

# Michael E Brown

## List of Publications by Citations

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125  
papers

6,608  
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44  
h-index

80  
g-index

128  
ext. papers

7,468  
ext. citations

7.3  
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6.29  
L-index

#	Paper	IF	Citations
125	LSST: From Science Drivers to Reference Design and Anticipated Data Products. <i>Astrophysical Journal</i> , <b>2019</b> , 873, 111	4.7	814
124	The Spectra of T Dwarfs. I. Near-Infrared Data and Spectral Classification. <i>Astrophysical Journal</i> , <b>2002</b> , 564, 421-451	4.7	329
123	Binarity in Brown Dwarfs: T Dwarf Binaries Discovered with the Hubble Space Telescope Wide Field and Deep Survey. <i>Astrophysical Journal</i> , <b>2003</b> , 586, 512-526	4.7	324
122	EVIDENCE FOR A DISTANT GIANT PLANET IN THE SOLAR SYSTEM. <i>Astronomical Journal</i> , <b>2016</b> , 151, 22	4.9	271
121	The Inclination Distribution of the Kuiper Belt. <i>Astronomical Journal</i> , <b>2001</b> , 121, 2804-2814	4.9	221
120	Discovery of a Candidate Inner Oort Cloud Planetoid. <i>Astrophysical Journal</i> , <b>2004</b> , 617, 645-649	4.7	201
119	Discovery of a Brown Dwarf Companion to Gliese 570ABC: A 2MASS T Dwarf Significantly Cooler than Gliese 229B. <i>Astrophysical Journal</i> , <b>2000</b> , 531, L57-L60	4.7	175
118	Discovery of Four Field Methane (T-Type) Dwarfs with the Two Micron All-Sky Survey. <i>Astrophysical Journal</i> , <b>1999</b> , 522, L65-L68	4.7	168
117	THE ABSOLUTE MAGNITUDE DISTRIBUTION OF KUIPER BELT OBJECTS. <i>Astrophysical Journal</i> , <b>2014</b> , 782, 100	4.7	163
116	A collisional family of icy objects in the Kuiper belt. <i>Nature</i> , <b>2007</b> , 446, 294-6	50.4	159
115	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> , <b>2006</b> , 166, 585-612	8	159
114	Direct detection of variable tropospheric clouds near Titan's south pole. <i>Nature</i> , <b>2002</b> , 420, 795-7	50.4	149
113	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> , <b>2006</b> , 639, 1238-1251	4.7	138
112	A Correlation between Inclination and Color in the Classical Kuiper Belt. <i>Astrophysical Journal</i> , <b>2002</b> , 566, L125-L128	4.7	120
111	RETENTION OF A PRIMORDIAL COLD CLASSICAL KUIPER BELT IN AN INSTABILITY-DRIVEN MODEL OF SOLAR SYSTEM FORMATION. <i>Astrophysical Journal</i> , <b>2011</b> , 738, 13	4.7	103
110	The Radial Distribution of the Kuiper Belt. <i>Astrophysical Journal</i> , <b>2001</b> , 554, L95-L98	4.7	97
109	OBSERVATIONAL CONSTRAINTS ON THE ORBIT AND LOCATION OF PLANET NINE IN THE OUTER SOLAR SYSTEM. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 824, L23	7.9	94

