

СПИСЪК

на забелязаните цитирания на научните трудове на
чл. кор. проф. дхн Константин **Хаджииванов**,
с които участва в конкурса за академици на БАН – 2021 г.*

На работа № 1 (14 цитата):

K. Hadjiivanov, D. Panayotov, M. Mihaylov, E. Ivanova, K. Chakarova, S. Andonova and N. Drenchev
"Power of Infrared and Raman Spectroscopies to Characterize Metal-Organic Frameworks and Investigate Their Interaction with Guest Molecules"
Chem. Rev., 121 (2021) 1286.

1. D. Bagchi, N. Phukan, S. Sarkar, R. Das, B. Pavithra, R. Narayanan and S.C. Peter, *J. Mater. Chem. A*, **9** (2021) 9319 [WoS].
2. N. Bodappa, S. Stepan and R.D.L. Smith, *Inorg. Chem.*, **60** (2021) 2304 [WoS].
3. H. Dua, R. Shukla and R.S. Dhaka, *Phys. Rev. B*, **103** (2021) 174107 [WoS].
4. S. Goswami, J. Yu, S. Patwardhan, P. Deria and J.T. Hupp, *ACS Energy Lett.*, **6** (2021) 848 [WoS].
5. A. Gallo-Cordova, S. Veintemillas-Verdaguer, P. Tartaj, E. Mazario, M. del Puerto Morales and J.G. Ovejero, *Nanomaterials*, **11** (2021) 1052 [WoS].
6. J. Gandara-Loe, L. Pastor-Perez, L.F. Bobadilla, J.A. Odriozola and T.R. Reina, *React. Chem. Eng.*, **6** (2021) 787 [WoS].
7. J. Guo, Y. Qin, Y. Zhu, X. Zhang, C. Long, M. Zhao and Z. Tang, *Chem. Soc. Rev.*, **50** (2021) 5366 [WoS].
8. Z.K. Heiba, M.B. Mohamed, N.M. Farag and A. Badawi, *J. Mater. Sci. Mater. Electron.*, **32** (2021) 9517 [WoS].
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10. J. Ma, T. Ma, R. Qian, L. Zhou, Q. Guo, J. Yang and Q. Yang, *Inorg. Chem.*, **60** (2021) 10.1021/acs.inorgchem.1c00462 [WoS].
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12. A. Pournara, S. Rapti, T. Lazarides and M. Manos, *J. Environ. Chem. Eng.*, **9** (2021) 105474 [WoS].
13. Y. Yang, W. Liu, Q. Zhong, J. Zhang, B. Yao, X. Lian and H. Niu, *ACS Appl. Nano Mater.*, **4** (2021) doi: 10.1021/acsanm.1c00343 [WoS].
14. M. Ying, R. Tang, S. Zhao, W. Yang, W. Liang, X. Zhang, G. Yang, R. Zheng, H. Pan, X. Liao and J. Huang, *Adv. Energy Sustainability Res.*, **2** (2021) 2100055 [WoS].

* Забелязаните цитирания са подредени хронологично в рамките на всеки отделен цитиран труд. Цитиранията на един труд за една календарна година са подредени по азбучен ред на първия цитиращ автор, като се започва с източниците на кирилица, след това на латиница и други. Източникът на информация е показан в средни скоби в края на описанието на цитата.

На работа № 2 (3 цитата):

M. Mihaylov, V. Zdravkova, E. Ivanova, H. Aleksandrov, P. Petkov, G. Vayssilov and K. Hadjiivanov

"Infrared Spectra of Surface Nitrates: Revision of the Current Opinions Based on the Case Study of Ceria"

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На работа № 3 (4 цитата):

M.Y. Mihaylov, E.Z. Ivanova, G.N. Vayssilov and K.I. Hadjiivanov

"Revisiting ceria-NO_x interaction: FTIR studies"

Catal. Today, 357 (2020) 613.

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21. S. Keller, U. Bentrup, J. Rabeah and A. Brückner, *J. Catal.*, (2021) doi: 10.1016/j.jcat.2021.04.026 [WoS].

