Н-индексът на Българската академия на науките е 245

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 09.10.2023 е 245. За сравнение, Н-индексът на България е около 330. 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, като всеки от тях е цитиран поне 245 пъти. 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. 65 от статиите са публикувани в резултат на широко международно сътрудничество и са с повече от 100 автора, като в тези случаи не са изписани имената на всички съавтори.

№	Автори	Заглавие	Списание, том, стр.	Година	Институт	Цити-рания
1	**Atanassov, KT**	Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 20, p. 86	1987	ИББИ	10301
2	Olive, KA; …. **Petcov, ST** and 207 more	Review of Particle Physics, Particle Data Group	Chinese Physics C., vol. 38, Art. UNSP 090001	2014	ИЯИЯЕ	6079
3	Beringer, J; ..... **Petcov, ST** and 190 more	Review of Particle Physics, Particle Data Group	Physical Review D, vol. 86, art. No 010001	2012	ИЯИЯЕ	5863
4	Nakamura, K; ..... **Petcov, ST** and 177 more	Review of Particle Physics	Journal of Physics G-Nuclear and Particle Physics, vol. 37, art No 075021	2010	ИЯИЯЕ	4676
5	Patrignani, C …. **Petcov, ST** and 225 more	Review of Particle Physics Particle Data Group	Chinese Physics C, vol. 40, art. UNSP 100001	2016	ИЯИЯЕ	4508
6	Tanabashi, M .... **Petcov, ST** and 229 more	Review of Particle Physics. Particle Data Group	Physical Review D, vol. 98, art. No 030001	2018	ИЯИЯЕ	4226
7	Chatrchyan, S; … **Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, B; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vankov, I; Vutova, M** and 2879 more	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC	Physics Letters B, 716 (1): 30-61	2012	ИЯИЯЕ	3402

8	Chatrchyan, S …. **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** and 3085 more	The CMS Experiment at the CERN LHC	Journal of Instrumentation vol. 3, art. S08004	2008	ИЯИЯЕ, ИР	3389
9	**Velikova, V.; Yordanov, I.; Edreva, A**	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	3330
10	Zyla, PA, ... Petcov, ST and 240 more	Review of Paticle Physics	Progress of Theoretical and experimantal physics, vol. 8, art. No 083C01	2020	ИЯИЯЕ	3182
11	**Atanassov, K; Gargov, G**	Interval Valued Intuitionistic Fuzzy-Sets	Fuzzy Sets and Systems, vol. 31, p. 343	2347	ИББИ	2523
12	McClusky, S … **Georgiev, I. and** 26 more	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	НИГТГ	1674
13	Patel, A; Lee, H; Jawerth, L; Maharana, S; Jahnel, M; Hein, M; **Stoynov, S;** Mahamid, J; Saha, S; Franzmann, T; Pozniakovski, 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	1550
14	**Vassilev, SV;** Baxter, D; Andersen, LK; **Vassileva, CG**	An Overview of the Chemical Composition of Biomass	Fuel, vol. 89, p. 913	2010	ИМК	1499
15	Schael, S …. **Shivarov N.; Stoyanov B.; Sultanov G.** and 2508 more	Precision Electroweak Measurements on the Z Resonance	Physics Reports - Review Section of Physics Letters, vol. 427, p. 257	2006	ИР	1387

16	Burkhard, B; Kroll, F; **Nedkov, S;** Muller, F	Mapping Ecosystem Service Supply, Demand and Budgets	Ecological Indicators, vol. 21, p. 17	2012	НИГГГ	1380
17	**Alexieva, V;** Sergiev, I; Mapelli, S; **Karanov, E**	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	1370
18	**Hadjiivanov, KI**	Identification of Neutral and Charged NxOy Surface Species by IR Spectroscopy	Catalysis Reviews - Science and Engineering, vol. 42, p. 71	2000	ИОНХ	1352
19	**Atanasov, AG; Zotchev, SB**; Dirsch, VM; Supuran, CT;	Natural products in drug discovery: advances and opportunities	Nature Reviews Drug Discovery, vol. 20, p. 200	2021	ИНБ	1337
20	Ackermann, W; .... **Tsakov, I** and 154 more	Operation of a Free-electron Laser from the Extreme Ultraviolet to the Water Window	Nature Photonics, vol. 1, p. 336	2007	ИЯИЯЕ	1310
21	Klein Tank, AMG … **Gocheva, A** and 37 more	Daily Dataset of 20th-century Surface Air Temperature and Precipitation Series for the European Climate Assessment	International Journal of Climatology, vol. 22, p. 1441	2002	НИМХ ИИКАВ	1241
22	**Kashchiev, D**	Nucleation, Basic Theory with Applications	Book, Butterworth-Heinemann, Oxford, UK	2000	ИФХ	1510
23	Koleva, II; van Beek, TA; Linssen, JPH; de Groot, A; **Evstatieva, LN**	Screening of Plant Extracts for Antioxidant Activity: a Comparative Study on Three Testing Methods	Phytochemical Analysis, vol. 13, p. 8	2002	ИБЕИ	1138
24	**Angelova, MI; Dimitrov, DS**	Liposome Electroformation	Faraday Discussions, vol. 81, p. 303	1986	ИББИ	1090
25	**Atanassov, KT**	More on Intuitionistic Fuzzy-Sets	Fuzzy Sets and Systems, vol. 33, p. 37	1989	ИББИ	1076
26	Brown, D. A … Sirakov, I. and 68 more	ENDF/B-VIII.0: The 8th Major Release of the Nuclear Reaction Data Library with CIELO-project Cross Sections, New Standards and Thermal Scattering Data	Nuclear Data Sheets, vol. 148, p. 1.	2018	ИЯИЯЕ	1066
27	Machado, JT; **Kiryakova, V;** Mainardi, F	Recent History of Fractional Calculus	Communications in Nonlinear Science and Numerical Simulation, vol. 16, p. 1140	2011	ИМИ	1045

28	Baker, CA; Doyle, DD; Geltenbort, P;Green, K; Van Der Grinten, MGD; Harris, PG; Iaydjiev, P; **Ivanov, SN;** 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	1023
29	**Hadjiivanov, KI;** 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	974
30	**Bankova, VS;** de Castro, SL; Marcucci, MC	Propolis: Recent Advances in Chemistry and Plant Origin	Apidologie, vol. 31, p. 3	2000	ИОХЦФ	956
31	**Koynova, R;** Caffrey, M	Phases and Phase Transitions of the Phosphatidylcholines	Biochimica et Biophysica Acta - Reviews on Bio-membranes, vol. 1376, p. 91	1998	ИББИ	928
32	Loreto, F; **Velikova, V**	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	915
33	**Todorov, T; Nikolova, L; Tomova, N**	Polarization Holography 1. A New High-Efficiency Organic Material with Reversible Photoinduced Birefringence	Applied Optics vol. 23, p. 4309	1984	ИОМТ	890
34	Balaz, P; Achimovicova, M; Balaz, M; Billik, P; **Cherkezova-Zheleva, Z;** Criado, JM; Delogu, F; Dutkova, E; Gaffet, E; Gotor, FJ; Kumar, R; **Mitov, I;** 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	876
35	**Gospodinova, N; Terlemezyan, L**	Conducting Polymers Prepared by Oxidative Polymerization: Polyaniline	Progress in Polymer Science, vol. 23, p. 1443	1998	ИП	861
36	**Vitanov, NV;** 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	834