108	Discovery of an extended sodium atmosphere around Europa. <i>Nature</i> , <b>1996</b> , 380, 229-231	50.4	92
107	INSTABILITY-DRIVEN DYNAMICAL EVOLUTION MODEL OF A PRIMORDIALLY FIVE-PLANET OUTER SOLAR SYSTEM. <i>Astrophysical Journal Letters</i> , <b>2012</b> , 744, L3	7.9	89
106	The Compositions of Kuiper Belt Objects. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2012</b> , 40, 467-494	4.3	87
105	Discovery of a Bright Field Methane (T-Type) Brown Dwarf by 2MASS. <i>Astronomical Journal</i> , <b>2000</b> , 120, 1100-1105	4.9	84
104	EARLY DYNAMICAL EVOLUTION OF THE SOLAR SYSTEM: PINNING DOWN THE INITIAL CONDITIONS OF THE NICE MODEL. <i>Astrophysical Journal</i> , <b>2010</b> , 716, 1323-1331	4.7	83
103	Photometric Variability at the L/T Dwarf Boundary. <i>Astronomical Journal</i> , <b>2003</b> , 126, 1006-1016	4.9	83
102	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> , <b>2012</b> , 749, 33	4.7	81
101	The planet nine hypothesis. <i>Physics Reports</i> , <b>2019</b> , 805, 1-53	27.7	80
100	A large cloud outburst at Titan's south pole. <i>Icarus</i> , <b>2006</b> , 182, 224-229	3.8	80
99	Potassium in Europa's Atmosphere. <i>Icarus</i> , <b>2001</b> , 151, 190-195	3.8	76
98	The mass of dwarf planet Eris. <i>Science</i> , <b>2007</b> , 316, 1585	33.3	75
97	Dissipation of Titan's south polar clouds. <i>Icarus</i> , <b>2006</b> , 184, 517-523	3.8	73
96	A 5-micron-bright spot on Titan: evidence for surface diversity. <i>Science</i> , <b>2005</b> , 310, 92-5	33.3	73
95	Geographic control of Titan's mid-latitude clouds. <i>Science</i> , <b>2005</b> , 310, 477-9	33.3	72
94	The Surface of 2003 EL61 in the Near-Infrared. <i>Astrophysical Journal</i> , <b>2007</b> , 655, 1172-1178	4.7	70
93	GENERATION OF HIGHLY INCLINED TRANS-NEPTUNIAN OBJECTS BY PLANET NINE. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 833, L3	7.9	66
92	The luminosity function of the hot and cold Kuiper belt populations. <i>Icarus</i> , <b>2010</b> , 210, 944-955	3.8	64
91	Detection of H $\epsilon$ Emission in a Methane (T Type) Brown Dwarf. <i>Astronomical Journal</i> , <b>2000</b> , 120, 473-478	4.9	64

90	Near-Infrared Spectroscopy of Centaurs and Irregular Satellites. <i>Astronomical Journal</i> , <b>2000</b> , 119, 977-983.	4.9	64
89	Sodium chloride on the surface of Europa. <i>Science Advances</i> , <b>2019</b> , 5, eaaw7123	14.3	63
88	Observation of mass loading in the Io plasma torus. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 847-850	4.9	63
87	PROPERTIES OF THE DISTANT KUIPER BELT: RESULTS FROM THE PALOMAR DISTANT SOLAR SYSTEM SURVEY. <i>Astrophysical Journal</i> , <b>2010</b> , 720, 1691-1707	4.7	62
86	SOLAR OBLIQUITY INDUCED BY PLANET NINE. <i>Astronomical Journal</i> , <b>2016</b> , 152, 126	4.9	60
85	Direct Measurement of the Size of the Large Kuiper Belt Object (50000) Quaoar. <i>Astronomical Journal</i> , <b>2004</b> , 127, 2413-2417	4.9	59
84	A HYPOTHESIS FOR THE COLOR BIMODALITY OF JUPITER TROJANS. <i>Astronomical Journal</i> , <b>2016</b> , 152, 90	4.9	58
83	Clouds on Titan during the Cassini prime mission: A complete analysis of the VIMS data. <i>Icarus</i> , <b>2010</b> , 205, 571-580	3.8	49
82	PLANETESIMALS TO BROWN DWARFS: What is a Planet?. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2006</b> , 34, 193-216	15.3	46
81	Detection of Water Ice on the Centaur 1997 CU <sub>26</sub> [TINF]. <i>Astrophysical Journal</i> , <b>1998</b> , 505, L65-L67.	4.7	41
80	Statistics of Titan's South Polar Tropospheric Clouds. <i>Astrophysical Journal</i> , <b>2005</b> , 618, L53-L56	4.7	40
79	Periodicities in the Io plasma torus. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 21683-21695		38
78	No sodium in the vapour plumes of Enceladus. <i>Nature</i> , <b>2009</b> , 459, 1102-4	50.4	37
77	Near-Infrared Surface Properties of the Two Intrinsically Brightest Minor Planets: (90377) Sedna and (90482) Orcus. <i>Astrophysical Journal</i> , <b>2005</b> , 627, 1057-1065	4.7	36
76	The Bimodal Color Distribution of Small Kuiper Belt Objects. <i>Astronomical Journal</i> , <b>2017</b> , 153, 145	4.9	34
75	THE DIFFERING MAGNITUDE DISTRIBUTIONS OF THE TWO JUPITER TROJAN COLOR POPULATIONS. <i>Astronomical Journal</i> , <b>2014</b> , 148, 112	4.9	33
74	Long-Term Dynamics and the Orbital Inclinations of the Classical Kuiper Belt Objects. <i>Astronomical Journal</i> , <b>2002</b> , 124, 1221-1230	4.9	32
73	Observational Bias and the Clustering of Distant Eccentric Kuiper Belt Objects. <i>Astronomical Journal</i> , <b>2017</b> , 154, 65	4.9	31

