014
35. Prozorov, Tanya; Perez-Gonzalez, Teresa; Valverde-Tercedor, Carmen; et al.
Manganese incorporation into the magnetosome magnetite: magnetic signature of doping
EUROPEAN JOURNAL OF MINERALOGY 26 (4), pp. 457-471 AUG 2014
34. Surendra, M. Krishna; De, Subhra Kanti; Rao, M. S. Ramachandra
Application Worthy SPIONs: Coated Magnetic Nanoparticles
IEEE TRANSACTIONS ON MAGNETICS Volume: 50 Issue: 7 Article Number: 5200306 Part: 2 Published: JUL 2014
33. Ortiz-Morales, M.; Frausto-Reyes, C.; Soto-Bernal, J. J.; et al.
Infrared nanosecond pulsed laser irradiation of stainless steel: Micro iron-oxide zones generation
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY 128, pp. 681-685 JUL 15 2014
32. Wang, Xiang; Pu, Shengli; Ji, Hongzhu; et al.
Optical transmittance of ferronematic materials in the visible range
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 16 (7-8), pp. 771-775 JUL-AUG 2014
31. Liang, Liping; Guan, Xiaohong; Shi, Zhong; et al.
Coupled Effects of Aging and Weak Magnetic Fields on Sequestration of Selenite by Zero-Valent Iron
ENVIRONMENTAL SCIENCE & TECHNOLOGY 48 (11), pp. 6326-6334 JUN 3 2014
30. Urquijo, Jeaneth Patricia; Casanova, Herley; Morales, Alvaro L; et al.
Engineering iron oxide nanoparticles for biomedicine and bioengineering applications
Revista Facultad de Ingeniería Universidad de Antioquia Issue: 71 Pages: 230-243 Published: 2014-06
29. Lu, Jie-feng; Tsai, Cho-Jen
Hydrothermal phase transformation of hematite to magnetite
NANOSCALE RESEARCH LETTERS Volume: 9 Article Number: 230 Published: MAY 13 2014

28. Chakraborty, Gopa; Kumar, N.; Das, C. R.; et al.
Study on microstructure and wear properties of different nickel base hardfacing alloys deposited on austenitic stainless steel
SURFACE & COATINGS TECHNOLOGY 244, pp.180-188 APR 15 2014
27. Joshi, Mahesh Kumar; Pant, Hem Raj; Kim, Han Joo; et al.
One-pot synthesis of Ag-iron oxide/reduced graphene oxide nanocomposite via hydrothermal treatment
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS 446, pp. 102-108 APR 5 2014
26. Yardley, James T.; Hagadorn, Alexis
Characterization of the Chemical Nature of the Black Ink in the Manuscript of The Gospel of Jesus 's Wife through Micro-Raman Spectroscopy
HARVARD THEOLOGICAL REVIEW 107 (2), pp. 162-164 APR 2014
25. Piquer, C.; Laguna-Marco, M. A.; Roca, A. G.; et al.
Fe K-Edge X-ray Absorption Spectroscopy Study of Nanosized Nominal Magnetite
JOURNAL OF PHYSICAL CHEMISTRY C 118 (2), pp.1332-1346 JAN 16 2014
24. Gareev, K. G.; Kononova, I. E.; Levitskii, V. S.; et al.
Influence of constant magnetic field on aggregation processes in magnetite colloids
Journal of Physics Conference Series Volume: 572 Article Number: 012027 Published: 2014
23. Biswal, Mandakini; Suryawanshi, Anil; Thakare, Vishal; et al.
Mesoscopic magnetic iron oxide spheres for high performance Li-ion battery anode: a new pulsed laser induced reactive micro-bubble synthesis process
JOURNAL OF MATERIALS CHEMISTRY A 1 (44), pp. 13932-13940 2013
22. Miyazaki, Celina M.; Riul, Antonio, Jr.; Dos Santos, David S., Jr.; et al.
Bending of Layer-by-Layer Films Driven by an External Magnetic Field
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 14 (7), 12953-12969, JUL 2013
21. Ribeiro, V.G.P., Barreto, A.C.H., Denardin, J.C., Mele, G., Carbone, L., Mazzetto, S.E., Sousa, E.M.B., Fechine, P.B.A.
Magnetic nanoparticles coated with anacardic acid derived from cashew nut shell liquid
Journal of Materials Science 48 (22), pp. 7875-7882, 2013
20. Ming, H., Ming, J., Li, X., Zhou, Q., Jin, L., Fu, Y., Adkins, J., (...), Zheng, J.
Synthesis of N-doped carbon coated metal oxide nanoparticles for enhanced Li-ion storage ability
RSC Advances 3 (36), pp. 15613-15617, 2013
19. Barreto, A.C.H., Santiago, V.R., Freire, R.M., Mazzetto, S.E., Denardin, J.C., Mele, G., Cavalcante, I.M., (...), Fechine, P.B.A.
Magnetic nanosystem for cancer therapy using oncocalyxone A, an antitumor secondary metabolite isolated from a Brazilian plant
International Journal of Molecular Sciences 14 (9), pp. 18269-18283, 2013
18. Kartsonakis, I., Papadopoulos, N., Tserotas, Ph., Svec, P.
Low-temperature synthesis of maghemite nanoparticles
Key Engineering Materials 543, pp. 468-47, 2013
17. Nowicka, A.M., Kowalczyk, A., Jarzebinska, A., Donten, M., Krynski, P., Stojek, Z., Augustin, E., Mazerska, Z.
Progress in targeting tumor cells by using drug-magnetic nanoparticles conjugate
Biomacromolecules 14 (3), pp. 828-833, 2013
16. Ibupoto, Z.H., Khun, K., Lu, J., Liu, X., Alsalhi, M.S., Atif, M., Ansari, A.A., Willander, M.
Well aligned ZnO nanorods growth on the gold coated glass substrate by aqueous chemical growth method using seed layer of Fe₃O₄ and Co₃O₄ nanoparticles
Journal of Crystal Growth 368, pp. 39-46, 2013
15. Bourgeois, F., Gergaud, P., Renevier, H., Leclere, C., Feuillet, G.
Low temperature oxidation mechanisms of nanocrystalline magnetite thin film
Journal of Applied Physics 113 (1), art. no. 013510, 2013
14. Zhang, Q., Su, H., Luo, J., Wei, Y.
"Click" magnetic nanoparticle-supported palladium catalyst: A phosphine-free, highly efficient and magnetically recoverable catalyst for Suzuki-Miyaura coupling reactions
Catalysis Science and Technology 3 (1), pp. 235-243, 2013
13. Soler, M.A.G., Qu, F.
Raman spectroscopy of iron oxide nanoparticles
Raman Spectroscopy for Nanomaterials Characterization 379-416 DOI: 10.1007/978-3-642-20620-7_14 (2012)
12. Costa, A.L., Ballarin, B., Spegini, A., Casoli, F., Gardini, D.
Synthesis of nanostructured magnetic photocatalyst by colloidal approach and spray-drying technique
Journal of Colloid and Interface Science 388 (1), pp. 31-39, 2012
11. Yuan, Y., Rende, D., Altan, C.L., Bucak, S., Ozisik, R., Borca-Tasciuc, D.-A.
Effect of surface modification on magnetization of iron oxide nanoparticle colloids
Langmuir 28 (36), pp. 13051-13059, 2012

10. Pola, J., Gondal, M.A., Urbanová, M., Pokorná, D., Masoudi, H.M., Bakardjieva, S., Bastl, Z., (...), Siddiqui, M.N.
Laser photochemical deposition of magnetite nanograins in a-Fe/C/O composite: High-pressure metal oxide polymorph surviving ambient conditions
Journal of Photochemistry and Photobiology A: Chemistry 243, pp. 33-40, 2012

9. Dincer, I., Tozkoparan, O., German, S.V., Markin, A.V., Yildirim, O., Khomutov, G.B., Gorin, D.A., (...), Elerman, Y.
Effect of the number of iron oxide nanoparticle layers on the magnetic properties of nanocomposite LbL assemblies
Journal of Magnetism and Magnetic Materials 324 (19), pp. 2958-2963, 2012.

8. Li, Y.-S., Church, J.S., Woodhead, A.L.
Infrared and Raman spectroscopic studies on iron oxide magnetic nano-particles and their surface modifications
Journal of Magnetism and Magnetic Materials 324 (8), 1543-1550, 2012.

7. Nawara, K., Romiszewski, J., Kijewska, K., Szczytko, J., Twardowski, A., Mazur, M., Kryszinski, P.
Adsorption of doxorubicin onto citrate-stabilized magnetic nanoparticles
Journal of Physical Chemistry C 116 (9), 5598-5609, 2012.

6. Barreto A. C. H.; Maia F. J. N.; Santiago V. R.; et al.
Novel ferrofluids coated with a renewable material obtained from cashew nut shell liquid
MICROFLUIDICS AND NANOFLUIDICS 12 (5), 677-686, MAR 2012.

5. Tung, T.T., Feller, J.-F., Kim, T., Kim, H., Yang, W.S., Suh, K.S.
Electromagnetic properties of Fe₃O₄-functionalized graphene and its composites with a conducting polymer
Journal of Polymer Science, Part A: Polymer Chemistry 50 (5), pp. 927-935, 2012.

4. Barreto, A.C.H., Santiago, V.R., Mazzetto, S.E., Denardin, J.C., Lavín, R., Mele, G., Ribeiro, M.E.N.P., (...), Fachine, P.B.A.
Magnetic nanoparticles for a new drug delivery system to control quercetin releasing for cancer chemotherapy
Journal of Nanoparticle Research 13 (12), 6545-6553, 2011.

3. Pu Shengli; Bai Xuekun; Wang Lunwei
Temperature dependence of photonic crystals based on thermoresponsive magnetic fluids
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 323 (22) Pages: 2866-2871, NOV 2011.

2. Cheng J. P.; Ma R.; Chen X.; et al.
Effect of ferric ions on the morphology and size of magnetite nanocrystals synthesized by ultrasonic irradiation
CRYSTAL RESEARCH AND TECHNOLOGY 46 (7) Pages: 723-730, JUL 2011.

1. Can Musa Mutlu; Ozcan Sadan; Ceylan Abdullah; et al.
Effect of milling time on the synthesis of magnetite nanoparticles by wet milling
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS 172 (1), pp.72-75, AUG 15 2010

69. “Optical and vibrational spectra analysis of CVD - Mixed oxide films: Optimization of the films electrochromic performance”

Ivanova, T., Gesheva, K.A., Abrashev, M., Sharlandjiev, P., Nazarova, D.
Journal of Physics: Conference Series **223** (1), art. no. 012039 (2010). (5 pages)

2. Prameela, C., Anjaiah, M., KrishnaMurthy, K., Srinivasarao, K.
Optical and IR studies on (MoO₃)_{1-x}-(WO₃)_x mixed oxide thin films
Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B 57(3), 139-145 DOI: 10.13036/17533562.57.3.014 (2016)

1. Prameela, C., Srinivasarao, K.
Characterization of (MoO₃)_x - (WO₃)_{1-x} composites
International Journal of Applied Engineering Research Volume 10, Issue 4, 2015, Pages 9865-9875

70. “Growth and characterization of La₂CoMnO₆ crystals doped with Pb”

Milenov, T.I., Rafailov, P.M., Abrashev, M.V., Nikolova, R.P., Nakatsuka, A., Avdeev, G.V., Veleva, M.N., Dobрева S., Yankova L, and Gospodinov, M.M.
Materials Science and Engineering B: Solid-State Materials for Advanced Technology **172** (1), pp. 80-84 (2010).

4. Li, Qihang; Xing, Lei; Xu, Mingxiang
Magnetic properties, resistivity and magnetoresistance effects of double perovskite La₂Co_{1-x}Fe_xMnO₆
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 710 Pages: 771-777 Published: JUL 5 2017

3. Meng, Junling; Yuan, Na; Liu, Xiaojuan; et al.
Synergistic Effects of Intrinsic Cation Disorder and Electron-Deficient Substitution on Ion and Electron Conductivity in La_{1-x}Sr_xCo_{0.5}Mn_{0.5}O_{3-δ} (x=0, 0.5, and 0.75)
INORGANIC CHEMISTRY Volume: 54 Issue: 6 Pages: 2820-2829 Published: MAR 16 2015

2. Orayech, B.; Urcelay-Olabarria, I.; Lopez, G. A.; et al.

Synthesis, structural, magnetic and phase-transition studies of the ferromagnetic $\text{La}_2\text{CoMnO}_6$ double perovskite by symmetry-adapted modes

DALTON TRANSACTIONS Volume: 44 Issue: 31 Pages: 13867-13880 Published: 2015

1. Bai, Y., Xia, Y., Li, H., Han, L., Wang, Z., Wu, X., Lv, S., (...), Meng, J.
A-site-doping enhanced B-site ordering and correlated magnetic property in $\text{La}_{2-x}\text{Bi}_x\text{CoMnO}_6$
Journal of Physical Chemistry C 116 (32), pp. 16841-16847, 2012

71. “Polarized Raman spectroscopy of nearly tetragonal BiFeO_3 thin films”

M. N. Iliev, M. V. Abrashev, D. Mazumdar, V. Shelke, and A. Gupta
Physical Review B **82**, 014107 (2010). (5 pages)

56. Sol-gel synthesis, characterization, dielectric and anti-bacterial properties of soft ferromagnetic oxide system $\text{Gd}_{4-x}\text{Sr}_1+x\text{Fe}_{5-x}\text{Zn}_x\text{O}_{14+\delta}$ [$0 \leq x \leq 0.45$]

Thangaraj, Venkatesan; Chang, Jih-Hsing; Shkir, Mohd; et al.
INORGANIC CHEMISTRY COMMUNICATIONS Volume: 125 Article Number: 108432 Published: MAR 2021

55. Patterning enhanced tetragonality in BiFeO_3 thin films with effective negative pressure by helium implantation

Toulouse, C.; Fischer, J.; Farokhipoor, S.; et al.
PHYSICAL REVIEW MATERIALS Volume: 5 Issue: 2 Article Number: 024404 Published: FEB 9 2021

54. Magnetoelastic distortion of multiferroic BiFeO_3 in the canted antiferromagnetic state

Room, T.; Viirok, J.; Peedu, L.; et al.
PHYSICAL REVIEW B Volume: 102 Issue: 21 Article Number: 214410 Published: DEC 9 2020

53. Emergence of two-magnon modes below spin-reorientation transition and phonon-magnon coupling in bulk BiFeO_3 : An infrared spectroscopic study

Das, B. K.; Ramachandran, B.; Dixit, A.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 832 Article Number: 154754 Published: AUG 15 2020

52. Built-in electric field induces polarization rotation in bilayer $\text{BiFeO}_3/(\text{Ba},\text{Sr})\text{TiO}_3$ thin films

Razumnaya, G.; Mikheykin, A. S.; Stryukov, D., V; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 812 Article Number: 152164 Published: JAN 5 2020

51. Enhanced magnetization in multiferroic BiFeO_3 through structural distortion and particle size reduction

Bagwaiya, Toshi; Reshi, Hilal A.; Khade, Poonam; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 483 Pages: 59-64 Published: AUG 1 2019

50. Lattice dynamics of mixed-phase BiFeO_3 films: Insights from micro-Raman scattering

Liang, Z. W.; Wang, Z-H; Feng, Y.; et al.
PHYSICAL REVIEW B Volume: 99 Issue: 6 Article Number: 064304 Published: FEB 25 2019

49. Ferroelastic domain identification in BiFeO_3 crystals using Raman spectroscopy

Himcinschi, Cameliu; Rix, Jan; Roeder, Christian; et al.
SCIENTIFIC REPORTS Volume: 9 Article Number: 379 Published: JAN 23 2019

48. Structural, vibrational, and enhanced magneto-electric coupling in Ho-substituted BiFeO_3

Muneeswaran, M., Lee, S.H., Kim, D.H., (...), Giridharan, N.V., Venkateswaran, C.
Journal of Alloys and Compounds 750, pp. 276-285 (2018)

47. Investigation on gas sensing properties of Ag doped BiFeO_3

Bagwaiya, T., Khade, P., Reshi, H.A., (...), Muthe, K.P., Gadkari, S.C.
AIP Conference Proceedings 1942, 080076 (2018)

46. Sol-Gel Synthesis of $\text{Ce}_{4-x}\text{Sr}_1+x\text{Fe}_{5-x}\text{Zn}_x\text{O}_{14+\delta}$ [$0 \leq x \leq 0.45$] Superparamagnetic Oxide Systems and Its Magnetic, Dielectric, and Drug Delivery Properties

Thangaraj, Venkatesan; Yogapriya, Murugesan; Thirumalai, Kupplingam; et al.
ACS OMEGA Volume: 3 Issue: 12 Pages: 16509-16518 Published: DEC 2018

45. Room-temperature ferrimagnetic multiferroic $\text{BiFeO}_{0.5}\text{Co}_{0.5}\text{O}_3$ thin films with giant piezoelectric response

Gao, Baizhi; Lin, Lingfang; Chen, Chen; et al.
PHYSICAL REVIEW MATERIALS Volume: 2 Issue: 8 Article Number: 084401 Published: AUG 7 2018

44. Evidence of magnetoelectric coupling in 0.9BiFeO_3 - $0.1\text{Ba}[\text{Ti}_{0.95}(\text{Yb}_{0.5}\text{Nb}_{0.5})(0.05)]\text{O}_{-3}$ ceramic

Amouri, A.; Aydi, S.; Abdelmoula, N.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 739 Pages: 1065-1079 Published: MAR 30 2018

43. Qi, Ji; Zhang, Yilin; Wang, Yuhang; et al.

Effect of Cr doping on the phase structure, surface appearance and magnetic property of BiFeO_3 thin films prepared via sol-gel technology
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 23 Pages: 17490-17498 Published: DEC 2017

42. Ning, Shuai; Huberman, Samuel C.; Zhang, Chen; et al.

Dependence of the Thermal Conductivity of BiFeO_3 Thin Films on Polarization and Structure

41. Lahmar, Abdelilah
Multiferroic properties and frequency dependent coercive field in BiFeO₃-LaMn_{0.5}Co_{0.5}O₃ thin films
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 439 Pages: 30-37 Published: OCT 1 2017
40. Stryukov, D. V.; Razumnaya, A. G.; Golovko, Yu I.; et al.
Lattice dynamics and structural distortions in the multiferroic (Ba,Sr)TiO₃/(Bi,Nd)FeO₃ heterostructures
THIN SOLID FILMS Volume: 636 Pages: 220-224 Published: AUG 31 2017
39. Huang, Yen-Chin; Liou, Yi-De; Liu, Heng-Jui; et al.
Magnetic-coupled phase anomaly in mixed-phase BiFeO₃ thin films
APL MATERIALS Volume: 5 Issue: 8 Article Number: 086112 Published: AUG 2017
38. Wu, J., Fan, Z., Xiao, D., Zhu, J., Wang, J.
Multiferroic bismuth ferrite-based materials for multifunctional applications: Ceramic bulks, thin films and nanostructures
Progress in Materials Science 84, 335-402 DOI: 10.1016/j.pmatsci.2016.09.001 (2016)
37. Ting, Y., Tu, C.-S., Chen, P.-Y., Chen, C.-S., Anthoniappen, J., Schmidt, V.H., Lee, J.-M., Chan, T.-S., Chen, W.-Y., Song, R.-W.
Magnetization, phonon, and X-ray edge absorption in barium-doped BiFeO₃ ceramics
JOURNAL OF MATERIALS SCIENCE Volume: 52 Issue: 1 Pages: 581-594 DOI: 10.1007/s10853-016-0355-0 Published: JAN 2017
36. Chen, C.-S., Tu, C.-S., Chen, P.-Y., Schmidt, V.H., Xu, Z.-R., Ting, Y.
Spin-lattice coupling phase transition and phonon anomalies in bismuth ferrite BiFeO₃
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 687 Pages: 442-450 DOI: 10.1016/j.jallcom.2016.06.193 Published: DEC 5 2016
35. Chiang, Y.-S., Tu, C.-S., Chen, P.-Y., Chen, C.-S., Anthoniappen, J., Ting, Y., Chan, T.-S., Schmidt, V.H.
Magnetic and phonon transitions in B-site Co doped BiFeO₃ ceramics
CERAMICS INTERNATIONAL Volume: 42 Issue: 11 Pages: 13104-13112 DOI: 10.1016/j.ceramint.2016.05.097 Published: AUG 15 2016
34. Damodaran, AR, Agar, JC, Pandya, S, Chen, ZH, Dedon, L, Xu, RJ, Apgar, B, Saremi, S, Martin, LW
New modalities of strain-control of ferroelectric thin films
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 28 Issue: 26 Article Number: 263001 DOI: 10.1088/0953-8984/28/26/263001 Published: JUL 6 2016
33. Sando, D., Xu, B., Bellaiche, L., Nagarajan, V.
A multiferroic on the brink: Uncovering the nuances of strain-induced transitions in BiFeO₃
APPLIED PHYSICS REVIEWS Volume: 3 Issue: 1 Article Number: 011106 DOI: 10.1063/1.4944558 Published: MAR 2016
32. Liu, Y., Wei, J., Liu, Y., Bai, X., Shi, P., Mao, S., Zhang, X., Li, C., Dkhil, B.
Phase transition, leakage conduction mechanism evolution and enhanced ferroelectric properties in multiferroic Mn-doped BiFeO₃ thin films
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 27 Issue: 3 Pages: 3095-3102 DOI: 10.1007/s10854-015-4135-4 Published: MAR 2016
31. Stojadinović, B., Dohčević-Mitrović, Z., Paunović, N., Ilić, N., Tasić, N., Petronijević, I., Popović, D., Stojanović, B.
Comparative study of structural and electrical properties of Pr and Ce doped BiFeO₃ ceramics synthesized by auto-combustion method
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 657 Pages: 866-872 DOI: 10.1016/j.jallcom.2015.09.235 Published: FEB 5 2016
30. Liu, YL (Liu, Yalong); Wei, J (Wei, Jie); Guo, YX (Guo, Yaxin); Yang, TT (Yang, Tiantian); Xu, Z (Xu, Zuo)
Phase transition, interband electronic transitions and enhanced ferroelectric properties in Mn and Sm co-doped bismuth ferrite films
RSC ADVANCES Volume: 6 Issue: 99 Pages: 96563-96572 DOI: 10.1039/c6ra20740e Published: 2016
29. Santhiya, M., Pugazhavadivu, K.S., Balakrishnan, L., Tamilarasan, K.
Effect of RF Power on Structural and Magnetic Properties of La doped Bi₂Fe₄O₉ Thin Films
DAE SOLID STATE PHYSICS SYMPOSIUM 2015 Book Series: AIP Conference Proceedings Volume: 1731 Article Number: 080077 DOI: 10.1063/1.4947955 Published: 2016
28. Amrillah, T., Vandurangi, S.K., Bitla, Y., Do, T.H., Liao, S.-C., Tsai, C.-Y., Chin, Y.-Y., Liu, Y.-T., Lin, M.-L., He, Q., Lin, H.-J., Lee, H.-Y., Lai, C.-H., Arenholz, E., Juang, J.-Y., Chu, Y.-H.
Tuning the magnetic properties of self-assembled BiFeO₃-CoFe₂O₄ heteroepitaxy by magneto-structural coupling
NANOSCALE Volume: 8 Issue: 16 Pages: 8847-8854 DOI: 10.1039/c5nr09269h Published: 2016
27. Chen, J., Wang, Y., Deng, Y.
Competition between compressive strain and Mn doping on tuning the structure and magnetic behavior of BiFeO₃ thin films
FUNCTIONAL MATERIALS LETTERS Volume: 8 Issue: 6 Article Number: 1550066 DOI: 10.1142/S1793604715500666 Published: DEC 2015
26. Barman, R., Singh, S.K., Kaur, D.
Structural phase transition and enhanced ferroelectricity in Bi(Fe_{1-x}Mnx)O₃ thin films deposited by pulsed laser deposition
THIN SOLID FILMS Volume: 594 Pages: 80-87 DOI: 10.1016/j.tsf.2015.10.017 Part: A Published: NOV 2 2015
25. Liu, HJ, Du, YH, Gao, P, Huang, YC.; Chen, HW, Chen, YC, Liu, HL, He, Q, Ikuhara, Y, Chu, YH
Tetragonal BiFeO₃ on yttria-stabilized zirconia
APL MATERIALS Volume: 3 Issue: 11 Article Number: 116104 DOI: 10.1063/1.4935310 Published: NOV 2015

24. Teplyakova, NA, Titov, SV, Verbenko, IA, Sidorov, NV, Reznichenko, LA
A Raman scattering study of the structural ordering in Bi_{1-x}La_xFeO₃ ceramic ferroelectromagnetics
OPTICS AND SPECTROSCOPY Volume: 119 Issue: 3 Pages: 460-466 DOI: 10.1134/S0030400X15090234 Published: SEP 2015
23. Das, SC, Maan, S, Katiyal, S, Shripathi, T, Sathe, V
Effect of Lattice Strain and Annealing on the BiFeO₃ Films
PROCEEDINGS OF THE 59TH DAE SOLID STATE PHYSICS SYMPOSIUM 2014 (SOLID STATE PHYSICS) Book Series: AIP Conference Proceedings Volume: 1665 Article Number: 140017 DOI: 10.1063/1.4918226 Published: 2015
22. Ahlawat, Anju; Satapathy, S.; Sathe, V. G.; et al.
Modification in structure of La and Nd co-doped epitaxial BiFeO₃ thin films probed by micro Raman spectroscopy
JOURNAL OF RAMAN SPECTROSCOPY Volume: 46 Issue: 7 Pages: 636-643 Published: JUL 2015
21. Doig, K. I.; Peters, J. J. P.; Nawaz, S.; et al.
Structural, optical and vibrational properties of self-assembled Pbn+1(Ti_{1-x}Fex)(n)O_{3n+1-delta} Ruddlesden-Popper superstructures
SCIENTIFIC REPORTS Volume: 5 Article Number: 7719 Published: JAN 16 2015
20. Himcinschi, Cameliu; Bhatnagar, Akash; Talkenberger, Andreas; et al.
Optical properties of epitaxial BiFeO₃ thin films grown on LaAlO₃
APPLIED PHYSICS LETTERS Volume: 106 Issue: 1 Article Number: 012908 Published: JAN 5 2015
19. Khabiri, G.; Anokhin, A. S.; Razumnaya, A. G.; et al.
Phonon and Magnon Excitations in Raman Spectra of an Epitaxial Bismuth Ferrite Film
PHYSICS OF THE SOLID STATE Volume: 56 Issue: 12 Pages: 2507-2513 Published: DEC 2014
18. Clemens, Oliver; Kruk, Robert; Patterson, Eric A.; et al.
Introducing a Large Polar Tetragonal Distortion into Ba-Doped BiFeO₃ by Low-Temperature Fluorination
INORGANIC CHEMISTRY Volume: 53 Issue: 23 Pages: 12572-12583 Published: DEC 1 2014
17. Yan, N.; Zhang, Y. L.; Tang, W. L.; et al.
The effects of Mn doping on the optical properties of chemically deposited BiFeO₃ thin films
THIN SOLID FILMS Volume: 571 Pages: 554-557 Part: 3 Published: NOV 28 2014
16. Sando, D.; Barthelemy, A.; Bibes, M.
BiFeO₃ epitaxial thin films and devices: past, present and future
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 26 Issue: 47 Article Number: 473201 Published: NOV 26 2014
15. Yang, Y.; Yao, Y. B.; Zhang, Q.; et al.
Polarized Raman study on the lattice structure of BiFeO₃ films prepared by pulsed laser deposition
VIBRATIONAL SPECTROSCOPY Volume: 75 Pages: 101-106 Published: NOV 2014
14. Ahlawat, Anju; Satapathy, S.; Maan, Satish; et al.
Correlation of structure and spin-phonon coupling in (La, Nd) doped BiFeO₃ films
JOURNAL OF RAMAN SPECTROSCOPY Volume: 45 Issue: 10 Pages: 958-962 Published: OCT 2014
13. Huang, Chuanwei; Chen, Lang
Effects of Interfaces on the Structure and Novel Physical Properties in Epitaxial Multiferroic BiFeO₃ Ultrathin Films
MATERIALS 7 (7), pp. 5403-5426 JUL 2014
12. Zhang, Jinxing; Ke, Xiaoxing; Gou, Gaoyang; et al.
A nanoscale shape memory oxide
NATURE COMMUNICATIONS 4, Art. No. 2768 NOV 2013
11. Anokhin, A. S.; Bunina, O. A.; Golovko, Yu I.; et al.
Raman and X-ray diffraction study of (Ba,Sr)TiO₃/(Bi,Nd)FeO₃ multilayer heterostructures
THIN SOLID FILMS 545, 267-271, OCT 31 2013
10. Thomasson, A., Kreisel, J., Lefèvre, C., Roulland, F., Versini, G., Barre, S., Viart, N.
Raman scattering of magnetoelectric gallium ferrite thin films
Journal of Physics Condensed Matter 25 (4), art. no. 045401, 2013
9. Bai, W.; Xu, W. F.; Wu, J.; et al.
Investigations on electrical, magnetic and optical behaviors of five-layered Aurivillius Bi₆Ti₃Fe₂O₁₈ polycrystalline films
THIN SOLID FILMS 525, 195-199, DEC 15 2012
8. Zhang, J.X., Zeches, R.J., He, Q., Chu, Y.-H., Ramesh, R.
Nanoscale phase boundaries: A new twist to novel functionalities
Nanoscale 4 (20), pp. 6196-6204, 2012
7. Liu Huajun; Yang Ping; Yao Kui; et al.
Origin of a Tetragonal BiFeO₃ Phase with a Giant c/a Ratio on SrTiO₃ Substrates
ADVANCED FUNCTIONAL MATERIALS 22 (5), 937-942, MAR 7 2012.
6. Ko, K.-T., Jung, M.H., He, Q., Lee, J.H., Woo, C.S., Chu, K., Seidel, J., (...), Yang, C.-H.
Concurrent transition of ferroelectric and magnetic ordering near room temperature

Nature Communications 2 (1) , art. no. 567, 2011.

