

# 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	The flux of small near-Earth objects colliding with the Earth. <i>Nature</i> , 2002, 420, 294-296.	27.8	403
2	A 500-kiloton airburst over Chelyabinsk and an enhanced hazard from small impactors. <i>Nature</i> , 2013, 503, 238-241.	27.8	348
3	The impact and recovery of asteroid 2008 TC3. <i>Nature</i> , 2009, 458, 485-488.	27.8	311
4	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
5	Photometric survey of binary near-Earth asteroids. <i>Icarus</i> , 2006, 181, 63-93.	2.5	250
6	The trajectory, structure and origin of the Chelyabinsk asteroidal impactor. <i>Nature</i> , 2013, 503, 235-237.	27.8	202
7	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	12.6	191
8	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
9	A meteoroid stream survey using the Canadian Meteor Orbit Radar. <i>Icarus</i> , 2010, 207, 66-81.	2.5	140
10	Tumbling asteroids. <i>Icarus</i> , 2005, 173, 108-131.	2.5	127
11	A meteoroid stream survey using the Canadian Meteor Orbit Radar. <i>Icarus</i> , 2008, 195, 317-339.	2.5	118
12	Sporadic meteor radiant distributions: orbital survey results. <i>Monthly Notices of the Royal Astronomical Society</i> , 1993, 265, 524-532.	4.4	116
13	The Canadian Meteor Orbit Radar: system overview and preliminary results. <i>Planetary and Space Science</i> , 2005, 53, 413-421.	1.7	112
14	The orbit and atmospheric trajectory of the Peekskill meteorite from video records. <i>Nature</i> , 1994, 367, 624-626.	27.8	109
15	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
16	The KoÅ¡ice meteorite fall: Atmospheric trajectory, fragmentation, and orbit. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1757-1779.	1.6	93
17	Binary asteroid population. 3. Secondary rotations and elongations. <i>Icarus</i> , 2016, 267, 267-295.	2.5	76
18	DYNAMICAL MODEL FOR THE TOROIDAL SPORADIC METEORS. <i>Astrophysical Journal</i> , 2014, 789, 25.	4.5	69

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19	Simulation of the Formation and Evolution of the Perseid Meteoroid Stream. <i>Icarus</i> , 1998, 133, 36-68.	2.5	68
20	Simultaneous radar and video meteorsâ€”II: Photometry and ionisation. <i>Planetary and Space Science</i> , 2013, 81, 32-47.	1.7	66
21	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
22	AN OPTICAL SURVEY FOR MILLIMETER-SIZED INTERSTELLAR METEOROID. <i>Astrophysical Journal</i> , 2012, 745, 161.	4.5	62
23	Identification of meteorite source regions in the Solar System. <i>Icarus</i> , 2018, 311, 271-287.	2.5	61
24	Meteor head echo radar data: Massâ€”velocity selection effects. <i>Icarus</i> , 2007, 186, 547-556.	2.5	59
25	The Canadian Automated Meteor Observatory (CAMO): System overview. <i>Icarus</i> , 2013, 225, 614-622.	2.5	59
26	Fall, recovery, and characterization of the Novato L6 chondrite breccia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1388-1425.	1.6	59
27	The fall of the Stâ€™Robert meteorite. <i>Meteoritics and Planetary Science</i> , 1996, 31, 502-517.	1.6	57
28	The Southern Ontario All-sky Meteor Camera Network. <i>Earth, Moon and Planets</i> , 2008, 102, 241-246.	0.6	57
29	The fall of the Grimsby meteoriteâ€”I: Fireball dynamics and orbit from radar, video, and infrasound records. <i>Meteoritics and Planetary Science</i> , 2011, 46, 339-363.	1.6	57
30	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
31	Entry dynamics and acoustics/infrasound/seismic analysis for the Neuschwanstein meteorite fall. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1605-1626.	1.6	56
32	Orbital and physical characteristics of meter-scale impactors from airburst observations. <i>Icarus</i> , 2016, 266, 96-111.	2.5	56
33	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
34	A determination of the strengths of the sporadic radio-meteor sources. <i>Earth, Moon and Planets</i> , 1995, 68, 223-245.	0.6	46
35	The Morãvka meteorite fall: 2. Interpretation of infrasound and seismic data. <i>Meteoritics and Planetary Science</i> , 2003, 38, 989-1003.	1.6	43
36	The Quadrantid meteoroid complex. <i>Icarus</i> , 2005, 179, 139-157.	2.5	42