72	QUAOAR: A ROCK IN THE KUIPER BELT. <i>Astrophysical Journal</i> , <b>2010</b> , 714, 1547-1550	4.7	30
71	THE COLORMAGNITUDE DISTRIBUTION OF SMALL JUPITER TROJANS. <i>Astronomical Journal</i> , <b>2015</b> , 150, 174	4.9	29
70	The Size and Shape of the Oblong Dwarf Planet Haumea. <i>Earth, Moon and Planets</i> , <b>2014</b> , 111, 127-137	0.6	25
69	AN ALMA CONSTRAINT ON THE GSC 6214-210 B CIRCUM-SUBSTELLAR ACCRETION DISK MASS. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 805, L17	7.9	25
68	A SEARCH FOR DISTANT SOLAR SYSTEM BODIES IN THE REGION OF SEDNA. <i>Astrophysical Journal</i> , <b>2009</b> , 694, L45-L48	4.7	24
67	Near-Infrared Spectroscopy of the Bright Kuiper Belt Object 2000 EB173. <i>Astrophysical Journal</i> , <b>2000</b> , 543, L163-L165	4.7	24
66	The mass, orbit, and tidal evolution of the QuaoarWeywot system. <i>Icarus</i> , <b>2013</b> , 222, 357-363	3.8	23
65	The Plane of the Kuiper Belt. <i>Astronomical Journal</i> , <b>2004</b> , 127, 2418-2423	4.9	23
64	Pluto and Charon: Formation, Seasons, Composition. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2002</b> , 30, 307-345	15.3	22
63	Orbital Clustering in the Distant Solar System. <i>Astronomical Journal</i> , <b>2019</b> , 157, 62	4.9	21
62	The Density of Mid-sized Kuiper Belt Objects from ALMA Thermal Observations. <i>Astronomical Journal</i> , <b>2017</b> , 154, 19	4.9	19
61	Keck Speckle Imaging of the White Dwarf G29-38: No Brown Dwarf Companion Detected. <i>Astrophysical Journal</i> , <b>1998</b> , 508, L81-L83	4.7	19
60	THEHUBBLEWIDE FIELD CAMERA 3 TEST OF SURFACES IN THE OUTER SOLAR SYSTEM: SPECTRAL VARIATION ON KUIPER BELT OBJECTS. <i>Astrophysical Journal</i> , <b>2015</b> , 804, 31	4.7	18
59	Eclipse Spectroscopy of Io's Atmosphere. <i>Icarus</i> , <b>2000</b> , 148, 316-319	3.8	18
58	The Generation of the Distant Kuiper Belt by Planet Nine from an Initially Broad Perihelion Distribution. <i>Astronomical Journal</i> , <b>2018</b> , 155, 250	4.9	17
57	THE SMALL NUMBERS OF LARGE KUIPER BELT OBJECTS. <i>Astronomical Journal</i> , <b>2014</b> , 147, 2	4.9	17
56	Titan imagery with Keck adaptive optics during and after probe entry. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		16
55	THE 34th SPECTRA OF JUPITER TROJAN ASTEROIDS. <i>Astronomical Journal</i> , <b>2016</b> , 152, 159	4.9	16