37	**Kujumgiev, A; Tsvetkova, I; Serkedjieva, Y; Bankova, V; Christov, R; Popov, S**	Antibacterial, Antifungal and Antiviral Activity of Propolis of Different Geographic Origin	Journal of Ethnopharmacology, vol. 64, p. 235	1999	ИМб, ИОХЦФ	811
38	Dicheva, D; Dichev, C; **Agre, G; Angelova, G**	Gamification in Education: A Systematic Mapping Study	Educational Technology & Society, vol 18, p. 75	2015	ИИКТ	768
39	Klionsky Daniel, …. **Atanasov, AG.; Hayrabedyan, S** and 2919 more	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition).	Autophagy 17(1): 1-382	2021	ИНБ, ИБИР	768
40	Bayatian, GL; ..... **Anguelov, J; Antchev, G; Atanasov, I; Damgov, J; Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Panev, P; Piperov, S; Stoykova, S; Sultanov, G; Vankov, I.** 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	765
41	Kattge. J. .... **Vassilev, K** and 726 more	TRY plant trait database - enhanced coverage and open access	Global Change Biology, vol. 26, p. 119	2020	ИБЕИ	752
42	**Angelova, MI**; 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	707
43	**Vassilev, SV**; Baxter, D; Andersen, LK; **Vassileva, CG**	An Overview of the Composition and Application of Biomass Ash. Part 1. Phase-Mineral and Chemical Composition and Cclassification	Fuel, vol. 105, p. 40	2013	ИМК	685
44	**Dimitrov, I;** Trzebicka, B; Muller, AHE; Dworak, A; **Tsvetanov, CB**	Thermosensitive Water-soluble Copolymers with Doubly Responsive Reversibly Interacting Entities	Progress in Polymer Science, vol. 32, p. 1275	2007	ИП	683
45	Rosso, OA; Blanco, S; **Yordanova, J; Kolev, V;** 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	662
46	Netzeva, TI … **Nikolova-Jeliazkova, N** and 19 more	Current Status of Methods for Defining the Applicability Domain of	ATLA - Alternatives to Laboratory Animals, vol. 33, p. 155	2005	ИИКТ	650

		(Quantitative) Structure-Activity Relationships - The Report and Recommendations of ECVAM Workshop 52				
47	**Vassilev, SV;** Baxter, D; Andersen, LK; **Vassileva, CG;** Morgan, TJ	An Overview of the Organic and Inorganic Phase Composition of Biomass	Fuel, vol. 94, p. 1	2012	ИМК	647
48	Bilenky, SM; **Petcov**, **ST**	Massive Neutrinos and Neutrino Oscillations	Reviews of Modern Physics, vol. 59, p. 671	1987	ИЯИЯЕ	641
49	Aad, G … **Aleksandrov, A; Genchev, V; Hadjiiska, R; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M** and 5142 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	638
50	**Atanassov, KT**	New Operations Defined over the Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 61, p. 137	1994	ИББИ	631
51	**Atanassov, KT**	On Intuitionistic Fuzzy Sets Theory	Book, Springer.	2012	ИББИ	667
52	Actis, M …. **Maneva G.; Bonev J.; Dimitrov D.** and 668 more	Design Cconcepts for the Cherenkov Telescope Array CTA: an Advanced Facility for Ground-based High-energy γ-Ray Astronomy	Experimental Astronomy, vol. 32, p. 193	2011	ИЯИЯЕ, ИАНАО	615
53	Khachatryan, V .... **Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G.; Tcholakov, V.; Trayanov, R.; Vankov, I** and 2151 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	615
54	Actis, M; Agnetta, G;… **Maneva, G.; Dimitrov, D.; Bonev, T** and 667 more	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy	Experimental Astronomy, vol. 32(3): 193-316	2011	ИЯИЯЕ, ИА с НАО	615
55	Aaron, FD …. **Tsakov, I** and 540 more	Combined Measurement and QCD Analysis of the Inclusive $e^{\pm}p$ Scattering Cross Sections at HERA	Journal of High Energy Physics, vol. 2010, p. 109	2010	ИЯИЯЕ	605

56	Schael, S; …. **Shivarov N; Stoyanov B; Sultanov G** and 1207 more	Search for Neutral MSSM Higgs Bosons at LEP	European Physical Journal C, vol. 47, p. 547	2006	ИР	603
57	Aurbach, D; Markovsky, B; Salitra, G; Markevich, E; Talyossef, Y; Koltypin, M; Nazar, L; Ellis, B; **Kovacheva, D**	Review on Electrode-Electrolyte Solution Interactions, Related to Cathode Materials for Li-ion Batteries	Journal of Power Sources, vol. 165, p. 491	2007	ИОНХ	602
58	Cuddy, AJC … **Petkova, K; Todorov, V** and 20 more	Stereotype Content Model Across Cultures: Towards Universal Similarities and Some Differences	British Journal of Social Psychology, Vol. 48, p. 1	2009	ИИОЗ	596
59	**Mintova, S;** Olson, NH; **Valtchev, V;** Bein, T	Mechanism of Zeolite A Nanocrystal Growth from Colloids at Room Temperature	Science, vol. 283, p. 958	1999	ИМК	567
60	Sforcin, JM; **Bankova, V**	Propolis: Is There a Potential for the Development of New Drugs?	Journal of Ethnopharma-cology, vol. 133, p. 253	2011	ИОХЦФ	565
61	Adeva, B …. **Angelov, AM; Angelov, TH; Antchev, GH; Antonov, L; Dimitrov, HA; Ayranov, OL; Filipov, GA; Krastev, VR** and 587 more	The Construction of the L3 Experiment	Nuclear Instruments & Methods in Physics, vol. 289, p. 35	1990	ИР	564
62	**Hadjiivanov, KI; Klissurski, DG**	Surface Chemistry of Titania (Anatase) and Titania-supported Catalysts	Chemical Society Reviews, vol. 25, p. 61	1996	ИОНХ	558
63	**Atanassov, KT**	Operators over Interval Valued Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 64, p. 159	1994	ИББИ	551
64	Chatrchyan, S ….. **Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vankov, I** and 2133 more	Observation and Studies of Jet Quenching in PbPb Collisions at $\sqrt{S_{NN}}$ = 2.76 TeV	Physical Review C, vol. 84, pap. 024906	2011	ИЯИЯЕ	543
65	Hirschi, M; Seneviratne, SI; **Alexandrov, V**; Boberg, F; Boroneant, C; Christensen, OB;	Observational Evidence for Soil-moisture Impact on Hot Extremes in Southeastern Europe	Nature Geoscience, vol. 4, p. 17	2011	ИИКАВ, НИМХ	536

