

Michael E Brown

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

6,608
citations

44
h-index

80
g-index

128
ext. papers

7,468
ext. citations

7.3
avg, IF

6.29
L-index

#	Paper	IF	Citations
125	A Search for Planet Nine using the Zwicky Transient Facility Public Archive. <i>Astronomical Journal</i> , 2022 , 163, 102	4.9	0
124	The Mid-UV Spectrum of Irradiated NaCl at Europa-like Conditions. <i>Planetary Science Journal</i> , 2022 , 3, 28	2.9	4
123	A New UV Spectral Feature on Europa: Confirmation of NaCl in Leading-hemisphere Chaos Terrain. <i>Planetary Science Journal</i> , 2022 , 3, 27	2.9	4
122	The Influence of Temperature and Photobleaching on Irradiated Sodium Chloride at Europa-like Conditions. <i>Planetary Science Journal</i> , 2022 , 3, 26	2.9	3
121	Limits on the Detection of Planet Nine in the Dark Energy Survey. <i>Astronomical Journal</i> , 2022 , 163, 216	4.9	
120	The Orbit of Planet Nine. <i>Astronomical Journal</i> , 2021 , 162, 219	4.9	4
119	Colors of Jupiter Trojan Dynamical Families as Measured by the Zwicky Transient Facility. <i>Research Notes of the AAS</i> , 2021 , 5, 42	0.8	1
118	Injection of Inner Oort Cloud Objects into the Distant Kuiper Belt by Planet Nine. <i>Astrophysical Journal Letters</i> , 2021 , 910, L20	7.9	5
117	Effect of H ₂ S on the Near-infrared Spectrum of Irradiation Residue and Applications to the Kuiper Belt Object (486958) Arrokoth. <i>Astrophysical Journal Letters</i> , 2021 , 914, L31	7.9	0
116	The Geographic Distribution of Dense-phase O ₂ on Ganymede. <i>Planetary Science Journal</i> , 2021 , 2, 139	2.9	1
115	Zwicky Transient Facility Observations of Trojan Asteroids: A Thousand Colors, Rotation Amplitudes, and Phase Functions. <i>Planetary Science Journal</i> , 2021 , 2, 40	2.9	3
114	The Orbit and Density of the Jupiter Trojan Satellite System Eurybates-Queta. <i>Planetary Science Journal</i> , 2021 , 2, 170	2.9	2
113	Size and Shape of (11351) Leucus from Five Occultations. <i>Planetary Science Journal</i> , 2021 , 2, 202	2.9	1
112	Endogenic and Exogenic Contributions to Visible-wavelength Spectra of Europa's Trailing Hemisphere. <i>Astronomical Journal</i> , 2020 , 160, 282	4.9	3
111	Convex Shape and Rotation Model of Lucy Target (11351) Leucus from Lightcurves and Occultations. <i>Planetary Science Journal</i> , 2020 , 1, 73	2.9	5
110	Orbital Clustering in the Distant Solar System. <i>Astronomical Journal</i> , 2019 , 157, 62	4.9	21
109	Photometry of Active Centaurs: Colors of Dormant Active Centaur Nuclei. <i>Astronomical Journal</i> , 2019 , 157, 225	4.9	7