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37	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
38	Neutral density variation from specular meteor echo observations spanning one solar cycle. <i>Geophysical Research Letters</i> , 2014, 41, 6919-6925.	4.0	37
39	Analysis of a crater-forming meteorite impact in Peru. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
40	Detecting Earth's temporarily-captured natural satellites "Minimoons". <i>Icarus</i> , 2014, 241, 280-297.	2.5	35
41	VLF detection of fireballs. <i>Earth, Moon and Planets</i> , 1995, 68, 181-188.	0.6	34
42	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
43	Fireball flickering: the case for indirect measurement of meteoroid rotation rates. <i>Planetary and Space Science</i> , 2000, 48, 925-932.	1.7	33
44	Bulk density of small meteoroids. <i>Astronomy and Astrophysics</i> , 2011, 530, A113.	5.1	33
45	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
46	Canadian Meteor Orbit Radar (CMOR). <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 679-684.	4.9	32
47	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
48	Evidence for transverse spread in Leonid meteors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 313, L9-L13.	4.4	31
49	On the age and formation mechanism of the core of the Quadrantid meteoroid stream. <i>Icarus</i> , 2015, 261, 100-117.	2.5	31
50	The SariÅsiÅsek howardite fall in Turkey: Source crater of <sc>HED</sc> meteorites on Vesta and impact risk of Vestoids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 953-1008.	1.6	30
51	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
52	The trajectory and atmospheric impact of asteroid 2014 AA. <i>Icarus</i> , 2016, 274, 327-333.	2.5	29
53	Estimating trajectories of meteors: an observational Monte Carlo approach " I. Theory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2688-2705.	4.4	28
54	The Canadian Meteor Orbit Radar Meteor Stream Catalogue. <i>Earth, Moon and Planets</i> , 2008, 102, 209-219.	0.6	27

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55	Meteorites from meteor showers: A case study of the Taurids. <i>Meteoritics and Planetary Science</i> , 2013, 48, 270-288.	1.6	27
56	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
57	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
58	Small Near-Earth Asteroids as a Source of Meteorites. , 2015, , .		27
59	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
60	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
61	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
62	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
63	The impact of planetary waves on the latitudinal displacement of sudden stratospheric warmings. <i>Annales Geophysicae</i> , 2013, 31, 1397-1415.	1.6	24
64	A reproducible method to determine the meteoroid mass index. <i>Astronomy and Astrophysics</i> , 2016, 592, A150.	5.1	24
65	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
66	Atmospheric energy deposition modeling and inference for varied meteoroid structures. <i>Icarus</i> , 2018, 315, 79-91.	2.5	24
67	Interhemispheric differences of mesosphereâ€œlower thermosphere winds and tides investigated from three whole-atmosphere models and meteor radar observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13855-13902.	4.9	24
68	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
69	Measurement of the meteoroid flux at Mars. <i>Icarus</i> , 2007, 191, 141-150.	2.5	23
70	The age and the probable parent body of the daytime arietid meteor shower. <i>Icarus</i> , 2017, 281, 417-443.	2.5	21
71	The impact and recovery of asteroid 2018 LA. <i>Meteoritics and Planetary Science</i> , 2021, 56, 844-893.	1.6	21
72	Formation and past evolution of the showers of 96P/Machholz complex. <i>Icarus</i> , 2018, 300, 360-385.	2.5	20