	Formayer, H; Orlowsky, B; Stepanek, P					
66	Jaworska, J; **Nikolova-Jeliazkova,** N; 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	531
67	**Dimitrov, LI**	Mud Volcanoes - The Most Important Pathway for Degassing Deeply Buried Sediments	Earth Science Reviews, vol. 59, p. 49	2002	ИО	529
68	**Bankova, V**	Chemical Diversity of Propolis and the Problem of Standardization	Journal of Ethnopharmaco-logy, vol. 100, p. 114	2005	ИОХЦФ	527
69	**Stoykova, A**., 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	522
70	Chatrchyan, S …. **Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M** and 2171 more	Observation of Long-range, Near-Side Angular Correlations in pPb Collisions at the LHC	Physics Letters B, vol. 718, p. 795	2013	ИЯИЯЕ	518
71	Chatrchyan, **S .... Darmenov, N; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov,G; Tcholakov, V; Trayanov, R** and 2008 more	Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS	Journal of Instrumentation, vol. 6, art. No P11002	2011	ИЯИЯЕ	517
72	Chatrchyan, S .... **Genchev, V; Iaydjiev, P; Piperov, P; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M** 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	512
73	**Yordanov, I; Velikova, V; Tsonev, T**	Plant Responses to Drought, Acclimation, and Stress Tolerance	Photosynthetica, vol. 38, p. 171	2000	ИФРГ	511

74	Georgiev, V; **Todorova, G**	Existence of a Solution of the Wave-Equation with Nonlinear Damping and Source Terms	Journal of Differential Equations, vol. 109, p. 295	1994	ИМИ	510
75	Bilenky, SM; Hošek, J; **Petcov, ST**	On the Oscillations of Neutrinos with Dirac and Majorana Masses	Physics Letters B, vol. 94, p. 495	1980	ИЯИЯЕ	508
76	Zadrozny, JM; Xiao, DJ; **Atanasov, M;** Long, GJ; Grandjean, F; Neese, F; Long, JR	Magnetic Blocking in a Linear Iron(I) Complex	Nature Chemistry, vol. 5, p. 577	2013	ИОНХ	508
77	Crossman, ND; Burkhard, B; **Nedkov, S;** Willemen, L; Petz, K; Palomo, I; Drakou, EG; Martin-Lopez, B; McPhearson, T; **Boyanova, K;** Alkemade, R; Egoh, B; Dunbar, MB; Maes, J	A Blueprint for Mapping and Modelling Ecosystem Services	Ecosystem Services, vol. 4, p. 4	2013	НИГГГ	505
78	Kazakov, VA; **Kostov, IK;** Migdal, AA	Critical Properties of Randomly Triangulated Planar Random Surfaces	Physics Letters B, vol. 157, p. 295	1985	ИЯИЯЕ	499
79	**Kashchiev, D;** van Rosmalen, GM	Review: Nucleation in Solutions Revisited	Crystal Research and Technology, vol. 38, p. 555	2003	ИФХ	498
80	Van den Hoogen, J. ...**Peneva, V.** and 68 more	Soil nematode abundance and functional group composition at a global scale	Nature, vol. 572, p. 195	2019	ИБЕИ	488
81	Zadrozny, JM; **Atanasov, M;** 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	480
82	Khachatryan, V .... **Aleksandrov, A; Genchev, V; Hadjiiska, R; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M** and 2132 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	477
83	Fernandes, P; Cruz, A; **Angelova, B;** Pinheiro, HM; Cabral, JMS	Microbial Conversion of Steroid Compounds: Recent Developments	Enzyme and Microbial Technology, vol. 32, p. 688	2003	ИМб	476

84	Acharya, BS .... **Dimitrov, D; Maneva, G.; Vankov, H.** and 972 more	Introducing the CTA Concept	Astroparticle Physiscs, vol. 43, p. 3	2013	ИЯИЯЕ, ИАНАО	474
85	Khachatryan, V …. **Aleksandrov, A; Hadjiiska, R; Iaydjiev, S; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M** and 2295 more	Event Generator tunes Obtained from Underlying Event and Multiparton Scattering Measurements	European Physical Journal C, vol. 76, art. No 155	2016	ИЯИЯЕ	473
86	Khachatryan, V ..... **Aleksandrov, A; Hadjiiska, R; Iaydjiev, P; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M** and 2303 more	The CMS Trigger System	Journal of Instrumentation, vol. 12, art. No P010120	2017	ИЯИЯЕ	464
87	**Yanishlieva, NV; Marinova, EM;** Gordon, MH; **Raneva, VG**	Antioxidant Activity and Mechanism of Action of Thymol and Carvacrol in Two Lipid Systems	Food Chemistry, vol. 64, p. 59	1999	ИОХЦФ	457
88	Aad, G .... **Aleksandrov, A; Hadjiiska, R; Iaydjiev, P; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M** and 5103 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 √S = 7 and 8 TeV	Journal of High Energy Physics, art. No 045	2016	ИЯИЯЕ	453
89	Bashan, A; Bartsch, RP; Kantelhardt, JW; Havlin, S; **Ivanov, PC**	Network Physiology Reveals Relations between Network Topology and Physiological Function	Nature Communications, Vol. 3, art. No 702	2012	ИФТТ	452
90	Albert, J. …. **Maneva, GT; Temnikov, PT; Vankov, HT** and 139 more	Variable Very High Energy γ-Ray Emission from Markarian 501	Astrophysical Journal, vol. 669, p. 862	2007	ИЯИЯЕ	434
91	Khachatryan, V …. **Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Stoykova, S; Sultanov, G; Trayanov, R.; Vankov, I**. and 2061 more	Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at √s = 7 TeV	Physical Review Letters, vol. 105, art. 022002	2010	ИЯИЯЕ	433
92	**Bankova**, **V**	Recent Trends and Important Developments in Propolis Research	Evidence-Based Comple-mentary and Alternative Medicine, vol. 2, p. 29	2005	ИОХЦФ	432