5. Choi, K.-Y., Do, S.H., Lemmens, P., Wulferding, D., Woo, C.S., Lee, J.H., Chu, K., Yang, C.-H.
Anomalous low-energy phonons in nearly tetragonal BiFeO₃ thin films
Physical Review B - Condensed Matter and Materials Physics 84 (13) , art. no. 132408, 2011.

4. Kreisel J.; Jadhav P.; Chaix-Pluchery O.; et al.
A phase transition close to room temperature in BiFeO₃ thin films
JOURNAL OF PHYSICS-CONDENSED MATTER 23 (34), Article Number: 342202, AUG 31 2011.

3. Christen, H.M., Nam, J.H., Kim, H.S., Hatt, A.J., Spaldin, N.A.
Stress-induced R-MA-MC-T symmetry changes in BiFeO₃ films
Physical Review B - Condensed Matter and Materials Physics 83 (14), art. no. 144107, APR 14 2011.

2. Zhang, J.X., He, Q., Trassin, M., Luo, W., Yi, D., Rossell, M.D., Yu, P., (...), Ramesh, R.
Microscopic origin of the giant ferroelectric polarization in tetragonal-like BiFeO₃
Physical Review Letters 107 (14), art. no. 147602, 2011.

1. Hlinka J., Pokorny J., Karimi S.; et al.
Angular dispersion of oblique phonon modes in BiFeO₃ from micro-Raman scattering
PHYSICAL REVIEW B 83 (2) Article Number: 020101, JAN 10 2011.

72. “Short-range B-site ordering in the inverse spinel ferrite NiFe₂O₄”

V. G. Ivanov, M. V. Abrashev, M. N. Iliev, M. M. Gospodinov, J. Meen, and M. I. Aroyo
Physical Review B **82**, 024104 (2010). (8 pages)

96. Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites
Li, Zhuo; Lu, Jinlian; Jin, Lei; et al.
ADVANCED FUNCTIONAL MATERIALS Volume: 31 Issue: 21 Article Number: 2008306 Published: MAY 2021

95. A Nano-Micro Engineering Nanofiber for Electromagnetic Absorber, Green Shielding and Sensor
Zhang, Min; Han, Chen; Cao, Wen-Qiang; et al.
NANO-MICRO LETTERS Volume: 13 Issue: 1 Article Number: 27 Published: MAR 23 2021

94. Role of Mg²⁺ and In³⁺ substitution on magnetic, magnetostrictive and dielectric properties of NiFe₂O₄ ceramics derived from nanopowders
Anantharamaiah, P. N.; Rao, B. Prerna; Shashanka, H. M.; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 23 Issue: 2 Pages: 1694-1705 Published: JAN 14 2021

93. Stuffed Tridymite Structures: Synthesis, Structure, Second Harmonic Generation, Optical, and Multiferroic Properties
Bhim, Anupam; Sutter, Jean-Pascal; Gopalakrishnan, Jagannatha; et al.
CHEMISTRY-A EUROPEAN JOURNAL Volume: 27 Issue: 6 Pages: 1995-2008 Published: JAN 26 2021

92. Structural and magnetic properties of Bi substituted nickel ferrite
Sattibabu, Bhumireddi; Rao, T. Durga; Bhatnagar, A. K.; et al.
MATERIALS TODAY-PROCEEDINGS Volume: 39 Pages: 1482-1486 Part: 4 Published: 2020

91. Neutron diffraction study and magnetic properties of NiFe₂-xScxO₄
Sattibabu, Bhumireddi; Rao, T. Durga; Bhatnagar, A. K.; et al.
MATERIALS LETTERS Volume: 277 Article Number: 128325 Published: OCT 15 2020

90. Influence of cation distribution on magnetic response of polycrystalline Co_{1-x}Ni_xFe₂O₄ (0 ≤ x ≤ 1) ferrites
Bestha, Kranthi Kumar; Abraham, Joyal John; Chelvane, Jeyaramane Arout; et al.
PHYSICA SCRIPTA Volume: 95 Issue: 8 Article Number: 085802 Published: AUG 2020

89. Raman spectra tell us so much more: Raman features and saturation magnetization for efficient analysis of manganese zinc ferrite nanoparticles
Nekvapil, Fran; Bunge, Alexander; Radu, Teodora; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 51 Issue: 6 Pages: 959-968 Published: JUN 2020

88. Magnetic Properties of NiFe₂O₄ Compound: Ab Initio Calculation and Monte Carlo Simulation
Idrissi, L.; Tahiri, N.; El Bounagui, O.; et al.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume: 33 Issue: 5 Pages: 1369-1375 Published: MAY 2020

87. Effect performance of the nanomagnetic properties of Ni-Cu-Co ferrites by Al³⁺ ions adulteration
Suo, Nanzhaxi; Sun, Aimin; Yu, Lichao; et al.
MODERN PHYSICS LETTERS B Volume: 34 Issue: 5 Article Number: 2050059 Published: FEB 20 2020

86. Interface-induced perpendicular magnetic anisotropy in Co₂FeAl/NiFe₂O₄ superlattice: first-principles study
Li, Fangfang; Yang, Baishun; Zhang, Jianmin; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 22 Issue: 2 Pages: 716-723 Published: JAN 14 2020

85. Stirring-mediated anomalous dielectric behaviour of electrodeposited and in situ oxidized FeAl₂O₄ thin films

- Awan, Attia; Riaz, Saira; Butt, Azqa Farrukh; et al.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 31 Issue: 1 Special Issue: SI Pages: 814-831
Published: JAN 2020
84. Disordered structure of ZnAl₂O₄ phase and the formation of a Zn NCO complex in ZnAl mixed oxide catalysts for glycerol carbonylation with urea
Nguyen-Phu, H., Shin, E.W.
Journal of Catalysis 373, pp. 147-160 (2019)
83. Cationic ordering and magnetic properties of rare-earth doped NiFe₂O₄ probed by Mossbauer and X-ray spectroscopies
Ugendar, Kodam; Hari Babu, Vasili; Reddy, V. Raghavendra; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 484 Pages: 291-297 Published: AUG 15 2019
82. Cation distribution in nanocrystalline cobalt substituted nickel ferrites: X-ray diffraction and Raman spectroscopic investigations
Nandan, Brajesh; Bhatnagar, M. C.; Kashyap, Subhash C.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 129 Pages: 298-306 Published: JUN 2019.
81. Nickel based oxide film formed in molten salts for efficient electrocatalytic oxygen evolution
Liang, Xin Xin; Weng, Wei; Gu, Dong; et al.
JOURNAL OF MATERIALS CHEMISTRY A Volume: 7 Issue: 17 Pages: 10514-10522 Published: MAY 7 2019
80. Room-temperature multiferroic and magnetodielectric properties of SrTiO₃/NiFe₂O₄ composite ceramics
Ke, Hua; Zhang, Hongjun; Zhou, Junjie; et al.
CERAMICS INTERNATIONAL Volume: 45 Issue: 7 Pages: 8238-8242 Part: A Published: MAY 2019
79. Ferroelectric order associated with ordered occupancy at the octahedral site of the inverse spinel structure of multiferroic NiFe₂O₄
Dey, J. K.; Chatterjee, A.; Majumdar, S.; et al.
PHYSICAL REVIEW B Volume: 99 Issue: 14 Article Number: 144412 Published: APR 15 2019
78. Evidence of surface spin-glass behavior in NiFe₂O₄ nanoparticles determined using magnetic resonance technique
Mantilla, J.; Leon Felix, L.; Martinez, M. A. R.; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 476 Pages: 392-397 Published: APR 15 2019
77. Spin glass freezing, magnetocapacitance and dielectric anomalies in 0.3NiFe₂O₄-0.7BiFeO₃ nanocomposite
Sarathbavan, M.; Annamalai, K.; Parida, Tripta; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 474 Pages: 144-151 Published: MAR 15 2019
76. Cation Vacancies in NiFe₂O₄ During Heat Treatments at High Temperatures: Structural, Morphological and Magnetic Characterization
Salazar-Tamayo, Harrison; Garcia Tellez, Karen Edilma; Barrero Meneses, Cesar Augusto
MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS Volume: 22 Issue: 5 Article Number: e20190298
Published: 2019
75. Magnetic Properties and Electrical Conductivity of NiFe₂O₄-MWNT/PVA Nanocomposite Films
Mulyawan, A., Purwanto, S., Mashadi, M.
Journal of Physics: Conference Series 1091(1),012001 (2018)
74. Structure and magnetism of ultrathin nickel-iron oxides grown on Ru(0001) by high-temperature oxygen-assisted molecular beam epitaxy
Mandziak, Anna; de la Figuera, Juan; Ruiz-Gomez, Sandra; et al.
SCIENTIFIC REPORTS Volume: 8 Article Number: 17980 Published: DEC 19 2018
73. Cation distributions and magnetism of Al-substituted CoFe₂O₄ - NiFe₂O₄ solid solutions synthesized by sol-gel auto-combustion method
Kumar, R. Vijaya; Anupama, A. V.; Kumar, R.; et al.
CERAMICS INTERNATIONAL Volume: 44 Issue: 17 Pages: 20708-20715 Published: DEC 1 2018
72. Designing Magnetic Anisotropy through Strain Doping
Herklotz, Andreas; Gai, Zheng; Sharma, Yogesh; et al.
ADVANCED SCIENCE Volume: 5 Issue: 11 Article Number: 1800356 Published: NOV 2018
71. In house designed magnetron sputtering source: Effect of power and annealing on structural, optical and magnetic properties of NiFe₂-xLuxO₄ (x=0, 0.075) thin films
Kodam, Ugendar; Baby, Anoop K. B.; Markandeyulu, G.
THIN SOLID FILMS Volume: 662 Pages: 180-186 Published: SEP 30 2018
70. Magnetic properties of multilayer BaTiO₃/NiFe₂O₄ thin films prepared by solution deposition technique
Bajac, Branimir; Milanovic, Marija; Cvejic, Zeljka; et al.
CERAMICS INTERNATIONAL Volume: 44 Issue: 13 Pages: 15965-15971 Published: SEP 2018
69. Transition metal cations on the move: simultaneous operando X-ray absorption spectroscopy and X-ray diffraction investigations during Li uptake and release of a NiFe₂O₄/CNT composite
Permien, Stefan; Neumann, Tobias; Indris, Sylvio; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 20 Issue: 28 Pages: 19129-19141 Published: JUL 28 2018
68. Development of magnetoelectric nanocomposite for soft technology

- Bitla, Yugandhar; Chu, Ying-Hao
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 51 Issue: 23 Article Number: 234006 Published: JUN 13 2018
67. Nanocrystal growth, magnetic and electrochemical properties of NiZn ferrite
Freire, R. M.; Freitas, P. G. C.; Galvao, W. S.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 738 Pages: 206-217 Published: MAR 25 2018
66. Raman spectra of Ni1-XZnXFe2O4 nanopowders
Aliyeva, Shahla; Babayev, Sardar; Mehdiyev, Talat
JOURNAL OF RAMAN SPECTROSCOPY Volume: 49 Issue: 2 Pages: 271-278 Published: FEB 2018
65. Dielectric Anomalies and Competing Magnetic Interactions in NiFe2O4-PMN-PT Nanocomposite Materials
Bharathi, K. Kamala; Parida, Tripta; Dara, Hanuma Kumar; et al.
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 122 Issue: 1 Pages: 880-887 Published: JAN 11 2018
64. Effect of Substrate Temperature on Some Properties of Nitrogen Incorporated Nickel Ferrite Thin Films
Baby, K. B. Anoop; Markandeyulu, G.; Subrahmanyam, A.
AIP Conference Proceedings Volume: 1942 Article Number: 080042 Published: 2018
63. Structural, Magnetic and Magnetoreactance Studies In NiFe2-xR_xO₄ (x=0, 0.05; R = Y, Yb and Lu)
Ugendar, Kodam; Chunchu, Venkatrao; Rani, G. Neeraja; et al.
AIP Conference Proceedings Volume: 1942 Article Number: 130016 Published: 2018
62. Ushakov, M. V.; Senthilkumar, B.; Selvan, R. Kalai; et al.
Mossbauer spectroscopy of NiFe2O4 nanoparticles: The effect of Ni²⁺ in the Fe³⁺ local microenvironment in both tetrahedral and octahedral sites
MATERIALS CHEMISTRY AND PHYSICS Volume: 202 Pages: 159-168 Published: DEC 1 2017
61. Jian, Gang; Xue, Fei; Zhang, Chen; et al.
Orientation dependence of elastic and piezomagnetic properties in NiFe2O4
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 442 Pages: 141-144 Published: NOV 15 2017
60. Baby, K. B. Anoop; Markandeyulu, G.; Subrahmanyam, A.
Magnetic Properties of Nanocrystalline N-NFO Thin Films
IEEE TRANSACTIONS ON MAGNETICS Volume: 53 Issue: 11 Article Number: 2002505 Published: NOV 2017
59. Baby, K. B. Anoop; George, Lijin; Jaiswal, Manu; et al.
Structure-Property Correlations of Carbon and Nitrogen Incorporated NiFe2O4
IEEE TRANSACTIONS ON MAGNETICS Volume: 53 Issue: 11 Article Number: 1000705 Published: NOV 2017
58. Aakash; Nordblad, Per; Mohan, Rajendra; et al.
Structural, magnetic and hyperfine characterizations of nanocrystalline Zn-Cd doped nickel ferrites
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 441 Pages: 710-717 Published: NOV 1 2017
57. Chand, Prakash; Vaish, Swapnil; Kumar, Praveen
Structural, optical and dielectric properties of transition metal (MFe2O4; M = Co, Ni and Zn) nanoferrites
PHYSICA B-CONDENSED MATTER Volume: 524 Pages: 53-63 Published: NOV 2017
56. Lyubutin, Igor S.; Lin, Chun-Rong; Starchikov, Sergey S.; et al.
Structural, Magnetic, and Electronic Properties of Mixed Spinel NiFe2-xCr_xO₄ Nanoparticles Synthesized by Chemical Combustion
INORGANIC CHEMISTRY Volume: 56 Issue: 20 Pages: 12469-12475 Published: OCT 16 2017
55. Wang, Yan; Li, Liping; Zhang, Yuelan; et al.
Growth Kinetics, Cation Occupancy, and Magnetic Properties of Multimetal Oxide Nanoparticles: A Case Study on Spinel NiFe2O4
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 121 Issue: 35 Pages: 19467-19477 Published: SEP 7 2017
54. O'Quinn, Eric C.; Shamblin, Jacob; Perlov, Brandon; et al.
Inversion in Mg1-xNixAl2O4 Spinel: New Insight into Local Structure
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 139 Issue: 30 Pages: 10395-10402 Published: AUG 2 2017
53. Chauhan, Lalita; Singh, Nidhi; Dhar, Ajay; et al.
Structural and electrical properties of Dy³⁺ substituted NiFe2O4 ceramics prepared from powders derived by combustion method
CERAMICS INTERNATIONAL Volume: 43 Issue: 11 Pages: 8378-8390 Published: AUG 1 2017
52. Ugendar, Kodam; Samanta, S.; Rayaprol, Sudhindra; et al.
Effect of frustrated exchange interactions and spin-half-impurity on the electronic structure of strongly correlated NiFe2O4
PHYSICAL REVIEW B Volume: 96 Issue: 3 Article Number: 035138 Published: JUL 19 2017
51. Abidat, I.; Morais, C.; Comminges, C.; et al.
Three dimensionally ordered mesoporous hydroxylated NixCo(3-x)O(4) spinels for the oxygen evolution reaction: on the hydroxyl-induced surface restructuring effect
JOURNAL OF MATERIALS CHEMISTRY A Volume: 5 Issue: 15 Pages: 7173-7183 Published: APR 21 2017
50. Rani, Jyoti; Kushwaha, Varun K.; Kolte, Jayant; et al.
Structural, dielectric and magnetoelectric studies of [0.5Ba(Zr0.2Ti0.8)O-3-0.5(Ba0.7Ca0.3)TiO3]-Ni0.8Zn0.2Fe2O4 multiferroic composites

49. Liu, Heng-Jui; Wang, Chih-Kuo; Su, Dong; et al.
Flexible Heteroepitaxy of CoFe₂O₄/Muscovite Bimorph with Large Magnetostriction
ACS APPLIED MATERIALS & INTERFACES Volume: 9 Issue: 8 Pages: 7297-7304 Published: MAR 1 2017
48. Kodam, Ugendar; Bharathi, Kamala K.; Reddy, Raghavendra, V; et al.
Onsite magnetic moment through cation distribution and magnetocrystalline anisotropy studies in NiFe₂-xR_xO₄ (R = Y and Lu; x=0, 0.05, and 0.075)
JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 5 Article Number: 055101 Published: FEB 7 2017
47. Panwar, Kalpana; Tiwari, Shailja; Bapna, Komal; et al.
The effect of Cr substitution on the structural, electronic and magnetic properties of pulsed laser deposited NiFe₂O₄ thin films
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 421 Pages: 25-30 Published: JAN 1 2017
46. Karimi, S (Karimi, S.); Kameli, P (Kameli, P.); Ahmadvand, H (Ahmadvand, H.); Salamati, H (Salamati, H.)
Effects of Zn-Cr-substitution on the structural and magnetic properties of Ni_{1-x}Zn_xFe_{2-x}Cr_xO₄ ferrites
CERAMICS INTERNATIONAL Volume: 42 Issue: 15 Pages: 16948-16955 DOI: 10.1016/j.ceramint.2016.07.196 Published: NOV 15 2016
45. Jong, UG (Jong, Un-Gi); Yu, CJ (Yu, Chol-Jun); Park, YS (Park, Yong-Su); Ri, CS (Ri, Chong-Suk)
First-principles study of ferroelectricity induced by p-d hybridization in ferrimagnetic NiFe₂O₄
PHYSICS LETTERS A Volume: 380 Issue: 40 Pages: 3302-3306 DOI: 10.1016/j.physleta.2016.08.006 Published: SEP 23 2016
44. Dimitrievska, M., Ivetić, T.B., Litvinchuk, A.P., Fairbrother, A., Miljević, B.B., Štrbac, G.R., Pérez Rodríguez, A., Lukić-Petrović, S.R.
Eu³⁺-Doped Wide Band Gap Zn₂SnO₄ Semiconductor Nanoparticles: Structure and Luminescence
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 120 Issue: 33 Pages: 18887-18894 DOI: 10.1021/acs.jpcc.6b05335 Published: AUG 25 2016
43. Ugendar, K., Vaithyanathan, V., Patro, L.N., Inbanathan, S.S.R., Bharathi, K.K.
Temperature-dependent magnetization, anisotropy and conductivity of CoFe₂-xSn_xO₄ (x=0.025, 0.05, 0.075): appearance of grain boundary conductivity at high temperatures
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 49 Issue: 30 Article Number: 305001 DOI: 10.1088/0022-3727/49/30/305001 Published: AUG 3 2016
42. Chauhan, L., Shukla, A.K., Sreenivas, K.
Properties of NiFe₂O₄ ceramics from powders obtained by auto-combustion synthesis with different fuels
CERAMICS INTERNATIONAL Volume: 42 Issue: 10 Pages: 12136-12147 DOI: 10.1016/j.ceramint.2016.04.146 Published: AUG 1 2016
41. Aakash, Choubey, R., Das, D., Mukherjee, S.
Effect of doping of manganese ions on the structural and magnetic properties of nickel ferrite
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 668 Pages: 33-39 DOI: 10.1016/j.jallcom.2016.01.198 Published: MAY 25 2016
40. Otero-Lorenzo, R., Fantechi, E., Sangregorio, C., Salgueirino, V.
Solvothermally Driven Mn Doping and Clustering of Iron Oxide Nanoparticles for Heat Delivery Applications
CHEMISTRY-A EUROPEAN JOURNAL Volume: 22 Issue: 19 Pages: 6666-6675 DOI: 10.1002/chem.201505049 Published: MAY 4 2016
39. Shamblin, J., Feygenson, M., Neuefeind, J., Tracy, C.L., Zhang, F., Finkeldei, S., Bosbach, D., Zhou, H., Ewing, R.C., Lang, M.
Probing disorder in isometric pyrochlore and related complex oxides
NATURE MATERIALS Volume: 15 Issue: 5 Pages: 507-511 DOI: 10.1038/NMAT4581 Published: MAY 2016
38. Aakash, Roychowdhury, A., Das, D., Mukherjee, S.
Effect of doping of chromium ions on the structural and magnetic properties of nickel ferrite
CERAMICS INTERNATIONAL Volume: 42 Issue: 6 Pages: 7742-7747 DOI: 10.1016/j.ceramint.2016.01.188 Published: MAY 1 2016
37. Datt, G., Sen Bishwas, M., Manivel Raja, M., Abhyankar, A.C.
Observation of magnetic anomalies in one-step solvothermally synthesized nickel-cobalt ferrite nanoparticles
NANOSCALE Volume: 8 Issue: 9 Pages: 5200-5213 DOI: 10.1039/c5nr06791j Published: 2016
36. Quandt, N., Roth, R., Syrowatka, F., Steimecke, M., Ebbinghaus, S.G.
Spin-Coating and Characterization of Multiferroic MFe₂O₄ (M=Co, Ni) / BaTiO₃ Bilayers
JOURNAL OF SOLID STATE CHEMISTRY Volume: 233 Pages: 82-89 DOI: 10.1016/j.jssc.2015.10.010 Published: JAN 2016
35. Majumder, A., Ugendar, K., Anoop Baby, K.B., Chunchu, V., Mondal, R.A., Markandeyulu, G.
Anisotropy, Magnetostriction and Converse Magnetoelectric Effect in Dy Substituted Ni Ferrite
Physics Procedia 75, 238-244 DOI: 10.1016/j.phpro.2015.12.029 (2015)
34. Amir, M., Ünal, B., Geleri, M., Güngüneş, H., Shirsath, S.E., Baykal, A.
Electrical properties and hyperfine interactions of boron doped Fe₃O₄ nanoparticles
SUPERLATTICES AND MICROSTRUCTURES Volume: 88 Pages: 450-466 DOI: 10.1016/j.spmi.2015.10.005 Published: DEC 2015
33. Cvejić, Ž., Durdić, E., Ivković Ivandekić, G., Bajac, B., Postolache, P., Mitoseriu, L., Srdić, V.V., Rakić, S.
The effect of annealing on microstructure and cation distribution of NiFe₂O₄

32. Ehi-Eromosele, C.O., Ita, B.I., Iweala, Ej., Adalikwu, S.A., Anawe, P.A.L.
Magneto-structural properties of Ni-Zn nanoferrites synthesized by the low-temperature auto-combustion method
BULLETIN OF MATERIALS SCIENCE Volume: 38 Issue: 5 Pages: 1465-1472 Published: SEP 2015
31. Puli, Venkata Sreenivas; Adireddy, Shiva; Ramana, C. V.
Chemical bonding and magnetic properties of gadolinium (Gd) substituted cobalt ferrite
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 644 Pages: 470-475 Published: SEP 25 2015
30. Vaithyanathan, V.; Ugendar, Kodam; Chelvane, J. Arout; et al.
Structural and magnetic properties of Sn and Ti doped Co ferrite
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 382 Pages: 88-92 Published: MAY 15 2015
29. Lang, L. L.; Xu, J.; Li, Z. Z.; et al.
Study of the magnetic structure and the cation distributions in MnCo spinel ferrites
PHYSICA B-CONDENSED MATTER Volume: 462 Pages: 47-53 Published: APR 1 2015
28. Lazarevic, Zorica Z.; Milutinovic, Aleksandra N.; Jovalekic, Cedomir D.; et al.
Spectroscopy investigation of nanostructured nickel-zinc ferrite obtained by mechanochemical synthesis
MATERIALS RESEARCH BULLETIN Volume: 63 Pages: 239-247 Published: MAR 2015
27. Bao, Lihong; Zang, Jianfeng; Wang, Guofeng; et al.
Atomic-Scale Imaging of Cation Ordering in Inverse Spinel Zn₂SnO₄ Nanowires
NANO LETTERS Volume: 14 Issue: 11 Pages: 6505-6509 Published: NOV 2014
26. Lang, L. L.; Xu, J.; Qi, W. H.; et al.
Study of cation magnetic moment directions in Cr (Co) doped nickel ferrites
JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 12 Article Number: 123901 Published: SEP 28 2014
25. Arras, R.; Calmels, L.
Fully spin-polarized two-dimensional electron gas at the CoFe₂O₄/MgAl₂O₄(001) polar interface
PHYSICAL REVIEW B 90 (4), Art. No. 045411 JUL 17 2014
24. Dong, Guohua; Tan, Guoqiang; Luo, Yangyang; et al.
The superior multiferroic properties of Bi_{0.85}Nd_{0.15}Fe_{0.98}Mn_{0.02}O₃/CoFe₂O₄ heterostructure thin film at room temperature
MATERIALS LETTERS 127, pp. 24-27 JUL 15 2014
23. Kumar, K. S. Aneesh; Bhowmik, R. N.
Micro-structural characterization and magnetic study of Ni_{1.5}Fe_{1.5}O₄ ferrite synthesized through coprecipitation route at different pH values
MATERIALS CHEMISTRY AND PHYSICS 146 (1-2), pp. 159-169 JUL 15 2014
22. Lekha, P. Chithra; Ramesh, G.; Revathi, V.; et al.
Relaxor-like ferroelectric behaviour favoured by short-range B-site ordering in 10% Ba²⁺ substituted MgFe₂O₄
MATERIALS RESEARCH BULLETIN 53, pp. 240-245 MAY 2014
21. Tsai, C. Y.; Chen, H. R.; Chang, F. C.; et al.
Anisotropic strain, magnetic properties, and lattice dynamics in self-assembled multiferroic CoFe₂O₄-PbTiO₃ nanostructures
JOURNAL OF APPLIED PHYSICS 115 (13), Art. No. 134317 APR 7 2014
20. Tang, G. D.; Han, Q. J.; Xu, J.; et al.
Investigation of magnetic ordering and cation distribution in the spinel ferrites Cr_xFe_{3-x}O₄ (0.0 ≤ x ≤ 1.0)
PHYSICA B-CONDENSED MATTER 438, pp. 91-96 APR 1 2014
19. Shen, Liming; Althammer, Matthias; Pachauri, Neha; et al.
Epitaxial growth of spinel cobalt ferrite films on MgAl₂O₄ substrates by direct liquid injection chemical vapor deposition
JOURNAL OF CRYSTAL GROWTH 390, pp. 61-66 MAR 15 2014
18. Cheng, Ching
Enhanced magnetization and conductive phase in NiFe₂O₄
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 325, 144-146, 2013
17. Walsh, Sean R.; Rusakova, Irene; Whitmire, Kenton H.
Rock salt vs. wurtzite phases of Co_{1-x}Mn_xO: control of crystal lattice and morphology at the nanoscale
CRYSTENGCOMM 15 (4), 775-784, 2013
16. Zhong, H., Xiao, X., Zheng, S., Zhang, W., Ding, M., Jiang, H., Huang, L., Kang, J.
Mass spectrometric analysis of mono- and multi-phosphopeptides by selective binding with NiZnFe₂O₄ magnetic nanoparticles
Nature Communications 4, art. no. 1656, 2013
15. Tsai, C.Y., Chen, H.R., Chang, F.C., Tsai, W.C., Cheng, H.M., Chu, Y.H., Lai, C.H., Hsieh, W.F.
Stress-mediated magnetic anisotropy and magnetoelastic coupling in epitaxial multiferroic PbTiO₃-CoFe₂O₄ nanostructures
Applied Physics Letters 102 (13), art. no. 132905, 2013

14. Himcinschi, C., Vrejoiu, I., Salvan, G., Fronk, M., Talkenberger, A., Zahn, D.R.T., Rafaja, D., Kortus, J.
Optical and magneto-optical study of nickel and cobalt ferrite epitaxial thin films and submicron structures
Journal of Applied Physics 113 (8), art. no. 084101, 2013
 13. Caffrey, N.M., Fritsch, D., Archer, T., Sanvito, S., Ederer, C.
Spin-filtering efficiency of ferrimagnetic spinels CoFe₂O₄ and NiFe₂O₄
Physical Review B - Condensed Matter and Materials Physics 87 (2), art. no. 024419, 2013
 12. Lorenz, M., Ziese, M., Wagner, G., Lenzner, J., Kranert, C., Brachwitz, K., Hochmuth, H., (...), Grundmann, M.
Exchange bias and magnetodielectric coupling effects in ZnFe₂O₄-BaTiO₃ composite thin films
CrystEngComm 14 (20), pp. 6477-6486, 2012
 11. Ravindra, A.V., Padhan, P., Prellier, W.
Electronic structure and optical band gap of CoFe₂O₄ thin films
Applied Physics Letters 101 (16), art. no. 161902, 2012
 10. Gutiérrez, D., Foerster, M., Fina, I., Fontcuberta, J., Fritsch, D., Ederer, C.
Dielectric response of epitaxially strained CoFe₂O₄ spinel thin films
Physical Review B - Condensed Matter and Materials Physics 86 (12), art. no. 125309, 2012
 9. Landon, J., Demeter, E., Inoğlu, N., Keturakis, C., Wachs, I.E., Vasić, R., Frenkel, A.I., Kitchin, J.R.
Spectroscopic characterization of mixed Fe-Ni oxide electrocatalysts for the oxygen evolution reaction in alkaline electrolytes
ACS Catalysis 2 (8), pp. 1793-1801, 2012
 8. Fritsch, D., Ederer, C.
First-principles calculation of magnetoelastic coefficients and magnetostriction in the spinel ferrites CoFe₂O₄ and NiFe₂O₄
Physical Review B - Condensed Matter and Materials Physics 86 (1), art. no. 014406, 2012
 7. Benrabaa R.; Boukhlof H.; Barama S.; et al.
Structural, Textural and Acid-Base Properties of Nano-Sized NiFe₂O₄ Spinel Catalysts
CATALYSIS LETTERS 142 (1), 42-49, JAN 2012.
 6. Li, N., Wang, Y.-H.A., Iliev, M.N., Klein, T.M., Gupta, A.
Growth of Atomically Smooth Epitaxial Nickel Ferrite Films by Direct Liquid Injection CVD
CHEMICAL VAPOR DEPOSITION Volume: 17 Issue: 7-9 Pages: 261-269 DOI: 10.1002/cvde.201106930 Published: SEP 2011
 5. Stevanovic, V (Stevanovic, Vladan); d'Avezac, M (d'Avezac, Mayeul); Zunger, A (Zunger, Alex)
Universal Electrostatic Origin of Cation Ordering in A(2)BO(4) Spinel Oxides
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 133 Issue: 30 Pages: 11649-11654 DOI: 10.1021/ja2034602
Published: AUG 3 2011
 4. Zhu X. F.; Chen L. F.
First-principles study of the electronic and magnetic properties of a Nickel-Zinc ferrite: Zn_xNi_(1-x)Fe₂O₄
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 323 (23), pp.3138-3142, DEC 2011
 3. Fritsch, D., Ederer, C.
Effect of epitaxial strain on the cation distribution in spinel ferrites CoFe₂O₄ and NiFe₂O₄: A density functional theory study
Applied Physics Letters 99 (8), art. no. 081916, AUG 22 2011.
 2. Haetge, J., Suchomski, C., Brezesinski, T.
Ordered mesoporous MFe₂O₄ (M = Co, Cu, Mg, Ni, Zn) thin films with nanocrystalline walls, uniform 16 nm diameter pores and high thermal stability: Template-directed synthesis and characterization of redox active trevorite
Inorganic Chemistry 49 (24), pp. 11619-11626, DEC 20 2010.
 1. Fritsch Daniel, Ederer Claude
Epitaxial strain effects in the spinel ferrites CoFe₂O₄ and NiFe₂O₄ from first principles
Physical Review B - Condensed Matter and Materials Physics 82 (10), art. no. 104117, SEP 23 2010.
73. *“Synthesis and characterization of RBaCo₂O_{5+x} (R = La, Nd, Gd, Y and Ho)”*
N. D. Todorov, M. V. Abrashev, V. G. Ivanov, G. V. Avdeev and S. C. Russev
Journal of Physics: Conference Series **253** (2010) 012071 (6 pages)
1. Gomez, L.; Galeano, V.; Vallejo, E.; et al.
On the magnetic behavior of polycrystalline RBaCo₂O_{5+δ} synthesized by solid state and wet chemical routes
Journal of Physics Conference Series 480, Art. No. 012035 2014
74. *“Lattice dynamics of the α and β phases of LiFe₅O₈”*
M. N. Iliev, V. G. Ivanov, N. D. Todorov, V. Marinova, M. V. Abrashev, R. Petrova, Y.-Q. Wang, and A. P. Litvinchuk
Physical Review B **83**, 174111 (2011) (7 pages)
20. Magnetodielectric response of composites based on a natural garnet and spinel ferrites for sub-GHz wireless applications
N, S., Ganesanpotti, S.