На работа № 4 (1 цитат):

S. Andonova, Z.A. Ok, E. Ozensoy and K. Hadjiivanov

"Effects Induced by Interaction of the Pt/CeO_x/ZrO_x/γ-Al₂O₃ Ternary Mixed Oxide DeNO_x Catalyst with Hydrogen"

Catal. Today, 357 (2020) 664.

22. L. Jurado, N. García-Moncada, L.F. Bobadilla, F. Romero-Sarria and J.A. Odriozola, *Catalysts*, **10** (2020) 841 [WoS].

На работа № 5 (5 цитата):

N.L. Drenchev, K.K. Chakarova, O.V. Lagunov, M.Y. Mihaylov, E.Z. Ivanova, I. Strauss and K.I. Hadjiivanov

"In situ FTIR Spectroscopy as a Tool for Investigation of Gas/Solid Interaction: Water-Enhanced CO₂ Adsorption in UiO-66 Metal-Organic Framework"

J. Vis. Exp., 156 (2020) e60285.

23. I.-K. Ahn, Structural Design of Transition Metal Compounds based Electrocatalysts for Water Splitting, *Ph. D. Thesis*, Seoul National University, Seoul, South Korea, 2020 [GS].
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На работа № 6 (7 цитата):

I. Strauss, K. Chakarova, A. Mundstock, M. Mihaylov, K. Hadjiivanov, N. Guschanski and J. Caro

"UiO-66 and UiO-66-NH₂ Based Sensors: Dielectric and FTIR Investigations on the Effect of CO₂ Adsorption"

Microporous Mesoporous Mater., **302** (2020) 110227.

28. D. Antonella, B. Fuchineco, M. Crivello, A. Constanza, H. Enrique, R. Castellón, *Actas de Jornadas y Eventos Académicos de UTN*, **5** (2020) doi: 10.33414/ajea.5.710.2020 [GS].
29. M.T. Wharmby, F. Niekiel, J. Benecke, S. Waitschat, H. Reinsch, D. Daisenberger, N. Stock and P.G. Yot, *Nanomater.*, **10** (2020) 1698 [WoS].
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На работа № 7 (27 цитата):

K. Chakarova, I. Strauss, M. Mihaylov, N. Drenchev and K. Hadjiivanov

"Evolution of Acid and Basic Sites in UiO-66 and UiO-66-NH₂ Metal-Organic Frameworks: FTIR Study by Probe Molecules"

Microporous Mesoporous Mater., **281** (2019) 110.

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37. C.H. Sharp, Fundamental Studies of the Uptake and Diffusion of Sulfur Mustard Simulants within Zirconium-based Metal-Organic Frameworks, *Ph. D. Thesis*, Virginia Polytechnic Institute and State University, Blacksburg, USA, 2019 [GS].
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49. B. Tang, Y. Dai, Y. Sun, H. Chen and Z. Wang, *J. Solid State Chem.*, **284** (2020) 121215 [WoS].
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На работа № 8 (9 цитата):

R.R.R. Prasad, S.E. Seidner, D.B. Cordes, M.M. Lozinska, D.M. Dawson, M.J. Thompson, T. Düren, K.K. Chakarova, M.Y. Mihaylov, K.I. Hadjiivanov, F. Hoffmann, A.M.Z. Slawin, S.E. Ashbrook, M.L. Clarke and P.A. Wright
 "STA-27, a Porous Lewis Acidic Scandium MOF with an Unexpected Topology Type Prepared with 2,3,5,6-Tetrakis(4-carboxyphenyl)pyrazine"
J. Mater. Chem. A, **7** (2019) 5685.

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64. P. Rönfeldt, H. Reinsch, N. Faßheber, H. Terraschke and N. Stock, *Europ. J. Inorg. Chem.*, **2020** (2020) 1147 [WoS].
65. P. Rönfeldt, N. Ruser, H. Reinsch, E.S. Grape, A.K. Inge, M. Suta, H. Terraschke and N. Stock, *Europ. J. Inorg. Chem.*, **2020** (2020) 2737 [WoS].
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На работа № 9 (8 цитата):

M.Y. Mihaylov, E.Z. Ivanova, H.A. Aleksandrov, P.St. Petkov, G.N. Vayssilov and K.I. Hadjiivanov
 "Species Formed during NO Adsorption and NO + O₂ Co-adsorption on Ceria: A Combined FTIR and DFT Study"
Mol. Catal., **451** (2018) 114.