93	Chatrchyan, S; .... **Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M** and 2192 more	Identification of b-Quark Jets with the CMS Experiment	Journal of Instrumentation, vol. 8, art. No P04013	2013	ИЯИЯЕ	429
94	**Dozov, I**	On the Spontaneous Symmetry Breaking in the Mesophases of Achiral Banana-Shaped Molecules	Europhysics Letters, vol. 56, p. 247	2001	ИФТТ	425
95	**Budevski, E; Staikov, G;** Lorenz, WJ	Electrocrystallization Nucleation and Growth Phenomena	Electrochimica Acta, vol. 45, p. 2559	2000	ИЕЕС	423
96	Boccuzzi, F; Chiorino, A; Manzoli, M; **Andreeva, D; Tabakova, T**	FTIR Study of the Low-temperature Water-gas Shift Reaction on Au/Fe_2O_3 and Au/TiO_2 Catalysts	Journal of Catalysis, vol. 188, p. 176	1999	ИК	420
97	**Vitanov, NV;** 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	417
98	Kortelainen, M; Lesinski, T; More, J; Nazarewicz, W; Sarich, J; Schunck, N; **Stoitsov, MV;** Wild, S	Nuclear Energy Density Optimization	Physical Review C, vol. 82, art. 024313	2010	ИЯИЯЕ	415
99	**Popov, E;** 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	414
100	Agostinelli, G; Delabie, A; **Vitanov, P; Alexieva, 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	412
101	Khachatryan, V .... **Aleksandrov, A; Genchev, V; Hadjiiska, R; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M;**	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	412

	Stoykova, S; Sultanov, G; Vutova, M and 2123 more					
102	Harris, PG; Baker, CA; Green, K; **Iaydjiev, P;** 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	410
103	Chatrchyan, S .... **Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M** and 2199 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	409
104	**Krantev, A; Yordanova, R;** Janda, T; Szalai, G; **Popova, L**	Treatment with Salicylic Acid Decreases the Effect of Cadmium on Photosynthesis in Maize Plants	Journal of Plant Physiology, vol. 165, p. 920	2008	ИФРГ	408
105	Braicu, C; Buse, M; Busuioc, C; Drula, R; Gulei, D; Raduly, L; Rusu, A; Irimie, A; **Atanasov, AG**; Slaby, O; Ionescu, C; Berindan-Neagoe, I	A Comprehensive Review on MAPK: A Promising Therapeutic Target in Cancer	Cancer, vol. 11, art. No 1618	2019	ИНБ	408
106	**Balarew, C; Duhlev, R**	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	407
107	**Andreeva, D; Idakiev, V; Tabakova, T; Ilieva, L;** Falaras, P; Bourlinos, A; Travlos, A	Low-temperature Water-gas Shift Reaction over Au/CeO_2 Catalysts	Catalysis Today, vol. 72, p. 51	2002	ИК	405
108	Abramowicz, H; ....**Tsakov, I** and 292 more	Combination of Measurements of Inclusive Deep Inelastic $e^{\pm}p$ Scattering Cross Sections and QCD Analysis of HERA Data	European Physical Journal C, vol. 75, art. No 580	2015	ИЯИЯЕ	405
109	**Gatev, P;** 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	404

110	**Vassilev, SV; Vassileva, CG; Vassilev, VS**	Advantages and disadvantages of composition and properties of biomass in comparison with coal: An overview	Fuel, vol. 158, p. 330	2015	ИМК ИКИТ	401
111	Ryan, WBF; Pitman, WC; Major, CO; Shimkus, K; Moskalenko, V; Jones, GA; **Dimitrov, P;** Gorur, N; Sakinc, M; Yuce, H	An Abrupt Drowning of the Black Sea Shelf	Marine Geology, vol. 138, p. 119	1997	ИО	399
112	**Karakashev, D;** 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	399
113	Arabatzis, IM; Stergiopoulos, T; **Andreeva, D; Kitova, S;** Neophytides, SG; Falaras, P	Characterization and Photocatalytic Activity of Au/TiO_2 Thin Films for Azo-dye Degradation	Journal of Catalysis, vol. 220, p. 127	2003	ИК, ИОМТ	399
114	**Kashchiev, D.**	Solution of the Non-steady State Problem in Nucleation Kinetics	Surface Science, vol. 14, p. 209	1969	ИФХ	393
115	Schael, S … **Shivarov, N; Stoyanov, B; Sultanov, G** and 1645 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	388
116	Albert, J. … **Maneva, G; Jemnikov, P; Vankov, K** and 145 more	Very-high-energy gamma rays from a distant quasar: How transparent is the universe?	Science, vol. 320, p. 1752	2008	ИЯИЯЕ	381
117	**Liochev, SI**; Fridovich, I	The Role of $O_2\cdot^-$ in the Production of HO·: In-vitro and In-vivo	Free Radical Biology and Medicine, vol. 16, p. 29	1994	ИФРГ	375
118	Chatrchyan, S …. **Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M** 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	375
119	Ros, R. M .... **Ganeva, A** and 31 more	Mosses of the Mediterranean, an Annotated Checklist	Cryptogamie Bryologie, vol. 34, p. 99	2013	ИБЕИ	372
120	Chatrchyan, S; Khachatryan, V;… **Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G;**	Observation of a new boson with mass near 125 GeV in pp collisions at root s=7 and 8 TeV	Journal of High Energy Physics, 6f	2013	ИЯИЯЕ	372

	Tcholakov, V; Trayanov, R; Vutova, M and 2178 more					
121	Akkoyun, S. … **Balabanski, DL; Detistov, P; Petkov, P; Stefanova, E** 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	369
122	Lagoudas, D; Hartl, D; Chemisky, Y; Machado, L; **Popov, P**	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	368
123	Podobnik, B; Grosse, I; Horvatic, D; Ilic, S; **Ivanov, PC;** Stanley, HE	Quantifying Cross-correlations Using Local and Global Detrending Approaches	European Physical Journal B, vol. 71, p. 243	2009	ИФТТ	366
124	Barack, L; ... **Doneva, D; Nissimov, E.** and 205 more	Black holes, gravitational waves and fundamental physics: a roadmap	Classical and Quantum Gravity, vol. 36, art. No 143001	2019	ИЯИЯЕ	363
125	Aaboud, M. ...Shiyakova, M. and 2853 more	Performance of the ATLAS trigger system in 2015	European Physical Journal C, vol. 77, p. 317	2017	ИЯИЯЕ	362
126	Aad, G ... **Shiyakova, M** and 2841 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	357
127	Lopes-Lima, M ... **Trichkova, T** and 47 more	Conservation status of freshwater mussels in Europe: state of the art and future challenges	Biological Reviews, vol. 92, p. 572	2017	ИБЕИ	356
128	Marcucci, MC; Ferreres, F; Garcia-Viguera, C; **Bankova, VS**; De Castro, SL; Dantas, AP; Valente, PHM; Paulino, N	Phenolic Compounds from Brazilian Propolis with Pharmacological Activities	Journal of Ethnopharma-cology, vol. 74, p. 105	2001	ИОХЦФ	355
129	Mohapatra, RN … **Petcov, ST** and 29 more	Theory of Neutrinos: a White Paper	Reports on Progress in Physics, vol. 70, p. 1757	2007	ИЯИЯЕ	354
130	Sforcin, JM; Fernandes, A; Lopes, CAM; **Bankova, V;** Funari, SRC	Seasonal Effect on Brazilian Propolis Antibacterial Activity	Journal of Ethnopharma-cology, vol. 73, p. 243	2000	ИОХЦФ	352
131	Alt, C ….. **Genchev, V** 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	352