19. Structural and magnetic properties of ordered inverse spinel $\text{Li}_x\text{Fe}_5\text{O}_8$
Kumawat, K. K.; Jain, A.; Meena, Sher Singh; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 865 Article Number: 158849 Published: JUN 5 2021
18. Magnetic anomalies, chemical and magnetic properties at wide temperature range (15-1000 K) in $\text{Li}_{\text{Srx}}\text{Fe}_{5-\text{x}}\text{O}_8$ ($\text{x}=0, 0.025, 0.05$)
Udhayakumar, S.; Kumar, G. Jagadish; Kumar, E. Senthil; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 859 Article Number: 158290 Published: APR 5 2021
17. Facile and Low-Temperature Synthesis of $\gamma\text{-Fe}_2\text{O}_3$ Nanoparticles with Thermally Stable Ferrimagnetism for Use in Magnetic Recording Tapes
Uyama, T., Mukai, K., Yamada, I.
ACS Applied Nano Materials 3(11), pp. 10678-10690 (2020)
16. Transformation of Solid Solution with Spinel-Type Structure Within the Range $\text{LiMn}_{2-\text{x}}(\text{Ni}_{0.33}\text{Co}_{0.33}\text{Fe}_{0.33})_{\text{x}}\text{O}_4$ ($0 \leq \text{x} \leq 2$)
Nipan, G. D.; Smirnova, M. N.; Kornilov, D. Yu; et al.
JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION Volume: 41 Issue: 6 Special Issue: SI Pages: 819-826 Published: DEC 2020
15. Strain-tuned optical property in magnetoelectric LiFe_5O_8 thin film
Li, Hua; Wang, Xin; Zhou, Pengxia; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 821 Article Number: 153199 Published: APR 25 2020
14. Magnetic and broadband dielectric studies of calcium-substituted LiFe_5O_8
Mohapatra, Prajna P.; Dobbidi, Pamu
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 500 Article Number: 166354 Published: APR 15 2020
13. Self-Assembled Room Temperature Multiferroic $\text{BiFeO}_3\text{-LiFe}_5\text{O}_8$ Nanocomposites
Sharma, Yogesh; Agarwal, Radhe; Collins, Liam; et al.
ADVANCED FUNCTIONAL MATERIALS Volume: 30 Issue: 3 Article Number: 1906849 Published: JAN 2020
12. Influence of Ag doping on the dielectric and magnetic properties of LiFe_5O_8 ceramics
Li, Jing; Zhou, Di
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 785 Pages: 13-18 Published: MAY 15 2019
11. Magnetic Elastomeric Composites Filled by Lithium Ferrites
Usakova, Mariana; Usak, Elemir; Dosoudil, Rastislav; et al.
AIP Conference Proceedings Volume: 2131 Article Number: 020049 Published: 2019
10. A spinel-related solid solution ceramic $0.7\text{LiFe}_5\text{O}_8\text{-}0.3\text{Li}_2\text{MgTi}_3\text{O}_8$ with high permeability and excellent microwave dielectric properties
He, L., Wang, J., Zhang, C., Xie, H., Qun, L.
Materials Letters 232, pp. 157-159 (2018)
9. Facile Synthesis of Flowerlike LiFe_5O_8 Microspheres for Electrochemical Supercapacitors
Lin, Ying; Dong, Jingjing; Dai, Jingjing; et al.
INORGANIC CHEMISTRY Volume: 56 Issue: 24 Pages: 14960-14967 Published: DEC 18 2017
8. Electrical relaxation, optical and magnetic studies of nanocrystalline lithium ferrite synthesized by different chemical routes
Cheruku, Rajesh; Govindaraj, G.; Vijayan, Lakshmi
MATERIALS RESEARCH EXPRESS Volume: 4 Issue: 12 Article Number: 125008 Published: DEC 2017
7. Reitz, C., Suchomski, C., Wang, D., Hahn, H., Brezesinski, T.
In situ tuning of magnetization via topotactic lithium insertion in ordered mesoporous lithium ferrite thin films
JOURNAL OF MATERIALS CHEMISTRY C Volume: 4 Issue: 38 Pages: 8889-8896 DOI: 10.1039/c6tc02731h Published: 2016
6. He, Li; Mi, Shao-Bo; Jin, Xiaowei; et al.
Order-Disorder Phase Transition and Magneto-Dielectric Properties of $(1-\text{x})\text{LiFe}_5\text{O}_8\text{-xLi(2)ZnTi(3)O(8)}$ Spinel-Structured Solid Solution Ceramics
JOURNAL OF THE AMERICAN CERAMIC SOCIETY Volume: 98 Issue: 7 Pages: 2122-2129 Published: JUL 2015
5. Pachauri, Neha; Khodadadi, Behrouz; Althammer, Matthias; et al.
Study of structural and ferromagnetic resonance properties of spinel lithium ferrite (LiFe_5O_8) single crystals
JOURNAL OF APPLIED PHYSICS Volume: 117 Issue: 23 Article Number: 233907 Published: JUN 21 2015
4. Soreto Teixeira, S.; Graca, M. P. F.; Dionisio, M.; et al.
Self-standing elastomeric composites based on lithium ferrites and their dielectric behavior
JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 22 Article Number: 224102 Published: DEC 14 2014
3. Cheruku, Rajesh; Govindaraj, G.; Vijayan, Lakshmi
Super-linear frequency dependence of ac conductivity in nanocrystalline lithium ferrite
MATERIALS CHEMISTRY AND PHYSICS 146 (3), pp. 389-398 AUG 14 2014
2. Teixeira, S. Soreto; Graca, M. P. F.; Costa, L. C.; et al.

Study of the influence of thermal treatment on the magnetic properties of lithium ferrite prepared by wet ball-milling using nitrates as raw material

MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS 186, pp. 83-88 AUG 2014

I.Teixeira, S.S., Graça, M.P.F., Costa, L.C.

Dielectric, morphological and structural properties of lithium ferrite powders prepared by solid state method

Journal of Non-Crystalline Solids 358 (16), pp. 1924-1929, 2012

75. “Comparative Raman study of isostructural YCrO_3 and YMnO_3 : Effects of structural distortions and twinning”

N. D. Todorov, M. V. Abrashev, V. G. Ivanov, G. G. Tsutsumanova, V. Marinova, Y.-Q. Wang, and M. N. Iliev

Physical Review B **83**, 224303 (2011) (6 pages)

39. Ni/YMnO₃ perovskite catalyst for CO₂ methanation

González-Castaño, M., de Miguel, J.C.N., Penkova, A., (...), Odriozola, J.A., Arellano-Garcia, H.

Applied Materials Today 23,101055 (2021)

38. Magnetoelastic coupling and spin contributions to entropy and thermal transport in biferroic yttrium orthochromite

Bajaj, Naini; Roy, Aditya Prasad; Khandelwal, Ashish; et al.

JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 33 Issue: 12 Article Number: 125702 Published: MAR 23 2021

37. Physical study of $\text{PrCu}_{1-x}\text{Zn}_x\text{O}_3$ perovskite for $0.0 \leq x \leq 0.3$

Maayoufi, A. E.; Sdiri, N.; Valente, M. A.; et al.

JOURNAL OF ALLOYS AND COMPOUNDS Volume: 849 Article Number: 156239 Published: DEC 30 2020

36. Site substitution in GdMnO_3 : Effects on structural, electronic, and magnetic properties

Mahana, Sudipta; Pandey, Shishir Kumar; Rakshit, Bipul; et al.

PHYSICAL REVIEW B Volume: 102 Issue: 24 Article Number: 245120 Published: DEC 15 2020

35. Spin-phonon coupling and thermodynamic behaviour in YCrO_3 and LaCrO_3 : inelastic neutron scattering and lattice dynamics

Gupta, Mayanak K.; Mittal, Ranjan; Mishra, Sanjay K.; et al.

JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 32 Issue: 50 Article Number: 505402 Published: SEP 30 2020

34. Magnetocaloric effect and spin-phonon correlations in $\text{RFe}_{0.5}\text{Cr}_{0.5}\text{O}_3$ (R = Er and Yb) compounds

Yadav, Kavita; Kaur, Gurpreet; Sharma, Mohit K.; et al.

PHYSICS LETTERS A Volume: 384 Issue: 26 Article Number: 126638 Published: SEP 18 2020

33. Crystalline and magnetic structures, magnetization, heat capacity, and anisotropic magnetostriction effect in a yttrium-chromium oxide

Zhu, Yinghao; Fu, Ying; Tu, Bao; et al.

PHYSICAL REVIEW MATERIALS Volume: 4 Issue: 9 Article Number: 094409 Published: SEP 15 2020

32. Spin-phonon coupling in monoclinic BiCrO_3

Araujo, B. S.; Arevalo-Lopez, A. M.; Santos, C. C.; et al.

JOURNAL OF APPLIED PHYSICS Volume: 127 Issue: 11 Article Number: 114102 Published: MAR 21 2020

31. Temperature dependent X-ray diffraction and Raman spectroscopy studies of polycrystalline YCrO_3 ceramics across the T-C similar to 460 K

Mall, Ashish Kumar; Paul, Barnita; Garg, Ashish; et al.

JOURNAL OF RAMAN SPECTROSCOPY Volume: 51 Issue: 3 Pages: 537-545 Published: MAR 2020

30. Structure, Mossbauer spectroscopy and vibration phonon spectra in valence-bond force-field model approach for distorted perovskites AFeO_3 (A = La, Y)

Saha, J.; Jana, Y. M.; Mukherjee, G. D.; et al.

MATERIALS CHEMISTRY AND PHYSICS Volume: 240 Article Number: 122286 Published: JAN 15 2020

29. Physical properties of Nano Crystalline Ceramic $\text{Ho}_{1-x}\text{Ba}_x\text{CrO}_3$

Ben Youssef, R. Triki; Sdiri, Nasr; Valente, M. A.; et al.

CERAMICS INTERNATIONAL Volume: 45 Issue: 16 Pages: 20211-20225 Published: NOV 2019

28. Intrinsic anharmonicity effect in YCrO_3 : Pressure and temperature dependent Raman spectra studies

Su, Yuling; Guo, Jinjin; Cheng, Xuerui; et al.

JOURNAL OF ALLOYS AND COMPOUNDS Volume: 805 Pages: 489-495 Published: OCT 15 2019

27. Structural electronic and magnetic properties of BaBiO_3 single crystals

Foyevtsov, O.; Balandeh, S.; Chi, S.; et al.

PHYSICA B-CONDENSED MATTER Volume: 570 Pages: 328-333 Published: OCT 1 2019

26. Mechano-synthesis of the Whole $\text{Y}_{1-x}\text{Bi}_x\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ Perovskite System: Structural Characterization and Study of Phase Transitions

Angel Quintana-Cilleruelo, Jose; Veerapandiyan, Vignaswaran K.; Deluca, Marco; et al.

MATERIALS Volume: 12 Issue: 9 Article Number: 1515 Published: MAY 1 2019

25. Phase separation and local lattice distortions analysis of charge-ordered manganese films $\text{La}_{1-x}\text{Ca}_x\text{MnO}_{3-\delta}$ by Raman spectroscopy
Trotsenko, V. G.; Lahmar, A.; Lyanguzov, N. V.; et al.
SUPERLATTICES AND MICROSTRUCTURES Volume: 127 Pages: 100-108 Published: MAR 2019
24. Mild Hydrothermal Crystallization of Heavy Rare-Earth Chromite RECrO_3 (RE = Er, Tm, Yb, Lu) Perovskites and Magnetic Properties
Wang, Shan; Wu, Xiaofeng; Wang, Tiesheng; et al.
INORGANIC CHEMISTRY Volume: 58 Issue: 4 Pages: 2315-2329 Published: FEB 18 2019
23. Synthesis and photocatalytic property of p-n junction $\text{YMnO}_3/\text{SrTiO}_3$ composites
Cao, Zhengheng; Wang, Caiqin; Chen, Jun
MATERIALS RESEARCH EXPRESS Volume: 5 Issue: 11 Article Number: 115512 Published: NOV 2018
22. Effect of rare earth ions on structural and optical properties of specific perovskite orthochromates; RCrO_3 (R = La, Nd, Eu, Gd, Dy, and Y)
Singh, Kapil Dev; Pandit, Rabia; Kumar, Ravi
SOLID STATE SCIENCES Volume: 85 Pages: 70-75 Published: NOV 2018
21. Pressure induced anomalous magnetic behaviour in nanocrystalline YCrO_3 at room temperature
Jana, Rajesh; Pareek, Vivek; Khatua, Pradip; et al.
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 30 Issue: 33 Article Number: 335401 Published: AUG 22 2018
20. Two types of B-site ordered structures of the double perovskite Y_2CrMnO_6 : experimental identification and first-principles study
Wang, Weipeng; Liu, Fuyang; Zhang, Xuejing; et al.
INORGANIC CHEMISTRY FRONTIERS Volume: 5 Issue: 1 Pages: 217-224 Published: JAN 2018
19. High pressure studies on nanocrystalline YCrO_3
Jana, Rajesh; Chandra, Amreesh; Mukherjee, Goutam Dev
AIP Conference Proceedings Volume: 1953 Article Number: 030081 Published: 2018
18. Singh, Karan; Sharma, Mohit K.; Mukherjee, K.
Spin-phonon coupling and exchange interaction in Gd substituted $\text{YFe}_{0.5}\text{Cr}_{0.5}\text{O}$
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 447 Pages: 26-31 Published: FEB 1 2018
17. Tailoring the bandgap and magnetic properties by bismuth substitution in neodymium chromite
Mannepalli, Venkateswara Rao; Mohan, M. M. Saj; Ranjith, R.
BULLETIN OF MATERIALS SCIENCE Volume: 40 Issue: 7 Pages: 1503-1511 Published: DEC 2017
16. Polarized Raman scattering on single crystals of rare earth orthochromite RCrO_3 (R=La, Pr, Nd, and Sm)
Camara, Nimbo Robert; Vinh Ta Phuoc; Monot-Laffez, Isabelle; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 48 Issue: 12 Pages: 1839-1851 Published: DEC 2017
15. Magnetic and magnetocaloric properties of HoCrO_3 tuned by selective rare-earth doping
Yin, Shiqi; Seehra, Mohindar S.; Guild, Curtis J.; et al.
PHYSICAL REVIEW B Volume: 95 Issue: 18 Article Number: 184421 Published: MAY 18 2017
14. Lazarevic, Zorica Z.; Jovalekic, Cedomir; Gilic, Martina; et al.
Yttrium Orthoferrite Powder Obtained by the Mechanochemical Synthesis
SCIENCE OF SINTERING Volume: 49 Issue: 3 Pages: 277-284 Published: JUL-SEP 2017
13. Mannepalli, Venkateswara Rao; Raghunathan, Rajamani; Ramadurai, Ranjith; et al.
Local structural distortion and interrelated phonon mode studies in yttrium chromite
JOURNAL OF MATERIALS RESEARCH Volume: 32 Issue: 8 Pages: 1541-1547 Published: APR 2017
12. Shao, Tao; Qi, Zeming; Wang, Yuyin; et al.
Metal-insulator transition in epitaxial NdNiO_3 thin film: A structural, electrical and optical study
APPLIED SURFACE SCIENCE Volume: 399 Pages: 346-350 Published: MAR 31 2017
11. Mannepalli, Venkateswara Rao; Ramadurai, Ranjith
Studies on Local Structural Inhomogeneity and Origin of Ferroelectricity in Yttrium chromite Ceramics
MRS ADVANCES Volume: 1 Issue: 9 Pages: 609-614 Published: 2016
10. Saha, S., Chanda, S., Dutta, A., Sinha, T.P.
Dielectric relaxation of PrFeO_3 nanoparticles
SOLID STATE SCIENCES Volume: 58 Pages: 55-63 DOI: 10.1016/j.solidstatesciences.2016.05.013 Published: AUG 2016
9. Mall, A.K., Garg, A., Gupta, R.
High Temperature X-ray Diffraction, Raman Spectroscopy and Dielectric Studies on Yttrium Orthochromites
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND APPLIED PHYSICS (ICC 2015) Book Series: AIP Conference Proceedings Volume: 1728 Article Number: 020239 DOI: 10.1063/1.4946290 Published: 2016
8. Gupta, Preeti; Poddar, Pankaj
Using Raman and dielectric spectroscopy to elucidate the spin phonon and magnetoelectric coupling in DyCrO_3 nanoplatelets
RSC ADVANCES Volume: 5 Issue: 14 Pages: 10094-10101 Published: 2015

7. Sharma, Yogesh; Sahoo, Satyaprakash; Perez, William; et al.
Phonons and magnetic excitation correlations in weak ferromagnetic YCrO₃
JOURNAL OF APPLIED PHYSICS 115 (18), Art. No. 183907 MAY 14 2014
 6. Staruch, M.; Jain, M.
Evidence of antiferromagnetic and ferromagnetic superexchange interactions in bulk TbMn_{1-x}Cr_xO₃
JOURNAL OF PHYSICS-CONDENSED MATTER 26 (4), Art. No. 046005 JAN 29 2014
 5. Saha, S., Chanda, S., Dutta, A., Sinha, T.P.
Dielectric relaxation and phonon modes of NdCrO₃ nanostructure
Journal of Sol-Gel Science and Technology Volume 69, Issue 3, March 2014, Pages 553-563
 4. Mall, A. K.; Mukherjee, S.; Sharma, Y.; et al.
Temperature Dependent Raman Scattering in YCrO₃
AIP Conference Proceedings 1591, pp. 1753-1754 2014
 3. Singh, Inderjeet; Nigam, A. K.; Landfester, Katharina; et al.
Anomalous magnetic behavior below 10 K in YCrO₃ nanoparticles obtained under droplet confinement
APPLIED PHYSICS LETTERS 103 (18) OCT 28 2013
 2. Tiwari, B., Surendra, M.K., Ramachandra Rao, M.S.
HoCrO₃ and YCrO₃: A comparative study
Journal of Physics Condensed Matter 25 (21), art. no. 216004, 2013
 1. Weber, M.C., Kreisel, J., Thomas, P.A., Newton, M., Sardar, K., Walton, R.I.
Phonon Raman scattering of RCrO₃ perovskites (R=Y, La, Pr, Sm, Gd, Dy, Ho, Yb, Lu)
Physical Review B - Condensed Matter and Materials Physics 85 (5), art. no. 054303, 2012.
76. *“Infrared response of α - and β -phases of LiFe₅O₈”*
V. G. Ivanov, A. P. Litvinchuk, N. D. Todorov, M. V. Abrashev, and V. Marinova
Physical Review B **84**, 094111 (2011) (5 pages)
2. Electrical relaxation, optical and magnetic studies of nanocrystalline lithium ferrite synthesized by different chemical routes
Cheruku, Rajesh; Govindaraj, G.; Vijayan, Lakshmi
MATERIALS RESEARCH EXPRESS Volume: 4 Issue: 12 Article Number: 125008 Published: DEC 2017
 1. Cheruku, Rajesh; Govindaraj, G.; Vijayan, Lakshmi
Super-linear frequency dependence of ac conductivity in nanocrystalline lithium ferrite
MATERIALS CHEMISTRY AND PHYSICS 146 (3), pp. 389-398 AUG 14 2014
77. *“Electrochromic and Optical Study of Atmospheric Pressure Chemical Vapour Deposition MoO₃–Cr₂O₃ Films”*
T. Ivanova, K. A. Gesheva, M. Kozlov, and M. Abrashev
Journal of Nanoscience and Nanotechnology **11**(9), 8017–8023 (2011) (7 pages)
1. Gomes, Adriano S. O.; Yaghini, Negin; Martinelli, Anna; et al.
A micro-Raman spectroscopic study of Cr(OH)(3) and Cr₂O₃ nanoparticles obtained by the hydrothermal method
JOURNAL OF RAMAN SPECTROSCOPY Volume: 48 Issue: 10 Pages: 1256-1263 Published: OCT 2017
78. *“Frequency dependence of the quasi-soft Raman-active modes in rotationally distorted R₃+B₃+O₃ perovskites (R₃+—rare earth, B₃+ D Al, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Ga)”*
N. D. Todorov, M. V. Abrashev and V. G. Ivanov
J. Phys.: Condens. Matter **24**, 175404 (2012) (8 pages)
19. Spectroscopic and transport properties of Ba- and Ti-doped BaLaInO₄
Tarasova, N.; Galisheva, A.; Animitsa, I
JOURNAL OF RAMAN SPECTROSCOPY Volume: 52 Issue: 5 Pages: 980-987 Published: MAY 2021
 18. Effect of doping on the local structure of new block-layered proton conductors based on BaLaInO₄
Tarasova, N.; Animitsa, I.; Galisheva, A.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 51 Issue: 11 Pages: 2290-2297 Published: NOV 2020
 17. Modified Benign approach for probing the structural, optical and antibacterial activity of Sm³⁺-doped Bi³⁺-co-doped LaAlO₃ nanoparticles
Pratibha, S.; Dhananjaya, N.; Begum, J. P. Shabaaz; et al.
EUROPEAN PHYSICAL JOURNAL PLUS Volume: 135 Issue: 8 Article Number: 651 Published: AUG 12 2020
 16. Temperature and pressure manipulation of magnetic ordering and phonon dynamics with phase transition in multiferroic GdFeO₃: Evidence from Raman scattering
Ye, Yan; Cui, Anyang; Bian, Mengyun; et al.
PHYSICAL REVIEW B Volume: 102 Issue: 2 Article Number: 024103 Published: JUL 7 2020

15. Magnetic phase transition and multiferroic phase separation in $\text{Ho}_{1-x}\text{Gd}_x\text{MnO}_3$
Zhang, N.; Wang, Y. P.; Li, X.; et al.
CERAMICS INTERNATIONAL Volume: 45 Issue: 7 Pages: 8325-8332 Part: A Published: MAY 2019
 14. First-principles study of elastic, dielectric, and vibrational properties of orthoferrites RFeO_3 (R = Ho, Er, Tm and Lu)
Wang, Zhao-Qi; Mu, Yi; Zeng, Zhao-Yi; et al.
MATERIALS RESEARCH EXPRESS Volume: 6 Issue: 5 Article Number: 055605 Published: MAY 2019
 13. Crossover in the pressure evolution of elementary distortions in RFeO_3 perovskites and its impact on their phase transition
Vilarinho, R.; Bouvier, P.; Guennou, M.; et al.
PHYSICAL REVIEW B Volume: 99 Issue: 6 Article Number: 064109 Published: FEB 25 2019
 12. Suppression of the cooperative Jahn-Teller distortion and its effect on the Raman octahedra-rotation modes of $\text{TbMn}_{1-x}\text{Fe}_x\text{O}_3$
Vilarinho, R.; Passos, D. J.; Queiros, E. C.; et al.
PHYSICAL REVIEW B Volume: 97 Issue: 14 Article Number: 144110 Published: APR 19 2018
 11. Crystal structure and magnetic properties of Ti-doped $\text{Bi}_{0.84}\text{La}_{0.16}\text{FeO}_3$ at morphotropic phase boundary
Tho, P. T.; Clements, E. M.; Kim, D. H.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 741 Pages: 59-64 Published: APR 15 2018
 10. Blanck, Dimitri; Schon, Anke; Mamede, Anne-Sophie; et al.
In situ Raman spectroscopy evidence of an accessible phase potentially involved in the enhanced activity of La -deficient lanthanum orthoferrite in 3-way catalysis (TWC)
CATALYSIS TODAY Volume: 283 Pages: 151-157 Published: APR 1 2017
 9. Weber, Mads Christof; Guennou, Mael; Zhao, Hong Jian; et al.
Raman spectroscopy of rare-earth orthoferrites RFeO_3 (R=La, Sm, Eu, Gd, Tb, Dy)
PHYSICAL REVIEW B Volume: 94 Issue: 21 Article Number: 214103 Published: DEC 7 2016
 8. Wang, H (Wang, Heng); Li, GS (Li, Guangshe); Li, LP (Li, Liping)
Influence of Mn-substitution on the structure and low-temperature electrical conduction properties of PrCoO_3
CERAMICS INTERNATIONAL Volume: 42 Issue: 10 Pages: 12283-12288 DOI: 10.1016/j.ceramint.2016.04.175 Published: AUG 1 2016
 7. Weber, M.C., Guennou, M., Dix, N., Pesquera, D., Sánchez, F., Herranz, G., Fontcuberta, J., López-Conesa, L., Estradé, S., Peiró, F., Iñiguez, J., Kreisel, J.
Multiple strain-induced phase transitions in LaNiO_3 thin films
PHYSICAL REVIEW B Volume: 94 Issue: 1 Article Number: 014118 DOI: 10.1103/PhysRevB.94.014118 Published: JUL 29 2016
 6. Paul, B., Chatterjee, S., Gop, S., Roy, A., Grover, V., Shukla, R., Tyagi, A.K.
Evolution of lattice dynamics in ferroelectric hexagonal REInO_3 (RE = Ho, Dy, Tb, Gd, Eu, Sm) perovskites
MATERIALS RESEARCH EXPRESS Volume: 3 Issue: 7 Article Number: UNSP 075703 DOI: 10.1088/2053-1591/3/7/075703
Published: JUL 2016
 5. Remya, G.R., Solomon, S., Thomas, J.K., John, A.
Optical and dielectric properties of nano GdAlO_3
MATERIALS TODAY-PROCEEDINGS Volume: 2 Issue: 3 Pages: 1012-1016 DOI: 10.1016/j.matpr.2015.06.027 Published: 2015
 4. Mota, D. A.; Almeida, A.; Rodrigues, V. H.; et al.
Dynamic and structural properties of orthorhombic rare-earth manganites under high pressure
PHYSICAL REVIEW B Volume: 90 Issue: 5 Article Number: 054104 Published: AUG 8 2014
 3. Atuchin, Victor; Zhu, Lei; Lee, Soo Hyun; et al.
Microwave-Assisted Solvothermal Synthesis of $\text{Sr}_3\text{V}_2\text{O}_8$ Nanoparticles and Their Spectroscopic Properties
ASIAN JOURNAL OF CHEMISTRY 26 (5), pp. 1290-1292 Part: A MAR 2014
 2. Lim, C.S., Atuchin, V.V.
Preparation and characterization of $\text{Sr}_3\text{V}_2\text{O}_8$ nanoparticles via cyclic MAS route
Proceedings of SPIE - The International Society for Optical Engineering Volume 8771, Article number 877112, 2013
 1. Bielecki, J., Svedlindh, P., Tibebe, D.T., Cai, S., Eriksson, S.-G., Börjesson, L., Knee, C.S.
Structural and magnetic properties of isovalently substituted multiferroic BiFeO_3 : Insights from Raman spectroscopy
Physical Review B - Condensed Matter and Materials Physics 86 (18), art. no. 184422, 2012
79. *“Relationship between structural properties and activity in complete benzene oxidation over $\text{Au/CeO}_2\text{–CoO}_x$ catalysts”*
L. Ilieva, P. Petrova, T. Tabakova, R. Zanella, M.V. Abrashev, J.W. Sobczak, W. Lisowski, Z. Kaszkur, and D. Andreeva
Catalysis Today **187**, 30– 38 (2012) (9 pages)
9. Electric Field Promoted Complete Oxidation of Benzene over PdCe_xCo_y Catalysts at Low Temperature
Shen, Feixiang; Li, Ke; Xu, Dejun; et al.
CATALYSTS Volume: 9 Issue: 12 Article Number: 1071 Published: DEC 2019