108	Sodium chloride on the surface of Europa. <i>Science Advances</i> , 2019 , 5, eaaw7123	14.3	63
107	Multiband Photometry of a Patroclus-Menoetius Mutual Event: Constraints on Surface Heterogeneity. <i>Astronomical Journal</i> , 2019 , 157, 203	4.9	1
106	The Planet Nine hypothesis. <i>Physics Today</i> , 2019 , 72, 70-71	0.9	
105	LSST: From Science Drivers to Reference Design and Anticipated Data Products. <i>Astrophysical Journal</i> , 2019 , 873, 111	4.7	814
104	Hubble Ultraviolet Spectroscopy of Jupiter Trojans. <i>Astronomical Journal</i> , 2019 , 157, 161	4.9	5
103	The planet nine hypothesis. <i>Physics Reports</i> , 2019 , 805, 1-53	27.7	80
102	H ₂ O ₂ within Chaos Terrain on Europa's Leading Hemisphere. <i>Astronomical Journal</i> , 2019 , 158, 127	4.9	7
101	Europa's Optical Aurora: Update from Four New Hubble Eclipse Observations. <i>Research Notes of the AAS</i> , 2019 , 3, 27	0.8	0
100	Visible Near-infrared Spectral Evolution of Irradiated Mixed Ices and Application to Kuiper Belt Objects and Jupiter Trojans. <i>Astrophysical Journal</i> , 2018 , 856, 124	4.7	10
99	2004 EW 95 : A Phyllosilicate-bearing Carbonaceous Asteroid in the Kuiper Belt. <i>Astrophysical Journal Letters</i> , 2018 , 855, L26	7.9	8
98	Feasibility of a Resonance-based Planet Nine Search. <i>Astronomical Journal</i> , 2018 , 156, 74	4.9	8
97	The Generation of the Distant Kuiper Belt by Planet Nine from an Initially Broad Perihelion Distribution. <i>Astronomical Journal</i> , 2018 , 155, 250	4.9	17
96	Europa's Optical Aurora. <i>Astronomical Journal</i> , 2018 , 156, 167	4.9	5
95	ALMA Thermal Observations of Europa. <i>Astronomical Journal</i> , 2018 , 156, 161	4.9	8
94	Medium-sized Satellites of Large Kuiper Belt Objects. <i>Astronomical Journal</i> , 2018 , 156, 164	4.9	13
93	Phoebe: A Surface Dominated by Water. <i>Astronomical Journal</i> , 2018 , 156, 23	4.9	3
92	THE COLOR-MAGNITUDE DISTRIBUTION OF HILDA ASTEROIDS: COMPARISON WITH JUPITER TROJANS. <i>Astronomical Journal</i> , 2017 , 153, 69	4.9	9
91	The Bimodal Color Distribution of Small Kuiper Belt Objects. <i>Astronomical Journal</i> , 2017 , 153, 145	4.9	34

90	A New Spectral Feature on the Trailing Hemisphere of Europa at 3.78 μ m. <i>Astronomical Journal</i> , 2017 , 153, 250	4.9	8
89	The Density of Mid-sized Kuiper Belt Objects from ALMA Thermal Observations. <i>Astronomical Journal</i> , 2017 , 154, 19	4.9	19
88	Production of Sulfur Allotropes in Electron Irradiated Jupiter Trojans Ice Analogs. <i>Astrophysical Journal</i> , 2017 , 846, 148	4.7	11
87	Observational Bias and the Clustering of Distant Eccentric Kuiper Belt Objects. <i>Astronomical Journal</i> , 2017 , 154, 65	4.9	31
86	0.7 μ m Spectra of Hilda Asteroids. <i>Astronomical Journal</i> , 2017 , 154, 104	4.9	4
85	ALMA Thermal Observations of a Proposed Plume Source Region on Europa. <i>Astronomical Journal</i> , 2017 , 154, 148	4.9	9
84	SOLAR OBLIQUITY INDUCED BY PLANET NINE. <i>Astronomical Journal</i> , 2016 , 152, 126	4.9	60
83	ELECTRON IRRADIATION AND THERMAL PROCESSING OF MIXED-ICES OF POTENTIAL RELEVANCE TO JUPITER TROJAN ASTEROIDS. <i>Astrophysical Journal</i> , 2016 , 820, 141	4.7	9
82	OBSERVATIONAL CONSTRAINTS ON THE ORBIT AND LOCATION OF PLANET NINE IN THE OUTER SOLAR SYSTEM. <i>Astrophysical Journal Letters</i> , 2016 , 824, L23	7.9	94
81	EVIDENCE FOR A DISTANT GIANT PLANET IN THE SOLAR SYSTEM. <i>Astronomical Journal</i> , 2016 , 151, 22	4.9	271
80	THE 3 μ m SPECTRA OF JUPITER TROJAN ASTEROIDS. <i>Astronomical Journal</i> , 2016 , 152, 159	4.9	16
79	GENERATION OF HIGHLY INCLINED TRANS-NEPTUNIAN OBJECTS BY PLANET NINE. <i>Astrophysical Journal Letters</i> , 2016 , 833, L3	7.9	66
78	THE SHORT ROTATION PERIOD OF HI'AKA, HAUMEA'S LARGEST SATELLITE. <i>Astronomical Journal</i> , 2016 , 152, 195	4.9	11
77	A HYPOTHESIS FOR THE COLOR BIMODALITY OF JUPITER TROJANS. <i>Astronomical Journal</i> , 2016 , 152, 90	4.9	58
76	A DEEP SEARCH FOR ADDITIONAL SATELLITES AROUND THE DWARF PLANET HAUMEA. <i>Astronomical Journal</i> , 2016 , 151, 162	4.9	3
75	THE HUBBLE WIDE FIELD CAMERA 3 TEST OF SURFACES IN THE OUTER SOLAR SYSTEM: SPECTRAL VARIATION ON KUIPER BELT OBJECTS. <i>Astrophysical Journal</i> , 2015 , 804, 31	4.7	18
74	AN ALMA CONSTRAINT ON THE GSC 6214-210 B CIRCUM-SUBSTELLAR ACCRETION DISK MASS. <i>Astrophysical Journal Letters</i> , 2015 , 805, L17	7.9	25
73	THE COLOR-MAGNITUDE DISTRIBUTION OF SMALL JUPITER TROJANS. <i>Astronomical Journal</i> , 2015 , 150, 174	4.9	29

