

## Н-индексът на Българската академия на науките е 211

Н-индексът е въведен за оценка на научните постижения на отделни учени, но напоследък все по-често се използва за оценяване както на актуалността на различни области от науката, така и за научни институции. Съгласно Web of Knowledge Н-индексът на Българската академия на науките към 01.06.2020 г. е 211. За сравнение, Н-индексът на България е около 280. Макар и да не отчита редица фактори, като например различна средна цитируемост в отделните науки, Н-индексът дава обща представа за влиянието на дадена институция.

По-долу е представен списък на научни трудове на учени от БАН, които са цитирани поне 211 пъти всяка. Имената на авторите от БАН са показани с удебелен шрифт. Включени са само статии, в които е даден адресът на съответното структурно звено на БАН. 69 от статиите са публикувани в резултат на широко международно сътрудничество и са с повече от 30 автора, като в тези случаи не са изписани имената на всички съавтори.

№	Автори	Заглавие	Списание, том, стр.	Година	Институт	Цитирания
1	<b>Atanassov, KT</b>	Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 20, p. 86	1987	ИББИ	6800
2	Olive, KA; .... <b>Petcov, ST</b> and 205 more	Review of Particle Physics, Particle Data Group	Chinese Physics C., vol. 38, Art. UNSP 090001	2014	ИЯИЯЕ	5782
3	Chatrchyan, S; ..... <b>Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vankov, I; Vutova, M; Roumenin, C; Uzunova, D; Zahariev, R</b> and 2874 more	Observation of a New Boson at a Mass of 125 GeV with the CMS Experiment at the LHC	Physics Letters B, vol. 716, p. 30	2012	ИЯИЯЕ, ИР	5763
4	Beringer, J; ..... <b>Petcov, ST</b> and 188 more	Review of Particle Physics, Particle Data Group	Physical Review D, vol. 86, art. No 010001	2012	ИЯИЯЕ	5677
5	Nakamura, K; ..... <b>Petcov, ST</b> and 175 more	Review of Particle Physics	Journal of Physics G-Nuclear and Particle Physics, vol. 37, art No 075021	2010	ИЯИЯЕ	5342
6	Patrignani, C .... <b>Petcov, ST</b> and 220 more	Review of Particle Physics Particle Data Group	Chinese Physics C, vol. 40, art. UNSP 100001	2016	ИЯИЯЕ	3982
7	Chatrchyan, S .... <b>Anguelov, T; Antchev, G; Atanasov, I; Damgov, J; Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Stoykova, S; Sultanov, G; Trayanov, R; Vankov, I; Aleksandrov, V</b> and 3084 more	The CMS Experiment at the CERN LHC	Journal of Instrumentation vol. 3, art. S08004	2008	ИЯИЯЕ, ИР	2903

8	Tanabashi, M .... <b>Petcov, ST</b> and 225 more	Review of Particle Physics. Particle Data Group	Physical Review D, vol. 98, art. No 030001	2018	ИЯИЯЕ	2529
9	<b>Atanassov, K; Gargov, G</b>	Interval Valued Intuitionistic Fuzzy-Sets	Fuzzy Sets and Systems, vol. 31, p. 343	1989	ИББИ	1814
10	<b>Velikova, V.; Yordanov, I.; Edreva, A</b>	Oxidative Stress and Some Antioxidant Systems in Acid Rain-treated Bean Plants - Protective Role of Exogenous Polyamines	Plant Science, vol. 151, p. 59	2000	ИФРГ	1747
11	McClusky, S; Balassanian, S; Barka, A; Demir, C; Ergintav, S; <b>Georgiev, I.</b> ; Gurkan, O; Hamburger, M; Hurst, K; Kahle, H; Kastens, K; Kekelidze, G; King, R; <b>Kotzev, V</b> ; Lenk, O; Mahmoud, S; Mishin, A; Nadariya, M; Ouzounis, A; Paradissis, D; Peter, Y; Prilepin, M; Reilinger, R; Sanli, I; Seeger, H; Tealeb, A; Toksöz, MN; Veis, G.	Global Positioning System Constraints on Plate Kinematics and Dynamics in the Eastern Mediterranean and Caucasus	Journal of Geophysical Research: Solid Earth vol. 105, p. 5695	2000	НИПГГ	1416
12	Ackermann, W; .... <b>Tsakov, I</b> and 152 more	Operation of a Free-electron Laser from the Extreme Ultraviolet to the Water Window	Nature Photonics, vol. 1, p. 336	2007	ИЯИЯЕ	1112
13	Schael, S .... <b>Shivarov N.; Stoyanov B.; Sultanov G.</b> and 2508 more	Precision Electroweak Measurements on the Z Resonance	Physics Reports - Review Section of Physics Letters, vol. 427, p. 257	2006	ИР	1076
14	<b>Hadjiivanov, KI</b>	Identification of Neutral and Charged NxOy Surface Species by IR Spectroscopy	Catalysis Reviews - Science and Engineering, vol. 42, p. 71	2000	ИОНХ	1011
15	Klein Tank, AMG; Wijngaard, JB; Können, GP; Böhm, R; Demarée, G; <b>Gocheva, A</b> ; Mileta, M; Pashiardis, S; Hejkrlik, L; Kern-Hansen, C; Heino, R; Bessemoulin, P; Müller-Westermeier, G; Tzanakou, M; Szalai, S; Pálsdóttir, T; Fitzgerald, D; Rubin, S; Capaldo, M; Maugeri, M; Leitass, A; Bukantis, A; Aberfeld, R; Van Engelen, AFV; Forland, E; Mietus, M; Coelho, F; Mares, C; Razuvaev, V; Nieplova, E; Cegnar, T; Antonio López, J; Dahlström, B; Moberg, A; Kirchhofer, W; Ceylan, A; Pachaliuk, O; Alexander, LV; Petrovic, P.	Daily Dataset of 20 <sup>th</sup> -century Surface Air Temperature and Precipitation Series for the European Climate Assessment	International Journal of Climatology, vol. 22, p. 1441	2002	НИМХ	1003
16	Chatrchyan, S; .... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M</b> and 2235 more	Search for Large Extra Dimensions in Dimuon and Dielectron Events in pp Collisions at $\sqrt{s} = 7$ TeV	Physics Letters B, vol. 711, p. 15	2012	ИЯИЯЕ	958

17	Koleva, II; van Beek, TA; Linssen, JPH; de Groot, A; <b>Evstatieva, LN</b>	Screening of Plant Extracts for Antioxidant Activity: a Comparative Study on Three Testing Methods	Phytochemical Analysis, vol. 13, p. 8	2002	ИБЕИ	910
18	Baker, CA; Doyle, DD; Geltenbort, P; Green, K; Van Der Grinten, MGD; Harris, PG; Iaydjiev, P; <b>Ivanov, SN</b> ; May, DJR; Pendlebury, JM; Richardson, JD; Shiers, D; Smith, KF	Improved Experimental Limit on the Electric Dipole Moment of the Neutron	Physical Review Letters, vol. 97, art. 131801	2006	ИЯИЯЕ	896
19	<b>Vassilev, SV</b> ; Baxter, D; Andersen, LK; <b>Vassileva, CG</b>	An Overview of the Chemical Composition of Biomass	Fuel, vol. 89, p. 913	2010	ИМК	894
20	<b>Angelova, MI</b> ; <b>Dimitrov, DS</b>	Liposome Electroformation	Faraday Discussions, vol. 81, p. 303	1986	ИББИ	869
21	<b>Todorov, T</b> ; <b>Nikolova, L</b> ; <b>Tomova, N</b>	Polarization Holography 1. A New High-Efficiency Organic Material with Reversible Photoinduced Birefringence	Applied Optics vol. 23, p. 4309	1984	ИОМТ	817
22	Aad, G ... <b>Aleksandrov, A</b> ; <b>Genchev, V</b> ; <b>Hadjiiska, R</b> ; <b>Iaydjiev, P</b> ; <b>Marinov, A</b> ; <b>Piperov, S</b> ; <b>Rodozov, M</b> ; <b>Stoykova, S</b> ; <b>Sultanov, G</b> ; <b>Vutova, M</b> and 5143 more	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments	Physical Review Letters, vol. 114, art. 191803	2015	ИЯИЯЕ	812
23	Burkhard, B; Kroll, F; <b>Nedkov, S</b> ; Muller, F	Mapping Ecosystem Service Supply, Demand and Budgets	Ecological Indicators, vol. 21, p. 17	2012	НИГТТ	812
24	<b>Atanassov, KT</b>	More on Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 33, p. 37	1989	ИББИ	783
25	<b>Koynova, R</b> ; Caffrey, M	Phases and Phase Transitions of the Phosphatidylcholines	Biochimica et Biophysica Acta - Reviews on Biomembranes, vol. 1376, p. 91	1998	ИББИ	769
26	<b>Hadjiivanov, KI</b> ; Vayssilov, GN	Characterization of Oxide Surfaces and Zeolites by Carbon Monoxide as an IR Probe Molecule	Advances in Catalysis vol. 47, p. 307	2002	ИОНХ	764
27	Bayatian, GL; ..... <b>Anguelov, J</b> ; <b>Antchev, G</b> ; <b>Atanasov, I</b> ; <b>Damgov, J</b> ; <b>Darmenov, N</b> ; <b>Dimitrov, L</b> ; <b>Genchev, V</b> ; <b>Iaydjiev, P</b> ; <b>Panev, P</b> ; <b>Piperov, S</b> ; <b>Stoykova, S</b> ; <b>Sultanov, G</b> ; <b>Vankov, I</b> and 1996 more	CMS Physics Technical Design Report, Volume II: Physics Performance	Journal of Physics G: Nuclear and Particle Physics, Vol. 34, p. 995	2007	ИЯИЯЕ	750
28	<b>Gospodinova, N</b> ; <b>Terlemezyan, L</b>	Conducting Polymers Prepared by Oxidative Polymerization: Polyaniline	Progress in Polymer Science, vol. 23, p. 1443	1998	ИП	746
29	<b>Alexieva, V</b> ; Sergiev, I; Mapelli, S; <b>Karanov, E</b>	The Effect of Drought and Ultraviolet Radiation on Growth and Stress Markers in Pea and Wheat	Plant Cell and Environment, vol. 24, p. 1337	2001	ИФРГ	744
30	<b>Bankova, VS</b> ; de Castro, SL; Marcucci, MC	Propolis: Recent Advances in Chemistry and Plant Origin	Apidologie, vol. 31, p. 3	2000	ИОХЦФ	744

