JiÅÃ- BoroviÄka

List of Publications by Year
in descending order

94 papers	3,872 citations	172457 29 h-index	123424 61 g-index
95 all docs	95 docs citations	95 times ranked	1998 citing authors

#	Article	IF	Citations
1	Meteor Phenomena and Bodies. Space Science Reviews, 1998, 84, 327-471.	8.1	678
2	A 500-kiloton airburst over Chelyabinsk and an enhanced hazard from small impactors. Nature, 2013, 503, 238-241.	27.8	348
3	The impact and recovery of asteroid 2008 TC3. Nature, 2009, 458, 485-488.	27.8	311
4	The trajectory, structure and origin of the Chelyabinsk asteroidal impactor. Nature, 2013, 503, 235-237.	27.8	202
5	Very low strengths of interplanetary meteoroids and small asteroids. Meteoritics and Planetary Science, 2011, 46, 1525-1550.	1.6	145
6	A survey of meteor spectra and orbits: evidence for three populations of Na-free meteoroids. Icarus, 2005, 174, 15-30.	2.5	123
7	Chemical abundances determined from meteor spectra: I. Ratios of the main chemical elements. Meteoritics and Planetary Science, 2003, 38, 1283-1294.	1.6	111
8	Two components in meteor spectra. Planetary and Space Science, 1994, 42, 145-150.	1.7	106
9	Radiation Study of Two Very Bright Terrestrial Bolides and an Application to the Comet Sâ€“L 9 Collision with Jupiter. Icarus, 1996, 121, 484-510.	2.5	99
10	Atmospheric deceleration and light curves of Draconid meteors and implications for the structure of cometary dust. Astronomy and Astrophysics, 2007, 473, 661-672.	5.1	99
11	The KoÅ¡ice meteorite fall: Atmospheric trajectory, fragmentation, and orbit. Meteoritics and Planetary Science, 2013, 48, 1757-1779.	1.6	93
12	An Anomalous Basaltic Meteorite from the Innermost Main Belt. Science, 2009, 325, 1525-1527.	12.6	86
13	Atmospheric trajectories and light curves of shower meteors. Astronomy and Astrophysics, 2004, 428, 683-690.	5.1	64
14	Meteosat observation of the atmospheric entry of 2008 TC$mathsf{_{3}}$ over Sudan and the associated dust cloud. Astronomy and Astrophysics, 2009, 507, 1015-1022.	5.1	57
15	The Bunburra Rockhole meteorite fall in SW Australia: fireball trajectory, luminosity, dynamics, orbit, and impact position from photographic and photoelectric records. Meteoritics and Planetary Science, 2012, 47, 163-185.	1.6	53
16	Catalogue of representative meteor spectra. Astronomy and Astrophysics, 2015, 580, A67.	5.1	50
17	The Villalbeto de la PeÃ±a meteorite fall: II. Determination of atmospheric trajectory and orbit. Meteoritics and Planetary Science, 2006, 41, 505-517.	1.6	48
18	The Australian Desert Fireball Network: a new era for planetary science. Australian Journal of Earth Sciences, 2012, 59, 177-187.	1.0	48

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19	Spectral analysis of two Perseid meteors. Planetary and Space Science, 1997, 45, 563-575.	1.7	45
20	Discovery of a new branch of the Taurid meteoroid stream as a real source of potentially hazardous bodies. Astronomy and Astrophysics, 2017, 605, A68.	5.1	44
21	The MorÃ¡vka meteorite fall: 2. Interpretation of infrasonic and seismic data. Meteoritics and Planetary Science, 2003, 38, 989-1003.	1.6	43
22	Analysis of instrumental observations of the Jesenice meteorite fall on April 9, 2009. Meteoritics and Planetary Science, 2010, 45, 1392-1407.	1.6	37
23	The Carancas meteorite impact â€“ Encounter with a monolithic meteoroid. Astronomy and Astrophysics, 2008, 485, L1-L4.	5.1	33
24	Reanalysis of the BeneÅ¡ov bolide and recovery of polymict breccia meteorites â€“ old mystery solved after 20 years. Astronomy and Astrophysics, 2014, 570, A39.	5.1	32
25	On the age and formation mechanism of the core of the Quadrantid meteoroid stream. Icarus, 2015, 261, 100-117.	2.5	31
26	Double station and spectroscopic observations of the Quadrantid meteor shower and the implications for its parent body. Monthly Notices of the Royal Astronomical Society, 2006, 366, 1367-1372.	4.4	30
27	High-resolution modelling of meteoroid ablation. Astronomy and Astrophysics, 2013, 557, A41.	5.1	30
28	Radiation of molecules in BeneÅ¡ov bolide spectra. Icarus, 2016, 278, 248-265.	2.5	30
29	Time Resolved Spectroscopy of a Leonid Fireball Afterglow. Earth, Moon and Planets, 1998, 82/83, 399-428.	0.6	29
30	The January 7, 2015, superbolide over Romania and structural diversity of meter-sized asteroids. Planetary and Space Science, 2017, 143, 147-158.	1.7	29
31	Preparing for the 1998/99 Leonid Storms. Earth, Moon and Planets, 1998, 80, 311-341.	0.6	28
32	The MorÃ¡vka meteorite fall: 3. Meteoroid initial size, history, structure, and composition. Meteoritics and Planetary Science, 2003, 38, 1005-1021.	1.6	26
33	Automation of the Czech part of the European fireball network: equipment, methods and first results. Proceedings of the International Astronomical Union, 2006, 2, 121-130.	0.0	26
34	Detection of the [FORMULA] [F] [RM] N [/RM] [SUP] + [/SUP] [INF] 2 [/INF] [/F] [/FORMULA] First Negative System in a Bright Leonid Fireball. Astrophysical Journal, 2005, 618, L141-L144.	4.5	25
35	The beginning heights and light curves of high-altitude meteors. Meteoritics and Planetary Science, 2006, 41, 1305-1320.	1.6	25
36	Formation of molecules in bright meteors. Icarus, 2010, 210, 150-157.	2.5	25