8. Mono- and bimetallic nano-Re systems doped Os, Mo, Ru, Ir as nanocatalytic platforms for the acetalization of polyalcohols into cyclic acetals and their applications as fuel additives

Kapkowski, M., Popiel, J., Siudyga, T., (...), Zubko, M., Polanski, J.
Applied Catalysis B: Environmental 239, pp. 154-167 (2018)

7. Wang, Wei-Jia; Wang, Yan; Xu, Qian; et al

Interaction of cobalt with ceria thin films and its influence on supported Au nanoparticles
CHINESE CHEMICAL LETTERS Volume: 28 Issue: 8 Pages: 1760-1766 Published: AUG 2017

6. Nevanperä, T.K., Ojala, S., Bion, N., Epron, F., Keiski, R.L.

Catalytic oxidation of dimethyl disulfide (CH₃SSCH₃) over monometallic Au, Pt and Cu catalysts supported on gamma-Al₂O₃, CeO₂ and CeO₂-Al₂O₃
APPLIED CATALYSIS B-ENVIRONMENTAL Volume: 182 Pages: 611-625 DOI: 10.1016/j.apcatb.2015.10.012 Published: MAR 2016

5. Wen, Meicheng; Takakura, Shuhei; Fuku, Kojiro; et al.

Enhancement of Pd-catalyzed Suzuki-Miyaura coupling reaction assisted by localized surface plasmon resonance of Au nanorods
CATALYSIS TODAY Volume: 242 Pages: 381-385 Part: B Published: MAR 15 2015

4. Wang, Yu; Chen, Bing-bing; Crocker, Mark; et al.

Understanding on the origins of hydroxyapatite stabilized gold nanoparticles as high-efficiency catalysts for formaldehyde and benzene oxidation
CATALYSIS COMMUNICATIONS Volume: 59 Pages: 195-200 Published: JAN 10 2015

3. Ralphs, K., Hardacre, C., James, S.L.

Application of heterogeneous catalysts prepared by mechanochemical synthesis
Chemical Society Reviews 42 (18), pp. 7701-7718, 2013

2. Arab, M., Lopes-Moriyama, A.L., Dos Santos, T.R., De Souza, C.P., Gavarri, J.R., Leroux, C.

Strontium and cerium tungstate materials SrWO₄ and Ce₂(WO₄)₃: Methane oxidation and mixed conduction
Catalysis Today 208, pp. 35-41, 2013

1. Huang, J., Xue, C., Wang, B., Guo, X., Wang, S.

Gold-supported tin dioxide nanocatalysts for low temperature CO oxidation: Preparation, characterization and DRIFTS study
Reaction Kinetics, Mechanisms and Catalysis 108 (2), pp. 403-416, 2013

80. “Raman spectroscopy and lattice-dynamical calculations of Sc₃CrO₆ single crystals”

N. D. Todorov, M. V. Abrashev, S. C. Russev, V. Marinova, R. P. Nikolova, and B. L. Shivachev
Physical Review B **85**, 214301 (2012) (7 pages)

1. Symmetries of modes in Ni₃V₂O₈: Polarized Raman spectroscopy and ab initio phonon calculations

Kesari, Swayam; Rao, Rekha; Gupta, Mayanak K.; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 50 Issue: 4 Pages: 587-594 Published: APR 2019

81. “Study of electrochromic APCVD WO₃-V₂O₅ films”

G. Bodurov, T. Ivanova, M. Abrashev, and K. Gesheva
Journal of Physics: Conference Series **398** (2012) 012016 (6 pages)

4. Lu, Y.-R., Hsu, H.-H., Chen, J.-L., Chang, H.-W., Chen, C.-L., Chou, W.-C., Dong, C.-L.

Atomic and electronic aspects of the coloration mechanism of gasochromic Pt/Mo-modified V₂O₅ smart films: an in situ X-ray spectroscopic study
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 18 Issue: 7 Pages: 5203-5210 DOI: 10.1039/c5cp06870c Published: FEB 21 2016

3. Drosos, C., Vernardou, D.

Perspectives of energy materials grown by APCVD
Solar Energy Materials and Solar Cells Volume 140, September 2015, Article number 7655, Pages 1-8

2. Lin, Y. -S.; Tsai, T. -H.; Lu, W. -H.; et al.

Lithium electrochromic properties of atmospheric pressure plasma jet-synthesized tungsten/molybdenum-mixed oxide films for flexible electrochromic device
IONICS 20 (8), 1163-1174 AUG 2014

1. Mane, Anil U.; Elam, Jeffrey W.

Atomic Layer Deposition of W:Al₂O₃ Nanocomposite Films with Tunable Resistivity
CHEMICAL VAPOR DEPOSITION Volume: 19, Issue: 4-6, Special Issue: SI, Pages: 186-193, 2013

82. “Raman spectroscopy and lattice dynamical calculations of Sc₂O₃ single crystals”

N. D. Todorov, M. V. Abrashev, V. Marinova, M. Kadiyski, L. Dimowa, and E. Faulques
Physical Review B **87**, 104301 (2013) (5 pages)

17. Spectroscopy and laser operation of highly-doped 10 at.% Yb:(Lu,Sc)₂O₃ ceramics

- Jing, W., Loiko, P., Basyrova, L., (...), Díaz, F., Mateos, X.
Optical Materials 117,111128 (2021)
16. Comparative study of Yb:Lu₃Al₅O₁₂ and Yb:Lu₂O₃ laser ceramics produced from laser-ablated nanopowders
Basyrova, L., Loiko, P., Maksimov, R., (...), Díaz, F., Mateos, X.
Ceramics International 47(5), pp. 6633-6642 (2021)
15. A systematic study on extraction and separation of scandium using phosphinic acid by both solvent extraction and hollow fibre membrane
Rout, P. C.; Sarangi, K.
MINERAL PROCESSING AND EXTRACTIVE METALLURGY-TRANSACTIONS OF THE INSTITUTIONS OF MINING AND METALLURGY Early Access: MAR 2021
14. Unraveling microstrain-promoted structural evolution and thermally driven phase transition in c-Sc₂O₃ nanocrystals at high pressure
Zou, Yongtao; Li, Mu; Zhang, Wei; et al.
PHYSICAL REVIEW B Volume: 102 Issue: 21 Article Number: 214115 Published: DEC 31 2020
13. Exploring the surface-to-volume ratio in ultrasmall nanocrystals using the optical probe of Eu³⁺ ion
Fu, Huhui; Feng, Rui; Jiang, Feilong; et al.
CHEMICAL COMMUNICATIONS Volume: 56 Issue: 93 Pages: 14725-14728 Published: DEC 4 2020
12. Optical properties and charge transport of textured Sc₂O₃ thin films obtained by atomic layer deposition
Lebedev, M. S.; Kruchinin, V. N.; Afonin, M. Yu.; et al.
APPLIED SURFACE SCIENCE Volume: 478 Pages: 690-698 Published: JUN 1 2019
11. Lattice dynamics study of cubic Tb₂O₃
Ibanez, Jordi; Blazquez, Oriol; Hernandez, Sergi; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 49 Issue: 12 Pages: 2021-2027 Published: DEC 2018
10. Pressure induced structural phase transition in rare earth sesquioxide Tm₂O₃: Experiment and ab initio calculations
Irshad, K. A.; Anees, P.; Sahoo, Shradhanjali; et al.
JOURNAL OF APPLIED PHYSICS Volume: 124 Issue: 15 Article Number: 155901 Published: OCT 21 2018
9. Density functional study of the phase stability and Raman spectra of Yb₂O₃, Yb₂SiO₅ and Yb₂Si₂O₇ under pressure
Ogawa, Takafumi; Otani, Noriko; Yokoi, Taishi; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 20 Issue: 24 Pages: 16518-16527 Published: JUN 28 2018
8. Co-solubility of aluminium and scandium oxides in molten sodium cryolite
Rudenko, A.V., Kataev, A.A., Zakiryanova, I.D., Tkacheva, O.
Tsvetnye Metally (11), pp. 22-26 (2017)
7. Structure and vibrational spectra of thin films Y₂O₃:Eu
Bordun, O.M., Bordun, I.O., Kukharsky, I.J., (...), Tsapovska, Z.I., Leonov, D.S.
Nanosistemi, Nanomateriali, Nanotehnologii 15(1), pp. 27-36 (2017)
6. Jing, Wei; Loiko, Pavel; Serres, Josep Maria; et al.
Synthesis, spectroscopy, and efficient laser operation of "mixed" sesquioxide Tm:(Lu, Sc)₂O₃ transparent ceramics
OPTICAL MATERIALS EXPRESS Volume: 7 Issue: 11 Pages: 4192-4202 Published: NOV 1 2017
5. Greiner, Stefan; Chou, Sheng-Chun; Schleid, Thomas
Two anionically derivatized scandium oxoselenates(TV): ScF[SeO₃] and Sc₂O₂[SeO₃]
JOURNAL OF SOLID STATE CHEMISTRY Volume: 246 Pages: 160-166 Published: FEB 2017
4. Irshad, KA (Irshad, K. A.); Shekar, NVC (Shekar, Chandra N. V.); Ravindran, TR (Ravindran, T. R.); Srihari, V (Srihari, V.); Pandey, KK (Pandey, K. K.)
X-ray diffraction and Raman studies on Ho: Eu₂O₃
JOURNAL OF MOLECULAR STRUCTURE Volume: 1128 Pages: 325-329 DOI: 10.1016/j.molstruc.2016.08.077 Published: JAN 15 2017
3. Fernández-González, R., Velázquez, J.J., Rodríguez, V.D., Rivera-López, F., Lukowiak, A., Chiasera, A., Ferrari, M., Gonçalves, R.R., Marrero-Jerez, J., Lahoz, F., Núñez, P.
Luminescence and structural analysis of Ce³⁺ and Er³⁺ doped and Ce³⁺-Er³⁺ codoped Ca₃Sc₂Si₃O₁₂ garnets: influence of the doping concentration in the energy transfer processes
RSC ADVANCES Volume: 6 Issue: 18 Pages: 15054-15061 DOI: 10.1039/c5ra22630a Published: 2016
2. Ovsyannikov, SV, Bykova, E, Bykov, M, Wenz, MD, Pakhomova, AS, Glazyrin, K, Liermann, HP, Dubrovinsky, L
Structural and vibrational properties of single crystals of Scandia, Sc₂O₃ under high pressure
JOURNAL OF APPLIED PHYSICS Volume: 118 Issue: 16 Article Number: 165901 DOI: 10.1063/1.4933391 Published: OCT 28 2015
1. Velazquez, J. J.; Fernandez-Gonzalez, R.; Marrero-Jerez, J.; et al.
Structural and luminescence study of Ce³⁺ and Tb³⁺ doped Ca₃Sc₂Si₃O₁₂ garnets obtained by freeze-drying synthesis method
OPTICAL MATERIALS Volume: 46 Pages: 109-114 Published: AUG 2015

83. *"Biogenic iron oxides produced by neutrophilic iron-oxidizing bacteria under laboratory conditions"*

Ralitzia Angelova, Lyubomir Slavov, Mihail Iliev, Blagoi Blagoev, Daniela Kovacheva, Miroslav Abrashev, Ivan Nedkov, and Veneta Groudeva
Current Opinion in Biotechnology **24**, Suppl. 1, S108–S109 (2013)

1. Shopska, M, Paneva, D, Kadinov, G, Todorova, S, Fabian, M, Yordanova, I, Cherkezova-Zheleva, Z, Mitov, I
Composition and catalytic behavior in CO oxidation of biogenic iron-containing materials
REACTION KINETICS MECHANISMS AND CATALYSIS Volume: 118 Issue: 1 Pages: 179-198 DOI: 10.1007/s11144-016-0989-6
Published: JUN 2016

84. “*Thin film optical coatings of Vanadium Oxide and mixed Tungsten/Vanadium Oxide deposited by APCVD employing precursors of Vanadyl Acetylacetonate and a mixture with tungsten hexacarbonyl*”
Georgi Bodurov, Tatyana Ivanova, Miroslav Abrashev, Zoya Nenova, and Kostadinka Gesheva
Physics Procedia **46**, 127 – 136 (2013)

4. Room-temperature application of VO₂ microstructures on rigid and flexible substrates based on synthesis of crystalline VO₂ solution
Taha, Mohammad; Mayes, Edwin L. H.; Field, Matthew R.; et al.
MATERIALS ADVANCES Volume: 1 Issue: 6 Pages: 1685-1694 Published: SEP 1 2020

3. Crystal Structure, Surface Topography, Surface Morphology and Optical Properties of DC Magnetron Sputtered VO₂ Thin Films using VO₂ Target
Muslim, N., Md Idris, M.N.S., Soon, Y.W., (...), Lim, C.M., Voo, N.Y.
IOP Conference Series: Materials Science and Engineering 409(1),012025 (2018)

2. Graf, David; Schlaefel, Johannes; Garbe, Simon; et al.
Interdependence of Structure, Morphology, and Phase Transitions in CVD Grown VO₂ and V₂O₃ Nanostructures
CHEMISTRY OF MATERIALS Volume: 29 Issue: 14 Pages: 5877-5885 Published: JUL 25 2017

1. Vernardou, D., Louloudakis, D., Spanakis, E., Katsarakis, N., Koudoumas, E.
Amorphous thermochromic VO₂ coatings grown by APCVD at low temperatures
Advanced Materials Letters Volume 6, Issue 7, 2015, Pages 660-663

85. “*Phonon and magnon Raman scattering in CuB₂O₄*”
V. G. Ivanov, M. V. Abrashev, N. D. Todorov, V. Tomov, R. P. Nikolova, A. P. Litvinchuk, and M. N. Iliev
Physical Review B **88**, 094301 (2013) (8 pages)

7. Spectroscopic Signature of Spin-Charge-Lattice Coupling in CuB₂O₄
Mero, Rea Divina; Lai, Chun-Hao; Du, Chao-Hung; et al.
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 125 Issue: 7 Pages: 4322-4329 Published: FEB 25 2021

6. Vapor Deposition of Magnetic Van der Waals NiI₂ Crystals
Liu, Haining; Wang, Xinsheng; Wu, Juanxia; et al.
ACS NANO Volume: 14 Issue: 8 Pages: 10544-10551 Published: AUG 25 2020

5. Exciton and exciton-magnon photoluminescence in the antiferromagnet CuB₂O₄
Kudlacik, D.; Ivanov, V. Yu; Yakovlev, D. R.; et al.
PHYSICAL REVIEW B Volume: 102 Issue: 3 Article Number: 035128 Published: JUL 16 2020

4. Symmetries of modes in Ni₃V₂O₈: Polarized Raman spectroscopy and ab initio phonon calculations
Kesari, Swayam; Rao, Rekha; Gupta, Mayanak K.; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 50 Issue: 4 Pages: 587-594 Published: APR 2019

3. Excitation of multiple phonon modes in copper metaborate CuB₂O₄ via nonresonant impulsive stimulated Raman scattering
Imasaka, Kotaro; Pisarev, Roman, V; Bezmaternykh, Leonard N.; et al.
PHYSICAL REVIEW B Volume: 98 Issue: 5 Article Number: 054303 Published: AUG 7 2018

2. Femtosecond activation of magnetoelectricity
Bossini, D.; Konishi, K.; Toyoda, S.; et al.
NATURE PHYSICS Volume: 14 Issue: 4 Pages: 370-+ Published: APR 2018

1. Molchanova, A. D.; Prosnikov, M. A.; Dubrovin, R. M.; et al.
Lattice dynamics and electronic transitions in a structurally complex layered copper borate Cu-3(BO₃)(2)
PHYSICAL REVIEW B Volume: 96 Issue: 17 Article Number: 174305 Published: NOV 27 2017

86. “*Microwave plasma based single step method for free standing graphene synthesis at atmospheric conditions*”
E. Tatarova, J. Henriques, C. C. Luhrs, A. Dias, J. Phillips, M. V. Abrashev, and C. M. Ferreira
Applied Physics Letters **103**, 134101 (2013)

36. Optimizing high-quality graphene nanoflakes production through organic (bio)-precursor plasma decomposition

- Casanova, A.; Rincon, R.; Munoz, J.; et al.
FUEL PROCESSING TECHNOLOGY Volume: 212 Article Number: 106630 Published: FEB 2021
35. Pressure-dependent synthesis of graphene nanoflakes using Ar/H-2/CH4 non-thermal plasma based on rotating arc discharge
Wang, Cheng; Lu, Zhongshan; Ma, Jing; et al.
DIAMOND AND RELATED MATERIALS Volume: 111 Article Number: 108176 Published: JAN 2021
34. Electron concentration in the non-luminous part of the atmospheric pressure filamentary discharge
Faltynek, J.; Kudrle, V.; Snirer, M.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 1 Article Number: 015001 Published: JAN 2021
33. Synthesis of carbon nanoparticles in a non-thermal plasma process
Wang, Cheng; Li, Dongning; Lu, Zhongshan; et al.
CHEMICAL ENGINEERING SCIENCE Volume: 227 Article Number: 115921 Published: DEC 14 2020
32. Large-scale Growth of Quasifreestanding Graphene by using a Single-step Process
Khadka, Ishwor Bahadur; Park, Ji-Hoon; Kim, Eun Hye; et al.
JOURNAL OF THE KOREAN PHYSICAL SOCIETY Volume: 77 Issue: 9 Pages: 768-772 Published: NOV 2020
31. Effects of hydrogen/carbon molar ratio on graphene nano-flakes synthesis by a non-thermal plasma process
Lu, Zhongshan; Li, Dongning; Wang, Cheng; et al.
DIAMOND AND RELATED MATERIALS Volume: 108 Article Number: 107932 Published: OCT 2020
30. Computational study of plasma-induced flow instabilities in power modulated atmospheric-pressure microwave plasma jet
Kubecka, M.; Snirer, M.; Obrusnik, A.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 7 Article Number: 075001 Published: JUL 2020
29. Continuous preparation and formation mechanism of few-layer graphene by gliding arc plasma
Zhong, Ruipeng; Hong, Ruoyu
CHEMICAL ENGINEERING JOURNAL Volume: 387 Article Number: 124102 Published: MAY 1 2020
28. Deposition of vertical carbon nanosheets by MPECVD at atmospheric pressure
Marinov, S.; Vachkov, V.; Kiss'ovski, Zh
Journal of Physics Conference Series Volume: 1492 Article Number: 012032 Published: 2020
27. Synthesis of few-layer graphene flakes by magnetically rotating arc plasma: effects of input power and feedstock injection position
Wang, Cheng; Song, Ming; Chen, Xianhui; et al.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 126 Issue: 3 Published: FEB 19 2020
26. Effects of Buffer Gases on Graphene Flakes Synthesis in Thermal Plasma Process at Atmospheric Pressure
Wang, Cheng; Song, Ming; Chen, Xianhui; et al.
NANOMATERIALS Volume: 10 Issue: 2 Article Number: 309 Published: FEB 2020
25. A 3D numerical analysis on magnetic field enhanced microwave linear plasma
Zhang, Wenjin; Chen, Longwei; Jiang, Yiman; et al.
AIP ADVANCES Volume: 10 Issue: 1 Article Number: 015220 Published: JAN 2020
24. Determination of electron density in microwave plasma torch by microwave interferometry
Faltýnek, J., Kudrle, V., Šnirer, M., Toman, J., Jašek, O.
46th EPS Conference on Plasma Physics, EPS 2019 (2019)
23. State-of-the-art advancements in studies and applications of graphene: a comprehensive review
Walimbe, Pratik; Chaudhari, Mangesh
MATERIALS TODAY SUSTAINABILITY Volume: 6 Article Number: 100026 Published: DEC 2019
22. Continuous synthesis of graphene nano-flakes by a magnetically rotating arc at atmospheric pressure
Wang, Cheng; Sun, Lu; Dai, Xiaoyu; et al.
CARBON Volume: 148 Pages: 394-402 Published: JUL 2019
21. On the interplay between plasma discharge instability and formation of free-standing graphene nanosheets in a dual-channel microwave plasma torch at atmospheric pressure
Toman, Jozef; Jasek, Ondrej; Snirer, Miroslav; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 26 Article Number: 265205 Published: JUN 26 2019
20. Effect of hydrogen concentration on graphene synthesis using microwave-driven plasma-mediated methane cracking
Singh, Madhu; Sengupta, Arupnanda; Zeller, Kurt; et al.
CARBON Volume: 143 Pages: 802-813 Published: MAR 2019
19. Graphene synthesized in atmospheric plasmas-A review
Dato, Albert
JOURNAL OF MATERIALS RESEARCH Volume: 34 Issue: 1 Special Issue: SI Pages: 214-230 Published: JAN 14 2019
18. Formation of carbon nanostructures by the plasma jets: Synthesis, characterization, application
Shavelkina, M., Amirov, R., Bilera, I.
Materials Today: Proceedings 5(12), pp. 25956-25961 (2018)

17. Surface-wave-sustained argon plasma kinetics from intermediate to atmospheric pressure
Benova, Evgenia; Marinova, Plamena; Atanasova, Mariana; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 51 Issue: 47 Article Number: 474004 Published: NOV 28 2018
16. Review of Graphene Growth From a Solid Carbon Source by Pulsed Laser Deposition (PLD)
Bleu, Yannick; Bourquard, Florent; Tite, Teddy; et al.
FRONTIERS IN CHEMISTRY Volume: 6 Article Number: 572 Published: NOV 21 2018
15. Graphene synthesized as by-product of gas purification in long-term space missions and its lithium-ion battery application
Nie, Yao; Kacica, Clayton; Meyer, Marit E.; et al.
ADVANCES IN SPACE RESEARCH Volume: 62 Issue: 5 Pages: 1015-1024 Published: SEP 1 2018
14. Synthesis of Hydrogenated Graphene during Acetylene Conversion in Helium Plasma Jet
Shavelkina, M. B.; Amirov, R. Kh.; Shatalova, T. B.
HIGH ENERGY CHEMISTRY Volume: 52 Issue: 4 Pages: 343-347 Published: JUL 2018
13. Plasma Synthesis of Graphene from Mango Peel
Shah, Javishk; Lopez-Mercado, Janneth; Carreon, M. Guadalupe; et al.
ACS OMEGA Volume: 3 Issue: 1 Pages: 455-463 Published: JAN 2018
12. Melero, C.; Rincon, R.; Munoz, J.; et al.
Scalable graphene production from ethanol decomposition by microwave argon plasma torch
PLASMA PHYSICS AND CONTROLLED FUSION Volume: 60 Issue: 1 Article Number: 014009 Published: JAN 2018
11. Toman, Jozef; Jasek, Ondrej; Jurmanova, Jana
THE INFLUENCE OF GAS ADMIXTURES ON THE SYNTHESIS OF GRAPHENE NANOSHEETS IN ARGON MICROWAVE PLASMA TORCH DISCHARGE
8TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION (NANOCON 2016) Pages: 122-126 Published: 2017
10. Jo, E.H., Chang, H., Kim, S.K., Choi, J.-H., Park, S.-R., Lee, C.M., Jang, H.D.
One-Step Synthesis of Pt/Graphene Composites from Pt Acid Dissolved Ethanol via Microwave Plasma Spray Pyrolysis
SCIENTIFIC REPORTS Volume: 6 Article Number: 33236 DOI: 10.1038/srep33236 Published: SEP 13 2016
9. Andriotis, V.M.E., Rejzek, M., Barclay, E., Rugen, M.D., Field, R.A., Smith, A.M.
Cell wall degradation is required for normal starch mobilisation in barley endosperm
Scientific Reports 6, 33215 DOI: 10.1038/srep33215 (2016)
8. Dimitrov, Zh., Nikovski, M., Kiss'Ovski, Zh.
Deposition of carbon nanostructures on metal substrates at atmospheric pressure
Journal of Physics: Conference Series 700(1), 12045 DOI: 10.1088/1742-6596/700/1/012045 (2016)
7. Rincón, R., Marinas, A., Muñoz, J., Melero, C., Calzada, M.D.
Experimental research on ethanol-chemistry decomposition routes in a microwave plasma torch for hydrogen production
CHEMICAL ENGINEERING JOURNAL Volume: 284 Pages: 1117-1126 DOI: 10.1016/j.cej.2015.09.062 Published: JAN 15 2016
6. Chen, Chuan-Jie; Li, Shou-Zhe
Spectroscopic measurement of plasma gas temperature of the atmospheric-pressure microwave induced nitrogen plasma torch
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 24 Issue: 3 Article Number: 035017 Published: MAY 2015
5. Rincon, R.; Melero, C.; Jimenez, M.; et al.
Synthesis of multi-layer graphene and multi-wall carbon nanotubes from direct decomposition of ethanol by microwave plasma without using metal catalysts
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 24 Issue: 3 Article Number: 032005 Published: MAY 2015
4. Salavagione, Horacio J.
Covalent Graphene-Polymer Nanocomposites
GRAPHENE MATERIALS: FUNDAMENTALS AND EMERGING APPLICATIONS Book Series: Advanced Materials Series Pages: 101-149 Published: 2015
3. Paukner, C., Juda, K., Clayton, A., (...), Joaug, J., Koziol, K.
Large scale production of few layer graphene from novel plasma reactor system
Technical Proceedings of the 2014 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2014 Volume 1, 2014, Pages 45-48
2. Kumar, Indrajeet; Khare, Alikha
Multi- and few-layer graphene on insulating substrate via pulsed laser deposition technique
APPLIED SURFACE SCIENCE Volume: 317 Pages: 1004-1009 Published: OCT 30 2014
1. Salavagione, Horacio J.
Promising alternative routes for graphene production and functionalization
JOURNAL OF MATERIALS CHEMISTRY A 2 (20), pp. 7138-7146 2014

87. “*Lattice dynamics and spin-phonon coupling in CaMn₂O₄: A Raman study*”

V. G. Ivanov, V. G. Hadjiev, A. P. Litvinchuk, D. Z. Dimitrov, B. L. Shivachev, M. V. Abrashev, B. Lorenz, and M. N. Iliev
Physical Review B **89**, 184307 (2014)

3. Electric transport properties of rare earth doped YbxCa1-xMnO3 ceramics (part I: Optimization of ceramic processing)
Rahmani, Meimanat; Pithan, Christian; Waser, Rainer
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 39 Issue: 4 Pages: 1245-1250 Published: APR 2019

2. Singh, Karan; Sharma, Mohit K.; Mukherjee, K.
Spin-phonon coupling and exchange interaction in Gd substituted YFe0.5Cr0.5O
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 447 Pages: 26-31 Published: FEB 1 2018

1. Galuskin, E.V., Krüger, B., Krüger, H., Blass, G., Widmer, R., Galuskina, I.O.
Wernerkrauseite, CaFe23+Mn4+O6: the first nonstoichiometric post-spinel mineral, from Bellerberg volcano, Eifel, Germany
EUROPEAN JOURNAL OF MINERALOGY Volume: 28 Issue: 2 Pages: 485-493 DOI: 10.1127/ejm/2016/0028-2509 Published: MAR-APR 2016

88. “Raman study of phonons in CaMn7O12: Effects of structural modulation and structural transition”

M. N. Iliev, V. G. Hadjiev, M. M. Gospodinov, R. P. Nikolova, and M. V. Abrashev
Physical Review B **89**, 214302 (2014)

10. Changes in spin and lattice dynamics induced by magnetic and structural phase transitions in multiferroic SrMn7O12
Kamba, Stanislav; Goian, Veronica; Kadlec, Filip; et al.
PHYSICAL REVIEW B Volume: 99 Issue: 18 Article Number: 184108 Published: MAY 20 2019

9. Magnetic transitions in CaMn7O12: Raman observation of spin-phonon couplings
Toulouse, C.; Martin, C.; Measson, M-A; et al.
PHYSICAL REVIEW B Volume: 99 Issue: 2 Article Number: 024303 Published: JAN 7 2019

8. Helical magnetism in Sr-doped CaMn7O12 films
Huon, Amanda; Vibhakar, Anuradha M.; Grutter, Alexander J.; et al.
PHYSICAL REVIEW B Volume: 98 Issue: 22 Article Number: 224419 Published: DEC 19 2018

7. Impact of Co-doping on the structural and magnetic properties of multiferroic CaMn7O12
Nonato, A.; Yanez-Vilar, S.; Sanchez-Andujar, M.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 740 Pages: 559-566 Published: APR 5 2018

6. Souliou, S. M.; Li, Y.; Du, X.; et al.
Soft-phonon-driven orbital order in CaMn7O12
PHYSICAL REVIEW B Volume: 94 Issue: 18 Article Number: 184309 Published: NOV 22 2016

5. Zhang, H.-G., Ma, X.-C., Xie, L.
The structural and magnetic properties of Sr-doped multiferroic CaMn7O12
INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 29 Issue: 30 Article Number: 1550221 DOI: 10.1142/S0217979215502215 Published: DEC 10 2015

4. Glazkova, Y.S., Terada, N., Matsushita, Y., Katsuya, Y., Tanaka, M., Sobolev, A.V., Presniakov, I.A., Belik, A.A.
High-Pressure Synthesis, Crystal Structures, and Properties of CdMn7O12 and SrMn7O12 Perovskites
INORGANIC CHEMISTRY Volume: 54 Issue: 18 Pages: 9081-9091 DOI: 10.1021/acs.inorgchem.5b01472 Published: SEP 21 2015

3. Yuan, Renliang; Duan, Lian; Du, Xinyu; et al.
Identification and mechanical control of ferroelastic domain structure in rhombohedral CaMn7O12
PHYSICAL REVIEW B Volume: 91 Issue: 5 Article Number: 054102 Published: FEB 3 2015

2. Nonato, A.; Araujo, B. S.; Ayala, A. P.; et al.
Spin-phonon and magnetostriction phenomena in CaMn7O12 helimagnet probed by Raman spectroscopy
APPLIED PHYSICS LETTERS Volume: 105 Issue: 22 Article Number: 222902 Published: DEC 1 2014

1. Du, Xinyu; Yuan, Renliang; Duan, Lian; et al.
Soft vibrational mode associated with incommensurate orbital order in multiferroic CaMn7O12
PHYSICAL REVIEW B 90 (10), Art. No. 104414 SEP 17 2014

89. “Microwave plasmas applied for the synthesis of free standing graphene sheets”