31	<b>Kashchiev, D</b>	Nucleation, Basic Theory with Applications	Book, Butterworth-Heinemann, Oxford, UK	2000	ИФХ	738
32	<b>Vitanov, NV</b> ; Halfmann, T; Shore, BW; Bergmann, K	Laser-induced Population Transfer by Adiabatic Passage Techniques	Annual Review of Physical Chemistry, vol. 52, p. 763	2001	ИФТТ	717
33	<b>Kujumgiev, A; Tsvetkova, I; Serkedjieva, Y; Bankova, V; Christov, R; Popov, S</b>	Antibacterial, Antifungal and Antiviral Activity of Propolis of Different Geographic Origin	Journal of Ethnopharmacology, vol. 64, p. 235	1999	ИМБ, ИОХЦФ	678
34	Machado, JT; <b>Kiryakova, V</b> ; Mainardi, F	Recent History of Fractional Calculus	Communications in Nonlinear Science and Numerical Simulation, vol. 16, p. 1140	2011	ИМИ	666
35	<b>Angelova, MI</b> ; Soléau, S.; Méléard, P; Faucon, F; Bothorel, P	Preparation of Giant Vesicles by External AC Electric-fields-Kinetics and Applications	Progress in Colloid & Polymer Science, vol. 89, p. 127	1992	ИББИ	639
36	Patel, A; Lee, H; Jawerth, L; Maharana, S; Jahnel, M; Hein, M; <b>Stoyanov, S</b> ; Mahamid, J; Saha, S; Franzmann, T; Pozniakowski, A; Poser, I; Maghelli, N; Royer, L; Weigert, M; Myers, E; Grill, S; Drechsel, D; Hyman, A; Alberti, S	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation	Cell, vol. 162, p. 1066	2015	ИМБ	625
37	<b>Dimitrov, I</b> ; Trzebicka, B; Muller, AHE; Dworak, A; <b>Tsvetanov, CB</b>	Thermosensitive Water-soluble Copolymers with Doubly Responsive Reversibly Interacting Entities	Progress in Polymer Science, vol. 32, p. 1275	2007	ИП	610
38	Loreto, F; <b>Velikova, V</b>	Isoprene Produced by Leaves Protects the Photosynthetic Apparatus Against Ozone Damage, Quenches Ozone Products, and Reduces Lipid Peroxidation of Cellular Membranes	Plant Physiology, vol. 127, p. 1781	2001	ИФРГ	606
39	Bilenky, SM; <b>Petcov, ST</b>	Massive Neutrinos and Neutrino Oscillations	Reviews of Modern Physics, vol. 59, p. 671	1987	ИЯИЯЕ	576
40	Schael, S; .... <b>Shivarov N; Stoyanov B; Sultanov G</b> and 1208 more	Search for Neutral MSSM Higgs Bosons at LEP	European Physical Journal C, vol. 47, p. 547	2006	ИР	569
41	Adeva, B .... <b>Angelov, AM; Angelov, TH; Antchev, GH; Antonov, L; Dimitrov, HA; Ayranov, OL; Filipov, GA; Krastev, VR</b> and 588 more	The Construction of the L3 Experiment	Nuclear Instruments & Methods in Physics, vol. 289, p. 35	1990	ИЯИЯЕ	545
42	Aaron, FD .... <b>Tsakov, I</b> and 540 more	Combined Measurement and QCD Analysis of the Inclusive $e^+p$ Scattering Cross Sections at HERA	Journal of High Energy Physics, vol. 2010, p. 109	2010	ИЯИЯЕ	534

43	Khachatryan, V .... <b>Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G.; Tcholakov, V.; Trayanov, R.; Vankov, I</b> and 2152 more	Observation of Long-range, Near-side Angular Correlations in Proton-Proton Collisions at the LHC	Journal of High Energy Physics, art. No 091	2010	ИЯИЯЕ	520
44	Rosso, OA; Blanco, S; <b>Yordanova, J; Kolev, V;</b> Figliola, A; Schurmann, M; Basar, E	Wavelet Entropy: a New Tool for Analysis of Short Duration Brain Electrical Signals	Journal of Neuroscience Methods, vol. 105, p. 65	2001	ИФРГ	519
45	Actis, M .... <b>Maneva G.; Bonev J.; Dimitrov D.</b> and 668 more	Design Cconcepts for the Cherenkov Telescope Array CTA: an Advanced Facility for Ground-based High-energy $\gamma$ -Ray Astronomy	Experimental Astronomy, vol. 32, p. 193	2011	ИЯИЯЕ, ИАНАО	518
46	<b>Hadjiivanov, KI; Klissurski, DG</b>	Surface Chemistry of Titania (Anatase) and Titania-supported Catalysts	Chemical Society Reviews, vol. 25, p. 61	1996	ИОНХ	503
47	Balaz, P; Achimovicova, M; Balaz, M; Billik, P; <b>Cherkezova-Zheleva, Z;</b> Criado, JM; Delogu, F; Dutkova, E; Gaffet, E; Gotor, FJ; Kumar, R; <b>Mitov, I;</b> Rojac, T; Senna, M; Streletskii, A; Wieczorek-Ciurowa, K	Hallmarks of Mechanochemistry: From Nanoparticles to Technology	Chemical Society Reviews, vol. 42, p. 7571	2013	ИК	503
48	<b>Stoykova, A.,</b> Gruss, P	Roles of Pax-genes in Developing and Adult Brain as Suggested by Expression Patterns	Journal of Neuroscience, vol. 14, p. 1395	1994	ИМБ	498
49	Aad, G .... <b>Aleksandrov, A; Hadjiiska, R; Iaydjiev, P; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M</b> and 5105 more	Measurements of the Higgs Boson Production and Decay Rates and Constraints on its Couplings From a Combined ATLAS and CMS Analysis of the LHC pp Collision Data at $\sqrt{s} = 7$ and 8 TeV	Journal of High Energy Physics, art. No 045	2016	ИЯИЯЕ	491
50	<b>Mintova, S;</b> Olson, NH; <b>Valtchev, V;</b> Bein, T	Mechanism of Zeolite A Nanocrystal Growth from Colloids at Room Temperature	Science, vol. 283, p. 958	1999	ИМК	490
51	<b>Kiryakova, VS</b>	Generalized Fractional Calculus and Applications	Pitman Res Notes Mat, John Wiley & Sons, New York.	1994	ИМИ	486
52	Chatrchyan, S .... <b>Darmenov, N; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R</b> and 2012 more	Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS	Journal of Instrumentation, vol. 6, art. No P11002	2011	ИЯИЯЕ	485
53	<b>Atanassov, KT</b>	New Operations Defined over the Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 61, p. 137	1994	ИББИ	484
54	Chatrchyan, S .... <b>Genchev, V; Iaydjiev, P; Piperov, P; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M</b> and 2261 more	Combined Results of Searches for the Standard Model Higgs Boson in pp Collisions at $\sqrt{s} = 7$ TeV	Physics Letters B, vol. 710, p. 26	2012	ИЯИЯЕ	482

