

# Michael E Brown

## List of Publications by Year in descending order

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126  
papers

8,677  
citations

53794

45  
h-index

46799

89  
g-index

128  
all docs

128  
docs citations

128  
times ranked

5973  
citing authors

#	ARTICLE	IF	CITATIONS
1	LSST: From Science Drivers to Reference Design and Anticipated Data Products. <i>Astrophysical Journal</i> , 2019, 873, 111.	4.5	1,744
2	The Spectra of T Dwarfs. I. Near-Infrared Data and Spectral Classification. <i>Astrophysical Journal</i> , 2002, 564, 421-451.	4.5	364
3	Binarity in Brown Dwarfs: T Dwarf Binaries Discovered with the Hubble Space Telescope Wide Field and of Charge Camera 2. <i>Astrophysical Journal</i> , 2003, 586, 512-526.	4.5	355
4	EVIDENCE FOR A DISTANT GIANT PLANET IN THE SOLAR SYSTEM. <i>Astronomical Journal</i> , 2016, 151, 22.	4.7	351
5	The Inclination Distribution of the Kuiper Belt. <i>Astronomical Journal</i> , 2001, 121, 2804-2814.	4.7	273
6	Discovery of a Candidate Inner Oort Cloud Planetoid. <i>Astrophysical Journal</i> , 2004, 617, 645-649.	4.5	225
7	THE ABSOLUTE MAGNITUDE DISTRIBUTION OF KUIPER BELT OBJECTS. <i>Astrophysical Journal</i> , 2014, 782, 100.	4.5	202
8	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.	4.5	191
9	A collisional family of icy objects in the Kuiper belt. <i>Nature</i> , 2007, 446, 294-296.	27.8	187
10	Discovery of Four Field Methane (T-Type) Dwarfs with the Two Micron All-Sky Survey. <i>Astrophysical Journal</i> , 1999, 522, L65-L68.	4.5	181
11	Hubble Space Telescope NICMOS Observations of T Dwarfs: Brown Dwarf Multiplicity and New Probes of the L/T Transition. <i>Astrophysical Journal</i> , Supplement Series, 2006, 166, 585-612.	7.7	179
12	Direct detection of variable tropospheric clouds near Titan's south pole. <i>Nature</i> , 2002, 420, 795-797.	27.8	164
13	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.	4.5	152
14	A Correlation between Inclination and Color in the Classical Kuiper Belt. <i>Astrophysical Journal</i> , 2002, 566, L125-L128.	4.5	138
15	RETENTION OF A PRIMORDIAL COLD CLASSICAL KUIPER BELT IN AN INSTABILITY-DRIVEN MODEL OF SOLAR SYSTEM FORMATION. <i>Astrophysical Journal</i> , 2011, 738, 13.	4.5	123
16	The Radial Distribution of the Kuiper Belt. <i>Astrophysical Journal</i> , 2001, 554, L95-L98.	4.5	119
17	Sodium chloride on the surface of Europa. <i>Science Advances</i> , 2019, 5, eaaw7123.	10.3	119
18	The planet nine hypothesis. <i>Physics Reports</i> , 2019, 805, 1-53.	25.6	114

