

P G Brown

List of Publications by Year in descending order

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143
papers

5,849
citations

94433

37
h-index

82547

72
g-index

144
all docs

144
docs citations

144
times ranked

3096
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical Parameter Estimation for Observation Error Modelling: Application to Meteor Radars. , 2022, , 185-213.		2
2	An observational synthesis of the Taurid meteor complex. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2318-2336.	4.4	4
3	Dual frequency measurements of meteor head echoes simultaneously detected with the MAARSY and EISCAT radar systems. Icarus, 2021, 355, 114137.	2.5	5
4	The impact and recovery of asteroid 2018 LA. Meteoritics and Planetary Science, 2021, 56, 844-893.	1.6	21
5	Fireball characteristics derivable from acoustic data. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 216, 105587.	1.6	4
6	A dynamical analysis of the Taurid Complex: evidence for past orbital convergences. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2568-2591.	4.4	8
7	Interhemispheric differences of mesosphere“lower thermosphere winds and tides investigated from three whole-atmosphere models and meteor radar observations. Atmospheric Chemistry and Physics, 2021, 21, 13855-13902.	4.9	24
8	Iron Rain: measuring the occurrence rate and origin of small iron meteoroids at Earth. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3684-3696.	4.4	5
9	Characteristics of very faint (+16) meteors detected with the Middle Atmosphere ALOMAR Radar System (MAARSY). Icarus, 2020, 340, 113444.	2.5	5
10	Precision Measurements of Radar Transverse Scattering Speeds From Meteor Phase Characteristics. Radio Science, 2020, 55, e2019RS006987.	1.6	11
11	Coordinated optical and radar measurements of low velocity meteors. Icarus, 2020, 352, 113975.	2.5	4
12	Coupling From the Middle Atmosphere to the Exobase: Dynamical Disturbance Effects on Light Chemical Species. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028331.	2.4	12
13	Supercatastrophic Disruption of Asteroids in the Context of SOHO Comet, Fireball, and Meteor Observations. Astronomical Journal, 2020, 159, 143.	4.7	12
14	Possible interstellar meteoroids detected by the Canadian Meteor Orbit Radar. Planetary and Space Science, 2020, 190, 104980.	1.7	14
15	A two year survey for VLF emission from fireballs. Planetary and Space Science, 2020, 184, 104872.	1.7	2
16	A new method for measuring the meteor mass index: application to the 2018 Draconid meteor shower outburst. Astronomy and Astrophysics, 2020, 635, A153.	5.1	12
17	Estimating trajectories of meteors: an observational Monte Carlo approach “ II. Results. Monthly Notices of the Royal Astronomical Society, 2020, 491, 3996-4011.	4.4	11
18	Estimating trajectories of meteors: an observational Monte Carlo approach “ I. Theory. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2688-2705.	4.4	28

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19	Activity of the Eta-Aquariid and Orionid meteor showers. <i>Astronomy and Astrophysics</i> , 2020, 640, A58.	5.1	9
20	Modeling the past and future activity of the Halleyid meteor showers. <i>Astronomy and Astrophysics</i> , 2020, 642, A120.	5.1	11
21	Comparative study between ground-based observations and NAVGEM-HA analysis data in the mesosphere and lower thermosphere region. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11979-12010.	4.9	24
22	The Hamburg meteorite fall: Fireball trajectory, orbit, and dynamics. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2027-2045.	1.6	16
23	Climatologies and long-term changes in mesospheric wind and wave measurements based on radar observations at high and mid latitudes. <i>Annales Geophysicae</i> , 2019, 37, 851-875.	1.6	27
24	The SariÅsiÅsek howardite fall in Turkey: Source crater of <scp>HED</scp> meteorites on Vesta and impact risk of Vestoids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 953-1008.	1.6	30
25	Infrasound Monitoring as a Tool to Characterize Impacting Near-Earth Objects (NEOs). , 2019, , 939-986.		13
26	Large Meteoroids as Global Infrasound Reference Events. , 2019, , 451-470.		7
27	A meteoroid stream survey using meteor head echo observations from the Middle Atmosphere ALOMAR Radar System (MAARSY). <i>Icarus</i> , 2018, 309, 177-186.	2.5	26
28	Identification of meteorite source regions in the Solar System. <i>Icarus</i> , 2018, 311, 271-287.	2.5	61
29	Pipeline for the Detection of Serendipitous Stellar Occultations by Kuiper Belt Objects with the Colibri Fast-photometry Array. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 014502.	3.1	12
30	Physical properties of the stone meteorites: Implications for the properties of their parent bodies. <i>Chemie Der Erde</i> , 2018, 78, 269-298.	2.0	100
31	Formation and past evolution of the showers of 96P/Machholz complex. <i>Icarus</i> , 2018, 300, 360-385.	2.5	20
32	Semidiurnal solar tide differences between fall and spring transition times in the Northern Hemisphere. <i>Annales Geophysicae</i> , 2018, 36, 999-1008.	1.6	19
33	The Draconid Meteoroid Stream 2018: Prospects for Satellite Impact Detection. <i>Astrophysical Journal Letters</i> , 2018, 866, L8.	8.3	8
34	Atmospheric energy deposition modeling and inference for varied meteoroid structures. <i>Icarus</i> , 2018, 315, 79-91.	2.5	24
35	The frequency of window damage caused by bolide airbursts: A quarter century case study. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1413-1431.	1.6	5
36	Comparison of mesospheric winds from a high-altitude meteorological analysis system and meteor radar observations during the boreal winters of 2009â€“2010 and 2012â€“2013. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 154, 132-166.	1.6	57