E Tatarova, A Dias, J Henriques, A M Botelho do Rego, A M Ferraria, M V Abrashev, C C Luhrs, J Phillips, F M Dias and C M Ferreira
J. Phys. D: Appl. Phys. **47**, 385501 (2014) (11pp)

48. 2D materials coated on etched optical fibers as humidity sensor
Owji, E., Mokhtari, H., Ostovari, F., Darazereshki, B., Shakiba, N.
Scientific Reports 11(1), 1771 (2021)

47. Controlled high temperature stability of microwave plasma synthesized graphene nanosheets
Jasek, Ondrej; Toman, Jozef; Vsiansky, Dalibor; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 54 Issue: 16 Article Number: 165201 Published: APR 22 2021
46. Super heating/cooling rate enabled by microwave shock on polymeric graphene foam for high performance Lithium-Sulfur batteries
Liu, Yiyang; Zhang, Yan; Liu, Yang; et al.
CARBON Volume: 173 Pages: 809-816 Published: MAR 2021
45. A critical review on the production and application of graphene and graphene-based materials in anti-corrosion coatings
Kulyk, Bohdan; Freitas, Maria A.; Santos, Nuno F.; et al.
CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES Early Access: FEB 2021
44. Optimizing high-quality graphene nanoflakes production through organic (bio)-precursor plasma decomposition
Casanova, A.; Rincon, R.; Munoz, J.; et al.
FUEL PROCESSING TECHNOLOGY Volume: 212 Article Number: 106630 Published: FEB 2021
43. Pressure-dependent synthesis of graphene nanoflakes using Ar/H-2/CH4 non-thermal plasma based on rotating arc discharge
Wang, Cheng; Lu, ZhongShan; Ma, Jing; et al.
DIAMOND AND RELATED MATERIALS Volume: 111 Article Number: 108176 Published: JAN 2021
42. Synthesis of carbon nanoparticles in a non-thermal plasma process
Wang, Cheng; Li, Dongning; Lu, ZhongShan; et al.
CHEMICAL ENGINEERING SCIENCE Volume: 227 Article Number: 115921 Published: DEC 14 2020
41. Effects of hydrogen/carbon molar ratio on graphene nano-flakes synthesis by a non-thermal plasma process
Lu, Zhongshan; Li, Dongning; Wang, Cheng; et al.
DIAMOND AND RELATED MATERIALS Volume: 108 Article Number: 107932 Published: OCT 2020
40. Optical emission spectroscopy of non-equilibrium microwave plasma torch sustained by focused radiation of gyrotron at 24 GHz
Sintsov, Sergey; Tabata, Kuniyoshi; Mansfeld, Dmitry; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 53 Issue: 30 Article Number: 305203 Published: JUL 22 2020
39. Graphene based polymer electrolyte membranes for electro-chemical energy applications
Gahlot, Swati; Kulshrestha, Vaibhav
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 45 Issue: 34 Special Issue: SI Pages: 17029-17056
Published: JUL 3 2020
38. Non-equilibrium Atmospheric-Pressure Plasma Torch Sustained in a Quasi-optical Beam of Subterahertz Radiation
Sintsov, S. V.; Vodopyanov, A. V.; Viktorov, M. E.; et al.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES Volume: 41 Issue: 6 Pages: 711-727 Published: JUN 2020
37. Spectroscopic Study of a Helium Plasma Jet with Hydrocarbon Additives
Shavelkina, M. B.; Amirov, R. Kh.; Kavyrshin, D. I.; et al.
HIGH TEMPERATURE Volume: 58 Issue: 3 Pages: 309-316 Published: MAY 2020
36. Study of graphene layer growth on dielectric substrate in microwave plasma torch at atmospheric pressure
Jasek, Ondrej; Toman, Jozef; Jurmanova, Jana; et al.
DIAMOND AND RELATED MATERIALS Volume: 105 Article Number: 107798 Published: MAY 2020
35. Synthesis of few-layer graphene flakes by magnetically rotating arc plasma: effects of input power and feedstock injection position
Wang, Cheng; Song, Ming; Chen, Xianhui; et al.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 126 Issue: 3 Published: FEB 19 2020
34. Effects of Buffer Gases on Graphene Flakes Synthesis in Thermal Plasma Process at Atmospheric Pressure
Wang, Cheng; Song, Ming; Chen, Xianhui; et al.
NANOMATERIALS Volume: 10 Issue: 2 Article Number: 309 Published: FEB 2020
33. Deposition of vertical carbon nanosheets by MPECVD at atmospheric pressure
Marinov, S.; Vachkov, V.; Kiss'ovski, Zh
Journal of Physics Conference Series Volume: 1492 Article Number: 012032 Published: 2020
32. A 3D numerical analysis on magnetic field enhanced microwave linear plasma
Zhang, Wenjin; Chen, Longwei; Jiang, Yiman; et al.
AIP ADVANCES Volume: 10 Issue: 1 Article Number: 015220 Published: JAN 2020
31. 1D modeling of the equilibrium plasma flow in the scope of direct current plasma torch assisted graphene synthesis
Shavelkina, M. B.; Ivanov, P. P.; Bocharov, A. N.; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 49 Article Number: 495202 Published: DEC 4 2019
30. Plasma Jet-Assisted Synthesis of Graphene Using a DC Plasma Torch
Shavelkina, M. B.; Amirov, R. Kh.; Kavyrshin, D. I.; et al.
PLASMA PHYSICS REPORTS Volume: 45 Issue: 11 Pages: 1080-1086 Published: NOV 2019
29. Co and CeO2 co-decorated N-doping carbon nanofibers for rechargeable Zn-air batteries

- Zhang, Zhengmei; Gao, Daqian; Xue, Desheng; et al.
NANOTECHNOLOGY Volume: 30 Issue: 39 Article Number: 395401 Published: SEP 27 2019
28. Experimental characteristics of 2.45 GHz microwave reconfigurable plasma antennas
Zhao, Jiansen; Sun, Zhen; Ren, Yuxiang; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 29 Article Number: 295202 Published: JUL 17 2019
27. On the interplay between plasma discharge instability and formation of free-standing graphene nanosheets in a dual-channel microwave plasma torch at atmospheric pressure
Toman, Jozef; Jasek, Ondrej; Snirer, Miroslav; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 26 Article Number: 265205 Published: JUN 26 2019
26. Durability study of platinum nanoparticles supported on gas-phase synthesized graphene in oxygen reduction reaction conditions
Bertin, Erwan; Muenzer, Adrian; Reichenberger, Sven; et al.
APPLIED SURFACE SCIENCE Volume: 467 Pages: 1181-1186 Published: FEB 15 2019
25. Graphene synthesized in atmospheric plasmas-A review
Dato, Albert
JOURNAL OF MATERIALS RESEARCH Volume: 34 Issue: 1 Special Issue: SI Pages: 214-230 Published: JAN 14 2019
24. A synergistic effect of Co and CeO₂ in nitrogen-doped carbon nanostructure for the enhanced oxygen electrode activity and stability
Sivanantham, Arumugam; Ganesan, Pandian; Shanmugam, Sangaraju
APPLIED CATALYSIS B-ENVIRONMENTAL Volume: 237 Pages: 1148-1159 Published: DEC 5 2018
23. "Snowing" Graphene using Microwave Ovens
Sun, Yangyong; Yang, Liangwei; Xia, Kailun; et al.
ADVANCED MATERIALS Volume: 30 Issue: 40 Article Number: 1803189 Published: OCT 4 2018
22. Methane/nitrogen plasma-assisted synthesis of graphene and carbon nanotubes
Shavelkina, M. B.; Filimonova, E. A.; Amirov, R. Kh; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 51 Issue: 29 Article Number: 294005 Published: JUL 25 2018
21. Methane/nitrogen plasma-assisted synthesis of graphene and carbon nanotubes
Shavelkina, M. B.; Filimonova, E. A.; Amirov, R. Kh; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 51 Issue: 29 Article Number: 294005 Published: JUL 25 2018
20. Continuous Synthesis of Hydrogenated Graphene in Thermal Plasma
Shavelkina, M. B.; Amirov, R. Kh.; Alikhanov, N. R.; et al.
JOURNAL OF STRUCTURAL CHEMISTRY Volume: 59 Issue: 4 Pages: 773-779 Published: JUL 2018
19. All gas-phase synthesis of graphene: Characterization and its utilization for silicon-based lithium-ion batteries
Muenzer, Adrian; Xiao, Lisong; Schlleier, Yee Hwa; et al.
ELECTROCHIMICA ACTA Volume: 272 Pages: 52-59 Published: MAY 10 2018
18. One-step synthesis of TiC/multilayer graphene composite by thermal plasma
Kim, Dong-Wook; Heo, Un Seon; Kim, Kyo-Seon; et al.
CURRENT APPLIED PHYSICS Volume: 18 Issue: 5 Pages: 551-558 Published: MAY 2018
17. High electrocatalytic activity of metal-free and non-doped hierarchical carbon nanowalls towards oxygen reduction reaction
Lehmann, Karsten; Yurchenko, Olena; Melke, Julia; et al.
ELECTROCHIMICA ACTA Volume: 269 Pages: 657-667 Published: APR 10 2018
16. ELECTROCHEMICAL PROPERTIES OF GRAPHENE NANOSHEETS SYNTHESISED IN MICROWAVE PLASMA TORCH DISCHARGE
Toman, Jozef; Jasek, Ondrej; Prasek, Jan; et al.
9TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION (NANOCON 2017) Pages: 88-93 Published: 2018
15. Investigations of novel high power atmospheric pressure microwave plasma source designed for gas processing
Miotk, Robert; Jasinski, Mariusz; Mizeraczyk, Jerzy
PRZEGLAD ELEKTROTECHNICZNY Volume: 94 Issue: 7 Pages: 98-101 Published: 2018
14. Thermal Growth of Graphene: A Review
Tan, Hai; Wang, Deguo; Guo, Yanbao
COATINGS Volume: 8 Issue: 1 Article Number: 40 Published: JAN 2018
13. Melero, C.; Rincon, R.; Munoz, J.; et al.
Scalable graphene production from ethanol decomposition by microwave argon plasma torch
PLASMA PHYSICS AND CONTROLLED FUSION Volume: 60 Issue: 1 Article Number: 014009 Published: JAN 2018
12. Viveiros, Raquel; Dias, Francisco M.; Maia, Luisa B.; et al.
Green strategy to produce large core-shell affinity beads for gravity-driven API purification processes
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: 54 Pages: 341-349 Published: OCT 25 2017
11. Shashurin, A.; Fang, X.; Zemlyanov, D.; et al.
Substrate independent approach for synthesis of graphene platelet networks

10. Kovacevic, E.; Hussain, S.; Berndt, J.; et al.
Plasma Synthesis of Conductive Carbon Based Nanomaterials
PLASMA NANO SCIENCE AND TECHNOLOGY Book Series: ECS Transactions Volume: 77 Issue: 3 Pages: 37-39 Published: 2017
 9. Park, Choon-Sang; Kim, Dong Ha; Shin, Bhum Jae; et al.
Conductive Polymer Synthesis with Single-Crystallinity via a Novel Plasma Polymerization Technique for Gas Sensor Applications
MATERIALS Volume: 9 Issue: 10 Article Number: 812 Published: OCT 2016
 8. Loureiro, Jorge; Amorim, Jayr
Applications of Low-Temperature Plasmas
KINETICS AND SPECTROSCOPY OF LOW TEMPERATURE PLASMAS Book Series: Graduate Texts in Physics Pages: 413-440
Published: 2016
 7. Park, C.-S., Kim, D.H., Shin, B.J., Kim, D.Y., Lee, H.-K., Tae, H.-S.
Conductive Polymer Synthesis with Single-Crystallinity via a Novel Plasma Polymerization Technique for Gas Sensor Applications
MATERIALS Volume: 9 Issue: 10 Article Number: 812 DOI: 10.3390/ma9100812 Published: OCT 2016
 6. Rincón, R., Marinas, A., Muñoz, J., Melero, C., Calzada, M.D.
Experimental research on ethanol-chemistry decomposition routes in a microwave plasma torch for hydrogen production
CHEMICAL ENGINEERING JOURNAL Volume: 284 Pages: 1117-1126 DOI: 10.1016/j.cej.2015.09.062 Published: JAN 15 2016
 5. Park, C.-S., Kim, D.H., Shin, B.J., Tae, H.-S.
Synthesis and Characterization of Nanofibrous Polyaniline Thin Film Prepared by Novel Atmospheric Pressure Plasma Polymerization Technique
MATERIALS Volume: 9 Issue: 1 Article Number: 39 DOI: 10.3390/ma9010039 Published: JAN 2016
 4. Campos, J.M., Ferraria, A.M., Botelho Do Rego, A.M., Ribeiro, M.R., Barros-Timmons, A.
Studies on PLA grafting onto graphene oxide and its effect on the ensuing composite films
MATERIALS CHEMISTRY AND PHYSICS Volume: 166 Pages: 122-132 DOI: 10.1016/j.matchemphys.2015.09.036 Published: SEP 15 2015
 3. Bozduman, F, Gulec, A, Noree, S.; Durmaz, Y, Ismael, M, Oksuz, AU
GRAPHENE SYNTHESIS BY ATMOSPHERIC PRESSURE MICROWAVE PLASMA
2015 42ND IEEE INTERNATIONAL CONFERENCE ON PLASMA SCIENCES (ICOPS) Published: 2015
 2. Shashurin, A.; Keidar, M.
Synthesis of 2D materials in arc plasmas
JOURNAL OF PHYSICS D-APPLIED PHYSICS 48(31) Article Number: 314007 AUG 12 2015
 1. Rincon, R.; Melero, C.; Jimenez, M.; et al.
Synthesis of multi-layer graphene and multi-wall carbon nanotubes from direct decomposition of ethanol by microwave plasma without using metal catalysts
PLASMA SOURCES SCIENCE & TECHNOLOGY 24 (3) Article Number: 032005 MAY 2015
90. “Raman spectra of R₂O₃ (R—rare earth) sesquioxides with C-type bixbyite crystal structure: A comparative study”
M. V. Abrashev, N. D. Todorov, and J. Geshev
Journal of Applied Physics **116**, 103508 (2014) (8pp)
76. Lattice dynamics study of (Gd_{1-x}Yb_x)(₂)O-3(x=0.11) at high pressure
Mari-Guaita, Julia; Gallego-Parra, S.; Sans, J. A.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 871 Article Number: 159525 Published: AUG 5 2021
 75. Growth and spectroscopy of Tm³⁺,Ho³⁺ co-doped LuYO₃ single crystal for 2.1 μm laser
Chen, Guangzhu; Li, Shanming; Zhang, Yuhang; et al.
JOURNAL OF LUMINESCENCE Volume: 234 Article Number: 117951 Published: JUN 2021
 74. Intra-4f transitions-induced red emission in ZnO-Eu₂O₃ ceramic
Martins, D., Santos, D.A.A., Macêdo, M.A.
Radiation Physics and Chemistry 183, 109392 (2021)
 73. Antimony substitution leading to structural transformation (Bixbyite -> Fluorite) and altering the optical band gap in Y₂O₃
Nagarajan, Rajamani; Kumari, Promila
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 863 Article Number: 158733 Published: MAY 15 2021
 72. Modification of the spectroscopic properties of Tb₂O₃ phosphor under the high-pressure phase transitions sequence
Candela, M. T.; Aguado, F.; Gonzalez-Lavin, J.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 859 Article Number: 157899 Published: APR 5 2021
 71. Lattice dynamics of yttria: A combined investigation from spectrum measurements and first-principle calculations
Wang, Chun-Hai; Shu, Wenhua; Qing, Yuchang; et al.
JOURNAL OF THE AMERICAN CERAMIC SOCIETY Volume: 104 Issue: 4 Pages: 1797-1805 Published: APR 2021

70. Influence of varying thermodynamic parameters on the structural behavior of nano-crystalline europium sesquioxide
Bura, Neha; Yadav, Deepa; Bhoriya, Ankit; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 856 Article Number: 158129 Published: MAR 5 2021
69. Unraveling microstrain-promoted structural evolution and thermally driven phase transition in c-Sc₂O₃ nanocrystals at high pressure
Zou, Yongtao; Li, Mu; Zhang, Wei; et al.
PHYSICAL REVIEW B Volume: 102 Issue: 21 Article Number: 214115 Published: DEC 31 2020
68. KLi₂RE(BO₃)₂ (RE = Dy, Ho, Er, Tm, Yb, and Y): Structural, Spectroscopic, And Thermogravimetric Studies on a Series of Mixed-Alkali Rare-Earth Orthoborates
Chen, Pengyun; Murshed, M. Mangir; Fischer, Michael; et al.
INORGANIC CHEMISTRY Volume: 59 Issue: 24 Pages: 18214-18224 Published: DEC 21 2020
67. Photoluminescence, thermoluminescence, and cathodoluminescence of optimized cubic Gd₂O₃:Bi phosphor powder
Abdelrehman, Mogahid H. M.; Kroon, Robin E.; Yousif, Abdelrhman; et al.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 38 Issue: 6 Article Number: 063207 Published: DEC 2020
66. Defect structure and vibrational states in Eu-doped cubic gadolinium oxide
Kislov, Alexey N.; Zatsopin, Anatoly F.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 22 Issue: 42 Pages: 24498-24505 Published: NOV 14 2020
65. EuxOy-PdO catalyst concerted efficiently catalyzes Suzuki-Miyaura coupling reaction
Wang, Jing; Fan, Xiaoye; Liu, Bo; et al.
MATERIALS CHEMISTRY AND PHYSICS Volume: 252 Article Number: 123227 Published: SEP 15 2020
64. Ultra-wide-bandgap (ScGa)₂O₃ alloy thin films and related sensitive and fast responding solar-blind photodetectors
Wang, Qile; Huang, Pan; Liu, Qi; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 834 Article Number: 155036 Published: SEP 5 2020
63. Growth and spectra of Tm³⁺ doped LuYO₃ single crystal for 2 μm lasers
Chen, Guangzhu; Li, Shanming; Zhang, Lianhan; et al.
INFRARED PHYSICS & TECHNOLOGY Volume: 109 Article Number: 103431 Published: SEP 2020
62. X-ray absorption spectroscopy and Eu³⁺-emission characteristics in GaAs/SnO₂ heterostructure
Bueno, Cristina F.; Ramos, Aline Y.; Bailly, Aude; et al.
SN APPLIED SCIENCES Volume: 2 Issue: 9 Article Number: 1579 Published: AUG 28 2020
61. A Comparative Study on Luminescence Properties of Y₂O₃: Pr(3+) Nanocrystals Prepared by Different Synthesis Methods
Diego-Rucabado, Andrea; Candela, Marina T.; Aguado, Fernando; et al.
NANOMATERIALS Volume: 10 Issue: 8 Article Number: 1574 Published: AUG 2020
60. Structure, mechanical, optical, and imaging contrast features of Yb³⁺, Dy³⁺, Tb³⁺, Gd³⁺, Eu³⁺, and Nd(3+)substituted Y₂O₃-Ln(2)O(3)solid solution
Kalaivani, Srigurunathan; Kannan, Sanjeevi
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS Volume: 108 Issue: 6 Pages: 2656-2669 Published: AUG 2020
59. Structural and Lattice-Dynamical Properties of Tb₂O₃ under Compression: A Comparative Study with Rare Earth and Related Sesquioxides
Ibanez, Jordi; Angel Sans, Juan; Cuenca-Gotor, Vanesa; et al.
INORGANIC CHEMISTRY Volume: 59 Issue: 14 Pages: 9648-9666 Published: JUL 20 2020
58. Preparation of In-doped Y₂O₃ ceramics through a sol-gel process: Effects on the structural and electronic properties
Richard, Diego; Renteria, Mario; Carbonari, Artur W.; et al.
CERAMICS INTERNATIONAL Volume: 46 Issue: 10 Pages: 16088-16095 Part: B Published: JUL 2020
57. Gaseous Reduction of Manganese Ores: A Review and Theoretical Insight
Cheraghi, Alireza; Yoozbashizadeh, Hossein; Safarian, Jafar
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW Volume: 41 Issue: 3 Pages: 198-215 Published: MAY 3 2020
56. Yb:Lu₂O₃ hydrothermally grown single-crystal high-resolution absorption spectra obtained between 8 and 300 K
Brown, David C.; Fleischman, Zackery; Merkle, Larry D.; et al.
APPLIED PHYSICS B-LASERS AND OPTICS Volume: 126 Issue: 4 Article Number: 62 Published: MAR 13 2020
55. High-mobility nanometer-thick crystalline In-Sm-O thin-film transistors via aqueous solution processing
Li, Yanwei; Zhu, Deliang; Xu, Wangying; et al.
JOURNAL OF MATERIALS CHEMISTRY C Volume: 8 Issue: 1 Pages: 310-318 Published: JAN 7 2020
54. Optimization of Deposition Parameter Of Cr Doped Eu₂O₃ Thin Films
Prakash, Ram; Kumar, Sandeep
AIP Conference Proceedings Volume: 2220 Article Number: 090004 Published: 2020
53. Rare-Earth-Doped Y₄Al₂O₉ Nanoparticles for Stable Light-Converting Phosphors
Liu, Chenyang; Pokhrel, Suman; Tessarek, Christian; et al.

- ACS APPLIED NANO MATERIALS Volume: 3 Issue: 1 Pages: 699-710 Published: JAN 2020
52. Phonon variations in nano-crystalline lutetium sesquioxide under the influence of varying temperature and pressure
Bura, Neha; Yadav, Deepa; Singh, Jasveer; et al.
JOURNAL OF APPLIED PHYSICS Volume: 126 Issue: 24 Article Number: 245901 Published: DEC 28 2019
51. Shape control over microwave hydrothermally grown Y₂O₃:Eu by europium concentration adjustment
Kaszewski, Jaroslaw; Rosowska, Julita; Witkowski, Bartlomiej S.; et al.
JOURNAL OF RARE EARTHS Volume: 37 Issue: 11 Pages: 1206-1212 Published: NOV 2019
50. Structural and Electronic Characterization Through Spectroscopy Analysis of Gd-Gd₂O₃ Nanoparticles
Perdigon-Lagunes, Pedro; Estevez, Octavio; Zorrilla, Cristina; et al.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY Volume: 19 Issue: 11 Pages: 7345-7355 Published: NOV 2019
49. Bulk Yttria as a Host for Lanthanides in Biomedical Applications: Influence of Concentration Gradients on Structural, Mechanical, Optical, and in Vitro Imaging Behavior
Kalaivani, Srigrunathan; Guleria, Anupam; Kumar, Dinesh; et al.
ACS APPLIED BIO MATERIALS Volume: 2 Issue: 10 Pages: 4634-4647 Published: OCT 21 2019
48. Growth, structure, and spectroscopic properties of a Tm³⁺, Ho³⁺ co-doped Lu₂O₃ crystal for similar to 2.1 μ m lasers
Li, Shanming; Zhang, Lianhan; Tan, Xiaojun; et al.
OPTICAL MATERIALS Volume: 96 Article Number: 109277 Published: OCT 2019
47. Insight into the pressure effect on the structural stability and physical properties of cubic sesquioxides X₂O₃ (X = Sc, Y and In)
Li, Dongzhi; Zhang, Xudong; Liu, Cong; et al.
VACUUM Volume: 168 Article Number: 108855 Published: OCT 2019
46. Luminescence decay-based Y₂O₃:Er phosphor thermometry: Temperature sensitivity governed by multiphonon emission with an effective phonon energy transition
Eldridge, Jeffrey, I
JOURNAL OF LUMINESCENCE Volume: 214 Article Number: 116535 Published: OCT 2019
45. Yb-doping effect on structure and lattice dynamics of Gd₂O₃
Kislov, A. N.; Zatsepin, A. F.
JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 31 Issue: 38 Article Number: 385402 Published: SEP 25 2019
44. Collective substitutions of selective rare earths (Yb³⁺, Dy³⁺, Tb³⁺, Gd³⁺, Eu³⁺, Nd³⁺) in ZrO₂: an exciting prospect for biomedical applications
Kalaivani, S.; Kannan, S.
DALTON TRANSACTIONS Volume: 48 Issue: 25 Pages: 9291-9302 Published: JUL 7 2019
43. Development of Y₂O₃: Ho³⁺/Yb³⁺ Upconverting Nanophosphors for Enhancing Solar Cell Efficiency of Dye-Sensitized Solar Cells
Dutta, Joydip; Rai, Vineet Kumar; Durai, M. Malai; et al.
IEEE JOURNAL OF PHOTOVOLTAICS Volume: 9 Issue: 4 Pages: 1040-1045 Published: JUL 2019
42. Ammonium oxalate-assisted synthesis of Gd₂O₃ nanopowders
Foo, Yuan-Teng; Abdullah, Ahmad Zuhairi; Horri, Bahman Amini; et al.
CERAMICS INTERNATIONAL Volume: 45 Issue: 7 Pages: 9082-9091 Part: A Published: MAY 2019
41. Ce-Sm-xCu cost-efficient catalysts for H₂ production through the glycerol steam reforming reaction
Polychronopoulou, Kyriaki; Charisiou, Nikolaos D.; Siakavelas, Georgios I.; et al.
SUSTAINABLE ENERGY & FUELS Volume: 3 Issue: 3 Pages: 673-691 Published: MAR 1 2019
40. Eu-induced lattice vibrations in Gd₂O₃ crystals
Kislov, A. N.; Zatsepin, A. F.
Journal of Physics Conference Series Volume: 1391 Article Number: 012018 Published: 2019
39. Simulation of static and dynamic lattice properties of Yb-doped gadolinium oxide
Kislov, A. N.; Zatsepin, A. F.
MATERIALS TODAY-PROCEEDINGS Volume: 18 Pages: 520-524 Part: 2 Published: 2019
38. A novel conductometric sensor based on hierarchical self-assembly nanoparticles Sm₂O₃ for VOCs monitoring
Jamnani, S.R., Moghaddam, H.M., Leonardi, S.G., Neri, G.
Ceramics International 44(14), pp. 16953-16959 (2018)
37. Lattice dynamics study of cubic Tb₂O₃
Ibanez, Jordi; Blazquez, Oriol; Hernandez, Sergi; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 49 Issue: 12 Pages: 2021-2027 Published: DEC 2018
36. Tuning the activity of Cu-containing rare earth oxide catalysts for CO oxidation reaction: Cooling while heating paradigm in microwave-assisted synthesis
AlKetbi, M.; Polychronopoulou, K.; Zedan, Abdallah F.; et al.
MATERIALS RESEARCH BULLETIN Volume: 108 Pages: 142-150 Published: DEC 2018
35. Phase transformations induced by heavy ion irradiation in Gd₂O₃: Comparison between ballistic and electronic excitation regimes
Bilgen, S.; Sattonnay, G.; Grygiel, C.; et al.