55	Netzeva, TI; Worth, AP; Aldenberg, T; Benigni, R; Cronin, MTD; Gramatica, P; Jaworska, JS; Kahn, S; Klopman, G; Marchant, CA; Myatt, G; <b>Nikolova-Jeliazkova, N</b> ; Patlewicz, GY; Perkins, R; Roberts, DW; Schultz, TW; Stanton, DT; van de Sandt, JJM; Tong, WD; Veith, G; Yang, CH	Current Status of Methods for Defining the Applicability Domain of (Quantitative) Structure-Activity Relationships - The Report and Recommendations of ECVAM Workshop 52	ATLA - Alternatives to Laboratory Animals, vol. 33, p. 155	2005	ИИКТ	482
56	Kazakov, VA; <b>Kostov, IK</b> ; Migdal, AA	Critical Properties of Randomly Triangulated Planar Random Surfaces	Physics Letters B, vol. 157, p. 295	1985	ИЯИЯЕ	469
57	Aurbach, D; Markovsky, B; Salitra, G; Markevich, E; Talyossef, Y; Kolytyn, M; Nazar, L; Ellis, B; <b>Kovacheva, D</b>	Review on Electrode-Electrolyte Solution Interactions, Related to Cathode Materials for Li-ion Batteries	Journal of Power Sources, vol. 165, p. 491	2007	ИОНХ	467
58	Chatrchyan, S ..... <b>Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vankov, I</b> and 2134 more	Observation and Sstudies of Jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV	Physical Review C, vol. 84, pap. 024906	2011	ИЯИЯЕ	464
59	Bilenky, SM; Hošek, J; <b>Petcov, ST</b>	On the Oscillations of Neutrinos with Dirac and Majorana Masses	Physics Letters B, vol. 94, p. 495	1980	ИЯИЯЕ	461
60	<b>Atanassov, KT</b>	Operators over Interval Valued Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 64, p. 159	1994	ИББИ	441
61	Chatrchyan, S .... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M</b> and 2183 more	Observation of Long-range, Near-Side Angular Correlations in pPb Collisions at the LHC	Physics Letters B, vol. 718, p. 795	2013	ИЯИЯЕ	427
62	Khachatryan, V .... <b>Aleksandrov, A; Genchev, V; Hadjiiska, R; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M</b> and 2141 more	Precise Determination of the Mass of the Higgs Boson and Tests of Compatibility of Its Couplings with the Standard Model Predictions Using Proton Collisions at 7 and 8 TeV	European Physical Journal C, vol. 75, art. No UNSP 212	2015	ИЯИЯЕ	421
63	S. Chatrchyan, S. ... <b>Genchev, P; Iaydjiev, S; Piperov, M; Rodozov, S; Stoykova, G; Sultanov, V; Tcholakov, R; Trayanov, M; Vutova, M</b> and 2179 more	Observation of a New Boson with Mass near 125 GeV in pp Collisions at $\sqrt{s} = 7$ and 8 TeV	Journal of High Energy Physics, art. No: 081	2013	ИЯИЯЕ	415
64	Khachatryan, V .... <b>Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Stoykova, S; Sultanov, G; Trayanov, R.; Vankov, I.</b> and 2061 more	Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at $\sqrt{s} = 7$ TeV	Physical Review Letters, vol. 105, art. 022002	2010	ИЯИЯЕ	414
65	<b>Dimitrov, LI</b>	Mud Volcanoes - The Most Important Pathway for Degassing Deeply Buried Sediments	Earth Science Reviews, vol. 59, p. 49	2002	ИО	412
66	Chatrchyan, S .... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov,</b>	Performance of CMS Muon Reconstruction in pp Collision Events at $\sqrt{s} = 7$ TeV	Journal of Instrumentation, vol. 7, art. No P10002	2012	ИЯИЯЕ	407

	<b>G; Tcholakov, V; Trayanov, R; Vutova, M</b> and 2280 more					
67	Georgiev, V; <b>Todorova, G</b>	Existence of a Solution of the Wave-Equation with Nonlinear Damping and Source Terms	Journal of Differential Equations, vol. 109, p. 295	1994	ИМИ	407
68	Jaworska, J; <b>Nikolova-Jeliazkova, N</b> ; Aldenberg, T	QSAR Applicability Domain Estimation by Projection of the Training Set in Descriptor Space: A Review	Atla-Alternatives to Laboratory Animals, vol. 33, p. 445	2005	ИИКТ	401
69	Harris, PG; Baker, CA; Green, K; <b>Iaydjiev, P</b> ; Ivanov, S; May, DJR; Pendlebury, JM; Shiers, D; Smith, KF; Van Der Grinten, M; Geltenbort, P	New Experimental Limit on the Electric Dipole Moment of the Neutron	Physical Review Letters, vol. 82, p. 904	1999	ИЯИЯЕ	400
70	Fernandes, P; Cruz, A; <b>Angelova, B</b> ; Pinheiro, HM; Cabral, JMS	Microbial Conversion of Steroid Compounds: Recent Developments	Enzyme and Microbial Technology, vol. 32, p. 688	2003	ИМБ	397
71	<b>Popov, E</b> ; Nevière, M; Enoch, S; Reinisch, R	Theory of Light Transmission through Subwavelength Periodic Hole Arrays	Physical Review B - Condensed Matter and Materials Physics, vol. 62, p. 16100	2000	ИФТТ	395
72	Chatrchyan, S; .... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M</b> and 2281 more	Identification of b-Quark Jets with the CMS Experiment	Journal of Instrumentation, vol. 8, art. No P04013	2013	ИЯИЯЕ	386
73	<b>Yordanov, I; Velikova, V; Tsonev, T</b>	Plant Responses to Drought, Acclimation, and Stress Tolerance	Photosynthetica, vol. 38, p. 171	2000	ИФРГ	386
74	<b>Vassilev, SV</b> ; Baxter, D; Andersen, LK; <b>Vassileva, CG</b> ; Morgan, TJ	An Overview of the Organic and Inorganic Phase Composition of Biomass	Fuel, vol. 94, p. 1	2012	ИМК	386
75	Boccuzzi, F; Chiorino, A; Manzoli, M; <b>Andreeva, D; Tabakova, T</b>	FTIR Study of the Low-temperature Water-gas Shift Reaction on Au/Fe <sub>2</sub> O <sub>3</sub> and Au/TiO <sub>2</sub> Catalysts	Journal of Catalysis, vol. 188, p. 176	1999	ИК	384
76	Chatrchyan, S; .... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M</b> and 2257 more	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	European Physical Journal C, vol. 72, art. No 2012	2012	ИЯИЯЕ	382
77	Chatrchyan, S .... <b>Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M</b> and 2455 more	Measurement of the Properties of a Higgs Boson in the Four-Lepton Final State	Physical Review D, Vol. 89, art. No 092007	2014	ИЯИЯЕ	377
78	Acharya, BS .... <b>Dimitrov, D; Maneva, G.; Vankov, H.</b> and 972 more	Introducing the CTA Concept	Astroparticle Physics, vol. 43, p. 3	2013	ИЯИЯЕ, ИАНАО	377
79	<b>Vitanov, NV</b> ; Fleischhauer, M; Shore, BW; Bergmann, K	Coherent Manipulation of Atoms and Molecules by Sequential Laser Pulses	Advances in Atomic, Molecular, and Optical Physics, vol. 46, p. 55	2001	ИФТТ	375