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37	Plasma distributions in meteor head echoes and implications for radar cross section interpretation. <i>Planetary and Space Science</i> , 2017, 143, 203-208.	1.7	24
38	Fully correcting the meteor speed distribution for radar observing biases. <i>Planetary and Space Science</i> , 2017, 143, 209-217.	1.7	15
39	Generating realistic synthetic meteoroid orbits. <i>Icarus</i> , 2017, 296, 197-215.	2.5	4
40	Correction effect to the dispersion of radiant point in case of low velocity meteor showers. <i>Planetary and Space Science</i> , 2017, 143, 142-146.	1.7	6
41	Simultaneous optical and meteor head echo measurements using the Middle Atmosphere Alomar Radar System (MAARSY): Data collection and preliminary analysis. <i>Planetary and Space Science</i> , 2017, 141, 25-34.	1.7	19
42	Meteor shower detection with density-based clustering. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1048-1059.	1.6	5
43	An orbital meteoroid stream survey using the Southern Argentina Agile MEteor Radar (SAAMER) based on a wavelet approach. <i>Icarus</i> , 2017, 290, 162-182.	2.5	27
44	Measuring the Meteoroid Environments of the Planets with Meteor Detectors on Earth. <i>Astronomical Journal</i> , 2017, 154, 36.	4.7	0
45	Detection of the Phoenicids meteor shower in 2014. <i>Planetary and Space Science</i> , 2017, 143, 132-137.	1.7	9
46	Refinement of bolide characteristics from infrasound measurements. <i>Planetary and Space Science</i> , 2017, 143, 169-181.	1.7	10
47	The age and the probable parent body of the daytime arietid meteor shower. <i>Icarus</i> , 2017, 281, 417-443.	2.5	21
48	COMET 252P/LINEAR: BORN (ALMOST) DEAD?. <i>Astrophysical Journal Letters</i> , 2016, 818, L29.	8.3	10
49	A reproducible method to determine the meteoroid mass index. <i>Astronomy and Astrophysics</i> , 2016, 592, A150.	5.1	24
50	Dormant comets among the near-Earth object population: a meteor-based survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 3511-3527.	4.4	29
51	The trajectory and atmospheric impact of asteroid 2014 AA. <i>Icarus</i> , 2016, 274, 327-333.	2.5	29
52	IMPACT DETECTIONS OF TEMPORARILY CAPTURED NATURAL SATELLITES. <i>Astronomical Journal</i> , 2016, 151, 135.	4.7	10
53	Orbital and physical characteristics of meter-scale impactors from airburst observations. <i>Icarus</i> , 2016, 266, 96-111.	2.5	56
54	Binary asteroid population. 3. Secondary rotations and elongations. <i>Icarus</i> , 2016, 267, 267-295.	2.5	76