132	Bogaard, A; Fraser, R; Heaton, T; Wallace, M; Vaiglova, P; Charles, M; Jones, G; Evershed, R; Styring, A; Andersen, N; Arbogast, R; Bartosiewic, L; Gardeisen, A; Kanstrup, M; Maier, U; Marinova, E; **Ninov, L;** Schafer, M; Stephan, E	Crop manuring and intensive land management by Europe's first farmers	Proceedings of the National Academy of Sciences of USA, vol. 110, p. 12589	2013	НАИМ	350
133	**Kolev, TM; Velcheva, EA; Stamboliyska, BA;** 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	345
134	Asghar, M; Hasselquist, D; Hansson, B; **Zehtindjiev, P;** Westerdahl, H; Bensch, S	Hidden costs of infection: Chronic malaria accelerates telomere degradation and senescence in wild birds	Science, Vol. 347, p. 436	2015	ИБЕИ	344
135	De Rybel, D; **Vassileva, V** and 20 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	344
136	Lohr, D; **Venkov, P; Zlatanova, J**	Transcriptional Regulation in the Yeast Gal Gene Family - a Complex Genetic Network	FASEB Journal, vol. 9, p. 777	1995	ИМБ, ИФРГ	343
137	Rechkemmer, Y; Breitgoff, FD; van der Meer, M; **Atanasov, M;** Hakl, M; Orlita, M; Neugebauer, P; Neese, F; Sarkar, B; van Slageren, J	A four-coordinate cobalt(II) single-ion magnet with coercivity and a very high energy barrier	Nature Communications, vol. 7, art. No 10467	2016	ИОНХ	342
138	**Rashkov, I.; Manolova, N**; 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	341
139	**Rashkov, I.;** Espartero, JL; Li, SM; **Manolova, N**; 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	341

140	Albert, J. … **Maneva, G; Jemnikov, P; Vankov, K** and 144 more	Variable Very-high-energy Gamma-ray Emission from the Microquasar LS I + 61 303	Science, vol. 312, p. 1771	2006	ИЯИЯЕ	338
141	**Kashchiev, D**	On the Relation Between Nucleation Work, Nucleus Size, and Nucleation Rate	Journal of Chemical Physics, vol. 76, p. 5098	1982	ИФХ	338
142	Chatrchyan, S. .... **Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M** 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	333
143	**Doneva, D; Yazadjiev, SS**	New Gauss-Bonnet Black Holes with Curvature-Induced Scalarization in Extended Scalar-Tensor Theories	Physical Review Letters, vol. 120, art. No 131103	2018	ИЯИЯЕ ИМИ	333
144	Mathieson, I; ... **Alexandrov, S; Atanassova, N; Bacvarov, K; Boyadzhiev, Y** and 112 more	The genomic history of southeastern Europe	Nature, vol. 555, p. 197	2018	НАИМ ИЕМПАМ	328
145	**Markov, I**	Crystal Growth for Beginners: Fundamentals of Nucleation, Crystal Growth, and Epitaxy	Book, World Scientific, Singapore	2003	ИФХ	326
146	Constantin, A; **Gerdjikov, VS; Ivanov, RI**	Inverse Scattering Transform for the Camassa-Holm Equation	Inverse Problems, vol. 22, p. 2197	2006	ИЯИЯЕ	325
147	Chatrchyan, S... **Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M** and 2403 more	Description and Performance of Track and Primary-vertex Reconstruction with the CMS Tracker	Journal of Instrumentation vol. 9 art. No P10009	2014	ИЯИЯЕ	324
148	Bruelheide, H ... **Vassilev, K** and 103 more	Global trait-environment relationships of plant communities	Nature Ecology & Evolution, vol. 2, p. 1906	2018	ИБЕИ	324
149	**Nikolova, L; Todorov, T**	Diffraction Efficiency and Selectivity of Polarization Holographic Recording	Optica Acta, vol. 31, p. 579	1984	ИОМТ	319
150	Chatrchyan, S; Khachatryan, V; … **Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M;**	Performance of CMS muon reconstruction in pp collision events at root s=7Tev	Journal of Instrumentation, 7	2012	ИЯИЯЕ	318

	Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M and 2266 more					
151	**Yanishlieva, NV; Marinova, E;** Pokorny, J	Natural Antioxidants from Herbs and Spices	European Journal of Lipid Science and Technology, vol. 108, p. 776	2006	ИОХЦФ	317
152	**Damyanova, S;** Perez, CA; Schmal, M; Bueno, JMC	Characterization of Ceria-Coated Alumina Carrier	Applied Catalysis A-General, vol. 234, p. 271	2002	ИК	316
153	Ros, G. ... **Ganeva, A** and 24 more	Hepatics and Anthocerotes of the Mediterranean, an Annotated Checklist	Cryptogamie Bryologie, vol. 28, p. 351	2007	ИБЕИ	315
154	**Kagan, V; Serbinova, E; Packer, L**	Antioxidant Effects of Ubiquinones in Microsomes and Mitochondria are Mediated by Tocopherol Recycling	Biochemical & Biophysical Research Communications, vol. 169, p. 851	1990	ИФРГ	314
155	**Vassilev, SV**; 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	314
156	Roters, F. … **Nikolov, S**; and 21 more	DAMASK - The Dusseldorf Advanced Material Simulation Kit for modeling multi-physics crystal plasticity, thermal, and damage phenomena from the single crystal up to the component scale	Computational Materials Science, Vol. 158, p. 420	2019	ИМех	314
157	**Dimitrova, NA; Dimitrov, GV**	Interpretation of EMG Changes with Fatigue: Facts, Pitfalls, and Fallacies	Journal of Electromyography and Kinesiology, vol. 13, p. 13	2003	ИББИ	313
158	Vassilev, S; Baxter, D; Vassileva, CG	An overview of the behaviour of biomass during combustion: Part I. Phase-mineral transformations of organic and inorganic matter	Fuel, vol. 112. p. 391	2013	ИМК	313
159	Khachatryan, V …. **Darmenov, N; Dimitrov, L; Genchev, V; Iaydjiev, P; Piperov, S; Stoykova, S; Sultanov, G;**	Transverse-momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at √s = 0.9 and 2.36 Te	Journal of High Energy Physics, art. No 041	2010	ИЯИЯЕ	311