72	The Size and Shape of the Oblong Dwarf Planet Haumea. <i>Earth, Moon and Planets</i> , 2014 , 111, 127-137	0.6	25
71	THE DIFFERING MAGNITUDE DISTRIBUTIONS OF THE TWO JUPITER TROJAN COLOR POPULATIONS. <i>Astronomical Journal</i> , 2014 , 148, 112	4.9	33
70	THE SMALL NUMBERS OF LARGE KUIPER BELT OBJECTS. <i>Astronomical Journal</i> , 2014 , 147, 2	4.9	17
69	THE ABSOLUTE MAGNITUDE DISTRIBUTION OF KUIPER BELT OBJECTS. <i>Astrophysical Journal</i> , 2014 , 782, 100	4.7	163
68	The mass, orbit, and tidal evolution of the Quaoar-Meywot system. <i>Icarus</i> , 2013 , 222, 357-363	3.8	23
67	Kuiper Belt Occultation Predictions. <i>Publications of the Astronomical Society of the Pacific</i> , 2013 , 125, 1000-1014	5	5
66	LIMITS ON QUAOAR'S ATMOSPHERE. <i>Astrophysical Journal Letters</i> , 2013 , 774, L18	7.9	8
65	The Compositions of Kuiper Belt Objects. <i>Annual Review of Earth and Planetary Sciences</i> , 2012 , 40, 467-494	4.3	87
64	THE HUBBLE WIDE FIELD CAMERA 3 TEST OF SURFACES IN THE OUTER SOLAR SYSTEM: THE COMPOSITIONAL CLASSES OF THE KUIPER BELT. <i>Astrophysical Journal</i> , 2012 , 749, 33	4.7	81
63	INSTABILITY-DRIVEN DYNAMICAL EVOLUTION MODEL OF A PRIMORDIALLY FIVE-PLANET OUTER SOLAR SYSTEM. <i>Astrophysical Journal Letters</i> , 2012 , 744, L3	7.9	89
62	RETENTION OF A PRIMORDIAL COLD CLASSICAL KUIPER BELT IN AN INSTABILITY-DRIVEN MODEL OF SOLAR SYSTEM FORMATION. <i>Astrophysical Journal</i> , 2011 , 738, 13	4.7	103
61	QUAOAR: A ROCK IN THE KUIPER BELT. <i>Astrophysical Journal</i> , 2010 , 714, 1547-1550	4.7	30
60	EARLY DYNAMICAL EVOLUTION OF THE SOLAR SYSTEM: PINNING DOWN THE INITIAL CONDITIONS OF THE NICE MODEL. <i>Astrophysical Journal</i> , 2010 , 716, 1323-1331	4.7	83
59	PROPERTIES OF THE DISTANT KUIPER BELT: RESULTS FROM THE PALOMAR DISTANT SOLAR SYSTEM SURVEY. <i>Astrophysical Journal</i> , 2010 , 720, 1691-1707	4.7	62
58	Clouds on Titan during the Cassini prime mission: A complete analysis of the VIMS data. <i>Icarus</i> , 2010 , 205, 571-580	3.8	49
57	The luminosity function of the hot and cold Kuiper belt populations. <i>Icarus</i> , 2010 , 210, 944-955	3.8	64
56	No sodium in the vapour plumes of Enceladus. <i>Nature</i> , 2009 , 459, 1102-4	50.4	37
55	A SEARCH FOR DISTANT SOLAR SYSTEM BODIES IN THE REGION OF SEDNA. <i>Astrophysical Journal</i> , 2009 , 694, L45-L48	4.7	24