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73	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
74	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
75	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
76	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
77	The $\tilde{\iota}$ , 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
78	Global Detection of Infrasonic Signals from Three Large Bolides. <i>Earth, Moon and Planets</i> , 2008, 102, 357-363.	0.6	17
79	The Hamburg meteorite fall: Fireball trajectory, orbit, and dynamics. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2027-2045.	1.6	16
80	The 1995 outburst and possible origin of the $\alpha$ -Monocerotid meteoroid stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 279, L31-L36.	4.4	15
81	Exposure history of the Peekskill (H6) meteorite. <i>Meteoritics and Planetary Science</i> , 1997, 32, 25-30.	1.6	15
82	BANGS AND METEORS FROM THE QUIET COMET 15P/FINLAY. <i>Astrophysical Journal</i> , 2015, 814, 79.	4.5	15
83	Fully correcting the meteor speed distribution for radar observing biases. <i>Planetary and Space Science</i> , 2017, 143, 209-217.	1.7	15
84	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
85	Updated population and risk assessment for airbursts from near-earth objects (NEOs). , 2015, , .		14
86	Possible interstellar meteoroids detected by the Canadian Meteor Orbit Radar. <i>Planetary and Space Science</i> , 2020, 190, 104980.	1.7	14
87	A telescopic search for large Perseid meteoroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 348, 1395-1400.	4.4	13
88	Dynamical resonant structures in meteoroid stream orbits. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 1059-1076.	4.4	13
89	Infrasound Monitoring as a Tool to Characterize Impacting Near-Earth Objects (NEOs). , 2019, , 939-986.		13
90	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

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91	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
92	A 13-year radar study of the $\hat{\iota}$ -Aquariid meteor shower. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 3669-3675.	4.4	12
93	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
94	Coupling From the Middle Atmosphere to the Exobase: Dynamical Disturbance Effects on Light Chemical Species. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028331.	2.4	12
95	Supercatastrophic Disruption of Asteroids in the Context of SOHO Comet, Fireball, and Meteor Observations. <i>Astronomical Journal</i> , 2020, 159, 143.	4.7	12
96	A new method for measuring the meteor mass index: application to the 2018 Draconid meteor shower outburst. <i>Astronomy and Astrophysics</i> , 2020, 635, A153.	5.1	12
97	OPTICAL TRAIL WIDTH MEASUREMENTS OF FAINT METEORS. <i>Earth, Moon and Planets</i> , 2006, 95, 579-586.	0.6	11
98	Precision Measurements of Radar Transverse Scattering Speeds From Meteor Phase Characteristics. <i>Radio Science</i> , 2020, 55, e2019RS006987.	1.6	11
99	Estimating trajectories of meteors: an observational Monte Carlo approach – II. Results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 3996-4011.	4.4	11
100	Modeling the past and future activity of the Halleyid meteor showers. <i>Astronomy and Astrophysics</i> , 2020, 642, A120.	5.1	11
101	Physical characteristics of very small meteoroids. <i>Astronomy and Astrophysics</i> , 2009, 497, 851-867.	5.1	10
102	COMET 252P/LINEAR: BORN (ALMOST) DEAD?. <i>Astrophysical Journal Letters</i> , 2016, 818, L29.	8.3	10
103	IMPACT DETECTIONS OF TEMPORARILY CAPTURED NATURAL SATELLITES. <i>Astronomical Journal</i> , 2016, 151, 135.	4.7	10
104	Refinement of bolide characteristics from infrasound measurements. <i>Planetary and Space Science</i> , 2017, 143, 169-181.	1.7	10
105	ADVANTAGES OF SEARCHING FOR ASTEROIDS FROM LOW EARTH ORBIT: THE NEOSSat MISSION. <i>Earth, Moon and Planets</i> , 2006, 95, 33-40.	0.6	9
106	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
107	Detection of the Phoenicids meteor shower in 2014. <i>Planetary and Space Science</i> , 2017, 143, 132-137.	1.7	9
108	Activity of the Eta-Aquariid and Orionid meteor showers. <i>Astronomy and Astrophysics</i> , 2020, 640, A58.	5.1	9