54	Tentative detection of the rotation of Eris. <i>Icarus</i> , <b>2008</b> , 198, 459-464	3.8	14
53	Detection of water ice on Nereid. <i>Astrophysical Journal</i> , <b>1998</b> , 508, L175-6	4.7	14
52	Imaging the Haro 6-10 Infrared Companion. <i>Astrophysical Journal</i> , <b>1999</b> , 525, L49-L52	4.7	13
51	An Analysis of the Statistics of the [ITAL]Hubble Space Telescope[/ITAL] Kuiper Belt Object Search. <i>Astrophysical Journal</i> , <b>1997</b> , 490, L119-L122	4.7	13
50	Medium-sized Satellites of Large Kuiper Belt Objects. <i>Astronomical Journal</i> , <b>2018</b> , 156, 164	4.9	13
49	Interpretation of the near-IR spectra of the Kuiper Belt Object (136472) 2005 FY9. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		12
48	Kinematics of the ion tail of comet P/Swift-Tuttle. <i>Astronomical Journal</i> , <b>1994</b> , 108, 1462	4.9	12
47	Production of Sulfur Allotropes in Electron Irradiated Jupiter Trojans Ice Analogs. <i>Astrophysical Journal</i> , <b>2017</b> , 846, 148	4.7	11
46	THE SHORT ROTATION PERIOD OF HILDA, HAUMEA'S LARGEST SATELLITE. <i>Astronomical Journal</i> , <b>2016</b> , 152, 195	4.9	11
45	Visible Near-infrared Spectral Evolution of Irradiated Mixed Ices and Application to Kuiper Belt Objects and Jupiter Trojans. <i>Astrophysical Journal</i> , <b>2018</b> , 856, 124	4.7	10
44	THE COLOR-MAGNITUDE DISTRIBUTION OF HILDA ASTEROIDS: COMPARISON WITH JUPITER TROJANS. <i>Astronomical Journal</i> , <b>2017</b> , 153, 69	4.9	9
43	ELECTRON IRRADIATION AND THERMAL PROCESSING OF MIXED-ICES OF POTENTIAL RELEVANCE TO JUPITER TROJAN ASTEROIDS. <i>Astrophysical Journal</i> , <b>2016</b> , 820, 141	4.7	9
42	ALMA Thermal Observations of a Proposed Plume Source Region on Europa. <i>Astronomical Journal</i> , <b>2017</b> , 154, 148	4.9	9
41	A New Spectral Feature on the Trailing Hemisphere of Europa at 3.78 $\mu$ m. <i>Astronomical Journal</i> , <b>2017</b> , 153, 250	4.9	8
40	2004 EW 95 : A Phyllosilicate-bearing Carbonaceous Asteroid in the Kuiper Belt. <i>Astrophysical Journal Letters</i> , <b>2018</b> , 855, L26	7.9	8
39	Feasibility of a Resonance-based Planet Nine Search. <i>Astronomical Journal</i> , <b>2018</b> , 156, 74	4.9	8
38	LIMITS ON QUAOAR'S ATMOSPHERE. <i>Astrophysical Journal Letters</i> , <b>2013</b> , 774, L18	7.9	8
37	ALMA Thermal Observations of Europa. <i>Astronomical Journal</i> , <b>2018</b> , 156, 161	4.9	8