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37	The Maribo <scp>CM</scp>2 meteorite fallâ€"Survival of weak material at high entry speed. Meteoritics and Planetary Science, 2019, 54, 1024-1041.	1.6	24
38	Rapid searches for counterparts of GRB 930131. Astrophysical Journal, 1994, 422, L71.	4.5	24
39	Two Strengths of Ordinary Chondritic Meteoroids as Derived from Their Atmospheric Fragmentation Modeling. Astronomical Journal, 2020, 160, 42.	4.7	23
40	Optical observations of enhanced activity of the 2005 Draconid meteor shower. Astronomy and Astrophysics, 2007, 466, 729-735.	5.1	22
41	The instrumentally recorded fall of the KriÅ¾evci meteorite, Croatia, February 4, 2011. Meteoritics and Planetary Science, 2015, 50, 1244-1259.	1.6	22
42	The Å½ÄÃ¡r nad SÃ¡zavou meteorite fall: Fireball trajectory, photometry, dynamics, fragmentation, orbit, and meteorite recovery. Meteoritics and Planetary Science, 2020, 55, 376-401.	1.6	22
43	The 2011 Draconids: The First European Airborne Meteor Observation Campaign. Earth, Moon and Planets, 2015, 114, 137-157.	0.6	20
44	Atmospheric trajectory and heliocentric orbit of the Ejby meteorite fall in Denmark on February 6, 2016. Planetary and Space Science, 2017, 143, 192-198.	1.7	20
45	Television spectra of meteors. Earth, Moon and Planets, 1995, 71, 237-244.	0.6	19
46	Quantitative model of the release of sodium from meteoroids in the vicinity of the Sun: Application to Geminids. Icarus, 2009, 202, 361-370.	2.5	19
47	Spectral, Photometric, and Dynamic Analysis of Eight Draconid Meteors. Earth, Moon and Planets, 2014, 113, 15-31.	0.6	19
48	Density, porosity and magnetic susceptibility of the KoÅ¡ice meteorite shower and homogeneity of its parent meteoroid. Planetary and Space Science, 2014, 93-94, 96-100.	1.7	19
49	The KoÅ¡ice meteorite fall: Recovery and strewn field. Meteoritics and Planetary Science, 2015, 50, 853-863.	1.6	19
50	Physical and chemical properties of meteoroids as deduced from observations. Proceedings of the International Astronomical Union, 2005, 1, 249-271.	0.0	18
51	Properties of meteoroids from different classes of parent bodies. Proceedings of the International Astronomical Union, 2006, 2, 107-120.	0.0	14
52	The CaO orange system in meteor spectra. Planetary and Space Science, 2018, 151, 27-32.	1.7	14
53	Small iron meteoroids. Astronomy and Astrophysics, 2019, 625, A106.	5.1	14
54	SPECTROSCOPY OF A GEMINID FIREBALL: ITS SIMILARITY TO COMETARY METEOROIDS AND THE NATURE OF ITS PARENT BODY. Earth, Moon and Planets, 2006, 95, 375-387.	0.6	13

