

The H-index of the Bulgarian Academy of Sciences is 245

The H-index was introduced to evaluate the scientific achievements of individual scientists. However, recently, it has been increasingly used to evaluate the relevance of different fields of science and scientific institutions. According to Web of Knowledge, the H-index of the Bulgarian Academy of Sciences on 09.10.2023 is 245. For comparison, the H-index of Bulgaria is 330. Although it does not consider many factors, such as different average citation rates in separate sciences, the H-index gives a general view of the influence of a particular institution.

№	Authors	Title	Journal	Year	Institute of the BAS	Citations
1	Atanassov, KT	Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 20, p. 86	1987	IBBE	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	INRNE	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	INRNE	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	INRNE	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	INRNE	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	INRNE	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	INRNE	3402
8	Chatrchyan, S Anguelov, T; Antchev, G; Atanasov, I; Damgov, J; Darmenov, N;	The CMS Experiment at the CERN LHC	Journal of Instrumentation vol. 3, art. S08004	2008	INRNE, IR	3389

	Dimitrov, L; Genchev, V; Iaydjiev, P; Marinov, A; Piperov, S; Stoykova, S; Sultanov, G; Trayanov, R; Vankov, I; Aleksandrov, V and 3085 more					
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	IPPG	3330
10	Zyla, PA, ... Petcov, ST and 240 more	Review of Particle Physics	Progress of Theoretical and experimental physics, vol. 8, art. No 083C01	2020	INRNE	3182
11	Atanassov, K; Gargov, G	Interval Valued Intuitionistic Fuzzy-Sets	Fuzzy Sets and Systems, vol. 31, p. 343	2347	IBBE	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	NIGGG	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	IMB	1550
14	Vassilev, SV ; Baxter, D; Andersen, LK; Vassileva, CG	An Overview of the Chemical Composition of Biomass	Fuel, vol. 89, p. 913	2010	IMC	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	IR	1387
16	Burkhard, B; Kroll, F; Nedkov, S ; Muller, F	Mapping Ecosystem Service Supply, Demand and Budgets	Ecological Indicators, vol. 21, p. 17	2012	NIGGG	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	IPPG	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	IGIC	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	INb	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	INRNE	1310
21	Klein Tank, AMG ... Gocheva, A and 37 more	Daily Dataset of 20 th -century Surface Air Temperature and Precipitation Series for the European Climate Assessment	International Journal of Climatology, vol. 22, p. 1441	2002	NIMH, CAWRI	1241
22	Kashchiev, D	Nucleation, Basic Theory with Applications	Book, Butterworth-Heinemann, Oxford, UK	2000	IPHC	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	IBER	1138
24	Angelova, MI; Dimitrov, DS	Liposome Electroformation	Faraday Discussions, vol. 81, p. 303	1986	IBBE	1090
25	Atanassov, KT	More on Intuitionistic Fuzzy-Sets	Fuzzy Sets and Systems, vol. 33, p. 37	1989	IBBE	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	INRNE	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	IMI	1045
28	Baker, CA; Doyle, DD; Geltenbort, P; Green, K; Van Der Grinten, MGD; Harris, PG; Iaydjiev, P; Ivanov, SN; May,	Improved Experimental Limit on the Electric Dipole Moment of the Neutron	Physical Review Letters, vol. 97, art. 131801	2006	INRNE	1023

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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	IGIC	974
30	Bankova, VS; de Castro, SL; Marcucci, MC	Propolis: Recent Advances in Chemistry and Plant Origin	Apidologie, vol. 31, p. 3	2000	IOCCP	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	IBBE	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	IPPG	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	IOMT	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	IC	876
35	Gospodinova, N; Terlemezyan, L	Conducting Polymers Prepared by Oxidative Polymerization: Polyaniline	Progress in Polymer Science, vol. 23, p. 1443	1998	IP	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	ISSPH	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	IMb, IOCCP	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	IICT	768
39	Klionsky Daniel, Atanasov, AG.; Hayrabyan, S and 2919 more	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition).	Autophagy 17(1): 1-382	2021	INb, IBIR	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	INRNE	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	IBER	752
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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 Classification	Fuel, vol. 105, p. 40	2013	IMC	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	IP	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	IPPG	662
46	Netzeva, TI ... Nikolova-Jeliazkova, N and 19 more	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	IICT	650

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	IMC	647
48	Bilenky, SM; Petcov, ST	Massive Neutrinos and Neutrino Oscillations	Reviews of Modern Physics, vol. 59, p. 671	1987	INRNE	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	INRNE	638
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51	Atanassov, KT	On Intuitionistic Fuzzy Sets Theory	Book, Springer.	2012	IBBE	667
52	Actis, M Maneva G.; Bonev J.; Dimitrov D. and 668 more	Design Concepts for the Cherenkov Telescope Array CTA: an Advanced Facility for Ground-based High-energy γ -Ray Astronomy	Experimental Astronomy, vol. 32, p. 193	2011	INRNE, IANAO	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	INRNE	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	INRNE, IANAO	615
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63	Atanassov, KT	Operators over Interval Valued Intuitionistic Fuzzy Sets	Fuzzy Sets and Systems, vol. 64, p. 159	1994	IBBE	551
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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	INRNE	518
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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	INRNE	477
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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	INRNE	464
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IANA0 - Institute of Astronomy and National Astronomical Observatory
IBBE - Institute of Biophysics and Biomedical Engineering
IBER – Institute of Biodiversity and Ecosystem Research
IE - Institute of Electronics “Acad. Emil Djakov”
IEES - Institute of Electrochemistry and Energy Systems
IEMPAM - Institute of Experimental Morphology, Pathology and Anthropology with Museum
IICT - Institute of Information and Communication Technologies
CAWRI - Climate, Atmosphere and Water Research Institute
IPHS - Institute for Population and Human Studies,
IC - Institute of Catalysis
IMb - Institute of Microbiology “Stephan Angeloff”
IMB - Institute of Molecular Biology “Acad. Roumen Tsanev”
IMech - Institute of Mechanics
IMI - Institute of Mathematics and Informatics
IMC - Institute of Mineralogy and Crystallography “Academician Ivan Kostov”
IN – Institute of Neurobiology
IO – Institute of Oceanology
IOMT - Institute of Optical Materials and Technologies “Academician Jordan Malinowski”
IGIC- Institute of General and Inorganic Chemistry
IOCCP - Institute of Organic Chemistry with Center of Phytochemistry
IP - Institute of Polymers
IR - Institute of Robotics
IPPG - Institute of Plant Physiology and Genetics
ISSPh - Institute of Solid State Physics
IPhC - Institute of Physical Chemistry “Academician Rostislav Kaischew”
INRNE - Institute of Nuclear Research and Nuclear Energy
NIGGG - National Institute of Geophysics, Geodesy and Geography
NMNH - National Museum of Natural History
CLSENES - Central Laboratory of Solar Energy and New Energy Sources