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55	When comets get old: A synthesis of comet and meteor observations of the low activity comet 209P/LINEAR. <i>Icarus</i> , 2016, 264, 48-61.	2.5	34
56	BANGS AND METEORS FROM THE QUIET COMET 15P/FINLAY. <i>Astrophysical Journal</i> , 2015, 814, 79.	4.5	15
57	Updated population and risk assessment for airbursts from near-earth objects (NEOs). , 2015, , .		14
58	A decadal survey of the Daytime Arietid meteor shower using the Canadian Meteor Orbit Radar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 1625-1640.	4.4	18
59	A 13-year radar study of the Î-Aquariid meteor shower. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 3669-3675.	4.4	12
60	On the age and formation mechanism of the core of the Quadrantid meteoroid stream. <i>Icarus</i> , 2015, 261, 100-117.	2.5	31
61	Small Near-Earth Asteroids as a Source of Meteorites. , 2015, , .		27
62	DYNAMICAL MODEL FOR THE TOROIDAL SPORADIC METEORS. <i>Astrophysical Journal</i> , 2014, 789, 25.	4.5	69
63	Detecting Earth's temporarily-captured natural satellites—Minimoons. <i>Icarus</i> , 2014, 241, 280-297.	2.5	35
64	Fall, recovery, and characterization of the Novato L6 chondrite breccia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1388-1425.	1.6	59
65	Neutral density variation from specular meteor echo observations spanning one solar cycle. <i>Geophysical Research Letters</i> , 2014, 41, 6919-6925.	4.0	37
66	A 500-kiloton airburst over Chelyabinsk and an enhanced hazard from small impactors. <i>Nature</i> , 2013, 503, 238-241.	27.8	348
67	The trajectory, structure and origin of the Chelyabinsk asteroidal impactor. <i>Nature</i> , 2013, 503, 235-237.	27.8	202
68	Simultaneous radar and video meteors—II: Photometry and ionisation. <i>Planetary and Space Science</i> , 2013, 81, 32-47.	1.7	66
69	Optical trail widths of faint meteors observed with the Canadian Automated Meteor Observatory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 962-975.	4.4	9
70	The Canadian Automated Meteor Observatory (CAMO): System overview. <i>Icarus</i> , 2013, 225, 614-622.	2.5	59
71	The KoÅšice meteorite fall: Atmospheric trajectory, fragmentation, and orbit. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1757-1779.	1.6	93
72	The impact of planetary waves on the latitudinal displacement of sudden stratospheric warmings. <i>Annales Geophysicae</i> , 2013, 31, 1397-1415.	1.6	24

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73	Meteorites from meteor showers: A case study of the Taurids. <i>Meteoritics and Planetary Science</i> , 2013, 48, 270-288.	1.6	27
74	Impact Fireball. <i>Encyclopedia of Earth Sciences Series</i> , 2013, , 524-525.	0.1	0
75	AN OPTICAL SURVEY FOR MILLIMETER-SIZED INTERSTELLAR METEORIODS. <i>Astrophysical Journal</i> , 2012, 745, 161.	4.5	62
76	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	12.6	191
77	Binary asteroid population. 2. Anisotropic distribution of orbit poles of small, inner main-belt binaries. <i>Icarus</i> , 2012, 218, 125-143.	2.5	33
78	The fall of the Grimsby meteoriteâ€™: Fireball dynamics and orbit from radar, video, and infrasound records. <i>Meteoritics and Planetary Science</i> , 2011, 46, 339-363.	1.6	57
79	Bulk density of small meteoroids. <i>Astronomy and Astrophysics</i> , 2011, 530, A113.	5.1	33
80	The Daytime Craterids, a radar-detected meteor shower outburst from hyperbolic comet C/2007 W1 (Boattini). <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 668-676.	4.4	5
81	Dynamical resonant structures in meteoroid stream orbits. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 1059-1076.	4.4	13
82	A meteoroid stream survey using the Canadian Meteor Orbit Radar. <i>Icarus</i> , 2010, 207, 66-81.	2.5	140
83	Physical characteristics of very small meteoroids. <i>Astronomy and Astrophysics</i> , 2009, 497, 851-867.	5.1	10
84	Frequency-Dependent Acoustic-Seismic Coupling of Meteor Shock Waves. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 3055-3066.	2.3	6
85	The impact and recovery of asteroid 2008 TC3. <i>Nature</i> , 2009, 458, 485-488.	27.8	311
86	A meteorite crater on Earth formed on September 15, 2007: The Carancas hypervelocity impact. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1967-1984.	1.6	53
87	The Canadian Meteor Orbit Radar Meteor Stream Catalogue. <i>Earth, Moon and Planets</i> , 2008, 102, 209-219.	0.6	27
88	The Southern Ontario All-sky Meteor Camera Network. <i>Earth, Moon and Planets</i> , 2008, 102, 241-246.	0.6	57
89	Global Detection of Infrasonic Signals from Three Large Bolides. <i>Earth, Moon and Planets</i> , 2008, 102, 357-363.	0.6	17
90	A meteoroid stream survey using the Canadian Meteor Orbit Radar. <i>Icarus</i> , 2008, 195, 317-339.	2.5	118