54	Seasonal Change on Titan 2009 , 353-372		4
53	Tentative detection of the rotation of Eris. <i>Icarus</i> , 2008 , 198, 459-464	3.8	14
52	Interpretation of the near-IR spectra of the Kuiper Belt Object (136472) 2005 FY9. <i>Journal of Geophysical Research</i> , 2007 , 112,		12
51	A collisional family of icy objects in the Kuiper belt. <i>Nature</i> , 2007 , 446, 294-6	50.4	159
50	The Surface of 2003 EL61 in the Near-Infrared. <i>Astrophysical Journal</i> , 2007 , 655, 1172-1178	4.7	70
49	The mass of dwarf planet Eris. <i>Science</i> , 2007 , 316, 1585	33.3	75
48	Titan imagery with Keck adaptive optics during and after probe entry. <i>Journal of Geophysical Research</i> , 2006 , 111,		16
47	PLANETESIMALS TO BROWN DWARFS: What is a Planet?. <i>Annual Review of Earth and Planetary Sciences</i> , 2006 , 34, 193-216	15.3	46
46	Photometric Observations Constraining the Size, Shape, and Albedo of 2003 EL61, a Rapidly Rotating, Pluto-sized Object in the Kuiper Belt. <i>Astrophysical Journal</i> , 2006 , 639, 1238-1251	4.7	138
45	Hubble Space Telescope NICMOS Observations of T Dwarfs: Brown Dwarf Multiplicity and New Probes of the L/T Transition. <i>Astrophysical Journal, Supplement Series</i> , 2006 , 166, 585-612	8	159
44	A large cloud outburst at Titan's south pole. <i>Icarus</i> , 2006 , 182, 224-229	3.8	80
43	Dissipation of Titan's south polar clouds. <i>Icarus</i> , 2006 , 184, 517-523	3.8	73
42	Near-Infrared Surface Properties of the Two Intrinsically Brightest Minor Planets: (90377) Sedna and (90482) Orcus. <i>Astrophysical Journal</i> , 2005 , 627, 1057-1065	4.7	36
41	Statistics of Titan's South Polar Tropospheric Clouds. <i>Astrophysical Journal</i> , 2005 , 618, L53-L56	4.7	40
40	A 5-micron-bright spot on Titan: evidence for surface diversity. <i>Science</i> , 2005 , 310, 92-5	33.3	73
39	Geographic control of Titan's mid-latitude clouds. <i>Science</i> , 2005 , 310, 477-9	33.3	72
38	Discovery of a Candidate Inner Oort Cloud Planetoid. <i>Astrophysical Journal</i> , 2004 , 617, 645-649	4.7	201
37	The Plane of the Kuiper Belt. <i>Astronomical Journal</i> , 2004 , 127, 2418-2423	4.9	23

36	Direct Measurement of the Size of the Large Kuiper Belt Object (50000) Quaoar. <i>Astronomical Journal</i> , 2004 , 127, 2413-2417	4.9	59
35	Photometric Variability at the L/T Dwarf Boundary. <i>Astronomical Journal</i> , 2003 , 126, 1006-1016	4.9	83
34	Adaptive optics imaging of a stellar occultation by Titan 2003 ,		3
33	Binarity in Brown Dwarfs: T Dwarf Binaries Discovered with the Hubble Space Telescope Wide Field and Deep Survey. <i>Astronomical Journal</i> , 2003 , 126, 1006-1016	4.7	324
32	Direct detection of variable tropospheric clouds near Titan's south pole. <i>Nature</i> , 2002 , 420, 795-7	50.4	149
31	Pluto and Charon: Formation, Seasons, Composition. <i>Annual Review of Earth and Planetary Sciences</i> , 2002 , 30, 307-345	15.3	22
30	The Spectra of T Dwarfs. I. Near-Infrared Data and Spectral Classification. <i>Astrophysical Journal</i> , 2002 , 564, 421-451	4.7	329
29	A Correlation between Inclination and Color in the Classical Kuiper Belt. <i>Astrophysical Journal</i> , 2002 , 566, L125-L128	4.7	120
28	Long-Term Dynamics and the Orbital Inclinations of the Classical Kuiper Belt Objects. <i>Astronomical Journal</i> , 2002 , 124, 1221-1230	4.9	32
27	The Radial Distribution of the Kuiper Belt. <i>Astrophysical Journal</i> , 2001 , 554, L95-L98	4.7	97
26	Potassium in Europa's Atmosphere. <i>Icarus</i> , 2001 , 151, 190-195	3.8	76
25	The Inclination Distribution of the Kuiper Belt. <i>Astronomical Journal</i> , 2001 , 121, 2804-2814	4.9	221
24	Discovery of a Bright Field Methane (T-Type) Brown Dwarf by 2MASS. <i>Astronomical Journal</i> , 2000 , 120, 1100-1105	4.9	84
23	Solar system science with subarcsecond slit spectroscopy 2000 , 4007, 811		1
22	Detection of H α Emission in a Methane (T Type) Brown Dwarf. <i>Astronomical Journal</i> , 2000 , 120, 473-478	4.9	64
21	Eclipse Spectroscopy of Io's Atmosphere. <i>Icarus</i> , 2000 , 148, 316-319	3.8	18
20	Near-Infrared Spectroscopy of Centaurs and Irregular Satellites. <i>Astronomical Journal</i> , 2000 , 119, 977-984	4.9	64
19	Discovery of a Brown Dwarf Companion to Gliese 570ABC: A 2MASS T Dwarf Significantly Cooler than Gliese 229B. <i>Astrophysical Journal</i> , 2000 , 531, L57-L60	4.7	175