36	Photometry of Active Centaurs: Colors of Dormant Active Centaur Nuclei. <i>Astronomical Journal</i> , <b>2019</b> , 157, 225	4.9	7
35	H <sub>2</sub> O <sub>2</sub> within Chaos Terrain on Europa's Leading Hemisphere. <i>Astronomical Journal</i> , <b>2019</b> , 158, 127	4.9	7
34	Hubble Ultraviolet Spectroscopy of Jupiter Trojans. <i>Astronomical Journal</i> , <b>2019</b> , 157, 161	4.9	5
33	Kuiper Belt Occultation Predictions. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2013</b> , 125, 1000-1014	5	5
32	Observations of the Ion Pile-up in Comets Hale-Bopp and Hyakutake. <i>Icarus</i> , <b>1999</b> , 137, 62-68	3.8	5
31	Convex Shape and Rotation Model of Lucy Target (11351) Leucus from Lightcurves and Occultations. <i>Planetary Science Journal</i> , <b>2020</b> , 1, 73	2.9	5
30	Injection of Inner Oort Cloud Objects into the Distant Kuiper Belt by Planet Nine. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 910, L20	7.9	5
29	Europa's Optical Aurora. <i>Astronomical Journal</i> , <b>2018</b> , 156, 167	4.9	5
28	0.7-2.5 $\mu$ m Spectra of Hilda Asteroids. <i>Astronomical Journal</i> , <b>2017</b> , 154, 104	4.9	4
27	The Mid-UV Spectrum of Irradiated NaCl at Europa-like Conditions. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 28	2.9	4
26	A New UV Spectral Feature on Europa: Confirmation of NaCl in Leading-hemisphere Chaos Terrain. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 27	2.9	4
25	The Orbit of Planet Nine. <i>Astronomical Journal</i> , <b>2021</b> , 162, 219	4.9	4
24	Seasonal Change on Titan <b>2009</b> , 353-372		4
23	Adaptive optics imaging of a stellar occultation by Titan <b>2003</b> ,		3
22	Thermal infrared spectroscopy of Europa and Callisto. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 15051-15059		3
21	Comet Shoemaker-Levy 9: No effect on the Io plasma torus. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 1833-1835	4.9	3
20	The Influence of Temperature and Photobleaching on Irradiated Sodium Chloride at Europa-like Conditions. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 26	2.9	3
19	Endogenic and Exogenic Contributions to Visible-wavelength Spectra of Europa's Trailing Hemisphere. <i>Astronomical Journal</i> , <b>2020</b> , 160, 282	4.9	3

18	A DEEP SEARCH FOR ADDITIONAL SATELLITES AROUND THE DWARF PLANET HAUMEA. <i>Astronomical Journal</i> , <b>2016</b> , 151, 162	4.9	3
17	Zwicky Transient Facility Observations of Trojan Asteroids: A Thousand Colors, Rotation Amplitudes, and Phase Functions. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 40	2.9	3
16	Phoebe: A Surface Dominated by Water. <i>Astronomical Journal</i> , <b>2018</b> , 156, 23	4.9	3
15	Observations of the plasma flow in comet P/Swift-Tuttle. <i>Geophysical Research Letters</i> , <b>1993</b> , 20, 1003-1006	4.9	2
14	The Velocity Distribution of Cometary Hydrogen: Evidence for High Velocities?. <i>Icarus</i> , <b>1993</b> , 104, 197-205	3.8	2
13	The Shane Wirtanen counts - Observability of the galaxy correlation function. <i>Astrophysical Journal</i> , <b>1989</b> , 338, 605	4.7	2
12	The Orbit and Density of the Jupiter Trojan Satellite System Eurybates-Queta. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 170	2.9	2
11	Multiband Photometry of a Patroclus-Menoetius Mutual Event: Constraints on Surface Heterogeneity. <i>Astronomical Journal</i> , <b>2019</b> , 157, 203	4.9	1
10	Solar system science with subarcsecond slit spectroscopy <b>2000</b> , 4007, 811		1
9	Colors of Jupiter Trojan Dynamical Families as Measured by the Zwicky Transient Facility. <i>Research Notes of the AAS</i> , <b>2021</b> , 5, 42	0.8	1
8	The Geographic Distribution of Dense-phase O <sub>2</sub> on Ganymede. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 139	2.9	1
7	Size and Shape of (11351) Leucus from Five Occultations. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 202	2.9	1
6	A Search for Planet Nine using the Zwicky Transient Facility Public Archive. <i>Astronomical Journal</i> , <b>2022</b> , 163, 102	4.9	0
5	Europa's Optical Aurora: Update from Four New Hubble Eclipse Observations. <i>Research Notes of the AAS</i> , <b>2019</b> , 3, 27	0.8	0
4	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> , <b>2021</b> , 914, L31	7.9	0
3	The Planet Nine hypothesis. <i>Physics Today</i> , <b>2019</b> , 72, 70-71	0.9	
2	The Photometric Growth of Two Shoemaker-Levy 9 Impact Sites on Jupiter. <i>Astronomical Journal</i> , <b>1998</b> , 116, 972-980	4.9	
1	Limits on the Detection of Planet Nine in the Dark Energy Survey. <i>Astronomical Journal</i> , <b>2022</b> , 163, 216	4.9	