34. Synthesis, spectroscopic characterization and laser operation of Ho³⁺ in "mixed" (Lu,Sc)(2)O-3 ceramics
Jing, Wei; Loiko, Pavel; Maria Serres, Josep; et al.
JOURNAL OF LUMINESCENCE Volume: 203 Pages: 145-151 Published: NOV 2018
33. Sub-solidus phase equilibria in the YO_{1.5}-TaO_{2.5} system
Fernandez, Abel N.; Macauley, Chandra A.; Park, Daesung; et al.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 38 Issue: 14 Pages: 4786-4798 Published: NOV 2018
32. Pressure induced structural phase transition in rare earth sesquioxide Tm₂O₃: Experiment and ab initio calculations
Irshad, K. A.; Anees, P.; Sahoo, Shradhanjali; et al.
JOURNAL OF APPLIED PHYSICS Volume: 124 Issue: 15 Article Number: 155901 Published: OCT 21 2018
31. Phase equilibria in the ZrO₂-YO_{1.5}-TaO_{2.5} system at 1250 degrees C
Macauley, Chandra A.; Fernandez, Abel N.; Van Sluytman, Jason S.; et al.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 38 Issue: 13 Pages: 4523-4532 Published: OCT 2018
30. Density functional study of the phase stability and Raman spectra of Yb₂O₃, Yb₂SiO₅ and Yb₂Si₂O₇ under pressure
Ogawa, Takafumi; Otani, Noriko; Yokoi, Taishi; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 20 Issue: 24 Pages: 16518-16527 Published: JUN 28 2018
29. RAMAN SCATTERING IN GLASSY Li₂B₄O₇
Puga, Pavlo P.; Danyliuk, Pavlo S.; Rizak, Galina, V; et al.
JOURNAL OF CHEMISTRY AND TECHNOLOGIES Volume: 26 Issue: 2 Pages: 31-38 Published: 2018
28. Raman scattering in glassy Li₂B₄O₇ doped with Er₂O₃
Puga, P. P.; Danyliuk, P. S.; Gomonai, A., I; et al.
UKRAINIAN JOURNAL OF PHYSICAL OPTICS Volume: 19 Issue: 4 Pages: 211-219 Published: 2018
27. Loiko, P., Koopmann, P., Mateos, X., (...), Petrov, V., Krankel, C.
Highly Efficient, Compact Tm³⁺:RE₂O₃ (RE = Y, Lu, Sc) Sesquioxide Lasers Based on Thermal Guiding
IEEE Journal of Selected Topics in Quantum Electronics 24(5),1600713, 2018
26. Kumar, S., Prakash, R., Choudhary, R.J., Phase, D.M.
Photoemission studies on (1 1 1) textured Cr doped Eu₂O₃ thin film
Journal of Alloys and Compounds 738, pp. 233-238, 2018
25. Polychronopoulou, K., Zedan, A.F., AlKetbi, M., (...), Isakovic, A.F., AlHassan, S.
Tailoring the efficiency of an active catalyst for CO abatement through oxidation reaction: The case study of samarium-doped ceria
Journal of Environmental Chemical Engineering 6(1), pp. 266-280, 2018
24. Perdigon-Lagunes, P., Estevez, O., Zorrilla Cangas, C., Herrera-Becerra, R.
Gd - Gd₂O₃ multimodal nanoparticles as labeling agents
MRS Advances 3(14), pp. 761-766, 2017
23. Bordun, O.M., Bordun, I.O., Kukharsky, I.J., (...), Tsapovska, Z.I., Leonov, D.S.
Structure and vibrational spectra of thin films Y₂O₃:Eu
Nanosistemi, Nanomateriali, Nanotehnologii 15(1), pp. 27-36, 2017
22. Bispo, A.G., Ceccato, D.A., Lima, S.A.M., Pires, A.M.
Red phosphor based on Eu³⁺-isoelectronically doped Ba₂SiO₄ obtained via sol-gel route for solid state lightning
RSC Advances 7(85), pp. 53752-53762, 2017
21. Lahiri, Rini; Ghosh, Anupam; Dwivedi, Shyam Murli Manohar Dhar; et al.
Performance of Erbium-doped TiO₂ thin film grown by physical vapor deposition technique
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 123 Issue: 9 Article Number: 573 Published: SEP 2017
20. Raj, Athira K. V.; Rao, P. Prabhakar; Sreena, T. S.; et al.
Influence of local structure on photoluminescence properties of Eu³⁺ doped CeO₂ red phosphors through induced oxygen vacancies by contrasting rare earth substitutions
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 19 Issue: 30 Pages: 20110-20120 Published: AUG 14 2017
19. Anbarasu, V.; Dhilip, M.; Kumar, K. Saravana; et al.
Effect of transition metal ion substitution on structural and magnetic properties of Eu₂O₃ sesquioxide system
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 16 Pages: 12197-12206 Published: AUG 2017
18. Anbarasu, V., Dhilip, M., Saravana Kumar, K., Sivakumar, K.
Effect of trivalent transition metal ion substitution in multifunctional properties of Dy₂O₃ system
Journal of Materials Science: Materials in Electronics 28(12), pp. 8976-8985, 2017
17. Wu Qian; Weng Wei-Zhang; Liu Chun-Li; et al.
Effect of Preparation Methods on Photo-Induced Formation of Peroxide Species on Nd₂O₃
ACTA PHYSICO-CHIMICA SINICA Volume: 33 Issue: 10 Pages: 2064-2071 Published: JUL 17 2017

16. El Ghoul, J.; El Mir, L.
Structural and optical properties of Tb³⁺-doped Y₂O₃ nanoparticles
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 28 Issue: 12 Pages: 9066-9071 Published: JUN 2017
 15. Tomar, Renu; Kumar, Parmod; Kumar, Ashish; et al.
Investigations on structural and magnetic properties of Mn doped Er₂O₃
SOLID STATE SCIENCES Volume: 67 Pages: 8-12 Published: MAY 2017
 14. Zhang, Xian; Gui, Wenhua; Zeng, Qingfeng
First-principles study of structural, mechanical, and thermodynamic properties of cubic Y₂O₃ under high pressure
CERAMICS INTERNATIONAL Volume: 43 Issue: 3 Pages: 3346-3355 Published: FEB 15 2017
 13. Irshad K.A., Chandra Shekar N.V., Ravindran T.R., Srihari V., K.K. Pandey
X-ray diffraction and Raman studies on Ho: Eu₂O₃
Journal of Molecular Structure 1128, 325-329 DOI: 10.1016/j.molstruc.2016.08.077 (2017)
 12. Sharma, Nita Dilawar; Singh, Jasveer; Vijay, Aditi; et al.
Pressure-Induced Structural Transition Trends in Nanocrystalline Rare-Earth Sesquioxides: A Raman Investigation
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 120 Issue: 21 Pages: 11679-11689 Published: JUN 2 2016
 11. Kishimura, Hiroaki; Hamada, Sho; Aruga, Atsushi; et al.
Effect of shock compression on optical and structural properties of Eu₂O₃ and Y₂O₃:Eu³⁺ powders
JOURNAL OF APPLIED PHYSICS Volume: 119 Issue: 20 Article Number: 205111 Published: MAY 28 2016
 10. Ahuja, Babu Lal; Sharma, Sonu; Heda, Narayan Lal; et al.
Electronic and optical properties of ceramic Sc₂O₃ and Y₂O₃: Compton spectroscopy and first principles calculations
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 92 Pages: 53-63 Published: MAY 2016
 9. Sattonnay, G., Bilgen, S., Thomé, L., Grygiel, C., Monnet, I., Plantevin, O., Huet, C., Miro, S., Simon, P.
Structural and microstructural tailoring of rare earth sesquioxides by swift heavy ion irradiation
Physica Status Solidi (B) Basic Research 253(11), 2110-2114 DOI: 10.1002/pssb.201600451 (2016)
 8. Dilawar Sharma, N., Singh, J., Vijay, A., Samanta, K., Dogra, S., Bandyopadhyay, A.K.
Pressure-Induced Structural Transition Trends in Nanocrystalline Rare-Earth Sesquioxides: A Raman Investigation
Journal of Physical Chemistry C 120(21), 11679-11689 DOI: 10.1021/acs.jpcc.6b02104 (2016)
 7. Jiang, J., Yao, B.-L., Gao, X.-R., Wang, L.-K., Li, H.-P., Deng, L.-D.
Synthesis and optical properties of copper doped Y₂Ba₂O₅ pigments with high near-infrared reflectance
Wuji Cailiao Xuebao/Journal of Inorganic Materials 31(6), 641-646 DOI: 10.15541/jim20150562 (2016)
 6. Popov, V.V., Menushenkov, A.P., Yastrebtsev, A.A., Korovin, S.A., Tumarkin, A.V., Pisarev, A.A., Tsarenko, N.A., Arzhatkina, L.A., Arzhatkina, O.A.
The effect of synthesis conditions on the structure of compounds formed in the Dy₂O₃-TiO₂ system
Russian Journal of Inorganic Chemistry 61(4), 403-411 DOI: 10.1134/S003602361604015X (2016)
 5. Du, P., Lim, J.H., Leem, J.W., Cha, S.M., Yu, J.S.
Enhanced Photovoltaic Performance of Dye-Sensitized Solar Cells by Efficient Near-Infrared Sunlight Harvesting using Upconverting Y₂O₃:Er³⁺/Yb³⁺ Phosphor Nanoparticles
Nanoscale Research Letters Volume 10, Issue 1, 14 December 2015, Article number 321, 6p
 4. Quesada, Adrian; del Campo, Adolfo; Fernandez, Jose F.
Stabilization of cubic phase in dense Eu₂O₃ ceramics
MATERIALS LETTERS Volume: 157 Pages: 77-80 Published: OCT 15 2015
 3. Kumar, Sandeep; Prakash, Ram; Choudhary, R. J.; et al.
Structural, XPS and magnetic studies of pulsed laser deposited Fe doped Eu₂O₃ thin film
MATERIALS RESEARCH BULLETIN Volume: 70 Pages: 392-396 Published: OCT 2015
 2. Du, Peng; Luo, Laihui; Yue, Qingying; et al.
The simultaneous realization of high- and low-temperature thermometry in Er³⁺/Yb³⁺-codoped Y₂O₃ nanoparticles
MATERIALS LETTERS 143, 209-211 MAR 15 2015
 1. Khomenkova, L., Kushnirenko, V.I., Osipyonok, N.M., (...), Strelchuk, V.V., Borkovska, L.V.
Effect of rare-earth doping on structural and luminescent properties of screen-printed ZnO films
ECS Transactions Volume 66, Issue 1, 2015, Pages 321-332
91. “Simple procedure for an estimation of the coal rank using micro-Raman spectroscopy”
Ruth Hinrichs, Matthew T. Brown, Marcos A.Z. Vasconcellos, Miroslav V. Abrashev, and Wolfgang Kalkreuth
International Journal of Coal Geology **136**, 52–58 (2014) (7 pages)
78. The applicability of Raman spectroscopy in the assessment of palaeowildfire intensity

Theurer, Thomas; Muirhead, David K.; Jolley, David; et al.
PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY Volume: 570 Article Number: 110363 Published:
MAY 15 2021

77. Maturity and thermal evolution differences between two sets of Lower Palaeozoic shales and its significance for shale gas formation in south-western Sichuan Basin, China

Wang, Ye; Qiu, Nansheng; Xie, Xiaomin; et al.
GEOLOGICAL JOURNAL Early Access: MAR 2021

76. First evidence of microplastic contamination in the freshwater of Lake Guaíba, Porto Alegre, Brazil

Bertoldi, Crislaine; Lara, Larissa Z.; Mizushima, Fernanda A. de L.; et al.
SCIENCE OF THE TOTAL ENVIRONMENT Volume: 759 Article Number: 143503 Published: MAR 10 2021

75. Raman Spectroscopy as a Versatile Tool for Investigating Thermochemical Processing of Coal, Biomass, and Wastes: Recent Advances and Future Perspectives

Xu, Jun; He, Qichen; Xiong, Zhe; et al.
ENERGY & FUELS Volume: 35 Issue: 4 Pages: 2870-2913 Published: FEB 18 2021

74. Raman mapping of coal halos induced by uranium mineral radiation

Machovic, Vladimir; Havelcova, Martina; Sykorova, Ivana; et al.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: 246 Article Number: 118996 Published: FEB 5 2021

73. Research on Molecular Structure Characteristics of Vitrinite and Inertinite from Bituminous Coal with FTIR, Micro-Raman, and XRD Spectroscopy

Zhou, He; Wu, Caifang; Pan, Jienan; et al.
ENERGY & FUELS Volume: 35 Issue: 2 Special Issue: SI Pages: 1322-1335 Published: JAN 21 2021

72. Maturity Assessment of the Lower Cambrian and Sinian Shales Using Multiple Technical Approaches

Yang, Wei; He, Sheng; Zhai, Gangyi; et al.
JOURNAL OF EARTH SCIENCE Early Access: JAN 2021

71. Micro-Raman Spectroscopy of Selected Macerals of the Huminite Group: An Example from the Szczercow Lignite Deposit (Central Poland)

Bielowicz, Barbara; Morga, Rafal
ENERGIES Volume: 14 Issue: 2 Article Number: 281 Published: JAN 2021

70. The effects of char and potassium on the fast pyrolysis behaviors of biomass in an infrared-heating condition

Zhu, Haodong; Yi, Baojun; Hu, Hongyun; et al.
ENERGY Volume: 214 Article Number: 119065 Published: JAN 1 2021

69. Raman spectroscopy as a tool for provenancing black limestones (bigi morati) used in antiquity

Raneri, Simona; Kosek, Filip; Lazzarini, Lorenzo; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 52 Issue: 1 Special Issue: SI Pages: 241-250 Published: JAN 2021

68. Effect of chemical structure and sulfur speciation of high-sulfur coking coals on sulfur transformation during pyrolysis

Shen, Y.-F., Wang, M.-J., Hu, Y.-F., (...), Bao, W.-R., Chang, L.-P.
Ranliao Huaxue Xuebao/Journal of Fuel Chemistry and Technology 48(2), pp. 144-153 (2020)

67. Application of Micro-Raman Spectroscopy for the Quantitative Analysis of Vitrinite Reflectance in Medium and High Rank Colombian Coals

Urbano-Noguera, Ruben-Dario; Estupinan-Duran, Hugo-Armando; Neira-Arenas, Gustavo
REVISTA FACULTAD DE INGENIERIA, UNIVERSIDAD PEDAGOGICA Y TECNOLOGICA DE COLOMBIA Volume: 29
Issue: 54 Article Number: e12241 Published: DEC 15 2020

66. An integrated platform for thermal maturity assessment of polyphase, long-lasting sedimentary basins, from classical to brand-new thermal parameters and models: An example from the on-shore Baltic Basin (Poland)

Corrado, S.; Schito, A.; Romano, C.; et al.
MARINE AND PETROLEUM GEOLOGY Volume: 122 Article Number: 104547 Published: DEC 2020

65. Paleogeothermal Gradients Across an Inverted Hyperextended Rift System: Example of the Mauleon Fossil Rift (Western Pyrenees)

Saspiturry, N.; Lahfid, A.; Baudin, T.; et al.
TECTONICS Volume: 39 Issue: 10 Article Number: e2020TC006206 Published: OCT 2020

64. Validating Structural Styles in the Flysch Basin Northern Rif (Morocco) by Means of Thermal Modeling

Atouabat, Achraf; Corrado, Sveva; Schito, Andrea; et al.
GEOSCIENCES Volume: 10 Issue: 9 Article Number: 325 Published: SEP 2020

63. Progress of Raman spectroscopic investigations on the structure and properties of coal

Xu, Yanmei; Chen, Xia; Wang, Liang; et al.
JOURNAL OF RAMAN SPECTROSCOPY Volume: 51 Issue: 9 Special Issue: SI Pages: 1874-1884 Published: SEP 2020

62. Backtracking to Parent Maceral from Produced Bitumen with Raman Spectroscopy

Khatibi, Seyedalireza; Abarghani, Arash; Liu, Kouqi; et al.
MINERALS Volume: 10 Issue: 8 Article Number: 679 Published: AUG 2020

61. Spectral manifestations of coal metamorphism: Insights from coal microstructural framework
Ghosh, Santanu; Ojha, Anwita; Varma, Atul Kumar
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 228 Article Number: 103549 Published: AUG 1 2020
60. Thermal maturation as revealed by micro-Raman spectroscopy of mineral-organic aggregation (MOA) in marine shales with high and over maturities
Xiao, Xianming; Zhou, Qin; Cheng, Peng; et al.
SCIENCE CHINA-EARTH SCIENCES Volume: 63 Issue: 10 Pages: 1540-1552 Published: OCT 2020
59. Molecular structure characterization of lignite treated with ionic liquid via FTIR and XRD spectroscopy
Li Zhao; Ni Guanhua; Wang Hui; et al.
FUEL Volume: 272 Article Number: 117705 Published: JUL 15 2020
58. Raman spectroscopy of biochar from the pyrolysis of three typical Chinese biomasses: A novel method for rapidly evaluating the biochar property
Xu, Jun; Liu, Jiawei; Ling, Peng; et al.
ENERGY Volume: 202 Article Number: 117644 Published: JUL 1 2020
57. Geochemistry of shear zone-hosted uranium mineralisation at the Zadni Chodov uranium deposit (Bohemian Massif)
Havelcova, Martina; Machovic, Vladimir; Rene, Milos; et al.
ORE GEOLOGY REVIEWS Volume: 120 Article Number: 103428 Published: MAY 2020
56. Evaluation of terrestrial carbonaceous matter aromatization by Raman spectroscopy and its application to C chondrites
Schmidt, Jaques S.; Hinrichs, Ruth
METEORITICS & PLANETARY SCIENCE Volume: 55 Issue: 4 Pages: 800-817 Published: APR 2020
55. Chemical imaging of coal in micro-scale with Raman mapping technology
Xu, Jun; Liu, Jiawei; Zhang, Xin; et al.
FUEL Volume: 264 Article Number: 116826 Published: MAR 15 2020
54. Raman spectroscopy of intruded coals from the Illinois Basin: Correlation with rank and estimated alteration temperature
Li, Kuo; Rimmer, Susan M.; Presswood, Severin M.; et al.
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 219 Article Number: 103369 Published: FEB 15 2020
53. Structural order evaluation and structural evolution of coal derived natural graphite during graphitization
Zhang, Shuai; Liu, Qinfu; Zhang, Hao; et al.
CARBON Volume: 157 Pages: 714-723 Published: FEB 2020
52. An automatic approach for characterization of the thermal maturity of dispersed organic matter Raman spectra at low diagenetic stages
Schito, Andrea; Corrado, Sveva
APPLICATION OF ANALYTICAL TECHNIQUES TO PETROLEUM SYSTEMS Book Series: Geological Society Special Publication Volume: 484 Pages: 107-119 Published: 2020
51. Raman spectroscopy: an effective thermal marker in low temperature carbonaceous fold-thrust belts
Muirhead, D. K.; Bond, C. E.; Watkins, H.; et al.
FOLD AND THRUST BELTS: STRUCTURAL STYLE, EVOLUTION AND EXPLORATION Book Series: Geological Society Special Publication Volume: 490 Pages: 135-151 Published: 2020
50. Thermal history of the Carboniferous strata in the northern part of the Intra-Sudetic Basin (SW Poland): A combined Raman spectroscopy and organic petrography study
Botor, Dariusz; Tobola, Tomasz; Waliczek, Marta
ACTA GEOLOGICA POLONICA Volume: 70 Issue: 3 Pages: 363-396 Published: 2020
49. About the Microstructure of the Graptolite Periderm - Examples from the Holy Cross Mountains (Poland)
Morga, R.
IOP Conference Series: Earth and Environmental Science 362(1),012076 (2019)
48. Utility of Raman spectroscopy in estimates of the thermal maturity of Ediacaran organic matter: An example from the East European Craton
Goryl, M.; Banasik, K.; Smolarek-Lach, J.; Marynowski, L.
Chemie der Erde 79(3), pp. 467-474 (2019)
47. Crystallite Structure Characteristics and Its Influence on Methane Adsorption for Different Rank Coals
Meng, Junqing; Li, Shichao; Niu, Jiaying
ACS OMEGA Volume: 4 Issue: 24 Pages: 20762-20772 Published: DEC 10 2019
46. Raman spectroscopy as a tool to determine the thermal maturity of organic matter: Application to sedimentary, metamorphic and structural geology
Henry, Delano G.; Jarvis, Ian; Gillmore, Gavin; et al.
EARTH-SCIENCE REVIEWS Volume: 198 Article Number: 102936 Published: NOV 2019
45. Quantitative evaluation of vitrinite reflectance in shale using Raman spectroscopy and multivariate analysis
Lupoi, Jason S.; Hackley, Paul C.; Birsic, Erin; et al.
FUEL Volume: 254 Article Number: 115573 Published: OCT 15 2019
44. Difference in structural chemistry of non-coking and coking coal using acid treatment demineralization technique

- Ghorai, Soumitra; Ghosh, Bidisha; Chandaliya, Vimal Kumar; et al.
INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION Early Access: SEP 2019
43. Utility of Raman spectroscopy in estimates of the thermal maturity of Ediacaran organic matter: An example from the East European Craton
Goryl, Magdalena; Banasik, Kamila; Smolarek-Lach, Justyna; et al.
GEOCHEMISTRY Volume: 79 Issue: 3 Special Issue: SI Pages: 467-474 Published: SEP 2019
42. Thermal maturity determination for oil prone organic matter based on the Raman spectra of artificial matured samples
Mi, Jingkui; He, Kun; Fan, Junjia; et al.
VIBRATIONAL SPECTROSCOPY Volume: 104 Article Number: 102940 Published: SEP 2019
41. Raman spectroscopy of graptolite periderm and its potential as an organic maturity indicator for the Lower Paleozoic in southwestern China
Hao, Jingyue; Zhong, Ningning; Luo, Qingyong; et al.
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 213 Article Number: 103278 Published: SEP 1 2019
40. On the difference of graphitization behavior between vitrinite- and inertinite-rich anthracites during heat treatment
Wang, Lu; Qin, Rongfang; Li, Yu; et al.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS Early Access: AUG 2019
39. Natural and experimental structural evolution of dispersed organic matter in mudstones: The Shimanto accretionary complex, southwest Japan
Nakamura, Yoshihiro; Hara, Hidetoshi; Kagi, Hiroyuki
ISLAND ARC Volume: 28 Issue: 5 Article Number: e12318 Published: SEP 2019
38. Comparing optical and Raman spectroscopic investigations of phytoclasts and sporomorphs for thermal maturity assessment: the case study of Hettangian continental facies in the Holy cross Mts. (central Poland)
Schito, A.; Spina, A.; Corrado, S.; et al.
MARINE AND PETROLEUM GEOLOGY Volume: 104 Pages: 331-345 Published: JUN 2019
37. Effects of chemical composition, disorder degree and crystallite structure of coal macromolecule on nanopores (0.4-150 nm) in different rank naturally-matured coals
Liu, Yu; Zhu, Yanming; Chen, Shangbin
FUEL Volume: 242 Pages: 553-561 Published: APR 15 2019
36. Raman spectroscopic study of chemical structure and thermal maturity of vitrinite from a suite of Australia coals
Zhang, Yulong; Li, Zhongsheng
FUEL Volume: 241 Pages: 188-198 Published: APR 1 2019
35. Coal microcrystalline structural changes related to methane adsorption/desorption
Pan, Jienan; Lv, Minmin; Hou, Quanlin; et al.
FUEL Volume: 239 Pages: 13-23 Published: MAR 1 2019
34. A rapid method for determining organic matter maturity using Raman spectroscopy: Application to Carboniferous organic-rich mudstones and coals
Henry, D. G.; Jarvis, I; Gillmore, G.; et al.
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 203 Pages: 87-98 Published: FEB 2 2019
33. Changes in the structure of lignite macerals during the gasification process determined by Raman spectroscopy
Bielowicz, Barbara
PRZEMYSŁ CHEMICZNY Volume: 98 Issue: 2 Pages: 241-245 Published: FEB 2019
32. Micro-Raman Spectroscopy of Microscopically Distinguishable Components of Naturally Graphitized Coals from Central Hunan Province, China
Li, Kuo; Rimmer, Susan M.; Liu, Qinfu; et al.
ENERGY & FUELS Volume: 33 Issue: 2 Pages: 1037-1048 Published: FEB 2019
31. Integrated assessment of thermal maturity of the Upper Ordovician-Lower Silurian Wufeng-Longmaxi shale in Sichuan Basin, China
Wang, Ye; Qiu, Nansheng; Borjigin, Tenger; et al.
MARINE AND PETROLEUM GEOLOGY Volume: 100 Pages: 447-465 Published: FEB 2019
30. The fluorescence interference in Raman spectrum of raw coals and its application for evaluating coal property and combustion characteristics
Xiang, Jun; Liu, Jiawei; Xu, Jun; et al.
PROCEEDINGS OF THE COMBUSTION INSTITUTE Volume: 37 Issue: 3 Pages: 3053-3060 Published: 2019
29. Quantitative evaluation of vitrinite reflectance and atomic O/C in coal using Raman spectroscopy and multivariate analysis
Lupoi, Jason S.; Fritz, Luke P.; Hackley, Paul C.; et al.
FUEL Volume: 230 Pages: 1-8 Published: OCT 15 2018
28. Ultrasonic-assisted cleaning of Indian low-grade coal for clean and sustainable energy
Barma, Santosh Deb; Sathish, R.; Baskey, Prasanta Kumar
JOURNAL OF CLEANER PRODUCTION Volume: 195 Pages: 1203-1213 Published: SEP 10 2018
27. Evaluating Molecular Evolution of Kerogen by Raman Spectroscopy: Correlation with Optical Microscopy and Rock-Eval Pyrolysis

- Khatibi, Seyedalireza; Ostadhassan, Mehdi; Tuschel, David; et al.
ENERGIES Volume: 11 Issue: 6 Article Number: 1406 Published: JUN 2018
26. Jason S. Lupoi, Luke P. Fritz, Paul C. Hackley, Logan Solotky, Amy Weislogel, Steve Schlaegle
Quantitative evaluation of vitrinite reflectance and atomic O/C in coal using Raman spectroscopy and multivariate analysis
Fuel 230, 1-8 (2018).
25. Henry, D.G., Jarvis, I., Gillmore, G., Stephenson, M., Emmings, J.F.
Assessing low-maturity organic matter in shales using Raman spectroscopy: Effects of sample preparation and operating procedure
International Journal of Coal Geology 191, pp. 135-151, 2018.
24. Liu, Xianfeng; Song, Dazhao; He, Xueqiu; et al.
Coal macromolecular structural characteristic and its influence on coalbed methane adsorption
FUEL Volume: 222 Pages: 687-694 Published: JUN 15 2018
23. Morga, Rafal; Pawlyta, Mirosława
Microstructure of graptolite periderm in Silurian gas shales of Northern Poland
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 189 Pages: 1-7 Published: MAR 15 2018
21. Wilkins, Ronald W. T.; Sherwood, Neil; Li, Zhongsheng
RaMM (Raman maturity method) study of samples used in an interlaboratory exercise on a standard test method for determination of vitrinite reflectance on dispersed organic matter in rocks
MARINE AND PETROLEUM GEOLOGY Volume: 91 Pages: 236-250 Published: MAR 2018
20. Xu, Jun; Tang, Hao; Su, Sheng; et al.
A study of the relationships between coal structures and combustion characteristics: The insights from micro-Raman spectroscopy based on 32 kinds of Chinese coals
APPLIED ENERGY Volume: 212 Pages: 46-56 Published: FEB 15 2018
19. Wang, Qi; Zhang, Jianliang; Wang, Guangwei; et al.
Thermal and Kinetic Analysis of Coal with Different Waste Plastics (PVC) in Cocombustion
ENERGY & FUELS Volume: 32 Issue: 2 Pages: 2145-2155 Published: FEB 2018
18. Lima, Demetrius W.; Fiegenbaum, Fernanda; Trombetta, Fernanda; et al.
Influence of graphitic materials microstructure in the hydrogen evolution in aqueous solution of tetra-alkylammonium-sulfonic acid ionic liquid
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 43 Issue: 3 Pages: 1239-1250 Published: JAN 18 2018
17. Khatibi, Seyedalireza; Ostadhassan, Mehdi; Tuschel, David; et al.
Raman spectroscopy to study thermal maturity and elastic modulus of kerogen
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 185 Pages: 103-118 Published: JAN 2 2018
16. Luensdorf, N. Keno; Dunkl, Istvan; Schmidt, Burkhard C.; et al.
Towards a Higher Comparability of Geothermometric Data Obtained by Raman Spectroscopy of Carbonaceous Material. Part 2: A Revised Geothermometer
GEOSTANDARDS AND GEOANALYTICAL RESEARCH Volume: 41 Issue: 4 Pages: 593-612 Published: DEC 2017
15. Wu, Dun; Chen, Binyu; Sun, Ruoyu; et al.
Thermal behavior and Raman spectral characteristics of step-heating perhydrous coal: Implications for thermal maturity process
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS Volume: 128 Pages: 143-155 Published: NOV 2017
14. Lupoi, Jason S.; Fritz, Luke P.; Parris, Thomas M.; et al.
Assessment of Thermal Maturity Trends in Devonian-Mississippian Source Rocks Using Raman Spectroscopy: Limitations of Peak-Fitting Method
FRONTIERS IN ENERGY RESEARCH Volume: 5 Article Number: UNSP 24 Published: SEP 27 2017
13. Xu, Jun; Tang, Hao; Su, Sheng; et al.
Micro-Raman Spectroscopy Study of 32 Kinds of Chinese Coals: Second-Order Raman Spectrum and Its Correlations with Coal Properties
ENERGY & FUELS Volume: 31 Issue: 8 Pages: 7884-7893 Published: AUG 2017
12. Schito, Andrea; Romano, Claudia; Corrado, Sveva; et al.
Diagenetic thermal evolution of organic matter by Raman spectroscopy
ORGANIC GEOCHEMISTRY Volume: 106 Pages: 57-67 Published: APR 2017
11. Schito, A.; Corrado, S.; Trolese, M.; et al.
Assessment of thermal evolution of Paleozoic successions of the Holy Cross Mountains (Poland)
MARINE AND PETROLEUM GEOLOGY Volume: 80 Pages: 112-132 Published: FEB 2017
10. Pan, Jienan; Lv, Minmin; Bai, Heling; et al.
Effects of Metamorphism and Deformation on the Coal Macromolecular Structure by Laser Raman Spectroscopy
ENERGY & FUELS Volume: 31 Issue: 2 Pages: 1136-1146 Published: FEB 2017
9. Jiang, Jingyu; Wu, Dun; Mou, Junhui; et al.
Macromolecular structure evolution and its significance for perhydrous coal under drying and pyrolysis conditions
DRYING TECHNOLOGY Volume: 35 Issue: 11 Special Issue: SI Pages: 1398-1411 Published: 2017

8. Botor, Dariusz; Tobola, Tomasz; Jelonek, Iwona
THERMAL HISTORY OF THE LOWER CARBONIFEROUS CULM BASIN IN THE NIZKY JESENÍK MTS. (NE BOHEMIAN MASSIF, CZECH REPUBLIC AND POLAND)
ANNALES SOCIÉTATIS GEOLOGORUM POLONIAE Volume: 87 Issue: 1 Pages: 13-40 Published: 2017
 7. Xie, Ying-Fang; You, Jing-Lin; Lu, Li-Ming
In-Situ Temperature Dependent Raman Spectra of Coal
PROCEEDINGS OF THE 3RD INTERNATIONAL CONFERENCE ON MATERIAL ENGINEERING AND APPLICATION (ICMEA 2016) Book Series: AER-Advances in Engineering Research Volume: 103 Pages: 303-309 Published: 2016
 6. Li, X., Zeng, F.-G., Wang, W., Dong, K.
Raman characterization of structural evolution in the low-middle rank coals
Meitan Xuebao/Journal of the China Coal Society 41(9), 2298-2304 DOI: 10.13225/j.cnki.jccs.2016.0053 (2016)
 5. Schmidt Mumm, A., Inan, S.
Microscale organic maturity determination of graptolites using Raman spectroscopy
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 162 Pages: 96-107 DOI: 10.1016/j.coal.2016.05.002 Published: MAY 15 2016
 4. Lunsdorf, NK, Lunsdorf, JO
Evaluating Raman spectra of carbonaceous matter by automated, iterative curve-fitting
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 160 Pages: 51-62 DOI: 10.1016/j.coal.2016.04.008 Published: APR 15 2016
 3. Rantitsch, G., Lämmerer, W., Fisslthaler, E., Mitsche, S., Kaltenböck, H.
On the discrimination of semi-graphite and graphite by Raman spectroscopy
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 159 Pages: 48-56 DOI: 10.1016/j.coal.2016.04.001 Published: APR 1 2016
 2. Inan, S., Goodarzi, F., Schmidt Mumm, A., Aroui, K., Qathami, S., Ardakani, O.H., Inan, T., Tuwailib, A.A.
The Silurian Qusaiba Hot Shales of Saudi Arabia: An integrated assessment of thermal maturity
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 159 Pages: 107-119 DOI: 10.1016/j.coal.2016.04.004 Published: APR 1 2016
 1. Lunsdorf, N.K.
Raman spectroscopy of dispersed vitrinite - Methodical aspects and correlation with reflectance
INTERNATIONAL JOURNAL OF COAL GEOLOGY Volume: 153 Pages: 75-86 DOI: 10.1016/j.coal.2015.11.010 Published: JAN 1 2016
92. *“Two dimensional polymerization of graphene oxide: Bottom-up approach”*
Victor Atanasov, Stoyan Russev, Lyudmil Lyutov, Yulian Zagariarsky, Iglia Dimitrova, Georgy Avdeev, Ivalina Avramova, Evgenia Vulcheva, Kiril Kirilov, Atanas Tzonev, Miroslav Abrashev, and Gichka Tsutsumanova
Materials Chemistry and Physics **163**, 172-181 (2015) (10 pages)
1. A novel composite based on pyrene thiazole grafted on graphene oxide: physico-chemical characterization and electrochemical investigations
Tudose, Madalina; Baratoiu-Carpen, Rodica D.; Anghel, Elena Maria; et al.
MATERIALS CHEMISTRY AND PHYSICS Volume: 262 Article Number: 124315 Published: APR 1 2021
93. *“On the plasma-based growth of 'flowing' graphene sheets at atmospheric pressure conditions”*
Tsyganov, D., Bundaleska, N., Tatarova, E., Dias, A., Henriques, J., Rego, A., Ferraria, A., Abrashev, M.V., Dias, F.M., Luhrs, C.C., Phillips, J.
Plasma Sources Sci. Technol. **25**, 015013 (2016) (22 pages) DOI: 10.1088/0963-0252/25/1/015013
24. Large-scale in-situ synthesis of nitrogen-doped graphene using magnetically rotating arc plasma
Song, M., Wang, C., Chen, X., Ma, J., Xia, W.
Diamond and Related Materials 116,108417 (2021)
 23. Controlled high temperature stability of microwave plasma synthesized graphene nanosheets
Jasek, Ondrej; Toman, Jozef; Vsiansky, Dalibor; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 54 Issue: 16 Article Number: 165201 Published: APR 22 2021
 22. Optimizing high-quality graphene nanoflakes production through organic (bio)-precursor plasma decomposition
Casanova, A.; Rincon, R.; Munoz, J.; et al.
FUEL PROCESSING TECHNOLOGY Volume: 212 Article Number: 106630 Published: FEB 2021
 21. The role of microwave plasma temperature during graphene nanosheets deposition on dielectric substrate: Modelling and experiment
Kubečka, M., Toman, J., Šnír, M., (...), Kudrle, V., Jurmanová, J.
NANOCON Conference Proceedings - International Conference on Nanomaterials 2020-October, pp. 80-84 (2020)