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91	Analysis of a crater-forming meteorite impact in Peru. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
92	Meteor head echo radar data: Mass-velocity selection effects. <i>Icarus</i> , 2007, 186, 547-556.	2.5	59
93	Measurement of the meteoroid flux at Mars. <i>Icarus</i> , 2007, 191, 141-150.	2.5	23
94	The Southern Ontario All-sky Meteor Camera Network. , 2007, , 241-246.		2
95	The Canadian Meteor Orbit Radar Meteor Stream Catalogue. , 2007, , 209-219.		0
96	Meteoroid Bulk Density Determination Using Radar Head Echo Observations. <i>Earth, Moon and Planets</i> , 2006, 95, 639-645.	0.6	4
97	The problem of linking minor meteor showers to their parent bodies: initial considerations. <i>Earth, Moon and Planets</i> , 2006, 95, 19-26.	0.6	19
98	The Velocity Distribution of Meteoroids at the Earth as Measured by the Canadian Meteor Orbit Radar (CMOR). <i>Earth, Moon and Planets</i> , 2006, 95, 617-626.	0.6	24
99	ADVANTAGES OF SEARCHING FOR ASTEROIDS FROM LOW EARTH ORBIT: THE NEOSat MISSION. <i>Earth, Moon and Planets</i> , 2006, 95, 33-40.	0.6	9
100	HIGH SPATIAL AND TEMPORAL RESOLUTION OPTICAL SEARCH FOR EVIDENCE OF METEOROID FRAGMENTATION. <i>Earth, Moon and Planets</i> , 2006, 95, 587-593.	0.6	3
101	THE CORE OF THE QUADRANTID METEOROID STREAM IS TWO HUNDRED YEARS OLD. <i>Earth, Moon and Planets</i> , 2006, 95, 81-88.	0.6	3
102	OPTICAL TRAIL WIDTH MEASUREMENTS OF FAINT METEORS. <i>Earth, Moon and Planets</i> , 2006, 95, 579-586.	0.6	11
103	A search for interstellar meteoroids using the Canadian Meteor Orbit Radar (CMOR). <i>Earth, Moon and Planets</i> , 2006, 95, 221-227.	0.6	32
104	Photometric survey of binary near-Earth asteroids. <i>Icarus</i> , 2006, 181, 63-93.	2.5	250
105	The Canadian Meteor Orbit Radar: system overview and preliminary results. <i>Planetary and Space Science</i> , 2005, 53, 413-421.	1.7	112
106	Tumbling asteroids. <i>Icarus</i> , 2005, 173, 108-131.	2.5	127
107	The Quadrantid meteoroid complex. <i>Icarus</i> , 2005, 179, 139-157.	2.5	42
108	The Υ , Herculid meteor shower and Comet 73P/Schwassmann-Wachmann 3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 361, 638-644.	4.4	17