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19	OBSERVATIONAL CONSTRAINTS ON THE ORBIT AND LOCATION OF PLANET NINE IN THE OUTER SOLAR SYSTEM. <i>Astrophysical Journal Letters</i> , 2016, 824, L23.	8.3	112
20	INSTABILITY-DRIVEN DYNAMICAL EVOLUTION MODEL OF A PRIMORDIALLY FIVE-PLANET OUTER SOLAR SYSTEM. <i>Astrophysical Journal Letters</i> , 2012, 744, L3.	8.3	109
21	The Compositions of Kuiper Belt Objects. <i>Annual Review of Earth and Planetary Sciences</i> , 2012, 40, 467-494.	11.0	108
22	Discovery of an extended sodium atmosphere around Europa. <i>Nature</i> , 1996, 380, 229-231.	27.8	102
23	EARLY DYNAMICAL EVOLUTION OF THE SOLAR SYSTEM: PINNING DOWN THE INITIAL CONDITIONS OF THE NICE MODEL. <i>Astrophysical Journal</i> , 2010, 716, 1323-1331.	4.5	101
24	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.	4.5	97
25	Potassium in Europa's Atmosphere. <i>Icarus</i> , 2001, 151, 190-195.	2.5	94
26	Photometric Variability at the L/T Dwarf Boundary. <i>Astronomical Journal</i> , 2003, 126, 1006-1016.	4.7	92
27	Discovery of a Bright Field Methane (T-Type) Brown Dwarf by 2MASS. <i>Astronomical Journal</i> , 2000, 120, 1100-1105.	4.7	89
28	The Mass of Dwarf Planet Eris. <i>Science</i> , 2007, 316, 1585-1585.	12.6	88
29	A large cloud outburst at Titan's south pole. <i>Icarus</i> , 2006, 182, 224-229.	2.5	84
30	Near-Infrared Spectroscopy of Centaurs and Irregular Satellites. <i>Astronomical Journal</i> , 2000, 119, 977-983.	4.7	79
31	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. <i>Science</i> , 2005, 310, 92-95.	12.6	78
32	GENERATION OF HIGHLY INCLINED TRANS-NEPTUNIAN OBJECTS BY PLANET NINE. <i>Astrophysical Journal Letters</i> , 2016, 833, L3.	8.3	77
33	A HYPOTHESIS FOR THE COLOR BIMODALITY OF JUPITER TROJANS. <i>Astronomical Journal</i> , 2016, 152, 90.	4.7	77
34	The Surface of 2003 EL61 in the Near-Infrared. <i>Astrophysical Journal</i> , 2007, 655, 1172-1178.	4.5	76
35	Geographic Control of Titan's Mid-Latitude Clouds. <i>Science</i> , 2005, 310, 477-479.	12.6	75
36	Dissipation of Titan's south polar clouds. <i>Icarus</i> , 2006, 184, 517-523.	2.5	74

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37	SOLAR OBLIQUITY INDUCED BY PLANET NINE. <i>Astronomical Journal</i> , 2016, 152, 126.	4.7	69
38	Direct Measurement of the Size of the Large Kuiper Belt Object (50000) Quaoar. <i>Astronomical Journal</i> , 2004, 127, 2413-2417.	4.7	67
39	The luminosity function of the hot and cold Kuiper belt populations. <i>Icarus</i> , 2010, 210, 944-955.	2.5	66
40	PROPERTIES OF THE DISTANT KUIPER BELT: RESULTS FROM THE PALOMAR DISTANT SOLAR SYSTEM SURVEY. <i>Astrophysical Journal</i> , 2010, 720, 1691-1707.	4.5	66
41	Observation of mass loading in the Io plasma torus. <i>Geophysical Research Letters</i> , 1994, 21, 847-850.	4.0	65
42	Detection of H $\pm$ Emission in a Methane (T Type) Brown Dwarf. <i>Astronomical Journal</i> , 2000, 120, 473-478.	4.7	65
43	PLANETESIMALS TO BROWN DWARFS: What is a Planet?. <i>Annual Review of Earth and Planetary Sciences</i> , 2006, 34, 193-216.	11.0	56
44	Clouds on Titan during the Cassini prime mission: A complete analysis of the VIMS data. <i>Icarus</i> , 2010, 205, 571-580.	2.5	51
45	Detection of Water Ice on the Centaur 1997 CU $_{26}$ . <i>Astrophysical Journal</i> , 1998, 505, L65-L67.	4.5	48
46	The Bimodal Color Distribution of Small Kuiper Belt Objects*. <i>Astronomical Journal</i> , 2017, 153, 145.	4.7	46
47	Periodicities in the Io plasma torus. <i>Journal of Geophysical Research</i> , 1995, 100, 21683-21695.	3.3	42
48	Long-Term Dynamics and the Orbital Inclinations of the Classical Kuiper Belt Objects. <i>Astronomical Journal</i> , 2002, 124, 1221-1230.	4.7	42
49	Statistics of Titan's South Polar Tropospheric Clouds. <i>Astrophysical Journal</i> , 2005, 618, L53-L56.	4.5	41
50	No sodium in the vapour plumes of Enceladus. <i>Nature</i> , 2009, 459, 1102-1104.	27.8	41
51	THE DIFFERING MAGNITUDE DISTRIBUTIONS OF THE TWO JUPITER TROJAN COLOR POPULATIONS. <i>Astronomical Journal</i> , 2014, 148, 112.	4.7	41
52	Near-Infrared Surface Properties of the Two Intrinsically Brightest Minor Planets: (90377) Sedna and (90482) Orcus. <i>Astrophysical Journal</i> , 2005, 627, 1057-1065.	4.5	39
53	THE COLOR-MAGNITUDE DISTRIBUTION OF SMALL JUPITER TROJANS. <i>Astronomical Journal</i> , 2015, 150, 174.	4.7	39
54	QUAOAR: A ROCK IN THE KUIPER BELT. <i>Astrophysical Journal</i> , 2010, 714, 1547-1550.	4.5	36