20. Effect of charging solid particles on their growth process and parameters of microwave discharge in liquid n-heptane
Lebedev, Yu A.; Tatarinov, A., V; Epstein, I. L.
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 6 Article Number: 065013 Published: JUN 2020
19. Effect of Plasma Ignition on the Growth Temperature Decrease of Single-Walled Carbon Nanotubes in a Plasma-Coupled Hybrid Chemical-Vapor-Deposition System
Jo, Sung-Il; Lee, Byeong-Joo; Jeong, Goo-Hwan
JOURNAL OF THE KOREAN PHYSICAL SOCIETY Volume: 76 Issue: 12 Pages: 1110-1115 Published: JUN 2020
18. Study of graphene layer growth on dielectric substrate in microwave plasma torch at atmospheric pressure
Jasek, Ondrej; Toman, Jozef; Jurmanova, Jana; et al.
DIAMOND AND RELATED MATERIALS Volume: 105 Article Number: 107798 Published: MAY 2020
17. Simulation of Microwave Discharge in Liquid n-Heptane in the Presence of Argon in the Discharge Region
Lebedev, Yu A.; Tatarinov, A., V; Epstein, I. L.
HIGH ENERGY CHEMISTRY Volume: 54 Issue: 3 Pages: 217-226 Published: MAY 2020
16. Distinctive Features of Graphene Synthesized in a Plasma Jet Created by a DC Plasma Torch
Shavelkina, Marina; Ivanov, Peter; Bocharov, Aleksey; et al.
MATERIALS Volume: 13 Issue: 7 Article Number: 1728 Published: APR 2020
15. Influence of molecular admixtures on filamentation in microwave plasma torch
Snirer, M., Kudrle, V., Toman, J., (...), Faltýnek, J., Jurmanová, J.
46th EPS Conference on Plasma Physics, EPS 2019 (2019)
14. On the interplay between plasma discharge instability and formation of free-standing graphene nanosheets in a dual-channel microwave plasma torch at atmospheric pressure
Toman, Jozef; Jasek, Ondrej; Snirer, Miroslav; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 26 Article Number: 265205 Published: JUN 26 2019
13. Graphene synthesis by microwave plasma chemical vapor deposition: analysis of the emission spectra and modeling
Pashova, K.; Hinkov, I; Aubert, X.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 28 Issue: 4 Article Number: 045001 Published: APR 2019
12. Modeling of plasma-enhanced chemical vapor deposition growth of graphene on cobalt substrates
Hinkov, Ivaylo; Pashova, Katya; Farhat, Samir
DIAMOND AND RELATED MATERIALS Volume: 93 Pages: 84-95 Published: MAR 2019
11. Direct synthesis of hydrogenated graphene via hydrocarbon decomposition in plasmas
Shavelkina, M. B.; Amirov, R. H.
NANOSYSTEMS-PHYSICS CHEMISTRY MATHEMATICS Volume: 10 Issue: 1 Pages: 102-106 Published: FEB 2019
10. Graphene synthesized in atmospheric plasmas-A review
Dato, Albert
JOURNAL OF MATERIALS RESEARCH Volume: 34 Issue: 1 Special Issue: SI Pages: 214-230 Published: JAN 14 2019
9. GRAPHENE NANOSHEETS SYNTHESIZED IN MICROWAVE PLASMA AND LIQUID EXFOLIATED GRAPHENE: STRUCTURAL CHARACTERIZATION STUDY
Jurmanova, Jana; Jasek, Ondrej; Toman, Jozef; et al.
10TH ANNIVERSARY INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION (NANOCON 2018 (R)) Pages: 63-68 Published: 2019
8. Plasma diagnostics during microwave plasma synthesis of graphene nanosheets
Snirer, M., Toman, J., Kudrle, V., (...), Faltýnek, J., Jurmanov, J.
45th EPS Conference on Plasma Physics, EPS 2018 2018-July, pp. 537-540 (2018)
7. Methane/nitrogen plasma-assisted synthesis of graphene and carbon nanotubes
Shavelkina, M. B.; Filimonova, E. A.; Amirov, R. Kh; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 51 Issue: 29 Article Number: 294005 Published: JUL 25 2018
6. ELECTROCHEMICAL PROPERTIES OF GRAPHENE NANOSHEETS SYNTHESISED IN MICROWAVE PLASMA TORCH DISCHARGE
Toman, Jozef; Jasek, Ondrej; Prasek, Jan; et al.
9TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION (NANOCON 2017) Pages: 88-93 Published: 2018
5. Averin, Konstantin A.; Lebedev, Yuri A.; Shchegolikhin, Alexander N.; et al.
Nanosize carbon products formed in microwave discharge in liquid alkanes
PLASMA PROCESSES AND POLYMERS Volume: 14 Issue: 9 Article Number: e1600227 Published: SEP 2017
4. THE INFLUENCE OF GAS ADMIXTURES ON THE SYNTHESIS OF GRAPHENE NANOSHEETS IN ARGON MICROWAVE PLASMA TORCH DISCHARGE
Toman, Jozef; Jasek, Ondrej; Jurmanova, Jana
8TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION (NANOCON 2016) Pages: 122-126 Published: 2017

3. Park, CS (Park, Choon-Sang); Kim, DH (Kim, Dong Ha); Shin, BJ (Shin, Bhum Jae); Kim, DY (Kim, Do Yeob); Lee, HK (Lee, Hyung-Kun); Tae, HS (Tae, Heung-Sik)

Conductive Polymer Synthesis with Single-Crystallinity via a Novel Plasma Polymerization Technique for Gas Sensor Applications
MATERIALS Volume: 9 Issue: 10 Article Number: 812 DOI: 10.3390/ma9100812 Published: OCT 2016

2. Arias-Monje, Pedro J.; Menon, Sarath K.; Zea, Hugo; et al.

Nitrogen Doped Graphene Generated by Microwave Plasma and Reduction Expansion Synthesis

NANOSCIENCE AND NANOTECHNOLOGY LETTERS Volume: 8 Issue: 2 Pages: 120-128 Published: FEB 2016

1. Park, C.-S., Kim, D.H., Shin, B.J., Kim, D.Y., Lee, H.-K., Tae, H.-S.

Synthesis and Characterization of Nanofibrous Polyaniline Thin Film Prepared by Novel Atmospheric Pressure Plasma Polymerization Technique

MATERIALS Volume: 9 Issue: 1 Article Number: 39 DOI: 10.3390/ma9010039 Published: JAN 2016

94. “Vibrational spectroscopy of Ga⁺ ion implanted ta-C films”

Berova, M., Sandulov, M., Tsvetkova, T., Bischoff, L., Boettger, R., Abrashev, M.

Journal of Physics: Conference Series **682**, 012020 (2016) (6 pages) DOI: 10.1088/1742-6596/682/1/012020

95. “Phase composition identification and microstructure of BaTiO₃-containing sodium-aluminoborosilicate glass-ceramics”

Harizanova, R., Abrashev, M., Avramova, I., Vladislavova, L., Bocker, C., Tsutsumanova, G., Avdeev, G., Rüssel, C.

Solid State Sciences **52**, 49-56 (2016) DOI: 10.1016/j.solidstatesciences.2015.12.007

2. Rapid removal of ammonia nitrogen in low-concentration from wastewater by amorphous sodium titanate nano-particles

Zhang, Wenlong; Fu, Rao; Wang, Li; et al.

SCIENCE OF THE TOTAL ENVIRONMENT Volume: 668 Pages: 815-824 Published: JUN 10 2019

1. Gamma Irradiation and Heat Treatment Effects on Barium Borosilicate Glasses Doped Titanium Oxide

El-Alaily, N. A.; Abou Hussein, E. M.; Eldin, F. M. Ezz

JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS Volume: 28 Issue: 6 Pages: 2662-2676 Published: NOV 2018

96. “Production of N-graphene by microwave N₂-Ar plasma”

Dias, A., Bundaleski, N., Tatarova, E., Dias, F.M., Abrashev, M., Cvelbar, U., Teodoro, O.M.N.D., Henriques, J.

Journal of Physics D – Applied Physics **49**(5), 055307 (2016) DOI: 10.1088/0022-3727/49/5/055307

14. Calculation of two-temperature thermodynamic and transport properties of argon-nitrogen plasma

Pan Zi-Han; Chen Xian-Hui; Wang Cheng; et al.

ACTA PHYSICA SINICA Volume: 70 Issue: 8 Article Number: 085201 Published: APR 20 2021

13. One-Step Plasma Synthesis of Nitrogen-Doped Carbon Nanomesh

Vesel, Alenka; Zaplotnik, Rok; Primc, Gregor; et al.

NANOMATERIALS Volume: 11 Issue: 4 Article Number: 837 Published: APR 2021

12. Incorporation-limiting mechanisms during nitrogenation of monolayer graphene films in nitrogen flowing afterglows

Robert Bigras, G.; Martel, R.; Stafford, L.

NANOSCALE Volume: 13 Issue: 5 Pages: 2891-2901 Published: FEB 7 2021

11. Scalable and fast fabrication of holey multilayer graphene via microwave and its application in supercapacitors

Bai, Yuge; Yin, Yuting; Xuan, Yingying; et al.

NANOTECHNOLOGY Volume: 32 Issue: 4 Article Number: 045602 Published: JAN 22 2021

10. Active-screen plasma multi-functionalization of graphene oxide for supercapacitor application

Jing, Zhiyuan; Qi, Shaojun; Tao, Xiao; et al.

JOURNAL OF MATERIALS SCIENCE Volume: 56 Issue: 4 Pages: 3296-3311 Published: FEB 2021

9. A Review of Strategies for the Synthesis of N-Doped Graphene-Like Materials

Vesel, Alenka; Zaplotnik, Rok; Primc, Gregor; et al.

NANOMATERIALS Volume: 10 Issue: 11 Article Number: 2286 Published: NOV 2020

8. Nitrogen functionalization of MWCNTs in Ar-N₂ dielectric barrier discharge - Gas ratio effect

Abdel-Fattah, E.; Ogawa, D.; Nakamura, K.

MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS Volume: 261 Article Number: 114680 Published: NOV 2020

7. Synthesis of plasma treated nitrogen-doped graphite oxide for supercapacitor applications

Ghanashyam, Gyawali; Jeong, Hae Kyung
JOURNAL OF ENERGY STORAGE Volume: 26 Article Number: 100923 Published: DEC 2019

6. One-step growth of reduced graphene oxide on arbitrary substrates
Chen, Mingguang; Yengel, Emre; Zhang, Junwei; et al.
CARBON Volume: 144 Pages: 457-463 Published: APR 2019

5. Graphene synthesized in atmospheric plasmas-A review
Dato, Albert
JOURNAL OF MATERIALS RESEARCH Volume: 34 Issue: 1 Special Issue: SI Pages: 214-230 Published: JAN 14 2019

4. Treatment of graphene films in the early and late afterglows of N-2 plasmas: comparison of the defect generation and N-incorporation dynamics

Bigras, Germain Robert; Glad, Xavier; Martel, Richard; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 27 Issue: 12 Article Number: 124004 Published: DEC 2018

3. Oriented Carbon Nanostructures by Plasma Processing: Recent Advances and Future Challenges
Santhosh, Neelakandan M.; Filipic, Gregor; Tatarova, Elena; et al.
MICROMACHINES Volume: 9 Issue: 11 Article Number: 565 Published: NOV 2018

2. Bjelajac, Andjelika; Djokic, Veljko; Petrovic, Rada; et al.
Absorption boost of TiO₂ nanotubes by doping with N and sensitization with CdS quantum dots
CERAMICS INTERNATIONAL Volume: 43 Issue: 17 Pages: 15040-15046 Published: DEC 1 2017

1. Georgieva, Violeta; Berthelot, Antonin; Silva, Tiago; et al.
Understanding Microwave Surface-Wave Sustained Plasmas at Intermediate Pressure by 2D Modeling and Experiments
PLASMA PROCESSES AND POLYMERS Volume: 14 Issue: 4-5 Special Issue: SI Article Number: 1600185 Published: APR 2017

97. *“Estimation of the oxygen content of $RBa_2Cu_3O_y$ ($R = Er, Y, Eu, Dy$) superconducting samples by spectrophotometry and Raman spectroscopy: a comparison between chemical and physical methods for oxygen determination”*

Stela Georgieva, Angelina Stoyanova-Ivanova and Miroslav Abrashev
Mediterranean Journal of Physics **1**(1), 16-21 (2016)

98. *“Biogenic nanosized iron oxides obtained from cultivation of iron bacteria from the genus Leptothrix”*

Nedkov, I., Slavov, L., Angelova, R., Blagoev, B., Kovacheva, D., Abrashev, M.V., Iliev, M., Groudeva, V.

Journal of Biological Physics **42**(4), 587-600 (2016) DOI: 10.1007/s10867-016-9426-3

3. Preparation and Characterization of Additional Metallic Element-Containing Tubular Iron Oxides of Bacterial Origin
Tamura, Katsunori; Kunoh, Tatsuki; Nakanishi, Makoto; et al.
ACS OMEGA Volume: 5 Issue: 42 Pages: 27287-27294 Published: OCT 27 2020

2. High-Quality Inorganic Red Pigment Prepared by Aluminum Deposition on Biogenous Iron Oxide Sheaths
Tamura, Katsunori; Kunoh, Tatsuki; Nagaoka, Noriyuki; et al.
ACS APPLIED BIO MATERIALS Volume: 3 Issue: 9 Pages: 5699-5707 Published: SEP 21 2020

1. Characterization of iron oxide nanoparticle films at the air-water interface in Arctic tundra waters
Jubb, Aaron M.; Eskelsen, Jeremy R.; Yin, Xiangping; et al.
SCIENCE OF THE TOTAL ENVIRONMENT Volume: 633 Pages: 1460-1468 Published: AUG 15 2018

99. *“Optical, structural and electrochromic properties of sputter-deposited W-Mo oxide thin films”*

K. Gesheva, M. A. Arvizu, G. Bodurov, T. Ivanova, G. A. Niklasson, M. Iliev, T. Vlachov, P. Terzijska, G. Popkirov, M. Abrashev, S. Boyadjiev, G. Jágerszki, I. M. Szilágyi, and Y. Marinov
Journal of Physics: Conference Series **764**, 012010 (2016) DOI:10.1088/1742-6596/764/1/012010

3. Mesoporous Molybdenum-Tungsten Mixed Metal Oxide: A Solid Acid Catalyst for Green, Highly Efficient sp³-sp² C-C Coupling Reactions

Thalgaspitiya, W.R.K., Kapuge, T.K., He, J., (...), Kerns, P., Suib, S.L.
ACS Applied Materials and Interfaces **12**(5), pp. 5990-5998 (2020)

2. The Single Cells and Cell Populations Viability Estimation in vitro by the Time-Domain Impedance Spectroscopy
Stupin, D. D.
TECHNICAL PHYSICS Volume: 63 Issue: 9 Pages: 1384-1389 Published: SEP 2018

1. Khan, G. R.; Ahmad, Bilal
Effect of quantum confinement on thermoelectric properties of vanadium dioxide nanofilms
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 123 Issue: 12 Article Number: 795 Published: DEC 2017

100. “Towards large-scale in freestanding graphene and N-graphene sheets”
E. Tatarova, A. Dias, J. Henriques, M. Abrashev, N. Bundaleska, E. Kovacevic, N. Bundaleski, U. Cvelbar, E. Valcheva, B. Arnaudov, A. M. Botelho do Rego, A. M. Ferraria, J. Berndt, E. Felizardo, O. M. N. D. Teodoro, Th. Strunskus, L. L. Alves, and B. Gonçalves
Scientific Reports 7, 10175 (2017) DOI: 10.1038/s41598-017-10810-3
28. Deactivation study of the BICOVOX catalysts used in low temperature steam reforming of ethanol for H₂ production
Sharma, S., Yashwanth, P.K., Roy, B.
Journal of Physics and Chemistry of Solids 156,110138 (2021)
27. Advances of microwave plasma-enhanced chemical vapor deposition in fabrication of carbon nanotubes: a review
Liu, Yanjing; He, Jiawei; Zhang, Nan; et al.
JOURNAL OF MATERIALS SCIENCE Volume: 56 Issue: 22 Pages: 12559-12583 Published: AUG 2021
26. Engineering tunable conductivity, p-n junction and light-harvesting semi-conductivity of graphene oxide by fixing reduction mood only
Karim, Mohammad Razaul; Uddin, Md. Nizam; Shaikh, Md. Aslam; et al.
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS Volume: 120 Pages: 325-335 Published: MAR 2021
25. A critical review on the production and application of graphene and graphene-based materials in anti-corrosion coatings
Kulyk, Bohdan; Freitas, Maria A.; Santos, Nuno F.; et al.
CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES Early Access: FEB 2021
24. Optimizing high-quality graphene nanoflakes production through organic (bio)-precursor plasma decomposition
Casanova, A.; Rincon, R.; Munoz, J.; et al.
FUEL PROCESSING TECHNOLOGY Volume: 212 Article Number: 106630 Published: FEB 2021
23. Pure electric and magnetic fields applied to reduced graphene oxide for defect repair and oxygen removal
Miyata, Takeshi; Gohda, Syun; Fujii, Takashi; et al.
CARBON Volume: 171 Pages: 10-15 Published: JAN 2021
22. Low temperature steam reforming of ethanol over cobalt doped bismuth vanadate [Bi-4(V_{0.90}Co_{0.10})(₂O₁₁-delta (BICOVOX)] catalysts for hydrogen production
Sharma, Shweta; Aich, Shampa; Roy, Banasri
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 148 Article Number: 109754 Published: JAN 2021
21. Numerical and Experimental Study of the Multichannel Nature of the Synthesis of Carbon Nanostructures in DC Plasma Jets
Shavelkina, M. B.; Ivanov, P. P.; Bocharov, A. N.; et al.
PLASMA CHEMISTRY AND PLASMA PROCESSING Volume: 41 Issue: 1 Pages: 171-189 Published: JAN 2021
20. A Review of Strategies for the Synthesis of N-Doped Graphene-Like Materials
Vesel, Alenka; Zaplotnik, Rok; Primc, Gregor; et al.
NANOMATERIALS Volume: 10 Issue: 11 Article Number: 2286 Published: NOV 2020
19. Self-sustained solid -state exothermic reaction for scalable graphene production
Yang, Min; Liu, Jinxi; Li, Shukui; et al.
MATERIALS & DESIGN Volume: 196 Article Number: 109135 Published: NOV 2020
18. Low-temperature low-power PECVD synthesis of vertically aligned graphene
Hussain, Shahzad; Kovacevic, Eva; Berndt, Johannes; et al.
NANOTECHNOLOGY Volume: 31 Issue: 39 Article Number: 395604 Published: SEP 25 2020
17. Effect of BN dimers on the stability, electronic, and thermal properties of monolayer graphene
Abdullah, Nzar Rauf; Abdalla, Danyal A.; Ahmed, Taha Y.; et al.
RESULTS IN PHYSICS Volume: 18 Article Number: 103282 Published: SEP 2020
16. Effect of preparation on opto-electrical properties of CdS /N, S-rGO photocatalyst for splitting of water by visible light
Alam, Zahoor; Verma, Bhawna; Sinha, A. S. K.
MATERIALS CHEMISTRY AND PHYSICS Volume: 249 Article Number: 123212 Published: JUL 15 2020
15. Bifunctional electron conductive solid electrolyte and dye degrading photocatalyst from rGO-aminoalkane non-metallic origin
Karim, Mohammad Razaul; Rahman, Mohammed M.; Asiri, Abdullah M.
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS Volume: 112 Pages: 87-96 Published: JUL 2020
14. Synthesis of a zinc oxide/graphene hybrid material by the direct thermal decomposition of oxalate
Little, Daniel J.; Pfund, Jacob D.; McLain, Avery A.; et al.
MATERIALS RESEARCH EXPRESS Volume: 7 Issue: 6 Article Number: 065005 Published: JUN 2020
13. Branched Alkylamine-Reduced Graphene Oxide Hybrids as a Dual Proton-Electron Conductor and Organic-Only Water-Splitting Photocatalyst
Karim, Mohammad Razaul; Rahman, Mohammed M.; Asiri, Abdullah M.; et al.
ACS APPLIED MATERIALS & INTERFACES Volume: 12 Issue: 9 Pages: 10829-10838 Published: MAR 4 2020
12. Design of a 1D/2D C₃N₄/rGO composite as an anode material for stable and effective potassium storage

- Adekoya, David; Li, Meng; Hankel, Marlies; et al.
ENERGY STORAGE MATERIALS Volume: 25 Pages: 495-501 Published: MAR 2020
11. N-Graphene Nanowalls via Plasma Nitrogen Incorporation and Substitution: The Experimental Evidence
Santhosh, Neelakandan M.; Filipic, Gregor; Kovacevic, Eva; et al.
NANO-MICRO LETTERS Volume: 12 Issue: 1 Article Number: 53 Published: FEB 17 2020
10. Effective PEGylation method to improve biocompatibility of graphene derivatives
Demirel, Erhan; Karaca, Ezgi; Durmaz, Yasemin Yuksel
EUROPEAN POLYMER JOURNAL Volume: 124 Article Number: 109504 Published: FEB 5 2020
9. Effect of helium/propane-butane atmosphere on the synthesis of graphene in plasma jet system
Shavelkina, M. B.; Filimonova, E. A.; Amirov, R. Kh
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 2 Article Number: 025024 Published: FEB 2020
8. Deposition of vertical carbon nanosheets by MPECVD at atmospheric pressure
Marinov, S.; Vachkov, V.; Kiss'ovski, Zh
Journal of Physics Conference Series Volume: 1492 Article Number: 012032 Published: 2020
7. On the interplay between plasma discharge instability and formation of free-standing graphene nanosheets in a dual-channel microwave plasma torch at atmospheric pressure
Toman, Jozef; Jasek, Ondrej; Snirer, Miroslav; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 26 Article Number: 265205 Published: JUN 26 2019
6. Understanding the structural and chemical changes in vertical graphene nanowalls upon plasma nitrogen ion implantation
Manojkumar, P. A.; Krishna, Nanda Gopala; Mangamma, G.; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 21 Issue: 20 Pages: 10773-10783 Published: MAY 28 2019
5. Kinetic study of Z-scheme C₃N₄/CuWO₄ photocatalyst towards solar light inactivation of mixed populated bacteria
Gupta, Rimzhim; Boruah, Bhanupriya; Modak, Jayant M.; et al.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY Volume: 372 Pages: 108-121 Published: MAR 1 2019
4. Collagen functionalized graphene sheets decorated with in situ synthesized nano hydroxyapatite electrospun into fibers
Yadav, Balram Singh; Sahu, Ranjan Kumar; Pramanick, Ashit Kumar; et al.
MATERIALS TODAY COMMUNICATIONS Volume: 18 Pages: 167-175 Published: MAR 2019
3. Graphene synthesized in atmospheric plasmas-A review
Dato, Albert
JOURNAL OF MATERIALS RESEARCH Volume: 34 Issue: 1 Special Issue: SI Pages: 214-230 Published: JAN 14 2019
2. Oriented Carbon Nanostructures by Plasma Processing: Recent Advances and Future Challenges
Santhosh, Neelakandan M.; Filipic, Gregor; Tatarova, Elena; et al.
MICROMACHINES Volume: 9 Issue: 11 Article Number: 565 Published: NOV 2018
1. From nanometre to millimetre: a range of capabilities for plasma-enabled surface functionalization and nanostructuring
Baranov, O.; Levchenko, I.; Bell, J. M.; et al.
MATERIALS HORIZONS Volume: 5 Issue: 5 Published: SEP 1 2018
101. *“Microwave plasma enabled synthesis of free standing carbon nanostructures at atmospheric pressure conditions”*
N. Bundaleska, D. Tsyganov, A. Dias, E. Felizardo, J. Henriques, F. M. Dias, M. Abrashev, J. Kissovski and E. Tatarova
Phys.Chem.Chem.Phys. **20**, 13810 (2018) DOI: 10.1039/c8cp01896k IF = 4.123
22. Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing
Wang, Z., Yu, C., Huang, H., (...), Yu, J., Qiu, J.
Nano Energy 85, 106027 (2021)
21. Experiments and modeling of atmospheric pressure microwave plasma reforming of a methane-carbon dioxide mixture
Sun, Hojoong; Lee, Jungwun; Bak, Moon Soo
JOURNAL OF CO₂ UTILIZATION Volume: 46 Article Number: 101464 Published: APR 2021
20. Influence of hydrogen addition on methane coupling in a moderate pressure microwave plasma
Wnukowski, M.; van de Steeg, A. W.; Hrycak, B.; et al.
FUEL Volume: 288 Article Number: 119674 Published: MAR 15 2021
19. Experiments on Atmospheric Pressure Microwave Plasmas Produced in a He/CH₄ Mixture
Heo, Seonil; Sun, Hojoong; Lee, Jungwun; et al.
TRANSACTIONS OF THE KOREAN SOCIETY OF MECHANICAL ENGINEERS B Volume: 45 Issue: 3 Pages: 173-179 Published: MAR 2021
18. Pressure-dependent synthesis of graphene nanoflakes using Ar/H₂/CH₄ non-thermal plasma based on rotating arc discharge
Wang, Cheng; Lu, ZhongShan; Ma, Jing; et al.