80	Zadrozny, JM; Xiao, DJ; <b>Atanasov, M</b> ; Long, GJ; Grandjean, F; Neese, F; Long, JR	Magnetic Blocking in a Linear Iron(I) Complex	Nature Chemistry, vol. 5, p. 577	2013	ИОНХ	375
81	Sforcin, JM; <b>Bankova, V</b>	Propolis: Is There a Potential for the Development of New Drugs?	Journal of Ethnopharmacology, vol. 133, p. 253	2011	ИОХЦФ	375
82	Cuddy, AJC; Amy JC; Fiske, ST; Kwan, VSY; Glick, P; Demoulin, S; Leyens, JP; Bond, MH; Croizet, JC; Ellemers, N; Sleebos, E; Htun, TT; Kim, HJ; Maio, G; Perry, J; <b>Petkova, K</b> ; <b>Todorov, V</b> ; Rodriguez-Bailon, R; Morales, E; Moya, M; Palacios, M; Smith, V; Perez, R; Vala, J; Ziegler, R	Stereotype Content Model Across Cultures: Towards Universal Similarities and Some Differences	British Journal of Social Psychology, Vol. 48, p. 1	2009	ИИОЗ	372
83	<b>Andreeva, D</b> ; <b>Idakiev, V</b> ; <b>Tabakova, T</b> ; <b>Ilieva, L</b> ; Falaras, P; Bourlinos, A; Travlos, A	Low-temperature Water-gas Shift Reaction over Au/CeO <sub>2</sub> Catalysts	Catalysis Today, vol. 72, p. 51	2002	ИК	370
84	<b>Bankova, V</b>	Chemical Diversity of Propolis and the Problem of Standardization	Journal of Ethnopharmacology, vol. 100, p. 114	2005	ИОХЦФ	368
85	Faulkner, KM; <b>Liochev, SI</b> ; Fridovich, I	Stable Mn(III) Porphyrins Mimic Superoxide Dismutase in Vitro and Substitute for It in Vivo	Journal of Biological Chemistry, vol. 269, p. 23471	1994	ИФРГ	362
86	<b>Yanishlieva, NV</b> ; <b>Marinova, EM</b> ; Gordon, MH; <b>Raneva, VG</b>	Antioxidant Activity and Mechanism of Action of Thymol and Carvacrol in Two Lipid Systems	Food Chemistry, vol. 64, p. 59	1999	ИОХЦФ	362
87	Albert, J. .... <b>Maneva, GT</b> ; <b>Temnikov, PT</b> ; <b>Vankov, HT</b> and 140 more	Variable Very High Energy $\gamma$ -Ray Emission from Markarian 501	Astrophysical Journal, vol. 669, p. 862	2007	ИЯИЯЕ	360
88	<b>Vassilev, SV</b> ; Baxter, D; Andersen, LK; <b>Vassileva, CG</b>	An Overview of the Composition and Application of Biomass Ash. Part 1. Phase-Mineral and Chemical Composition and Classification	Fuel, vol. 105, p. 13	2013	ИМК	359
89	Hirschi, M; Seneviratne, SI; <b>Alexandrov, V</b> ; Boberg, F; Boroneant, C; Christensen, OB; Formayer, H; Orłowski, B; Stepanek, P	Observational Evidence for Soil-moisture Impact on Hot Extremes in Southeastern Europe	Nature Geoscience, vol. 4, p. 17	2011	ИИКАВ, НИМХ	356
90	<b>Kashchiev, D.</b>	Solution of the Non-steady State Problem in Nucleation Kinetics	Surface Science, vol. 14, p. 209	1969	ИФХ	354
91	Arabatzis, IM; Stergiopoulos, T; <b>Andreeva, D</b> ; <b>Kitova, S</b> ; Neophytides, SG; Falaras, P	Characterization and Photocatalytic Activity of Au/TiO <sub>2</sub> Thin Films for Azo-dye Degradation	Journal of Catalysis, vol. 220, p. 127	2003	ИК, ИОМТ	354
92	Agostinelli, G; Delabie, A; <b>Vitanov, P</b> ; <b>Alexieva, B.</b> ; Dekkers, HFW; De Wolf, S; Beaucarne, G	Very Low Surface Recombination Velocities on p-Type Silicon Wafers Passivated with a Dielectric with Fixed Negative Charge	Solar Energy Materials and Solar Cells, Vol. 90, p. 3438	2006	ЦЛСЕНЕИ	354
93	Crossman, ND; Burkhard, B; <b>Nedkov, S</b> ; Willemsen, L; Petz, K; Palomo, I; Drakou, EG;	A Blueprint for Mapping and Modelling Ecosystem Services	Ecosystem Services, vol. 4, p. 4	2013	НИГТГ	353

	Martin-Lopez, B; McPhearson, T; <b>Boyanova, K;</b> Alkemade, R; Egoh, B; Dunbar, MB; Maes, J					
94	<b>Liochev, SI;</b> Fridovich, I	The Role of O <sub>2</sub> <sup>-</sup> in the Production of HO·: In-vitro and In-vivo	Free Radical Biology and Medicine, vol. 16, p. 29	1994	ИФРГ	352
95	Ryan, WBF; Pitman, WC; Major, CO; Shimkus, K; Moskalenko, V; Jones, GA; <b>Dimitrov, P;</b> Gorur, N; Sakinc, M; Yuce, H	An Abrupt Drowning of the Black Sea Shelf	Marine Geology, vol. 138, p. 119	1997	ИО	349
96	Zadrozny, JM; <b>Atanasov, M;</b> Bryan, AM; Lin, CY; Rekken, BD; Power, PP; Neese, F; Long, JR	Slow Magnetization Dynamics in a Series of Two-coordinate Iron(II) Complexes	Chemical Science, vol. 4, p. 125	2013	ИОНХ	349
97	<b>Kashchiev, D;</b> van Rosmalen, GM	Review: Nucleation in Solutions Revisited	Crystal Research and Technology, vol. 38, p. 555	2003	ИФХ	347
98	<b>Markov, IV</b>	Crystal Growth for Beginners: Fundamentals of Nucleation, Crystal Growth, and Epitaxy	Book, World Scientific, Singapore	2005	ИФХ	346
99	<b>Gatev, P;</b> Thomas, S; Kepple, T; Hallett, M	Feedforward Ankle Strategy of Balance During Quiet Stance in Adults	Journal of Physiology-London, vol. 514, p. 915	1999	ИФРГ	343
100	<b>Balarew, C; Duhlev, R</b>	Application of the Hard and Soft Acids and Bases Concept to Explain Ligand Coordination in Double Salt Structures	Journal of Solid State Chemistry, vol. 55, p. 1	1984	ИОНХ	343
101	<b>Karakashev, D;</b> Batstone, DJ; Angelidaki, I	Influence of Environmental Conditions on Methanogenic Compositions in Anaerobic Biogas Reactors	Applied and Environmental Microbiology, vol. 71, p. 331	2005	ИМБ	339
102	<b>Bankova, V</b>	Recent Trends and Important Developments in Propolis Research	Evidence-Based Complementary and Alternative Medicine, vol. 2, p. 29	2005	ИОХЦФ	338
103	<b>Budevski, E; Staikov, G;</b> Lorenz, WJ	Electrocrystallization Nucleation and Growth Phenomena	Electrochimica Acta, vol. 45, p. 2559	2000	ИЕЕС	336
104	Albert, J. .... <b>Temnikov, P; Vankov, HV</b> and 146 more	Very-high-energy $\gamma$ -Rays from a Distant Quasar: How Transparent is the Universe?	Science, vol. 320, p. 1752	2008	ИЯИЯЕ	335
105	Khachatryan, V .... <b>Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vankov, I</b> and 2389 more	Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV	Physical Review Letters, vol. 106, art. No 122003	2011	ИЯИЯЕ	334
106	<b>Rashkov, I; Manolova, N;</b> Li, SM; Espartero, JL; Vert, M.	Synthesis, Characterization, and Hydrolytic Degradation of PLA/PEO/PLA Triblock Copolymers with Short Poly(l-lactic acid) Chains	Macromolecules, vol. 29, p. 50	1996	ИП	325