	Trayanov, R.; Vankov, I. and 1958 more					
160	Ayvazyan, V …. **Tsakov, I** 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	311
161	Dolgov, AD; Hansen, SH; Pastor, S; **Petcov, ST**; Raffelt, GG; Semikoz, DV	Cosmological Bounds on Neutrino Degeneracy Improved by Flavor Oscillations	Nuclear Physics B, vol. 632, p. 363	2002	ИЯИЯЕ	311
162	**Stoeva, S;** Klabunde, KJ; Sorensen, CM; **Dragieva, I**	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	309
163	**Petcov**, ST	On Pseudo-Dirac Neutrinos, Neutrino Oscillations and Neutrinoless Double Beta-Decay	Physics Letters B, vol. 110, p. 245	1982	ИЯИЯЕ	307
164	**Demirevska-Kepova, K; Simova-Stoilova, L; Stoyanova, Z;** 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	307
165	Hamelin, A; **Vitanov, T;** Sevastyanov, E; **Popov, A**	The Electrochemical Double-Layer on sp Metal Single-Crystals – the Current Status of Data	Journal of Electroanalytical Chemistry, vol. 145, p. 225	1983	ИЕЕС	306
166	**Christov, CV;** Blotz, A; Kim, HC; Pobylitsa, 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	306
167	**Kiskinova, M**; Goodman, D	Modification of Chemisorption Properties by Electronegative Adatoms – H_2 and CO on Chlorided, Sulfided, and Phosphided Ni(100) Surface	Surface Science, vol. 108, p. 64	1981	ИОНХ	305
168	Oxtoby, DW, **Kashchiev, D**	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	305
169	**Altankov, G;** Grinnell, F; Groth, T	Studies on the Biocompatibility of Materials: Fibroblast Reorganization	Journal of Biomedical Materials Research, vol. 30, p. 385	1996	ИББИ	304

		of Substratum-bound Fibronectin on Surfaces Varying in Wettability				
170	Masson, O …. **Penev, I** 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	304
171	Trnka, M … **Alexandrov, V** and 25 more	Agroclimatic conditions in Europe under climate change	Global Change Biology, vol. 17, p. 2298	2011	НИМХ ИИКАВ	304
172	Boulatov, DV; Kazakov, VA; **Kostov, IK**; Migdal, AA	Analytical and Numerical Study of a Model of Dynamically Triangulated Random Surfaces	Nuclear Physics B, vol. 275, p. 641	1986	ИЯИЯЕ	303
173	Rotach, MW; Vogt, R; Bernhofer, C; **Batchvarova, E;** 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	302
174	**Vassilev, SV; Vassileva, CG**	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	302
175	**Vassilev, SV**; Baxter, D; Andersen, LK; **Vassileva, CG**	An Overview of the Composition and Application of Biomass Ash. Part 2. Potential utilisation, technological and ecological advantages and challenges	Fuel, vol. 105, p. 19	2013	ИМК	300
176	Navrátil, P; **Gueorguiev, VG;** 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	299
177	Kashchiev, D.; Firoozabadi, A	Induction Time in Crystallization of Gas Hydrates	Journal of Crystal Growth, vol. 250, p. 499	2003	ИФХ	299
178	Raidal, M .... **Petcov, ST** and 88 more	Flavor Physics of Leptons and Dipole Moments	European Physical Journal C, vol. 57, p. 13	2008	ИЯИЯЕ	294

179	Liu, CJ; **Vissokov, GP;** Jang, BWL	Catalyst Preparation using Plasma Technologies	Catalysis Today, vol. 72, p. 173	2002	ИЕ	294
180	Khachatryan, V .... **Aleksandrov, A; Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M** and 2125 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	291
181	Chatrchyan, S; …. **Genchev V.; Iaydjiev, P.; Piperov, S.; Rodozov, M.; Stoykova, S.; Sultanov, G.; Tcholakov, V.; Trayanov, R.; Vutova M.** 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	288
182	Adriani, O; …. **Antonov, L; Betev, BL; Dimitrov HR; Krastev, VR** and 475 more	Results From the L3 Experiment at LEP	Physics Reports-Review Section of Physics Letters, vol. 236, p. 1	1993	ИМех	287
183	Khachatryan, V... **Aleksandrov, A; Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M** and 2118 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	287
184	Christov, I	Real time electrocardiogram QRS detection using combined adaptive threshold	Biomedical Engineering Online, vol. 3, art. No 28	2004	ИББИ	287
185	**Ignatova, M; Starbova, K; Markova, N; Manolova, N; Rashkov, I**	Electrospun Nano-fibre Mats with Antibacterial Properties from Quaternised Chitosan and Poly(vinyl alcohol)	Carbohydrate Research, vol. 341, p. 2098	2006	ИП ИОМТ ИМб	287
186	**Atanassov, K;** 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	283
187	Abrashev, MV; Litvinchuk, AP; Iliev, MN; Meng, RL; Popov, VN; Ivanov, VG; **Chakalov, RA;** Thomsen, C	Comparative Study of Optical Phonons in the Rhombohedrally Distorted Perovskites $LaAlO_3$ and $LaMnO_3$	Physical Review B, vol. 59, p. 4146	1999	ИЕ	282

188	Kashchiev, D; Firoozabadi, A	Nucleation of gas hydrates	Journal of Crystal Growth, vol. 243, p. 476	2002	ИФХ	281
189	Angelova, A; **Angelov, B; Mutafchieva, R;** Lesieur, S; Couvreur, P	Self-Assembled Multicompartment Liquid Crystalline Lipid Carriers for Protein, Peptide, and Nucleic Acid Drug Delivery	Accounts of Chemical Research, vol, 44 p. 147	2011	ИББИ	281
190	**Alipieva, K**; Korkina, L; Orhan, IE; **Georgiev, MI**	Verbascoside - A review of its occurrence, (bio)synthesis and pharmacological significance	Biotechnology Advances, vol 32, p. 1065	2014	ИОХЦФ ИМб	281
191	**Savova, D;** Apak, E; Ekinci, E; Yardim, F; Petrov, N; **Budinova, T; Razvigorova, M; Minkova, V**	Biomass Conversion to Carbon Adsorbents and Gas	Biomass & Bioenergy, vol. 21, p. 133	2001	ИОХЦФ	280
192	**Koprinska, I;** Carrato, S.	Temporal Video Segmentation: A Survey	Signal Processing: Image Communication, vol. 16, p. 477	2001	ИИКТ	280
193	Vassilev, S; Baxter, D; Vassileva, CG	An overview of the behaviour of biomass during combustion: Part II. Ash fusion and ash formation mechanisms of biomass types	Fuel, vol. 117. p. 152	2014	ИМК	280
194	**Hadjiivanov, K**; Saussey, J; Freysz, JL; Lavalley, JC	FT-IR study of NO + O_2 Coadsorption on H-ZSM-5: Reassignment of the 2133 cm^{-1} Band to NO^+ Species	Catalysis Letters, vol. 52 p. 103	1998	ИОНХ	278
195	Cai, Z; **Lazarov, R;** 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	277
196	Judd, AG; Hovland, M; **Dimitrov, LI**; 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	277
197	**Budinova, T;** Ekinci, E; Yardim, F; Grimm, A; Bjornbom, E; **Minkova, V; Goranova, M**	Characterization and application of activated carbon produced by H_3PO_4 and water vapor activation	Fuel Processing Technology, vol. 87, p. 899	2006	ИОХЦФ	277
198	Chatrchyan, S; Khachatryan, V; … **Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M** and 2205 more	Measurement of jet fragmentation in PbPb and pp collisions at √sNN=2.76 TeV	Physical Review C, 90(2)	2014	ИЯИЯЕ	277