18	Thermal infrared spectroscopy of Europa and Callisto. <i>Journal of Geophysical Research</i> , 2000 , 105, 15051-15059;		
17	Near-Infrared Spectroscopy of the Bright Kuiper Belt Object 2000 EB173. <i>Astrophysical Journal</i> , 2000 , 543, L163-L165	4.7	24
16	Discovery of Four Field Methane (T-Type) Dwarfs with the Two Micron All-Sky Survey. <i>Astrophysical Journal</i> , 1999 , 522, L65-L68	4.7	168
15	Observations of the Ion Pile-up in Comets HaleBopp and Hyakutake. <i>Icarus</i> , 1999 , 137, 62-68	3.8	5
14	Imaging the Haro 6-10 Infrared Companion. <i>Astrophysical Journal</i> , 1999 , 525, L49-L52	4.7	13
13	Detection of water ice on Nereid. <i>Astrophysical Journal</i> , 1998 , 508, L175-6	4.7	14
12	Keck Speckle Imaging of the White Dwarf G29-38: No Brown Dwarf Companion Detected. <i>Astrophysical Journal</i> , 1998 , 508, L81-L83	4.7	19
11	The Photometric Growth of Two Shoemaker-Levy 9 Impact Sites on Jupiter. <i>Astronomical Journal</i> , 1998 , 116, 972-980	4.9	
10	Detection of Water Ice on the Centaur 1997 CU ₂₆ . <i>Astrophysical Journal</i> , 1998 , 505, L65-L67.	4.7	41
9	An Analysis of the Statistics of the [ITAL]Hubble Space Telescope[/ITAL] Kuiper Belt Object Search. <i>Astrophysical Journal</i> , 1997 , 490, L119-L122	4.7	13
8	Discovery of an extended sodium atmosphere around Europa. <i>Nature</i> , 1996 , 380, 229-231	50.4	92
7	Comet Shoemaker-Levy 9: No effect on the Io plasma torus. <i>Geophysical Research Letters</i> , 1995 , 22, 1833-1835	4.9	3
6	Periodicities in the Io plasma torus. <i>Journal of Geophysical Research</i> , 1995 , 100, 21683-21695		38
5	Observation of mass loading in the Io plasma torus. <i>Geophysical Research Letters</i> , 1994 , 21, 847-850	4.9	63
4	Kinematics of the ion tail of comet P/Swift-Tuttle. <i>Astronomical Journal</i> , 1994 , 108, 1462	4.9	12
3	Observations of the plasma flow in comet P/Swift-Tuttle. <i>Geophysical Research Letters</i> , 1993 , 20, 1003-1005	4.9	2
2	The Velocity Distribution of Cometary Hydrogen: Evidence for High Velocities?. <i>Icarus</i> , 1993 , 104, 197-205	5.8	2
1	The Shane Wirtanen counts - Observability of the galaxy correlation function. <i>Astrophysical Journal</i> , 1989 , 338, 605	4.7	2