107	Chatrchyan, S .... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M</b> and 2193 more	Multiplicity and Transverse Momentum Dependence of Two- and Four-particle Correlations in pPb and PbPb Collisions	Physics Letters B, vol. 724, p. 213	2013	ИЯИЯЕ	319
108	Khachatryan, V .... <b>Aleksandrov, A; Genchev, V; Hadjiiska, R; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M</b> and 2463 more	Performance of Electron Reconstruction and Selection with the CMS Detector in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV	Journal of Instrumentation, vol. 10, art. No P06005	2015	ИЯИЯЕ	319
109	Albert, J. ... <b>Maneva, G; Jemnikov, P; Vankov, K</b> and 144 more	Variable Very-high-energy Gamma-ray Emission from the Microquasar LS I + 61 303	Science, vol. 312, p. 1771	2006	ИЯИЯЕ	313
110	Lohr, D; <b>Venkov, P; Zlatanova, J</b>	Transcriptional Regulation in the Yeast Gal Gene Family - a Complex Genetic Network	FASEB Journal, vol. 9, p. 777	1995	ИМБ, ИФРГ	309
111	Khachatryan, V .... <b>Aleksandrov, A; Hadjiiska, R; Iaydjiev, S; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M</b> and 2261 more	Event Generator tunes Obtained from Underlying Event and Multiparton Scattering Measurements	European Physical Journal C, vol. 76, art. No 155	2016	ИЯИЯЕ	309
112	<b>Dozov, I</b>	On the Spontaneous Symmetry Breaking in the Mesophases of Achiral Banana-Shaped Molecules	Europhysics Letters, vol. 56, p. 247	2001	ИФТТ	306
113	Li, SM; <b>Rashkov, I;</b> Espartero, JL; <b>Manolova, N;</b> Vert, M.	Synthesis, Characterization, and Hydrolytic Degradation of PLA/PEO/PLA Triblock Copolymers with Long Poly(L-lactic acid) Blocks	Macromolecules, vol. 29, p. 57	1996	ИП	303
114	<b>Krantev, A; Yordanova, R;</b> Janda, T; Szalai, G; <b>Popova, L</b>	Treatment with Salicylic Acid Decreases the Effect of Cadmium on Photosynthesis in Maize Plants	Journal of Plant Physiology, vol. 165, p. 920	2008	ИФРГ	301
115	<b>Kashchiev, D</b>	On the Relation Between Nucleation Work, Nucleus Size, and Nucleation Rate	Journal of Chemical Physics, vol. 76, p. 5098	1982	ИФХ	300
116	Marcucci, MC; Ferreres, F; Garcia-Viguera, C; <b>Bankova, VS;</b> De Castro, SL; Dantas, AP; Valente, PHM; Paulino, N	Phenolic Compounds from Brazilian Propolis with Pharmacological Activities	Journal of Ethnopharmacology, vol. 74, p. 105	2001	ИОХЦФ	300
117	Mohapatra, RN; Antusch, S; Babu, KS; Barenboim, G; Chen, MC; de Gouvea, A; de Holanda, P; Dutta, B; Grossman, Y; Joshipura, A; Kayser, B; Kersten, J; Keum, YY; King, SF; Langacker, P; Lindner, M; Loinaz, W; Masina, I; Mocioiu, I; Mohanty, S; Murayama, H; Pascoli, S; <b>Petcov, ST;</b> Pilaftsis, A.; Ramond, P.; Ratz, M.; Rodejohann, W.; Shrock, R.; Takeuchi, T.; Underwood, T.; Wolfenstein, L.	Theory of Neutrinos: a White Paper	Reports on Progress in Physics, vol. 70, p. 1757	2007	ИЯИЯЕ	299

118	Sforcin, JM; Fernandes, A; Lopes, CAM; <b>Bankova, V</b> ; Funari, SRC	Seasonal Effect on Brazilian Propolis Antibacterial Activity	Journal of Ethnopharmacology, vol. 73, p. 243	2000	ИОХЦФ	299
119	Hamelin, A; <b>Vitanov, T</b> ; Sevastyanov, E; <b>Popov, A</b>	The Electrochemical Double-Layer on sp Metal Single-Crystals – the Current Status of Data	Journal of Electroanalytical Chemistry, vol. 145, p. 225	1983	ИЕЕС	297
120	Kortelainen, M; Lesinski, T; More, J; Nazarewicz, W; Sarich, J; Schunck, N; <b>Stoitsov, MV</b> ; Wild, S	Nuclear Energy Density Optimization	Physical Review C, vol. 82, art. 024313	2010	ИЯИЯЕ	296
121	<b>Kagan, V</b> ; <b>Serbinova, E</b> ; <b>Packer, L</b>	Antioxidant Effects of Ubiquinones in Microsomes and Mitochondria are Mediated by Tocopherol Recycling	Biochemical & Biophysical Research Communications, vol. 169, p. 851	1990	ИФРГ	295
122	<b>Atanassov, KT</b>	On Intuitionistic Fuzzy Sets Theory	Book, Springer.	2012	ИББИ	294
123	Boulatov, DV; Kazakov, VA; <b>Kostov, IK</b> ; Migdal, AA	Analytical and Numerical Study of a Model of Dynamically Triangulated Random Surfaces	Nuclear Physics B, vol. 275, p. 641	1986	ИЯИЯЕ	294
124	Podobnik, B; Grosse, I; Horvatic, D; Ilic, S; <b>Ivanov, PC</b> ; Stanley, HE	Quantifying Cross-correlations Using Local and Global Detrending Approaches	European Physical Journal B, vol. 71, p. 243	2009	ИФТТ	294
125	Ayvazyan, V .... <b>Tsakov, I</b> and 126 more	First Operation of a Free-electron Laser Generating GW Power Radiation at 32 nm Wavelength	European Physical Journal D, vol. 37, p. 297	2006	ИЯИЯЕ	292
126	<b>Kiskinova, M</b> ; Goodman, D	Modification of Chemisorption Properties by Electronegative Adatoms – H <sub>2</sub> and CO on Chlorided, Sulfided, and Phosphided Ni(100) Surface	Surface Science, vol. 108, p. 64	1981	ИОНХ	290
127	<b>Petcov, ST</b>	On Pseudo-Dirac Neutrinos, Neutrino Oscillations and Neutrinoless Double Beta-Decay	Physics Letters B, vol. 110, p. 245	1982	ИЯИЯЕ	285
128	<b>Markov, IV</b>	Crystal Growth for Beginners	Book, World Scientific, New York	1995	ИФХ	283
129	<b>Stoeva, S</b> ; Klabunde, KJ; Sorensen, CM; <b>Dragieva, I</b>	Gram-scale Synthesis of Monodisperse Gold Colloids by the Solvated Metal Atom Dispersion Method and Digestive Ripening and Their Organization into Two- and Three-dimensional Structures	Journal of the American Chemical Society, vol. 124, p. 2305	2002	ИЕЕС	281
130	<b>Damyanova, S</b> ; Perez, CA; Schmal, M; Bueno, JMC	Characterization of Ceria-Coated Alumina Carrier	Applied Catalysis A-General, vol. 234, p. 271	2002	ИК	281
131	Adriani, O; .... <b>Antonov, L</b> ; <b>Betev, BL</b> ; <b>Dimitrov HR</b> ; <b>Krastev, VR</b> and 475 more	Results From the L3 Experiment at LEP	Physics Reports-Review Section of Physics Letters, vol. 236, p. 1	1993	ИМех	279
132	Alt, C ..... <b>Genchev, V</b> and 97 more	Pion and Kaon Production in Central Pb plus Pb Collisions at 20A and 30A GeV: Evidence for the Onset of Deconfinement	Physical Review C, vol. 77, art. 024903	2008	ИЯИЯЕ	279

133	Dolgov, AD; Hansen, SH; Pastor, S; <b>Petcov, ST</b> ; Raffelt, GG; Semikoz, DV	Cosmological Bounds on Neutrino Degeneracy Improved by Flavor Oscillations	Nuclear Physics B, vol. 632, p. 363	2002	ИЯИЯЕ	278
134	Dicheva, D; Dichev, C; <b>Agre, G; Angelova, G</b>	Gamification in Education: A Systematic Mapping Study	Educational Technology & Society, vol 18, p. 75	2015	ИИКТ	278
135	<b>Altankov, G</b> ; Grinnell, F; Groth, T	Studies on the Biocompatibility of Materials: Fibroblast Reorganization of Substratum-bound Fibronectin on Surfaces Varying in Wettability	Journal of Biomedical Materials Research, vol. 30, p. 385	1996	ИББИ	276
136	<b>Manova, K</b> ; Huang, EJ; Angeles, M; Deleon, V; Sanchez, S; Pronovost, SM; Besmer, P; Bachvarova, RF	The Expression Pattern of the C-Kit Ligand in Gonads of Mice Supports a Role for the C-Kit Receptor in Oocyte Growth and in Proliferation of Spermatogonia	Developmental Biology, vol. 157, p. 85	1993	ИЕМПАМ	275
137	Oxtoby, DW, <b>Kashchiev, D</b>	A General Relation Between the Nucleation Work and the Size of the Nucleus in Multicomponent Nucleation	Journal of Chemical Physics, vol. 100, p. 7665	1994	ИФХ	275
138	Akkoyun, S. ... <b>Balabanski, DL; Detistov, P; Petkov, P; Stefanova, E</b> and 349 more	AGATA-Advanced GAMMA Tracking Array	Nuclear Instruments & Methods in Physics Research Section A - Accelerators Spectrometers Detectors and Associated Equipment, vol. 668, p. 26	2012	ИЯИЯЕ	275
139	<b>Nikolova, L; Todorov, T</b>	Diffraction Efficiency and Selectivity of Polarization Holographic Recording	Optica Acta, vol. 31, p. 579	1984	ИОМТ	274
140	Khachatryan, V ... <b>Aleksandrov, A; Genchev, V; Hadjiiska, R; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M</b> and 2819 more	Observation of the Rare $B_s^0 \rightarrow \mu^+ \mu^-$ Decay from the Combined Analysis of CMS and LHCb Data	Nature, vol. 522, p. 68	2015	ИЯИЯЕ	274
141	Sirunyan, A. M .... <b>Aleksandrov, A.; Hadjiiska, R.; Iaydjiev, P.; Rodozov, M; Stoykova, S.; Sultanov, G.; Vutova, M.</b> and 1997 more	Particle-flow Reconstruction and Global Event Description with the CMS Detector	Journal of Instrumentation, vol. 12, art. No P10003	2017	ИЯИЯЕ	273
142	Chatrchyan, S. .... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M</b> and 2264 more	Study of High- $p_T$ Charged Particle Suppression in PbPb Compared to pp Collisions at $\sqrt{s_{NN}} = 2.76$ TeV	European Physical Journal C, vol. 72, art. No 1945	2012	ИЯИЯЕ	271
143	Bashan, A; Bartsch, RP; Kantelhardt, JW; Havlin, S; <b>Ivanov, PC</b>	Network Physiology Reveals Relations between Network Topology and Physiological Function	Nature Communications, Vol. 3, art. No 702	2012	ИФТТ	271
144	Ros, R. M .... <b>Ganeva, A</b> and 31 more	Mosses of the Mediterranean, an Annotated Checklist	Cryptogamie Bryologie, vol. 34, p. 99	2013	ИББИ	271