199	Chatrchyan, S; Khachatryan, V; … **Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M** and 2204 more	Measurement of the muon charge asymmetry in inclusive pp →W plus X production at √s=7 TeV and an improved determination of light parton distribution functions	Physical Review D, 90(3)	2014	ИЯИЯЕ	277
200	**Lahtchev, KL; Batovska, DI ; Parushev, SP;** 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	275
201	Chatrchyan, S. … **Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Sultanov, G; Vutova, M** and 2209 more	Measurement of the B_s^0 $\mu^+\mu^-$ Branching Fraction and Search for B^0 $\mu^+\mu^-$ with the CMS Experiment	Physical Review Letters, vol. 111, art. 101804	2013	ИЯИЯЕ	274
202	**Dobrev, VK; Petkova, VB**	All Positive Energy Unitary Irreducible Representations of Extended Conformal Supersymmetry	Physics Letters B, vol. 162, p. 127	1985	ИЯИЯЕ	274
203	**Stoitsov, MV;** 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	274
204	Ivanov BV	Static charged perfect fluid spheres in general relativity	Physical Review D. vol. 65, art. No 104001	2002	ИЯИЯЕ	273
205	Ivanov, BV	Maximum bounds on the surface redshift of anisotropic stars	Physical Review D, vol. 65, art. No 104011	2002	ИЯИЯЕ	272
206	**Kiryakova, VS**	Generalized Fractional Calculus and Applications	Pitman Res Notes Mat, John Wiley & Sons, New York.	1994	ИМИ	271
207	Aleksic, J. ... **Makariev, M; Maneva, G; Temnikov, P; Vankov, H.** and 144 more	Magic discovery of very high energy emission from the FSRQ PKS 1222+21	Astrophysical Journal Letters, vol. 730, art. No L8	2011	ИЯИЯЕ	270
208	Venema, VKC ... **Marinova, T** and 29 more	Benchmarking homogenization algorithms for monthly data	Climate of the Past, vol. 8, p. 89	2012	НИМХ	270
209	**Zhelev, DV;** 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	269
210	**Georgiev, MI; Pavlov, AI;** Bley	Hairy Root Type Plant In Vitro Systems as Sources of Bioactive Substances	Applied Microbiology and Biotechnology, Vol. 74, p. 1175	2007	ИМб	267

211	**Nedkov, S**; Burkhard, B	Flood regulating ecosystem services - Mapping supply and demand, in the Etropole municipality, Bulgaria	Ecological Indicators, vol. 21, p. 67	2012	НИГГГ	267
212	Plompen, AJM; Cabellos, O; …**Sirakov, I** and 77 more	The joint evaluated fission and fusion nuclear data library, JEFF-3.3	European Physical Journal A, 56(7): 181	2020	ИЯИЯЕ	267
213	Basu, P; **Panayotov, D;** Yates, JT.	Rhodium - Carbon Monoxide Surface Chemistry - The Involvement of Surface Hydroxyl Groups on Al_2O_3 and SiO_2 Supports	Journal of the American Chemical Society, vol. 110, p. 2074	1988	ИОНХ	265
214	Schipper, F; Dixit, M; **Kovacheva, D;** Talianker, M; Haik, O; Grinblat, J; Erickson, EM; Ghanty, C; Major, DT; Markovsky, B; Aurbach, D	Stabilizing nickel-rich layered cathode materials by a high-charge cation doping strategy: zirconium-doped $LiNi_{0.6}Co_{0.2}Mn_{0.2}O_2$	Journal of Materials Chemistry A, vol. 4, p. 16073	2016	ИОНХ	264
215	**Grigorova, M;** Blythe, HJ; **Blaskov, V; Rusanov, V; Petkov, V; Masheva, V; Nihtianova, D;** Martinez, LM; Munoz, JS; **Mikhov, M**	Magnetic Properties and Moessbauer Spectra of Nanosized $CoFe_2O_4$ Powders	Journal of Magnetism and Magnetic Materials, vol. 183, p. 163	1998	ИОНХ, ИМК	262
216	Harmens, H ... **Yurukova, L** and 32 more	Mosses as biomonitors of atmospheric heavy metal deposition: Spatial patterns and temporal trends in Europe	Envireonmental Pollution, vol. 158, p. 3144	2010	ИБЕИ	261
217	Meleard, P; Gerbeaud, C; Pott, T; Fernandez Puente, L; **Bivas, I; Mitov, MD;** Dufourcq, J; Bothorel, P	Bending Elasticities of Model Membranes: Influences of Temperature and Sterol Content	Biophysical Journal, vol. 72, p. 2616	1997	ИФТТ	260
218	**Batovska, DI; Todorova, IT**	Trends in Utilization of the Pharmacological Potential of Chalcones	Current Clinical Pharmacology, vol. 5, p. 1	2010	ИОХЦФ	260
219	Vayssilov, GN; **Mihaylov, M;** Petkov, PS; **Hadjiivanov, KI;** Neyman, KM	Reassignment of the Vibrational Spectra of Carbonates, Formates, and Related Surface Species on Ceria: A Combined Density Functional and Infrared Spectroscopy Investigation	Journal of Physical Chemistry C, vol. 115, p. 23435	2011	ИОНХ	260