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55	Observational Bias and the Clustering of Distant Eccentric Kuiper Belt Objects. <i>Astronomical Journal</i> , 2017, 154, 65.	4.7	35
56	Orbital Clustering in the Distant Solar System. <i>Astronomical Journal</i> , 2019, 157, 62.	4.7	29
57	Pluto and Charon: Formation, Seasons, Composition. <i>Annual Review of Earth and Planetary Sciences</i> , 2002, 30, 307-345.	11.0	28
58	The mass, orbit, and tidal evolution of the Quaoar-Weywot system. <i>Icarus</i> , 2013, 222, 357-363.	2.5	28
59	The Size and Shape of the Oblong Dwarf Planet Haumea. <i>Earth, Moon and Planets</i> , 2014, 111, 127-137.	0.6	28
60	AN ALMA CONSTRAINT ON THE GSC 6214-210 B CIRCUM-SUBSTELLAR ACCRETION DISK MASS. <i>Astrophysical Journal Letters</i> , 2015, 805, L17.	8.3	28
61	Near-Infrared Spectroscopy of the Bright Kuiper Belt Object 2000 EB173. <i>Astrophysical Journal</i> , 2000, 543, L163-L165.	4.5	28
62	The Plane of the Kuiper Belt. <i>Astronomical Journal</i> , 2004, 127, 2418-2423.	4.7	27
63	A SEARCH FOR DISTANT SOLAR SYSTEM BODIES IN THE REGION OF SEDNA. <i>Astrophysical Journal</i> , 2009, 694, L45-L48.	4.5	26
64	The Density of Mid-sized Kuiper Belt Objects from ALMA Thermal Observations. <i>Astronomical Journal</i> , 2017, 154, 19.	4.7	25
65	THE 3-4 $\mu$ m SPECTRA OF JUPITER TROJAN ASTEROIDS. <i>Astronomical Journal</i> , 2016, 152, 159.	4.7	25
66	A New UV Spectral Feature on Europa: Confirmation of NaCl in Leading-hemisphere Chaos Terrain. <i>Planetary Science Journal</i> , 2022, 3, 27.	3.6	25
67	Detection of Water Ice on Nereid. <i>Astrophysical Journal</i> , 1998, 508, L175-L176.	4.5	24
68	The Orbit of Planet Nine. <i>Astronomical Journal</i> , 2021, 162, 219.	4.7	23
69	Eclipse Spectroscopy of Io's Atmosphere. <i>Icarus</i> , 2000, 148, 316-319.	2.5	22
70	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.	4.5	22
71	Medium-sized Satellites of Large Kuiper Belt Objects. <i>Astronomical Journal</i> , 2018, 156, 164.	4.7	22
72	Keck Speckle Imaging of the White Dwarf G29-38: No Brown Dwarf Companion Detected. <i>Astrophysical Journal</i> , 1998, 508, L81-L83.	4.5	21