145	Ros, G. ... <b>Ganeva, A</b> and 24 more	Hepatics and Anthocerotes of the Mediterranean, an Annotated Checklist	Cryptogamie Bryologie, vol. 28, p. 351	2007	ИБЕИ	269
146	<b>Christov, CV</b> ; Blotz, A; Kim, HC; Pobylytsa, P; Watabe, T; Meissner, T; Arriola, ER; Goeke, K	Baryons as Non-topological Chiral Solitons	Progress in Particle and Nuclear Physics, vol. 37, p. 91	1996	ИЯИЯЕ	268
147	<b>Yanishlieva, NV</b> ; <b>Marinova, E</b> ; Pokorny, J	Natural Antioxidants from Herbs and Spices	European Journal of Lipid Science and Technology, vol. 108, p. 776	2006	ИОХЦФ	268
148	Chatrchyan, S; .... <b>Genchev V.</b> ; <b>Iaydjiev, P.</b> ; <b>Piperov, S.</b> ; <b>Rodozov, M.</b> ; <b>Stoykova, S.</b> ; <b>Sultanov, G.</b> ; <b>Tcholakov, V.</b> ; <b>Trayanov, R.</b> ; <b>Vutova M.</b> and 2201 more	Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs	Physical Review Letters, vol. 110, pap. 081803	2013	ИЯИЯЕ	267
149	Khachatryan, V .... <b>Aleksandrov, A</b> ; <b>Genchev, V</b> ; <b>Iaydjiev, P</b> ; <b>Marinov, A</b> ; <b>Piperov, S</b> ; <b>Rodozov, M</b> ; <b>Sultanov, G</b> ; <b>Vutova, M</b> and 2132 more	Search for Dark Matter, Extra Dimensions, and Unparticles in Monojet Events in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV	European Physical Journal C, vol. 75, art. No UNSP 235	2015	ИЯИЯЕ	265
150	Navrátil, P; <b>Gueorguiev, VG</b> ; Vary, JP; Ormand, WE; Nogga, A	Structure of A = 10-13 Nuclei with Two- Plus Three-nucleon Interactions from Chiral Effective Field Theory	Physical Review Letters, vol. 99, art. 042501	2007	ИЯИЯЕ	264
151	<b>Dimitrova, NA</b> ; <b>Dimitrov, GV</b>	Interpretation of EMG Changes with Fatigue: Facts, Pitfalls, and Fallacies	Journal of Electromyography and Kinesiology, vol. 13, p. 13	2003	ИББИ	262
152	Khachatryan, V... <b>Aleksandrov, A</b> ; <b>Genchev, V</b> ; <b>Iaydjiev, P</b> ; <b>Marinov, A</b> ; <b>Piperov, S</b> ; <b>Rodozov, M</b> ; <b>Sultanov, G</b> ; <b>Vutova, M</b> and 2117 more.	Observation of the diphoton decay of the Higgs boson and measurement of its properties	European Physical Journal C, vol. 74, art. No 3076	2014	ИЯИЯЕ	260
153	<b>Demirevska-Kepova, K</b> ; <b>Simova-Stoilova, L</b> ; <b>Stoyanova, Z</b> ; Holzer, R; Feller, U	Biochemical Changes in Barley Plants after Excessive Supply of Copper and Manganese	Environmental and Experimental Botany, vol. 52, p. 253	2004	ИФРГ	259
154	Raidal, M .... <b>Petcov, ST</b> and 88 more	Flavor Physics of Leptons and Dipole Moments	European Physical Journal C, vol. 57, p. 13	2008	ИЯИЯЕ	257
155	Masson, O .... <b>Penev, I</b> and 80 more	Tracking of Airborne Radionuclides from the Damaged Fukushima Dai-Ichi Nuclear Reactors by European Networks	Environmental Science & Technology, vol. 45, p. 7670	2011	ИЯИЯЕ	256
156	Constantin, A; <b>Gerdjikov, VS</b> ; <b>Ivanov, RI</b>	Inverse Scattering Transform for the Camassa-Holm Equation	Inverse Problems, vol. 22, p. 2197	2006	ИЯИЯЕ	256
157	Lagoudas, D; Hartl, D; Chemisky, Y; Machado, L; <b>Popov, P</b>	Constitutive Model for the Numerical Analysis of Phase Transformation in Polycrystalline Shape Memory Alloys	International Journal of Plasticity, vol. 32-33, p. 155	2012	ИИКТ	256

158	Khachatryan, V ..... <b>Aleksandrov, A; Hadjiiska, R; Iaydjiev, P; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M</b> and 2443 more	The CMS Trigger System	Journal of Instrumentation, vol. 12, art. No P010120	2017	ИЯИЯЕ	256
159	<b>Dobrev, VK; Petkova, VB</b>	All Positive Energy Unitary Irreducible Representations of Extended Conformal Supersymmetry	Physics Letters B, vol. 162, p. 127	1985	ИЯИЯЕ	253
160	<b>Zhelev, DV</b> ; Needham, D	Tension-Stabilized Pores in Giant Vesicles - Determination of Pore-Size and Pore Line Tension	Biochimica et Biophysica Acta, vol. 1147, p. 89	1993	ИББИ	252
161	<b>Atanassov, K</b> ; Pasi, G; Yager, R	Intuitionistic Fuzzy Interpretations of Multi-Criteria Multi-Person and Multi-Measurement Tool Decision Making	International Journal of Systems Science, vol. 36, p. 859	2005	ИББИ	252
162	<b>Ignatova, M; Starbova, K; Markova, N; Manolova, N; Rashkov, I</b>	Electrospun Nano-fibre Mats with Antibacterial Properties from Quaternised Chitosan and Poly(vinyl alcohol)	Carbohydrate Research, vol. 341, p. 2098	2006	ИП ИОМТ ИМБ	252
163	Cai, Z; <b>Lazarov, R</b> ; Manteuffel, TA; McCormick, SF	First-order System Least-Squares for Second-order Partial-Differential Equations 1.	Siam Journal on Numerical Analysis, vol. 31, p. 1785	1994	ИМИ	250
164	<b>Georgiev, OI; Nikolaev, N; Hadjiolov, AA</b> ; Skryabin, KG, Zakharyev, VM, Bayev, AA	The Structure of the Yeast Ribosomal-RNA Genes 4. Complete Sequence of the 25-S-RRNA Gene from Saccharomyces Cerevisiae	Nucleic Acids Research, vol. 9, p. 6953	1981	ИМБ	250
165	Liu, CJ; <b>Vissokov, GP</b> ; Jang, BWL	Catalyst Preparation using Plasma Technologies	Catalysis Today, vol. 72, p. 173	2002	ИЕ	250
166	Rotach, MW; Vogt, R; Bernhofer, C; <b>Batchvarova, E</b> ; Christen, A; Clappier, A; Feddersen, B; Gryning, SE; Martucci, G; Mayer, H; Mitev, V; Oke, TR; Parlow, E; Richner, H; Roth, M; Roulet, YA; Ruffieux, D; Salmond, JA; Schatzmann, M; Voogt, JA	BUBBLE - An Urban Boundary Layer Meteorology Project	Theoretical and Applied Climatology, vol. 81, p. 231	2005	ИИКАВ, НИМХ	250
167	Basu, P; <b>Panayotov, D</b> ; Yates, JT.	Rhodium - Carbon Monoxide Surface Chemistry - The Involvement of Surface Hydroxyl Groups on Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> Supports	Journal of the American Chemical Society, vol. 110, p. 2074	1988	ИОНХ	249
168	Chatrchyan, S. ... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M</b> and 2210 more	Measurement of the B <sub>s</sub> <sup>0</sup> μ <sup>+</sup> μ <sup>-</sup> Branching Fraction and Search for B <sup>0</sup> μ <sup>+</sup> μ <sup>-</sup> with the CMS Experiment	Physical Review Letters, vol. 111, art. 101804	2013	ИЯИЯЕ	247
169	<b>Vassilev, SV</b> ; Kitano, K; Takeda, S; Tsurue, T	Influence of Mineral and Chemical-Composition of Coal Ashes on Their Fusibility	Fuel Processing Technology, vol. 45, p. 27	1995	ИМК	243