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109	The Draconid Meteoroid Stream 2018: Prospects for Satellite Impact Detection. <i>Astrophysical Journal Letters</i> , 2018, 866, L8.	8.3	8
110	A dynamical analysis of the Taurid Complex: evidence for past orbital convergences. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2568-2591.	4.4	8
111	On the visibility of bright Venusian fireballs from Earth. <i>Earth, Moon and Planets</i> , 1995, 68, 171-179.	0.6	7
112	Risk Factors Associated with Falls in the Elderly Rehabilitation Client. <i>Australasian Journal on Ageing</i> , 1999, 18, 27-31.	0.9	7
113	Large Meteoroids as Global Infrasound Reference Events. , 2019, , 451-470.		7
114	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
115	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
116	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
117	Meteor shower detection with density-based clustering. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1048-1059.	1.6	5
118	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
119	Characteristics of very faint (+16) meteors detected with the Middle Atmosphere ALOMAR Radar System (MAARSY). <i>Icarus</i> , 2020, 340, 113444.	2.5	5
120	Dual frequency measurements of meteor head echoes simultaneously detected with the MAARSY and EISCAT radar systems. <i>Icarus</i> , 2021, 355, 114137.	2.5	5
121	Iron Rain: measuring the occurrence rate and origin of small iron meteoroids at Earth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 3684-3696.	4.4	5
122	Meteoroid Bulk Density Determination Using Radar Head Echo Observations. <i>Earth, Moon and Planets</i> , 2006, 95, 639-645.	0.6	4
123	Generating realistic synthetic meteoroid orbits. <i>Icarus</i> , 2017, 296, 197-215.	2.5	4
124	Coordinated optical and radar measurements of low velocity meteors. <i>Icarus</i> , 2020, 352, 113975.	2.5	4
125	Fireball characteristics derivable from acoustic data. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 216, 105587.	1.6	4
126	An observational synthesis of the Taurid meteor complex. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2318-2336.	4.4	4



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127	Modelling the Orbital Evolution of the Perseid Meteoroids. International Astronomical Union Colloquium, 1996, 150, 105-108.	0.1	3
128	Satellite impact probabilities: annual showers and the 1965 and 1966 Leonid storms. Acta Astronautica, 1999, 44, 281-292.	3.2	3
129	HIGH SPATIAL AND TEMPORAL RESOLUTION OPTICAL SEARCH FOR EVIDENCE OF METEOROID FRAGMENTATION. Earth, Moon and Planets, 2006, 95, 587-593.	0.6	3
130	THE CORE OF THE QUADRANTID METEOROID STREAM IS TWO HUNDRED YEARS OLD. Earth, Moon and Planets, 2006, 95, 81-88.	0.6	3
131	Triple-frequency meteor radar full wave scattering. Measurements and comparison to theory. Astronomy and Astrophysics, 0, , .	5.1	3
132	Dynamics of the Leonid Meteoroid Stream: a Numerical Approach. International Astronomical Union Colloquium, 1996, 150, 113-116.	0.1	2
133	Fall, recovery and description of the Coleman chondrite. Meteoritics and Planetary Science, 1997, 32, 781-790.	1.6	2
134	A two year survey for VLF emission from fireballs. Planetary and Space Science, 2020, 184, 104872.	1.7	2
135	The Southern Ontario All-sky Meteor Camera Network. , 2007, , 241-246.		2
136	Statistical Parameter Estimation for Observation Error Modelling: Application to Meteor Radars. , 2022, , 185-213.		2
137	The Danger to Satellites from Meteor Stormsâ€”A Case Study of the Leonids. , 1996, , 13.		1
138	The size of meteoroid constituent grains: Implications for interstellar meteoroids. COSPAR Colloquia Series, 2002, 15, 23-26.	0.2	1
139	Modelling the Ejection of Meteoroids from Comets. International Astronomical Union Colloquium, 1996, 150, 137-140.	0.1	0
140	Measuring the Meteoroid Environments of the Planets with Meteor Detectors on Earth. Astronomical Journal, 2017, 154, 36.	4.7	0
141	Impact Fireball. Encyclopedia of Earth Sciences Series, 2013, , 524-525.	0.1	0
142	The Canadian Meteor Orbit Radar Meteor Stream Catalogue. , 2007, , 209-219.		0
143	Development of a very faint meteor detection system based on an EMCCD sensor and matched filter processing. Experimental Astronomy, 0, , 1.	3.7	0