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73	H <sub>2</sub> O <sub>2</sub> within Chaos Terrain on Europa's Leading Hemisphere. <i>Astronomical Journal</i> , 2019, 158, 127.	4.7	20
74	THE SMALL NUMBERS OF LARGE KUIPER BELT OBJECTS. <i>Astronomical Journal</i> , 2014, 147, 2.	4.7	19
75	Titan imagery with Keck adaptive optics during and after probe entry. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	18
76	ALMA Thermal Observations of Europa. <i>Astronomical Journal</i> , 2018, 156, 161.	4.7	18
77	Production of Sulfur Allotropes in Electron Irradiated Jupiter Trojans Ice Analogs. <i>Astrophysical Journal</i> , 2017, 846, 148.	4.5	17
78	The Generation of the Distant Kuiper Belt by Planet Nine from an Initially Broad Perihelion Distribution. <i>Astronomical Journal</i> , 2018, 155, 250.	4.7	17
79	Tentative detection of the rotation of Eris. <i>Icarus</i> , 2008, 198, 459-464.	2.5	16
80	THE SHORT ROTATION PERIOD OF HI'AKA, HAUMEA'S LARGEST SATELLITE. <i>Astronomical Journal</i> , 2016, 152, 195.	4.7	15
81	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.	4.5	15
82	2004 EW <sub>95</sub> : A Phyllosilicate-bearing Carbonaceous Asteroid in the Kuiper Belt. <i>Astrophysical Journal Letters</i> , 2018, 855, L26.	8.3	15
83	THE COLOR-MAGNITUDE DISTRIBUTION OF HILDA ASTEROIDS: COMPARISON WITH JUPITER TROJANS. <i>Astronomical Journal</i> , 2017, 153, 69.	4.7	14
84	Injection of Inner Oort Cloud Objects into the Distant Kuiper Belt by Planet Nine. <i>Astrophysical Journal Letters</i> , 2021, 910, L20.	8.3	14
85	Imaging the Haro 6-10 Infrared Companion. <i>Astrophysical Journal</i> , 1999, 525, L49-L52.	4.5	13
86	Interpretation of the near-IR spectra of the Kuiper Belt Object (136472) 2005 FY9. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13
87	ELECTRON IRRADIATION AND THERMAL PROCESSING OF MIXED-ICES OF POTENTIAL RELEVANCE TO JUPITER TROJAN ASTEROIDS. <i>Astrophysical Journal</i> , 2016, 820, 141.	4.5	13
88	ALMA Thermal Observations of a Proposed Plume Source Region on Europa. <i>Astronomical Journal</i> , 2017, 154, 148.	4.7	13
89	Photometry of Active Centaurs: Colors of Dormant Active Centaur Nuclei. <i>Astronomical Journal</i> , 2019, 157, 225.	4.7	13
90	Hubble Ultraviolet Spectroscopy of Jupiter Trojans. <i>Astronomical Journal</i> , 2019, 157, 161.	4.7	13

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91	Kinematics of the ion tail of comet P/Swift-Tuttle. <i>Astronomical Journal</i> , 1994, 108, 1462.	4.7	13
92	An Analysis of the Statistics of the [ITAL]Hubble Space Telescope[/ITAL] Kuiper Belt Object Search. <i>Astrophysical Journal</i> , 1997, 490, L119-L122.	4.5	13
93	Endogenic and Exogenic Contributions to Visible-wavelength Spectra of Europa's Trailing Hemisphere. <i>Astronomical Journal</i> , 2020, 160, 282.	4.7	12
94	A New Spectral Feature on the Trailing Hemisphere of Europa at 3.78 $\mu$ m. <i>Astronomical Journal</i> , 2017, 153, 250.	4.7	11
95	Convex Shape and Rotation Model of Lucy Target (11351) Leucus from Lightcurves and Occultations. <i>Planetary Science Journal</i> , 2020, 1, 73.	3.6	11
96	The Orbit and Density of the Jupiter Trojan Satellite System Eurybates's Queta. <i>Planetary Science Journal</i> , 2021, 2, 170.	3.6	10
97	Europa's Optical Aurora. <i>Astronomical Journal</i> , 2018, 156, 167.	4.7	9
98	Zwicky Transient Facility Observations of Trojan Asteroids: A Thousand Colors, Rotation Amplitudes, and Phase Functions. <i>Planetary Science Journal</i> , 2021, 2, 40.	3.6	9
99	LIMITS ON QUAOAR'S ATMOSPHERE. <i>Astrophysical Journal Letters</i> , 2013, 774, L18.	8.3	8
100	Phoebe: A Surface Dominated by Water. <i>Astronomical Journal</i> , 2018, 156, 23.	4.7	8
101	Feasibility of a Resonance-based Planet Nine Search. <i>Astronomical Journal</i> , 2018, 156, 74.	4.7	8
102	A Search for Planet Nine using the Zwicky Transient Facility Public Archive. <i>Astronomical Journal</i> , 2022, 163, 102.	4.7	8
103	Size and Shape of (11351) Leucus from Five Occultations. <i>Planetary Science Journal</i> , 2021, 2, 202.	3.6	7
104	The Mid-UV Spectrum of Irradiated NaCl at Europa-like Conditions. <i>Planetary Science Journal</i> , 2022, 3, 28.	3.6	7
105	Observations of the Ion Pile-up in Comets Hale-Bopp and Hyakutake. <i>Icarus</i> , 1999, 137, 62-68.	2.5	6
106	Thermal infrared spectroscopy of Europa and Callisto. <i>Journal of Geophysical Research</i> , 2000, 105, 15051-15059.	3.3	6
107	0.7-2.5 $\mu$ m Spectra of Hilda Asteroids. <i>Astronomical Journal</i> , 2017, 154, 104.	4.7	6
108	The Influence of Temperature and Photobleaching on Irradiated Sodium Chloride at Europa-like Conditions. <i>Planetary Science Journal</i> , 2022, 3, 26.	3.6	6