170	<b>Atanassova, N;</b> McKinnell, C; Turner, KJ; Walker, M; Fisher, JS; Morley, M; Millar, MR; Groome, NP; Sharpe, RM	Comparative Effects of Neonatal Exposure of Male Rats to Potent and Weak (Environmental) Estrogens on Spermatogenesis at Puberty and the Relationship to Adult Testis Size and Fertility: Evidence for Stimulatory Effects of Low Estrogen Levels	Endocrinology, vol. 141, p. 3898	2000	ИЕМПАМ	242
171	<b>Koprinska, I;</b> Carrato, S.	Temporal Video Segmentation: A Survey	Signal Processing: Image Communication, vol. 16, p. 477	2001	ИИКТ	241
172	Abramowicz, H; .... <b>Tsakov, I</b> and 291 more	Combination of Measurements of Inclusive Deep Inelastic e <sup>±</sup> p Scattering Cross Sections and QCD Analysis of HERA Data	European Physical Journal C, vol. 75, art. No 580	2015	ИЯИЯЕ	241
173	<b>Todorov, IT</b>	Quasipotential Equation Corresponding to the Relativistic Eikonal Approximation	Physical Review D, vol. 3, p. 2351	1971	ИФТТ	237
174	<b>Georgiev, MI; Pavlov, AI;</b> Bley	Hairy Root Type Plant In Vitro Systems as Sources of Bioactive Substances	Applied Microbiology and Biotechnology, Vol. 74, p. 1175	2007	ИМБ	235
175	Aad, G ... <b>Shiyakova, M</b> and 2842 more	Muon Reconstruction Performance of the ATLAS Detector in Proton-proton Collision Data at $\sqrt{s} = 13$ TeV	European Physical Journal C, vol. 76, art. No 292	2016	ИЯИЯЕ	234
176	Schael, S ... <b>Shivarov, N; Stoyanov, B; Sultanov, G</b> and 998 more	Electroweak Measurements in Electron Positron Collisions at W-boson-pair Energies at LEP	Physics Reports - Review Section of Physics Letters, vol. 532, p. 119	2013	ИЯИЯЕ	234
177	<b>Antchev, G.</b> and 73 more	First Measurement of the Total Proton-proton Cross-section at the LHC Energy of $\sqrt{s} = 7$ TeV	EPL, vol. 96, art. No 21002	2011	ИЯИЯЕ	233
178	Meleard, P; Gerbeaud, C; Pott, T; Fernandez Puente, L; <b>Bivas, I; Mitov, MD;</b> Dufourcq, J; Bothorel, P	Bending Elasticities of Model Membranes: Influences of Temperature and Sterol Content	Biophysical Journal, vol. 72, p. 2616	1997	ИФТТ	232
179	Pujol, MC; Rico, M; Zaldo, C; Sole, R; <b>Nikolov, V;</b> Solans, X; Aguilo, M; Diaz, F	Crystalline Structure and Optical Spectroscopy of Er <sup>3+</sup> -doped KGd(WO <sub>4</sub> ) <sub>2</sub> Single Crystals	Applied Physics B-Lasers and Optics, vol. 68, p. 187	1999	ИОНХ	231
180	Chatrchyan, S... <b>Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M</b> and 2387 more	Description and Performance of Track and Primary-vertex Reconstruction with the CMS Tracker	Journal of Instrumentation vol. 9 art. No P10009	2014	ИЯИЯЕ	230
181	Albert, J; .... <b>Maneva, G; Temnikov, P. Vankov, H</b> and 139 more	VHE $\gamma$ -ray Observation of the Crab Nebula and its Pulsar with the MAGIC Telescope	Astrophysical Journal, vol. 674, p. 1037	2008	ИЯИЯЕ	229
182	Price, GL; <b>Kanazirev, V</b>	Ga <sub>2</sub> O <sub>3</sub> /HZSM-5 Propane Aromatization Catalysts - Formation of Active Centers via Solid-State Reaction	Journal of Catalysis, vol. 126, p. 267	1990	ИОХЦФ	228

183	Khachatryan, V ... <b>Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Stoykova, S; Sultanov, G; Trayanov, R.; Vankov, I.</b> and 2061 more	Transverse-momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at $\sqrt{s} = 0.9$ and 2.36 Te	Journal of High Energy Physics, art. No 041	2010	ИЯИЯЕ	228
184	<b>Hadjiivanov, K;</b> Saussey, J; Freysz, JL; Lavalley, JC	FT-IR study of NO + O <sub>2</sub> Coadsorption on H-ZSM-5: Reassignment of the 2133 cm <sup>-1</sup> Band to NO <sup>+</sup> Species	Catalysis Letters, vol. 52 p. 103	1998	ИОНХ	227
185	Holopainen, JM; <b>Angelova, MI;</b> Kinnunen, PKJ	Vectorial Budding of Vesicles by Asymmetrical Enzymatic Formation of Ceramide in Giant Liposomes	Biophysical Journal, vol. 78, p. 830	2000	ИББИ	227
186	Faucon, JF; <b>Mitov, MD;</b> Meleard, P; <b>Bivas, I;</b> Bothorel, P	Bending Elasticity and Thermal Fluctuations of Lipid-Membranes - Theoretical and Experimental Requirements	Journal de Physique, vol. 50, p. 2389	1989	ИФТТ	226
187	Aaboud, M.; M. <b>Shiyakova, M</b> and 2853 more	Luminosity Determination in pp Collisions at $\sqrt{s} = 8$ TeV using the ATLAS Detector at the LHC	European Physical Journal C, vol. 76, p. 653	2016	ИЯИЯЕ	226
188	Aartsenm MG ... <b>Minev, N.; Manevam G.; Makariev, M.; Temnikov, P.</b> and 1033 more	Multimessenger Observations of a Flaring Blazar Coincident with High-energy Neutrino IceCube-170922A	Science, vol. 361, art. No eaat1378	2018		225
189	Abrashev, MV; Litvinchuk, AP; Iliev, MN; Meng, RL; Popov, VN; Ivanov, VG; <b>Chakalov, RA;</b> Thomsen, C	Comparative Study of Optical Phonons in the Rhombohedrally Distorted Perovskites LaAlO <sub>3</sub> and LaMnO <sub>3</sub>	Physical Review B, vol. 59, p. 4146	1999	ИЕ	224
190	<b>Grigorova, M;</b> Blythe, HJ; <b>Blaskov, V; Rusanov, V; Petkov, V; Masheva, V; Nihtianova, D;</b> Martinez, LM; Munoz, JS; <b>Mikhov, M</b>	Magnetic Properties and Moessbauer Spectra of Nanosized CoFe <sub>2</sub> O <sub>4</sub> Powders	Journal of Magnetism and Magnetic Materials, vol. 183, p. 163	1998	ИОНХ, ИМК	224
191	De Rybel, D; <b>Vassileva, V</b> and 19 more	A Novel Aux/IAA28 Signaling Cascade Activates GATA23-Dependent Specification of Lateral Root Founder Cell Identity	Current Biology, vol. 20, p. 1697	2010	ИФРГ	224
192	Chatrchyan, S. ... <b>Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M</b> and 2222 more	Evidence for the 125 GeV Higgs Boson Decaying to a Pair of $\tau$ Leptons	Journal of High Energy Physics, art. No 104	2014	ИЯИЯЕ	223
193	Kashchiev, D.; Firoozabadi, A	Induction Time in Crystallization of Gas Hydrates	Journal of Crystal Growth, vol. 250, p. 499	2003	ИФХ	223
194	Chatrchyan, S .... <b>Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M</b> and 2215 more	Search for Top-squark Pair Production in the Single-lepton Final State in pp Collisions at $\sqrt{S} = 8$ TeV	European Physical Journal C, vol. 73, art. No UNSP 2677	2013	ИЯИЯЕ	222
195	<b>Atanassova, N;</b> McKinnell, C; Walker, M; Turner, KJ; Fisher, JS; Morley, M; Millar, MR; Groome, NP; Sharpe, RM	Permanent Effects of Neonatal Estrogen Exposure in Rats on Reproductive Hormone	Endocrinology, vol. 140, p. 5364	1999	ИЕМПАМ	222