- DIAMOND AND RELATED MATERIALS Volume: 111 Article Number: 108176 Published: JAN 2021
17. Advance in Using Plasma Technology for Modification or Fabrication of Carbon-Based Materials and Their Applications in Environmental, Material, and Energy Fields
Sun, Xin; Bao, Jiacheng; Li, Kai; et al.
ADVANCED FUNCTIONAL MATERIALS Volume: 31 Issue: 7 Article Number: 2006287 Published: FEB 2021
 16. Numerical and Experimental Study of the Multichannel Nature of the Synthesis of Carbon Nanostructures in DC Plasma Jets
Shavelkina, M. B.; Ivanov, P. P.; Bocharov, A. N.; et al.
PLASMA CHEMISTRY AND PLASMA PROCESSING Volume: 41 Issue: 1 Pages: 171-189 Published: JAN 2021
 15. The role of microwave plasma temperature during graphene nanosheets deposition on dielectric substrate: Modelling and experiment
Kubečka, M., Toman, J., Šnirer, M., (...), Kudrle, V., Jurmanová, J.
NANOCON Conference Proceedings - International Conference on Nanomaterials 2020-October, pp. 80-84 (2020)
 14. Synthesis of carbon nanoparticles in a non-thermal plasma process
Wang, Cheng; Li, Dongning; Lu, Zhongshan; et al.
CHEMICAL ENGINEERING SCIENCE Volume: 227 Article Number: 115921 Published: DEC 14 2020
 13. Microwave Plasma Formation of Nanographene and Graphitic Carbon Black
Kumal, Raju R.; Gharpure, Akshay; Viswanathan, Vignesh; et al.
C-JOURNAL OF CARBON RESEARCH Volume: 6 Issue: 4 Article Number: 70 Published: DEC 2020
 12. Progress in waste utilization via thermal plasma
Sikarwar, Vineet Singh; Hrabovsky, Milan; Van Oost, Guido; et al.
PROGRESS IN ENERGY AND COMBUSTION SCIENCE Volume: 81 Article Number: 100873 Published: NOV 2020
 11. Characterization of few-layer graphene aerosols by laser-induced incandescence
Musikhin, Stanislav; Fortugno, Paolo; Corbin, Joel C.; et al.
CARBON Volume: 167 Pages: 870-880 Published: OCT 15 2020
 10. Performance analysis of a 2.45 GHz microwave plasma torch for CO(2)decomposition in gas swirl configuration
D'Isa, F. A.; Carbone, E. A. D.; Hecimovic, A.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 10 Article Number: 105009 Published: OCT 2020
 9. Synthesis of few-layer graphene flakes by magnetically rotating arc plasma: effects of input power and feedstock injection position
Wang, Cheng; Song, Ming; Chen, Xianhui; et al.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 126 Issue: 3 Published: FEB 19 2020
 8. Effects of Buffer Gases on Graphene Flakes Synthesis in Thermal Plasma Process at Atmospheric Pressure
Wang, Cheng; Song, Ming; Chen, Xianhui; et al.
NANOMATERIALS Volume: 10 Issue: 2 Article Number: 309 Published: FEB 2020
 7. One-step Synthesis of Carbon Nanotubes Network with Rich Oxygenated Functional Groups via Microwave Plasma in Atmospheric Pressure
Li, Dashuai; Tong, Ling; Gao, Bo
MRS ADVANCES Volume: 5 Issue: 52-53 Special Issue: SI Pages: 2679-2684 Article Number: PII S2059852120002157 Published: 2020
 6. Influence of N-2, O-2, and H-2 admixtures on the electron power balance and neutral gas heating in microwave Ar plasmas at atmospheric pressure
Durocher-Jean, Antoine; Delnour, Nicolas; Stafford, Luc
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 47 Article Number: 475201 Published: NOV 20 2019
 5. Conversion of coalbed methane surrogate into hydrogen and graphene sheets using rotating gliding arc plasma
Wu, Angjian; Chen, Hang; Zheng, Jiageng; et al.
PLASMA SCIENCE & TECHNOLOGY Volume: 21 Issue: 11 Article Number: 115501 Published: NOV 2019
 4. On the interplay between plasma discharge instability and formation of free-standing graphene nanosheets in a dual-channel microwave plasma torch at atmospheric pressure
Toman, Jozef; Jasek, Ondrej; Snirer, Miroslav; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 26 Article Number: 265205 Published: JUN 26 2019
 3. Energy conversion efficiency in low- and atmospheric-pressure plasma polymerization processes with hydrocarbons
Hegemann, Dirk; Nisol, Bernard; Gaiser, Sandra; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 21 Issue: 17 Pages: 8698-8708 Published: MAY 7 2019
 2. Graphene synthesized in atmospheric plasmas-A review
Dato, Albert
JOURNAL OF MATERIALS RESEARCH Volume: 34 Issue: 1 Special Issue: SI Pages: 214-230 Published: JAN 14 2019
 1. Investigation on the growth mechanism of SiC whiskers during microwave synthesis
Song, Bozhen; Zhao, Biao; Lu, Yanfei; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 20 Issue: 40 Pages: 25799-25805 Published: OCT 28 2018

102. *“Omphacite-bearing axes from the Early Neolithic site Galabnik (Western Bulgaria): mineral identification by Raman spectroscopy”*

Aneta Bakamska, Miroslav Abrashev, Ruslan I. Kostov

Review of the Bulgarian Geological Society, vol. 79, part 1, 51–57 (2018) .

103. *“Large-scale synthesis of freestanding N-doped graphene using microwave plasma”*

N. Bundaleska, J. Henriques, M. Abrashev, A. M. Botelho do Rego, A. M. Ferraria, A. Almeida, F. M. Dias, E. Valcheva, B. Arnaudov, K. K. Upadhyay, M. F. Montemor & E. Tatarova

Scientific Reports **8**, 12595 (2018) DOI: 10.1038/s41598-018-30870-3 IF = 3.998

34. Graphene-based 3D XNOR-VRRAM with ternary precision for neuromorphic computing

Alimkhanuly, B., Sohn, J., Chang, I.-J., Lee, S.

npj 2D Materials and Applications 5(1), 55 (2021)

33. Large-scale in-situ synthesis of nitrogen-doped graphene using magnetically rotating arc plasma

Song, M., Wang, C., Chen, X., Ma, J., Xia, W.

Diamond and Related Materials 116, 108417 (2021)

32. Engineering hydrogenation active sites on graphene oxide and N-doped graphene by plasma treatment

Magureanu, Monica; Mandache, N. B.; Rizescu, C.; et al.

APPLIED CATALYSIS B-ENVIRONMENTAL Volume: 287 Article Number: 119962 Published: JUN 15 2021

31. Tunable Synthesis of Predominant Semi-Ionic and Covalent Fluorine Bonding States on a Graphene Surface

Lee, Jae-Won; Jeong, Seung-Pil; You, Nam-Ho; et al.

NANOMATERIALS Volume: 11 Issue: 4 Article Number: 942 Published: APR 2021

30. One-Step Plasma Synthesis of Nitrogen-Doped Carbon Nanomesh

Vesel, Alenka; Zaplotnik, Rok; Primc, Gregor; et al.

NANOMATERIALS Volume: 11 Issue: 4 Article Number: 837 Published: APR 2021

29. Effects of Doped N, B, P, and S Atoms on Graphene toward Oxygen Evolution Reactions

Priyadarsini, Adyasa; Mallik, Bhabani S.

ACS OMEGA Volume: 6 Issue: 8 Pages: 5368-5378 Published: MAR 2 2021

28. Hybridized Graphene for Supercapacitors: Beyond the Limitation of Pure Graphene

Zhang, Huihui; Yang, Dan; Lau, Alan; et al.

SMALL Volume: 17 Issue: 12 Article Number: 2007311 Published: MAR 2021

27. Investigation of L-Tryptophan Electrochemical Oxidation with a Graphene-Modified Electrode

Pogacean, Florina; Varodi, Codruta; Coros, Maria; et al.

BIOSENSORS-BASEL Volume: 11 Issue: 2 Article Number: 36 Published: FEB 2021

26. Assigning XPS features in B,N-doped graphene: input from ab initio quantum chemical calculations

Costa, Ramon; Morales-Garcia, Angel; Figueras, Marc; et al.

PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 23 Issue: 2 Pages: 1558-1565 Published: JAN 14 2021

25. Electrochemical exfoliation-streamline method for synthesis of nitrogen doped graphene

Olins, Roberts; Lesnienoks, Peteris; Kleperis, Janis; et al.

CHEMIIA Volume: 32 Issue: 1 Pages: 9-16 Published: 2021

24. Exploring reactivity and product formation in N(S-4) collisions with pristine and defected graphene with direct dynamics simulations

Nieman, Reed; Spezia, Riccardo; Jayee, Bhumika; et al.

JOURNAL OF CHEMICAL PHYSICS Volume: 153 Issue: 18 Article Number: 184702 Published: NOV 14 2020

23. A Review of Strategies for the Synthesis of N-Doped Graphene-Like Materials

Vesel, Alenka; Zaplotnik, Rok; Primc, Gregor; et al.

NANOMATERIALS Volume: 10 Issue: 11 Article Number: 2286 Published: NOV 2020

22. Surface coordination chemistry of graphene: Understanding the coordination of single transition metal atoms

Grasseschi, Daniel; Silva, Walner Costa; Paiva, Ronald de Souza; et al.

COORDINATION CHEMISTRY REVIEWS Volume: 422 Article Number: 213469 Published: NOV 1 2020

21. Tungsten nitride-coated graphene fibers for high-performance wearable supercapacitors

Salman, Ali; Padmajan Sasikala, Suchithra; Kim, In Ho; et al.

NANOSCALE Volume: 12 Issue: 39 Pages: 20239-20249 Published: OCT 21 2020

20. Preparation of graphene-based nanomaterials by pulsed RF discharges on liquid organic compounds

Amaro-Gahete, Juan; Mora, Manuel; Gutierrez, Pablo; et al.

JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 53 Issue: 43 Article Number: 435202 Published: OCT 21 2020

19. Perspectives on plasma-assisted synthesis of N-doped nanoparticles as nanopesticides for pest control in crops

Quoc Hue Pho; Losic, Dusan; Ostrikov, Kostya (Ken); et al.

REACTION CHEMISTRY & ENGINEERING Volume: 5 Issue: 8 Pages: 1374-1396 Published: AUG 1 2020

18. Study of graphene layer growth on dielectric substrate in microwave plasma torch at atmospheric pressure
Jasek, Ondrej; Toman, Jozef; Jurmanova, Jana; et al.
DIAMOND AND RELATED MATERIALS Volume: 105 Article Number: 107798 Published: MAY 2020
17. Composites of thiol-grafted PEDOT with N-doped graphene or graphitic carbon nitride as an electrochemical sensor for the detection of paracetamol
Yan, Yinqiang; Jamal, Ruxangul; Yu, Zongna; et al.
JOURNAL OF MATERIALS SCIENCE Volume: 55 Issue: 13 Pages: 5571-5586 Published: MAY 2020
16. Nanostructured manganese oxides electrode with ultra-long lifetime for electrochemical capacitors
Gaire, Madhu; Liang, Kun; Luo, Sijun; et al.
RSC ADVANCES Volume: 10 Issue: 28 Pages: 16817-16825 Published: APR 28 2020
15. Nitrogen-Doped Graphene: The Influence of Doping Level on the Charge-Transfer Resistance and Apparent Heterogeneous Electron Transfer Rate
Coros, Maria; Varodi, Codruta; Pogacean, Florina; et al.
SENSORS Volume: 20 Issue: 7 Article Number: 1815 Published: APR 2020
14. Plasma-assisted nitrogen fixation in nanomaterials: fabrication, characterization, and application
Lin, Liangliang; Xu, Hujun; Gao, Haiyan; et al.
JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 53 Issue: 13 Article Number: 133001 Published: MAR 25 2020
13. Thermal Conversion of Triazine-Based Covalent Organic Frameworks to Nitrogen-Doped Nanoporous Carbons and Their Capacitor Performance
Kim, Gayoung; Shiraki, Tomohiro; Fujigaya, Tsuyohiko
BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN Volume: 93 Issue: 3 Pages: 414-420 Published: MAR 2020
12. Cytotoxicity mechanisms of nitrogen-doped graphene obtained by electrochemical exfoliation of graphite rods, on human endothelial and colon cancer cells
Baldea, Ioana; Olteanu, Diana; Filip, Gabriela Adriana; et al.
CARBON Volume: 158 Pages: 267-281 Published: MAR 2020
11. Effect of helium/propane-butane atmosphere on the synthesis of graphene in plasma jet system
Shavelkina, M. B.; Filimonova, E. A.; Amirov, R. Kh
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 2 Article Number: 025024 Published: FEB 2020
10. Heteroatom doped 3D graphene aerogel supported catalysts for formic acid and methanol oxidation
Cogenli, M. Selim; Yurtcan, Ayse Bayrakceken
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 45 Issue: 1 Pages: 650-666 Published: JAN 1 2020
9. Microplasmas for Advanced Materials and Devices
Chiang, Wei-Hung; Mariotti, Davide; Sankaran, R. Mohan; et al.
ADVANCED MATERIALS Volume: 32 Issue: 18 Special Issue: SI Article Number: 1905508 Published: MAY 2020
8. Synthesis of plasma treated nitrogen-doped graphite oxide for supercapacitor applications
Ghanashyam, Gyawali; Jeong, Hae Kyung
JOURNAL OF ENERGY STORAGE Volume: 26 Article Number: 100923 Published: DEC 2019
7. Nitrogen-doped metal-free carbon catalysts for (electro)chemical CO₂ conversion and valorisation
Fernandes, Diana M.; Peixoto, Andreia F.; Freire, Cristina
DALTON TRANSACTIONS Volume: 48 Issue: 36 Pages: 13508-13528 Published: SEP 28 2019
6. Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination
Wu, Shenghao; Xiong, Guoping; Yang, Huachao; et al.
ADVANCED ENERGY MATERIALS Volume: 9 Issue: 30 Article Number: 1901286 Published: AUG 14 2019
5. Synthesis of nitrogen-doped plasma treated graphite for supercapacitor applications
Ghanashyam, Gyawali; Jeong, Hae Kyung
CHEMICAL PHYSICS LETTERS Volume: 725 Pages: 31-37 Published: JUN 16 2019
4. Correcting Flaws in the Assignment of Nitrogen Chemical Environments in N-Doped Graphene
Figueroa, Marc; Villar-Garcia, Ignacio J.; Vines, Francesc; et al.
JOURNAL OF PHYSICAL CHEMISTRY C Volume: 123 Issue: 17 Pages: 11319-11327 Published: MAY 2 2019
3. Heteroatom-doped graphene and its application as a counter electrode in dye-sensitized solar cells
Ngidi, Nonjabulo P. D.; Ollengo, Moses A.; Nyamori, Vincent O.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH Volume: 43 Issue: 5 Pages: 1702-1734 Published: APR 2019
2. Gas diffusion layers based on graphene flakes doped with nitrogen
Shavelkina, M. B.; Kleimenov, B., V.; Zhuk, A. Z.; et al.
Journal of Physics Conference Series Volume: 1281 Article Number: 012072 Published: 2019
1. Properties of Nitrogen/Silicon Doped Vertically Oriented Graphene Produced by ICP CVD Roll-to-Roll Technology
Rozel, Petr; Radziuk, Darya; Mikhnayets, Lubov; et al.
COATINGS Volume: 9 Issue: 1 Article Number: 60 Published: JAN 2019

104. *“Microwave N₂-Ar plasmas applied for N-graphene post synthesis”*

N Bundaleska, N Bundaleski, A Dias, F M Dias, M Abrashev, G Filipič, U Cvelbar, Z Rakočević, Zh Kissovski, J Henriques, and E Tatarova

Materials Research Express **5**, 095605 (2018) DOI:10.1088/2053-1591/aad7e9 IF = 1.929

5. Incorporation-limiting mechanisms during nitrogenation of monolayer graphene films in nitrogen flowing afterglows

Robert Bigras, G.; Martel, R.; Stafford, L.

NANOSCALE Volume: 13 Issue: 5 Pages: 2891-2901 Published: FEB 7 2021

4. Influence of the bonding of rebar dowel with adhesive on wood-concrete composite specimens

Molina, Julio Cesar; Barros Oliveira, Carolina Aparecida; Christoforo, Andre Luis; et al.

PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS Volume: 173 Issue: 12
Pages: 904-913 Article Number: 1900058 Published: DEC 2020

3. Testing methods for shear strength of bond line between concrete and different types of engineered wood

Fu, Qiuni; Yan, Libo; Kasal, Bohumil

INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES Volume: 102 Article Number: 102671 Published: OCT 2020

2. Study of graphene layer growth on dielectric substrate in microwave plasma torch at atmospheric pressure

Jasek, Ondrej; Toman, Jozef; Jurmanova, Jana; et al.

DIAMOND AND RELATED MATERIALS Volume: 105 Article Number: 107798 Published: MAY 2020

1. Oriented Carbon Nanostructures by Plasma Processing: Recent Advances and Future Challenges

Santhosh, Neelakandan M.; Filipic, Gregor; Tatarova, Elena; et al.

MICROMACHINES Volume: 9 Issue: 11 Article Number: 565 Published: NOV 2018

105. *“Phase composition and crystal structure determination of cobalt ferrite, modified with Ce, Nd and Dy ions by X-ray and neutron diffraction”*

M. Tsvetkov, M. Milanova, I. Ivanova, D. Neov, Z. Cherkezova-Zheleva, J. Zaharieva, and M. Abrashev

Journal of Molecular Structure **1179**, 233-241(2019) DOI: 10.1016/j.molstruc.2018.07.083 IF = 2.463

8. Cobalt ferrite nanoparticles and nanocomposites: Photocatalytic, antimicrobial activity and toxicity in water treatment

Mmelesi, Olga Kelebogile; Masunga, Ngonidzashe; Kuvarega, Alex; et al.

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING Volume: 123 Article Number: 105523 Published: MAR 1 2021

7. Mixed Mg-Co spinel ferrites: Structure, morphology, magnetic and photocatalytic properties

Dojcinovic, Milena P.; Vasiljevic, Zorka Z.; Pavlovic, Vera P.; et al.

JOURNAL OF ALLOYS AND COMPOUNDS Volume: 855 Article Number: 157429 Part: 1 Published: FEB 25 2021

6. Effect of aqueous electrolytes on the supercapacitive performance of glycol-mediated CoFe(2)O(4)nanoparticles

Rani, Barkha; Sahu, Niroj Kumar

ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING Volume: 15 Issue: 5 Article Number: e2548 Published: SEP 2020

5. Correlating the size and cation inversion factor in context of magnetic and optical behavior of CoFe₂O₄ nanoparticles

Singh, Jitendra Pal; Park, Jae Yeon; Singh, Varsha; et al.

RSC ADVANCES Volume: 10 Issue: 36 Pages: 21259-21269 Published: JUN 7 2020

4. Neutron diffraction and Mossbauer spectroscopy studies for Ce doped CoFe₂O₄ nanoparticles

Hashhash, A.; Bobrikov, I.; Yehia, M.; et al.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 503 Article Number: 166624 Published: JUN 1 2020

3. Lanthanum-doped spinel cobalt ferrite (CoFe₂O₄) nanoparticles for environmental applications

Mariosi, Fabricio Ravanello; Venturini, Janio; Viegas, Alexandre da Cas; et al.

CERAMICS INTERNATIONAL Volume: 46 Issue: 3 Pages: 2772-2779 Published: FEB 15 2020

2. Nd³⁺ Ion-Substituted Co_{1-2x}Ni_xMn_xFe_{2-y}Nd_yO₄ Nanoparticles: Structural, Morphological, and Magnetic Investigations

Almessiere, M.A., Slimani, Y., Ali, S., (...), Ercan, I., Sozeri, H.

Journal of Inorganic and Organometallic Polymers and Materials 29(3), pp. 783-791 (2019)

1. Structural and magnetic study of Sm doped NiFe₂O₄ nanoparticles

Yehia, M., Hashhash, A.

Journal of Materials Science: Materials in Electronics 30(7), pp. 6768-6775 (2019)

106. *“Origin of the heat-induced improvement of catalytic activity and stability of MnO_x electrocatalysts for water oxidation”*

Miroslav V. Abrashev, Petko Chernev, Paul Kubella, Mohammad Reza Mohammadi, Chiara Pasquini, Holger Dau, and Ivelina Zaharieva

J. Mater. Chem. A **7**, 17022 (2019) DOI: 10.1039/c9ta05108b IF = 11.301

10. Combination of Highly Efficient Electrocatalytic Water Oxidation with Selective Oxygenation of Organic Substrates using Manganese Borophosphates
Menezes, P.W., Walter, C., Chakraborty, B., (...), Dau, H., Driess, M.
Advanced Materials 33(9),2004098 (2021)
 9. The photocatalytic overall water splitting hydrogen production of g-C₃N₄/CdS hollow core-shell heterojunction via the HER/OER matching of Pt/MnO_x
Pan, Jiaqi; Wang, Panhong; Wang, Peipei; et al.
CHEMICAL ENGINEERING JOURNAL Volume: 405 Article Number: 126622 Published: FEB 1 2021
 8. Capturing Manganese Oxide Intermediates in Electrochemical Water Oxidation at Neutral pH by In Situ Raman Spectroscopy
Cho, Kang Hee; Park, Sunghak; Seo, Hongmin; et al.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 60 Issue: 9 Pages: 4673-4681 Published: FEB 23 2021
 7. Strategies to Develop Earth-Abundant Heterogeneous Oxygen Evolution Reaction Catalysts for pH-Neutral or pH-Near-Neutral Electrolytes
Dong, Yan; Komarneni, Sridhar
SMALL METHODS Volume: 5 Issue: 1 Article Number: 2000719 Published: JAN 2021
 6. Valence-induced distortion controls the resistivity and thermal stability of Co_{2.77}Mn_{1.71}Fe_{1.10}Zn_{0.42}O₈ ceramics
Wang, Bing; Yao, Jincheng; Wang, Junhua; et al.
MATERIALS & DESIGN Volume: 192 Article Number: 108736 Published: AUG 2020
 5. Manganese oxide-based heterogeneous electrocatalysts for water oxidation
Park, Sunghak; Lee, Yoon Ho; Choi, Seungwoo; et al.
ENERGY & ENVIRONMENTAL SCIENCE Volume: 13 Issue: 8 Pages: 2310-2340 Published: AUG 1 2020
 4. Boosting water oxidation activity by tuning the proton transfer process of cobalt phosphonates in neutral solution
Lv, Jiangquan; Guan, Xiangfeng; Yu, Muxin; et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 22 Issue: 25 Pages: 14255-14260 Published: JUL 7 2020
 3. Reversible and irreversible processes during cyclic voltammetry of an electrodeposited manganese oxide as catalyst for the oxygen evolution reaction
Villalobos, Javier; Golnak, Ronny; Xi, Lifei; et al.
JOURNAL OF PHYSICS-ENERGY Volume: 2 Issue: 3 Article Number: 034009 Published: JUL 2020
 2. Surface-Guided Formation of Amorphous Mixed-Metal Oxyhydroxides on Ultrathin MnO₂ Nanosheet Arrays for Efficient Electrocatalytic Oxygen Evolution
Fang, Ming; Han, Dong; Xu, Wen-Bo; et al.
ADVANCED ENERGY MATERIALS Volume: 10 Issue: 27 Article Number: 2001059 Published: JUL 2020
 1. Enhanced water oxidation performances of birnessite and magnetic birnessite nanocomposites by transition metal ion doping
Elmaci, Gokhan; Ozgenc, Gokhan; Kurz, Philipp; et al.
SUSTAINABLE ENERGY & FUELS Volume: 4 Issue: 6 Pages: 3157-3166 Published: JUN 1 2020
107. „Phase composition and structure of TiO₂ powders: Effect of phosphorus dopant“
Irina D. Stambolova, Daniela D. Stoyanova, Miroslav V. Abrashev, Vladimir N. Blaskov, Maria G. Shipochka, Sasho V. Vassilev, and Alexander E. Eliyas
Comptes rendus de l'Académie bulgare des Sciences **72**, 1195-2010 (2019)
DOI:10.7546/CRABS.2019.09.05 IF = 0.343
108. “Free-standing N-Graphene as conductive matrix for Ni(OH)₂ based supercapacitive electrodes”
Kush K. Upadhyay, N. Bundaleska, M. Abrashev, N. Bundaleski, O.M.N.D. Teodoro, I. Fonseca, Andre Mao de Ferro, Rui Pedro Silva, E. Tatarova, and M. F. Montemor
Electrochimica Acta **334**, 135592 (2020) DOI: 10.1016/j.electacta.2019.135592 IF = 6.215
11. Fabrication of a NiO@NF supported free-standing porous carbon supercapacitor electrode using temperature-controlled phase separation method
Deng, Bo-wen; Yang, Yi; Yin, Bo; et al.
JOURNAL OF COLLOID AND INTERFACE SCIENCE Volume: 594 Pages: 770-780 Published: JUL 15 2021
 10. Ni on graphene oxide: a highly active and stable alkaline oxygen evolution catalyst
Fruehwald, Holly M.; Moghaddam, Reza B.; Melino, Peter D.; et al.
CATALYSIS SCIENCE & TECHNOLOGY Early Access: APR 2021
 9. Direct Growth of Oxygen Vacancy-Enriched Co₃O₄ Nanosheets on Carbon Nanotubes for High-Performance Supercapacitors
Zhang, Xiaoyu; Ma, Ge; Shui, Lingling; et al.
ACS APPLIED MATERIALS & INTERFACES Volume: 13 Issue: 3 Pages: 4419-4428 Published: JAN 27 2021
 8. Self-assembled PANI/CeO₂/Ni(OH)₂ hierarchical hybrid spheres with improved energy storage capacity for high-performance supercapacitors
Guo, Qingfu; Yuan, Jinzhong; Tang, Yubao; et al.

7. Promising Rice-Husk-Derived Carbon/Ni(OH)(2) Composite Materials as a High-Performing Supercapacitor Electrode
Cai, Jie; Zhang, Die; Ding, Wen-Ping; et al.
ACS OMEGA Volume: 5 Issue: 46 Pages: 29896-29902 Published: NOV 24 2020
6. Versatility of Amide-Functionalized Co(II) and Ni(II) Coordination Polymers: From Thermochromic-Triggered Structural Transformations to Supercapacitors and Electrocatalysts for Water Splitting
Paul, Anup; Upadhyay, Kush K.; Backovic, Gordana; et al.
INORGANIC CHEMISTRY Volume: 59 Issue: 22 Pages: 16301-16318 Published: NOV 16 2020
5. Advance in Using Plasma Technology for Modification or Fabrication of Carbon-Based Materials and Their Applications in Environmental, Material, and Energy Fields
Sun, Xin; Bao, Jiacheng; Li, Kai; et al.
ADVANCED FUNCTIONAL MATERIALS Volume: 31 Issue: 7 Article Number: 2006287 Published: FEB 2021
4. A facile preparation of Nickel Foam-supported Ni(OH)(2) nano arrays via in-situ etching method with superior bendable electrochemical performance for wearable power supply
Nie, Yajing; Pan, Junli; Jiang, Wenchao; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 835 Article Number: 155293 Published: SEP 15 2020
3. Ultrathin Ni(OH)(2) layer coupling with graphene for fast electron/ion transport in supercapacitor
Zhang, Xiaoyu; Wang, Hongsen; Shui, Lingling; et al.
SCIENCE CHINA-MATERIALS Volume: 64 Issue: 2 Pages: 339-348 Published: FEB 2021
2. Graphene and Lithium-Based Battery Electrodes: A Review of Recent Literature
Lavagna, Luca; Meligrana, Giuseppina; Gerbaldi, Claudio; et al.
ENERGIES Volume: 13 Issue: 18 Article Number: 4867 Published: SEP 2020
1. Nickel hydroxide nanoparticles and their hybrids with carbon nanotubes for electrochemical energy storage applications
Shakir, Imran; Almutairi, Zeyad; Shar, Sahar Saad; et al.
RESULTS IN PHYSICS Volume: 17 Article Number: 103117 Published: JUN 2020
109. *“Microwave plasma-based direct synthesis of free-standing N-graphene”*
D. Tsyganov, N. Bundaleska, A. Dias, J. Henriques, E. Felizardo, M. Abrashev, J. Kissovski, A. M. Botelho do Rego, A. M. Ferraria, and E. Tatarova
Phys. Chem. Chem. Phys. **22**, 4772-4787 (2020) DOI: 10.1039/c9cp05509f IF = 3.430
6. Large-scale in-situ synthesis of nitrogen-doped graphene using magnetically rotating arc plasma
Song, M., Wang, C., Chen, X., Ma, J., Xia, W.
Diamond and Related Materials 116, 108417 (2021)
5. Electron concentration in the non-luminous part of the atmospheric pressure filamentary discharge
Faltynek, J.; Kudrle, V.; Snirer, M.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 1 Article Number: 015001 Published: JAN 2021
4. Recent Advancements of N-Doped Graphene for Rechargeable Batteries: A Review
Ikram, Rabia; Jan, Badrul Mohamed; Pervez, Syed Atif; et al.
CRYSTALS Volume: 10 Issue: 12 Article Number: 1080 Published: DEC 2020
3. Graphene Flakes for Electronic Applications: DC Plasma Jet-Assisted Synthesis
Antonova, Irina V.; Shavelkina, Marina B.; Ivanov, Artem I.; et al.
NANOMATERIALS Volume: 10 Issue: 10 Article Number: 2050 Published: OCT 2020
2. Effect of the Plasma Gas Composition on the Properties of Graphene
Shavelkina, M. B.; Ivanov, P. P.; Bocharov, A. N.; et al.
HIGH ENERGY CHEMISTRY Volume: 54 Issue: 5 Pages: 374-377 Published: SEP 2020
1. Improving the Performance of Zn-Air Batteries with N-Doped Electroexfoliated Graphene
Ilnicka, Anna; Skorupska, Malgorzata; Romanowski, Piotr; et al.
MATERIALS Volume: 13 Issue: 9 Article Number: 2115 Published: MAY 2020
110. *“Raman spectroscopy of alpha-FeOOH (goethite) near antiferromagnetic to paramagnetic phase transition”*
M. V. Abrashev, V. G. Ivanov, B. S. Stefanov, N. D. Todorov, J. Rosell, and V. Skumryev
J. Appl. Phys. **127**, 205108 (2020) DOI: 10.1063/5.0006352 IF = 2.286
111. *“Prospects for microwave plasma synthesized N-graphene in secondary electron emission mitigation applications”*
N. Bundaleska, A. Dias, N. Bundaleski, E. Felizardo, J. Henriques, D. Tsyganov, M. Abrashev, E. Valcheva, J. Kissovski, A. M. Ferraria, A. M. Botelho do Rego, A. Almeida, J. Zavašnik, U. Cvelbar, O. M. N. D. Teodoro, Th. Strunskus, and E. Tatarova

Scientific Reports 10, 13013 (2020) DOI: 10.1038/s41598-020-69844-9 IF = 3.998

112. „*Simultaneous Synthesis and Nitrogen Doping of Free-Standing Graphene Applying Microwave Plasma*“

D. Tsyganov, N. Bundaleska, J. Henriques, E. Felizardo, A. Dias, M. Abrashev, J. Kissovski, A. M. Botelho do Rego, A. M. Ferraria, and E. Tatarova

Materials **13**, 4213 (2020) DOI: 10.3390/ma13184213 IF = 3.057

2. Large-scale in-situ synthesis of nitrogen-doped graphene using magnetically rotating arc plasma

Song, M., Wang, C., Chen, X., Ma, J., Xia, W.

Diamond and Related Materials 116, 108417 (2021)

1. Atmospheric pressure plasmas in material science

Ptasińska, S.

Materials 14(8), 1963 (2021)

113. “*Enhanced effect of combination of new hybrid TiO₂ phase and phosphorus dopant on the physicochemical properties and UV/Visible light photocatalytic activity*”

I. Stambolova, D. Stoyanova, M. Shipochka, V. Blaskov, D. Nihtianova, P. Markov, A. Elias, R. Mladenova, L. Dimitrov, M. Abrashev, G. Avdeev, and K. Zaharieva

Materials Characterization **172**, 110775 (2021) DOI: 10.1016/j.matchar.2020.110775 IF = 3.562

114. “*Catalytic and photocatalytic properties of zinc-nickel ferrites*”

M. P. Tsvetkov, M. M. Milanova, Z. P. Cherkezova-Zheleva, T. S. Tsoncheva, J. Ts. Zaharieva, M. V. Abrashev and I. G. Mitov

J. Chem. Sci. **133**, 24 (2021) DOI: 10.1007/s12039-020-01882-2 IF = 1.406