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109	Comet Shoemaker-Levy 9: No effect on the Io plasma torus. <i>Geophysical Research Letters</i> , 1995, 22, 1833-1835.	4.0	5
110	Kuiper Belt Occultation Predictions. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 1000-1014.	3.1	5
111	A DEEP SEARCH FOR ADDITIONAL SATELLITES AROUND THE DWARF PLANET HAUMEA. <i>Astronomical Journal</i> , 2016, 151, 162.	4.7	5
112	The Geographic Distribution of Dense-phase O <sub>2</sub> on Ganymede. <i>Planetary Science Journal</i> , 2021, 2, 139.	3.6	5
113	Limits on the Detection of Planet Nine in the Dark Energy Survey. <i>Astronomical Journal</i> , 2022, 163, 216.	4.7	5
114	Observations of the plasma flow in comet P/Swift-Tuttle. <i>Geophysical Research Letters</i> , 1993, 20, 1003-1006.	4.0	4
115	<title>Solar system science with subarcsecond slit spectroscopy</title> . , 2000, 4007, 811.		4
116	Multiband Photometry of a Patroclus-Menoetius Mutual Event: Constraints on Surface Heterogeneity. <i>Astronomical Journal</i> , 2019, 157, 203.	4.7	4
117	Seasonal Change on Titan. , 2009, , 353-372.		4
118	The Velocity Distribution of Cometary Hydrogen: Evidence for High Velocities?. <i>Icarus</i> , 1993, 104, 197-205.	2.5	3
119	Adaptive optics imaging of a stellar occultation by Titan. , 2003, , .		3
120	Effect of H <sub>2</sub> 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.	8.3	3
121	The Shane Wirtanen counts - Observability of the galaxy correlation function. <i>Astrophysical Journal</i> , 1989, 338, 605.	4.5	2
122	Colors of Jupiter Trojan Dynamical Families as Measured by the Zwicky Transient Facility. <i>Research Notes of the AAS</i> , 2021, 5, 42.	0.7	1
123	Europa's Optical Aurora: Update from Four New Hubble Eclipse Observations. <i>Research Notes of the AAS</i> , 2019, 3, 27.	0.7	1
124	An ALMA Search for High-albedo Objects Among the Midsized Jupiter Trojan Population. <i>Astronomical Journal</i> , 2022, 164, 23.	4.7	1
125	The Photometric Growth of Two Shoemaker-Levy 9 Impact Sites on Jupiter. <i>Astronomical Journal</i> , 1998, 116, 972-980.	4.7	0
126	The Planet Nine hypothesis. <i>Physics Today</i> , 2019, 72, 70-71.	0.3	0