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55	Ablation of small iron meteoroidsâ€“First results. Planetary and Space Science, 2017, 143, 159-163.	1.7	13
56	Photographic and Radiometric Observations of the HAYABUSA Re-Entry. Publication of the Astronomical Society of Japan, 2011, 63, 1003-1009.	2.5	12
57	Trajectory and orbit of the unique carbonaceous meteorite Flensburg. Meteoritics and Planetary Science, 2021, 56, 425-439.	1.6	12
58	IMPACT DETECTIONS OF TEMPORARILY CAPTURED NATURAL SATELLITES. Astronomical Journal, 2016, 151, 135.	4.7	10
59	Satellite observation of the dust trail of a major bolide event over the Bering Sea on December 18, 2018. Astronomy and Astrophysics, 2020, 644, A58.	5.1	10
60	The spectrum of fireball light taken with a 2-m telescope. Earth, Moon and Planets, 1995, 68, 217-222.	0.6	9
61	Multi-Instrument Observations of Bright Meteors in the Czech Republic. Earth, Moon and Planets, 2006, 95, 569-578.	0.6	9
62	Puerto LÃ¡pice eucrite fall: Strewn field, physical description, probable fireball trajectory, and orbit. Meteoritics and Planetary Science, 2009, 44, 175-186.	1.6	9
63	The properties of cmâ€“sized iron meteoroids. Planetary and Space Science, 2020, 184, 104882.	1.7	9
64	Observations of the 2009 Leonid activity by the Tajikistan fireball network. Astronomy and Astrophysics, 2011, 533, A115.	5.1	9
65	Elemental Abundances in Leonid and Perseid Meteoroids. Earth, Moon and Planets, 2006, 95, 245-253.	0.6	8
66	Search for OH(Aâ€“X) and detection of (Bâ€“X) in ultraviolet meteor spectrum. Advances in Space Research, 2007, 39, 538-543.	2.6	8
67	Bright Perseid fireball with exceptional beginning height of 170 km observed by different techniques. Astronomy and Astrophysics, 2014, 563, A64.	5.1	8
68	Are some meteoroids rubble piles?. Proceedings of the International Astronomical Union, 2015, 10, 80-85.	0.0	8
69	Activity profile, mass distribution index, radiants, and orbits of the 2018 Draconid meteor shower outburst. Planetary and Space Science, 2020, 184, 104871.	1.7	8
70	Physical properties of Taurid meteoroids of various sizes. Planetary and Space Science, 2020, 182, 104849.	1.7	8
71	VIDEO AND PHOTOGRAPHIC SPECTROSCOPY OF 1998 AND 2001 LEONID PERSISTENT TRAINS FROM 300 TO 930Ânm. Earth, Moon and Planets, 2006, 95, 265-277.	0.6	7
72	Spectral Investigation of Two Asteroidal Fireballs. Earth, Moon and Planets, 2006, 97, 279-293.	0.6	7

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73	Photographic observations of fireballs in Tajikistan. Solar System Research, 2009, 43, 353-363.	0.7	7
74	Ground-based Gamma-Ray Burst Follow-up Efforts: Results of the First Two Years of the BATSE/COMPTEL/NMSU Rapid Response Network. Astrophysical Journal, Supplement Series, 1996, 103, 173.	7.7	7
75	Material properties of transition objects 3200 Phaethon and 2003 EH₁. Proceedings of the International Astronomical Union, 2009, 5, 218-222.	0.0	6
76	Activity of the Leonid meteor shower on 2009 November 17. Astronomy and Astrophysics, 2011, 528, A94.	5.1	6
77	A catalog of video records of the 2013 Chelyabinsk superbolide. Astronomy and Astrophysics, 2016, 585, A90.	5.1	6
78	Fireball fragmentation in the first half of the atmospheric trajectory. Planetary and Space Science, 2020, 187, 104956.	1.7	6
79	Simulating the BeneÅ¡ov bolide flowfield and spectrum at altitudes of 47 and 57 km. Icarus, 2021, 354, 114037.	2.5	6
80	First Observations of Elves and Their Causative Very Strong Lightning Discharges in an Unusual Smallâ€Scale Continental Springâ€Time Thunderstorm. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	3.3	6
81	Elemental Abundances in Leonid and Perseid Meteoroids. , 2005, , 245-253.		6
82	Analysis of a Low Density Meteoroid with Enhanced Sodium. Earth, Moon and Planets, 2008, 102, 485-493.	0.6	5
83	Time Resolved Spectroscopy of a Leonid Fireball Afterglow. , 2000, , 399-428.		5
84	March 1, 2005 Daylight Fireball Over Galicia (NW of Spain) and Minho (N. Portugal). Earth, Moon and Planets, 2008, 102, 537-542.	0.6	3
85	<title>Satellite decays photographed by a fireball network</title>. , 1997, 3116, 168.		1
86	Commission 22: Meteors, Meteorites & Interplanetary Dust. Proceedings of the International Astronomical Union, 2005, 1, 167-170.	0.0	1
87	Video Observations of the 2006 Leonid Outburst. Earth, Moon and Planets, 2008, 102, 151-156.	0.6	1
88	The localization of fireball trajectories with the help of seismic networks. Studia Geophysica Et Geodaetica, 2014, 58, 84-99.	0.5	1
89	DIVISION F COMMISSION 22: METEORS, METEORITES, AND INTERPLANETARY DUST. Proceedings of the International Astronomical Union, 2015, 11, 365-379.	0.0	1
90	The Chelyabinsk event. Proceedings of the International Astronomical Union, 2015, 11, 247-252.	0.0	0

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91	Video and Photographic Spectroscopy of 1998 and 2001 Leonid Persistent Trains from 300 to 930 nm. , 2005, , 265-277.		0
92	Multi-Instrument Observations of Bright Meteors in the Czech Republic. , 2005, , 569-578.		0
93	Analysis of a Low Density Meteoroid with Enhanced Sodium. , 2007, , 485-493.		0
94	March 1, 2005 Daylight Fireball Over Galicia (NW of Spain) and Minho (N. Portugal). , 2007, , 537-542.		0