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73. S.I. Anthonysamy, P. Lahijani, M. Mohammadi and A.R. Mohamed, *Korean J. Chem. Eng.*, **37** (2020) 130 [WoS].

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На работа № 10 (8 цитата):

N. Drenchev, M. Rosnes, P.D.C. Dietzel, A. Albinati, K. Hadjiivanov and P.A. Georgiev
 "Open Metal Sites in the Metal-Organic Framework CPO-27-Cu: Detection of Regular and Defect Copper Species by CO and NO Probe Molecules"
J. Phys. Chem. C, **122** (2018) 17238.

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На работа № 11 (5 цитата):

S. Andonova, Z.A. Ok, N. Drenchev, E. Ozensoy and K. Hadjiivanov
 "Pt/CeO_x/ZrO_x/γ-Al₂O₃ Ternary Mixed Oxide DeNO_x Catalyst: Surface Chemistry and NO_x Interactions"
J. Phys. Chem. C, **112** (2018) 12850.

87. E. Fernández, L. Liu, M. Boronat, R. Arenal, P. Concepcion and A. Corma, *ACS Catal.*, **9** (2019) 11530 [WoS].
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На работа № 12 (11 цитата):

A. Bumstead, D. Cordes, D. Dawson, K. Chakarova, M. Mihaylov, C. Hobday, T. Dueren, K. Hadjiivanov, A. Slawin, S.E. Ashbrook, R. Prasad and P.A. Wright
 "Modulator-Controlled Synthesis of Microporous STA-26, an Interpenetrated 8,3-Connected Zirconium MOF with the t_h-i Topology, and its Reversible Lattice Shift"
Chem. Europ. J., **24** (2018) 6115.

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95. H. Jameson, Interior Decoration of Metal-Organic Frameworks through a Thermolabile Protecting Group Strategy, *Ph. D. Thesis*, Massey University, Manawatū, New Zealand, 2019 [GS].
96. A. Gheorghe, I. Imaz, J.I. van der Vlugt, D. Maspoeh and S. Tanase, *Dalton Trans.*, **48** (2019) 10043 [WoS].
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100. A. Gheorghe, Critical factors in tuning the architecture and properties of metal-organic frameworks, *Ph. D. Thesis*, Universiteit van Amsterdam, The Netherlands, 2020 [GB].
101. X. Zhang, Z. Chen, X. Liu, S.L. Hanna, X. Wang, R. Taheri-Ledari, A. Maleki, P. Li and O.K. Farha, *Chem. Soc. Rev.*, **49** (2020) 7406 [WoS].
102. L. Robison, X. Gong, A. Evans, F. Son, X. Wang, L. Redfern, M. Wasson, Z. Syed, Z. Chen, K. Idrees, T. Islamoglu, M. Delferro, W. Dichtel, F. Coudert, N. Gianneschi and O. Farha, *J. Am. Chem. Soc.*, **143** (2021) 1503 [WoS].

На работа № 13 (3 цитата):

O. Lagunov, N. Drenchev, K. Chakarova, D. Panayotov and K. Hadjiivanov
 "Isotopic Labelling in Vibrational Spectroscopy: a Technique to Decipher the Structure of Surface Species"
Top. Catal., **60** (2017) 1486.

103. J. King, C. Liu and S.S.C. Chuang, *Res. Chem. Intermed.*, **45** (2019) 5831 [WoS].
104. S. Attia and S. Schauermaun, *J. Phys. Chem. C*, **124** (2020) 557 [WoS].
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На работа № 14 (17 цитата):

S. Andonova, E. Ivanova, J. Yang and K. Hadjiivanov
 "Adsorption Forms of CO₂ on MIL-53(Al) and MIL-53(Al)-OH_x as Revealed by FTIR Spectroscopy"
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 "Surprising Coordination Chemistry of Cu⁺ Cations in Zeolites: FTIR Study of Adsorption and Coadsorption of CO, NO, N₂, and H₂O on Cu-ZSM-5"
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O. Lagunov, K. Chakarova and K. Hadjiivanov

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H. Aleksandrov, V. Zdravkova, M. Mihaylov, P. Petkov, G. Vayssilov and K. Hadjiivanov