220	Aaboud, M.; … M. **Shiyakova, M** and 2853 more	Luminosity Determination in pp Collisions at √s = 8 TeV using the ATLAS Detector at the LHC	European Physical Journal C, vol. 76, p. 653	2016	ИЯИЯЕ	259
221	Sirunyan, AM; Tumasyan, A;…**Aleksandrova, A; Hadkiiska, R**; **Iaydjiev, P; Rodozov, M; Stoykova, S; Sultanov, G; Vutova, M** and 2219 more	Particle-flow reconstruction and global event description with the CMS detector	Journal of Instrumentation, 12	2017	ИЯИЯЕ	259
222	Burger, H; Kneipp, K; Hobert, H; Vogel, W; Kozhukharov, V; **Neov, S**	Glass-Formation, Properties and Structure of Glasses in the TeO_2-ZnO System	Journal of Non-crystalline Solids, vol. 151. p. 134	1992	ИЯИЯЕ	258
223	**Atanassova, N;** 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	257
224	Pettitt, SJ; Krastev, DB; Brandsma, I;… **Aleksandrov, R; …Stoynov, S** and 18 more	Genome-wide and high-density CRISPR-Cas9 screens identify point mutations in PARP1 causing PARP inhibitor resistance	Nature Communications, 9: 1849	2018	ИМБ	257
225	**Popova, M; Bankova, V; Butovska, D; Petkov, V; Nikolova-Damyanova, B;** Sabatini, AG; Marcazzan, GL; Bogdanov, S	Validated methods for the quantification of biologically active constituents of poplar-type propolis	Phytochemical Analysis, 15(4): 235-240	2004	ИОХЦФ	256
226	Faucon, JF; **Mitov, MD;** Meleard, P; **Bivas, I**; Bothorel, P	Bending Elasticity and Thermal Fluctuations of Lipid-Membranes - Theoretical and Experimental Requirements	Journal de Physique, vol. 50, p. 2389	1989	ИФТТ	255
227	**Georgiev, OI; Nikolaev, N; Hadjiolov, AA;** Skryabin, KG, Zakharyev, VM, Bayev, AA	The Structure of the Yeast Ribosomal-RNA Genes 4. Complete Sequence of	Nucleic Acids Research, vol. 9, p. 6953	1981	ИМБ	253

		the 25-S-RRNA Gene from Saccharomyces Cerevisiae				
228	Guzzo, MM; Masiero, A; **Petcov, ST**	On the MSW Effect with Massless Neutrinos and no Mixing in the Vacuum	Physics Letters B, vol. 260, p. 154	1991	ИЯИЯЕ	253
229	Kahlke R; Garcia, N; Kostopoulos, D; Lacombat, F; Lister, A; Mazza, PPA; **Spassov, N**; Titov, V	Western Palaearctic palaeoenvironmental conditions during the Early and early Middle Pleistocene inferred from large mammal communities, and implications for hominin dispersal in Europe	Quaternary Science Reviews, vol. 30, p. 1368	2011	НПНМ	253
230	Chytry, M; ... **Apostolova, I; Pedashenko, H; Sopotlieva, D; Vassilev, K** and 91 more	European Vegetation Archive (EVA): an integrated database of European vegetation plots	Applied Vegetation Science, vol. 19, p. 173	2016	ИБЕИ	253
231	Papayannis, A ... **Grigorov, I**. and 24 more	Systematic lidar observations of Saharan dust over Europe in the frame of EARLINET (2000-2002)	Journal of Geophysical Research - Atmospheres, vol. 113, art. No D10204	2008	ИЕ	252
232	Holopainen, JM; **Angelova, MI;** Kinnunen, PKJ	Vectorial Budding of Vesicles by Asymmetrical Enzymatic Formation of Ceramide in Giant Liposomes	Biophysical Journal, vol. 78, p. 830	2000	ИББИ	251
233	Vassilev, SV; Vassileva, CG	Composition, properties and challenges of algae biomass for biofuel application: An overview	Fuel, 181: 1-33	2016	ИМК	251
234	**Nikolov, S;** Petrov, M; Lymperakis, L; Friak, M; Sachs, C; Fabritius, HO; Raabe, D; Neugebauer, J	Revealing the Design Principles of High-Performance Biological Composites Using Ab initio and Multiscale Simulations: The Example of Lobster Cuticle	Advanced Materials 22(4): 519+	2010	ИМех	250
235	Uddin, MS; Stachowiak, A; Al Mamun, A; **Tzvetkov, NT;** Takeda, S; Atanasov, AG; Bergantin, LB; Abdel-Daim, MM; Stankiewicz, AM	Autophagy and Alzheimer's Disease: From Molecular Mechanisms to Therapeutic Implications	Frontiers in Aging Neuroscience, 10: 4	2018	ИМБ	250

236	Albert, J; …. **Maneva, G; Temnikov, P. Vankov, H** and 138 more	VHE γ-ray Observation of the Crab Nebula and its Pulsar with the MAGIC Telescope	Astrophysical Journal, vol. 674, p. 1037	2008	ИЯИЯЕ	249
237	Aad, G … Shiyakova, M and 2871 more	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1	European Physical Journal C, vol. 77, p. 490	2017	ИЯИЯЕ	249
238	Hadjiivanov, KI; Panayotov, DA; Mihaylov, MY; Ivanova, EZ; Chakarova, KK; Andonova, SM; Drenchev, NL	Power of Infrared and Raman Spectroscopies to Characterize Metal-Organic Frameworks and Investigate Their Interaction with Guest Molecules	Chemical Reviews, 121(3): 1286-1424	2021	ИОНХ	249
239	Price, GL; **Kanazirev, V**	Ga_2O_3/HZSM-5 Propane Aromatization Catalysts - Formation of Active Centers via Solid-State Reaction	Journal of Catalysis, vol. 126, p. 267	1990	ИОХЦФ	248
240	**Antchev, G**. and 73 more	First Measurement of the Total Proton-proton Cross-section at the LHC Energy of √s = 7 TeV	EPL, vol. 96, art. No 21002	2011	ИЯИЯЕ	247
241	**Damyanova, S;** Bueno, JMC	Effect of CeO_2 Loading on the Surface and Catalytic Behaviors of CeO_2-Al_2O_3-supported Pt Catalysts	Applied Catalysis A -General, vol. 253, p. 135	2003	ИК	247
242	**Simova, E; Beshkova, D;** Angelov, A; **Hristozova, T; Frengova, G;** Spasov, Z	Lactic acid bacteria and yeasts in kefir grains and kefir made from them	Journal of Industrial Microbiology and Biotechnology, vol. 28, p. 1	2002	ИМб	247
243	Chatrchyan, S; Khachatryan, V; … **Novaes, SF; Padula, SS; Genchev, V; Iaydjiev, P; Piperov, S; Rodozov, M; Stoykova, S; Sultanov, G; Tcholakov, V; Trayanov, R; Vutova, M** and 2257 more	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at √sNN=2.76 TeV	European Physical Journal C, 72(5)	2012	ИЯИЯЕ	247
244	Aleksic, J; Ansoldi, S; …**Makariev, M; Maneva, G** and 161 more	The major upgrade of the MAGIC telescopes, Part II: A performance study using observations of the Crab Nebula	Astroparticle Physics, 72: 76-94	2016	ИЯИЯЕ	246
245	Pujol, MC; Rico, M; Zaldo, C; Sole, R; **Nikolov, V;** Solans, X; Aguilo, M; Diaz, F	Crystalline Structure and Optical Spectroscopy of Er^{3+}-doped $KGd(WO_4)_2$ Single Crystals	Applied Physics B-Lasers and Optics, vol. 68, p. 187	1999	ИОНХ	245

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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,
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. Костов”
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ИОХЦФ - Институт по органична химия с Център по фитохимия
ИП - Институт по полимери
ИР - Институт по роботика
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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