		Levels, Sertoli Cell Number, and the Efficiency of Spermatogenesis in Adulthood				
196	Angelova, A; <b>Angelov, B; Mutafchieva, R;</b> Lesieur, S; Couvreur, P	Self-Assembled Multicompartiment Liquid Crystalline Lipid Carriers for Protein, Peptide, and Nucleic Acid Drug Delivery	Accounts of Chemical Research, vol, 44 p. 147	2011	ИББИ	222
197	Judd, AG; Hovland, M; <b>Dimitrov, LI;</b> Garcia-Gil, S; Jukes, V	The Geological Methane Budget at Continental Margins and its Influence on Climate Change	Geofluids, vol. 2, p. 109	2002	ИО	221
198	Aktas, A .... <b>Mladenov, D; Nankov, K; Stoilov, A; Tsakov, I</b> and 289 more	Measurement and QCD Analysis of the Diffractive Deep-inelastic Scattering Cross Section at HERA	European Physical Journal C, vol. 48, p. 715	2006	ИЯИЯЕ	221
199	Bürger, H; Kneipp, K; Hobert, H; Vogel, W; Kozhukharov, V; <b>Neov, S</b>	Glass Formation, Properties and Structure of Glasses in the TeO <sub>2</sub> /ZnO System	Journal of Non-Crystalline Solids, vol. 151, p. 134	1992	ИЯИЯЕ	219
200	<b>Savova, D;</b> Apak, E; Ekinci, E; Yardim, F; Petrov, N; <b>Budinova, T; Razvigorova, M; Minkova, V</b>	Biomass Conversion to Carbon Adsorbents and Gas	Biomass & Bioenergy, vol. 21, p. 133	2001	ИОХЦФ	219
201	<b>Andreeva, D; Idakiev, V; Tabakova, T; Andreev, A</b>	Low-temperature Water-gas Shift Reaction over Au/ $\alpha$ -Fe <sub>2</sub> O <sub>3</sub>	Journal of Catalysis, vol. 158, p. 354	1996	ИК	218
202	<b>Tabakova, T;</b> Boccuzzi, FB; Manzoli, M; <b>Andreeva, D</b>	FTIR Study of Low-temperature Water-gas Shift Reaction on Gold/Ceria Catalyst	Applied Catalysis A-General, vol. 252, p. 385	2003	ИК	218
203	<b>Zhecheva, E; Stoyanova, R</b>	Stabilization of the Layered Crystal-Structure of LiNiO <sub>2</sub> by Co-Substitution	Solid State Ionics, vol. 66, p. 143	1993	ИОНХ	218
204	Guzzo, MM; Masiero, A; <b>Petcov, ST</b>	On the MSW Effect with Massless Neutrinos and no Mixing in the Vacuum	Physics Letters B, vol. 260, p. 154	1991	ИЯИЯЕ	218
205	<b>Stoitsov, MV;</b> Dobaczewski, J; Nazarewicz, W; Pittel, S; Dean, DJ	Systematic Study of Deformed Nuclei at the Drip Lines and Beyond	Physical Review C, vol. 68, art. 054312	2003	ИЯИЯЕ	218
206	<b>Vassilev, SV; Vassileva, CG</b>	A New Approach for the Classification of Coal Fly Ashes Based on Their Origin, Composition, Properties, and Behaviour	Fuel, vol. 86, p. 1490	2007	ИМК	218
207	<b>Tzolov, M; Tzenov, N; Dimova-Malinovska, D; Kalitzova, M;</b> Pizzuto, C; Vitali, G; Zollo, G; Ivanov, I	Vibrational Properties and Structure of Undoped and Al-doped ZnO Films Deposited by RF Magnetron Sputtering	Thin Solid Films, vol. 379, p. 28	2000	ЦЛСЕНЕИ, ИФТТ	213
208	Khachatryan, V.... <b>Aleksandrov, A; Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M</b> and 2132 more	Searches for Electroweak Production of Charginos, Neutralinos, and Sleptons Decaying to Leptons and W, Z, and Higgs Bosons in pp Collisions at 8 TeV	European Physical Journal C, vol. 74, art. No 3036	2014	ИЯИЯЕ	212
209	<b>Damyanova, S;</b> Bueno, JMC	Effect of CeO <sub>2</sub> Loading on the Surface and Catalytic Behaviors of CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -supported Pt Catalysts	Applied Catalysis A - General, vol. 253, p. 135	2003	ИК	212

210	<b>Lahtchev, KL; Batovska, DI ; Parushev, SP;</b> Ubiyvovk, VM; Sibirny, AA	Antifungal Activity of Chalcones: A Mechanistic Study Using Various Yeast Strains	European Journal of Medicinal Chemistry, vol. 43, p. 2220	2008	ИМБ ИОХЦФ	212
211	<b>Kolev, TM; Velcheva, EA; Stamboliyska, BA;</b> Spiteller, M	DFT and Experimental Studies of the Structure and Vibrational Spectra of Curcumin	International Journal of Quantum Chemistry, vol. 102, p. 1069	2005	ИОХЦФ	211

ИАНАО - Институт по астрономия с Национална астрономическа обсерватория

ИББИ - Институт по биофизика и биомедицинско инженерство

обединява Института по биофизика и Централна лаборатория по биомедицинско инженерство

ИБЕИ - Институт по биоразнообразие и екосистемни изследвания

обединява Институт по зоология, Институт по ботаника и Централна лаборатория по обща екология

ИЕ - Институт по електроника

ИЕЕС - Институт по електрохимия и енергийни системи "Акад. Евгени Будевски"

Преди - Централна лаборатория по електрохимични източници на ток

ИЕМПАМ - Институт по експериментална морфология, патология и антропология с музей

ИИКТ - Институт по информационни и комуникационни технологии

обединява Институт по паралелна обработка на информацията, Институт по информационни технологии и Институт по компютърни и комуникационни системи

ИИКАВ - Институт за изследване на климата, атмосферата и водите

ИИОЗ - Институтът за изследвания на обществата и знанието, Institute for the Study of Societies and Knowledge (ISSK)

обединява Института за философски изследвания, Института по социология и Центъра по наукознание и история на науката

ИК - Институт по катализ

ИМБ - Институт по микробиология „Стефан Ангелов”

ИМБ - Институт по молекулярна биология "Акад. Румен Цанев"

ИМех - Институт по механика

ИМИ - Институт по математика и информатика

ИМК - Институт по минералогия и кристалография „Акад. Ив. Костав”

ИО - Институт по океанология

ИОМТ - Институт по оптически материали и технологии “Акад. Йордан Малиновски”

обединява Централната лаборатория по фотопроекти и Централната лаборатория по оптичен запис и обработка на информация

ИОНХ - Институт по обща и неорганична химия

ИОХЦФ - Институт по органична химия с Център по фитохимия

ИП - Институт по полимери

ИР - Институт по роботика

обединява Институт по управление и системни изследвания и Централна лаборатория по мехатроника и приборостроене

ИФРГ - Институт по физиология на растенията и генетика

обединява Институт по физиология на растенията и Институт по по генетика

ИФТТ - Институт по физика на твърдото тяло

ИФХ - Институт по физикохимия "Акад. Ростислав Каишев"

ИЯИЯЕ - Институт за ядрени изследвания и ядрена енергетика

НИГГГ - Национален институт по геофизика, геодезия и география

НИМХ - Национален институт по метеорология и хидрология

ЦЛСЕНЕИ - Централна лаборатория по слънчева енергия и нови енергийни източници