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На работа № 46 (13 цитата):

K. Chakarova and K. Hadjiivanov

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M. Mihaylov, O. Lagunov, E. Ivanova and K. Hadjiivanov

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На работа № 54 (22 цитата):

K. Chakarova, G. Petrova, M. Dimitrov, L. Dimitrov, G. Vayssilov, T. Tsoncheva and K. Hadjiivanov

"Coordination State of Cu⁺ Ions in Cu-[Al]MCM-41"

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M. Mihaylov, E. Ivanova, K. Chakarova, P. Novachka and K. Hadjiivanov

"Reduced Iron Sites in Fe-BEA and Fe-ZSM-5 Zeolites: FTIR study of CO Adsorption and $^{12}\text{C}^{16}\text{O}$ – $^{13}\text{C}^{18}\text{O}$ Co-adsorption"

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N. Drenchev, E. Ivanova, M. Mihaylov and K. Hadjiivanov

"CO as an IR Probe Molecule for Characterization of Copper Ions in a Basolite C300 MOF Sample"

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На работа № 57 (29 цитата):

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K. Chakarova and K. Hadjiivanov

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"Gold Nanoparticles on Silica Monospheres Modified by Amino Groups"**Microporous Mesoporous Mater., 117 (2009) 530.**

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"Surface Acidity of Calcium Phosphate and Calcium Hydroxyapatite: FTIR Spectroscopic Study of Low-temperature CO Adsorption"

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K. Chakarova, M. Mihaylov and K. Hadjiivanov

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На работа № 111 (27 цитата):

K. Hadjiivanov, B. Tsyntsarski, T. Venkov, D. Klissurski, M. Daturi, J. Saussey and J.-C. Lavalley

"FTIR Spectroscopic Study of CO Adsorption on Co-ZSM-5: Evidence of Formation of $\text{Co}^+(\text{CO})_4$ Species"

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На работа № 112 (21 цитата):

E. Ivanova and K. Hadjiivanov

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На работа № 113 (27 цитата):

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"New Types of Polycarbonyls of Co⁺ Formed after Interaction of CO with Co-ZSM-5: An FTIR Spectroscopic Study"
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На работа № 114 (35 цитата):

K. Hadjiivanov, E. Ivanova and H. Knözinger

"FTIR Study of Low-temperature CO Adsorption on Y zeolite Exchanged with Be²⁺, Mg²⁺, Ca²⁺, Sr²⁺ and Ba²⁺ Cations"

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На работа № 115 (21 цитата):

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 Evidence of Formation of [ONNO]⁺ Species"
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На работа № 130 (19 цитата):

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На работа № 137 (31 цитата):

K. Hadjiivanov, H. Knözinger, E. Ivanova and L. Dimitrov

"FTIR Study of Low-temperature CO and $^{15}\text{N}_2$ Adsorption on a CaNaY zeolite: Formation of Site-specified $\text{Ca}^{2+}(\text{CO})_3$ and $\text{Ca}^{2+}(^{15}\text{N}_2)_3$ Complexes"

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K. Hadjiivanov and H. Knözinger

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K. Hadjiivanov and H. Knözinger

"Formation of Ca²⁺(CO)₃ Complexes during Low-temperature CO Adsorption on CaNaY Zeolite"

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На работа № 141 (22 цитата):

K. Hadjiivanov, E. Ivanova and D. Klissurski

"Site-specified and Complex-specified Formation of Geminal Species during Adsorption of Small Molecules on Cationic Sites"

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"Stability and Reactivity of the Nitrogen-oxo Species Formed after NO Adsorption and NO + O₂ Coadsorption on a Co-ZSM-5 deNO_x Catalyst: An FTIR Spectroscopic Study"
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"IR Spectroscopy Study of CO and NO_x Adsorption on a Cu/Zr-HMS Catalyst"
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"FTIR Study of the Low-temperature Adsorption and Co-adsorption of ¹²CO and ¹³CO on a TiO₂-SiO₂ Mixed Oxide"

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K. Hadjiivanov

"IR Study of CO and NO_x Sorption on Ag-ZSM-5"

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K. Hadjiivanov

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На работа № 167 (169 цитата):

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K. Hadjiivanov, M. Kantcheva and D. Klissurski

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