

## The H-index of the Bulgarian Academy of Sciences is 211

The H-index has been introduced to evaluate the achievements of individual scientists, but has recently been increasingly used to assess the relevance of various fields of science and scientific institutions. According to the Web of Knowledge (accessed June 01, 2020), the H-index of the Bulgarian Academy of Sciences is 211. For comparison, the H-index of the whole country is about 280. Although it does not take into account a number of factors, such as different average citation in different sciences, the H-index gives an overview of the impact of an institution.

Below is a list of scientific papers by researchers from the Bulgarian Academy of Sciences, cited at least 211 times each. The names of the authors from the Academy are shown in bold. The list includes only articles affiliated to the respective department of BAS. Part of the articles (69) have been published as a result of extensive international cooperation and have more than 30 co-authors. In these cases not all names of the co-authors are listed.

| № | Authors  | Title  | Journal, Volume, Page   | Year | Institute <sup>a</sup> | Citations |
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| 1 | <b>Atanassov, KT</b>   | Intuitionistic Fuzzy Sets  | Fuzzy Sets and Systems, vol. 20, p. 86                                    | 1987 | IBBE                   | 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 | INRNE                  | 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 | INRNE, IR              | 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 | INRNE                  | 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 | INRNE                  | 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 | INRNE                  | 3982      |
| 7 | Chatrchyan, S .... <b>Anguelov, T; Antchev, G; Atanasov, I; Damgov, J; Dardenov, 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 | INRNE, IR              | 2903      |

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| 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 | INRNE | 2529 |
| 9  | <b>Atanassov, K; Gargov, G</b>  | Interval Valued Intuitionistic Fuzzy-Sets   | Fuzzy Sets and Systems, vol. 31, p. 343                               | 1989 | IBBE  | 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 | IPFG  | 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 | NIGGG | 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 | INRNE | 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 | IR    | 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 | IGIC  | 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 | NIMH  | 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 | INRNE | 958  |

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| 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 | IBER  | 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 | INRNE | 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 | IMC   | 894 |
| 20 | <b>Angelova, MI</b> ; <b>Dimitrov, DS</b>   | Liposome Electroformation  | Faraday Discussions, vol. 81, p. 303                                      | 1986 | IBBE  | 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 | IOMT  | 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 | INRNE | 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 | NIGGG | 812 |
| 24 | <b>Atanassov, KT</b>  | More on Intuitionistic Fuzzy Sets  | Fuzzy Sets and Systems, vol. 33, p. 37                                    | 1989 | IBBE  | 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 | IBBE  | 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 | IGIC  | 764 |
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| 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 | IPFG  | 744 |
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| 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 | IMb, IOCCP | 678 |
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| 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 | IMB        | 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 | IP         | 610 |
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| 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 | IR         | 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 | INRNE      | 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 | INRNE      | 534 |

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<sup>a</sup> Abbreviation:

CLSENES – Central Laboratory for Solar Energy and New Energy Sources

IANA0 – Institute of Astronomy and National Astronomical Observatory

IBBE – Institute of Biophysics and Biomedical Engineering

IBER – Institute of Biodiversity and Ecosystem Research

IC – Institute of Catalysis

ICAWR – Institute for Climate, Atmosphere and Water Research

IE – Institute of Electronics

IEES – Institute of Electrochemistry and Energy Systems “Academician Evgeni Budevski”

IEMPAM – Institute of Experimental Morphology, Pathology and Anthropology with Museum

IGIC – Institute of General and Inorganic Chemistry

IICT – Institute of Information and Communication Technologies

IMb – “Stephan Angeloff” Institute of Microbiology

IMB – Institute of Molecular Biology “Academician Roumen Tsanev”

IMC – Institute of Mineralogy and Crystallography “Academician Ivan Kostov”

IMech – Institute of Mechanics

IMI – Institute of Mathematics and Informatics

INRNE – Institute for Nuclear Research and Nuclear Energy

IO – Institute of Oceanology “Professor F. Nansen”

IOCCP – Institute of Organic Chemistry with Centre of Phytochemistry

IOMT – Institute of Optical Materials and Technologies “Academician Jordan Malinovski”

IP – Institute of Polymers

IPC – Institute of Physical Chemistry “Academician Rostislav Kaischew”

IPFG – Institute of Plant Physiology and Genetics

ISSK – Institute for the Study of Societies and Knowledge

ISSP – Institute of Solid State Physics “Academician Georgi Nadzhakov”

NIGGG – National Institute of Geophysics, Geodesy and Geography

NIMH – National Institute of Meteorology and Hydrology