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109	A telescopic search for large Perseid meteoroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 348, 1395-1400.	4.4	13
110	Entry dynamics and acoustics/infrasonic/seismic analysis for the Neuschwanstein meteorite fall. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1605-1626.	1.6	56
111	The orbit, atmospheric dynamics, and initial mass of the Park Forest meteorite. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1781-1796.	1.6	64
112	Canadian Meteor Orbit Radar (CMOR). <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 679-684.	4.9	32
113	The Morāvka meteorite fall: 2. Interpretation of infrasonic and seismic data. <i>Meteoritics and Planetary Science</i> , 2003, 38, 989-1003.	1.6	43
114	The Morāvka meteorite fall: 3. Meteoroid initial size, history, structure, and composition. <i>Meteoritics and Planetary Science</i> , 2003, 38, 1005-1021.	1.6	26
115	The size of meteoroid constituent grains: Implications for interstellar meteoroids. <i>COSPAR Colloquia Series</i> , 2002, 15, 23-26.	0.2	1
116	An entry model for the Tagish Lake fireball using seismic, satellite and infrasound records. <i>Meteoritics and Planetary Science</i> , 2002, 37, 661-675.	1.6	145
117	The flux of small near-Earth objects colliding with the Earth. <i>Nature</i> , 2002, 420, 294-296.	27.8	403
118	Evidence for transverse spread in Leonid meteors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 313, L9-L13.	4.4	31
119	Fireball flickering: the case for indirect measurement of meteoroid rotation rates. <i>Planetary and Space Science</i> , 2000, 48, 925-932.	1.7	33
120	Image-intensified video results from the 1998 Leonid shower: I. Atmospheric trajectories and physical structure. <i>Meteoritics and Planetary Science</i> , 2000, 35, 1259-1267.	1.6	41
121	The Fall, Recovery, Orbit, and Composition of the Tagish Lake Meteorite: A New Type of Carbonaceous Chondrite. <i>Science</i> , 2000, 290, 320-325.	12.6	282
122	Detailed visual observations and modelling of the 1998 Leonid shower. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 319, 419-428.	4.4	13
123	Satellite impact probabilities: annual showers and the 1965 and 1966 Leonid storms. <i>Acta Astronautica</i> , 1999, 44, 281-292.	3.2	3
124	Risk Factors Associated with Falls in the Elderly Rehabilitation Client. <i>Australasian Journal on Ageing</i> , 1999, 18, 27-31.	0.9	7
125	Simulation of the Formation and Evolution of the Perseid Meteoroid Stream. <i>Icarus</i> , 1998, 133, 36-68.	2.5	68
126	Observations of the Geminids and Quadrantids using a stratosphere-troposphere radar. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 295, 847-859.	4.4	24

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127	Exposure history of the Peekskill (H6) meteorite. <i>Meteoritics and Planetary Science</i> , 1997, 32, 25-30.	1.6	15
128	Fall, recovery and description of the Coleman chondrite. <i>Meteoritics and Planetary Science</i> , 1997, 32, 781-790.	1.6	2
129	The fall of the Stâ€Robert meteorite. <i>Meteoritics and Planetary Science</i> , 1996, 31, 502-517.	1.6	57
130	Modelling the Orbital Evolution of the Perseid Meteoroids. <i>International Astronomical Union Colloquium</i> , 1996, 150, 105-108.	0.1	3
131	Dynamics of the Leonid Meteoroid Stream: a Numerical Approach. <i>International Astronomical Union Colloquium</i> , 1996, 150, 113-116.	0.1	2
132	Modelling the Ejection of Meteoroids from Comets. <i>International Astronomical Union Colloquium</i> , 1996, 150, 137-140.	0.1	0
133	Video observations, atmospheric path, orbit and fragmentation record of the fall of the Peekskill meteorite. <i>Earth, Moon and Planets</i> , 1996, 72, 395-404.	0.6	14
134	The 1995 outburst and possible origin of the a-Monocerotid meteoroid stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 279, L31-L36.	4.4	15
135	The Danger to Satellites from Meteor Stormsâ€™A Case Study of the Leonids. , 1996, , 13.		1
136	On the visibility of bright Venusian fireballs from Earth. <i>Earth, Moon and Planets</i> , 1995, 68, 171-179.	0.6	7
137	VLF detection of fireballs. <i>Earth, Moon and Planets</i> , 1995, 68, 181-188.	0.6	34
138	A determination of the strengths of the sporadic radio-meteor sources. <i>Earth, Moon and Planets</i> , 1995, 68, 223-245.	0.6	46
139	The orbit and atmospheric trajectory of the Peekskill meteorite from video records. <i>Nature</i> , 1994, 367, 624-626.	27.8	109
140	Impact probabilities on artificial satellites for the 1993 Perseid meteoroid stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 1993, 262, L35-L36.	4.4	12
141	Sporadic meteor radiant distributions: orbital survey results. <i>Monthly Notices of the Royal Astronomical Society</i> , 1993, 265, 524-532.	4.4	116
142	Triple-frequency meteor radar full wave scattering. <i>Measurements and comparison to theory. Astronomy and Astrophysics</i> , 0, , .	5.1	3
143	Development of a very faint meteor detection system based on an EMCCD sensor and matched filter processing. <i>Experimental Astronomy</i> , 0, , 1.	3.7	0