

Jeffrey M Moore

List of Publications by Year in descending order

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96
papers

6,182
citations

71102

41
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69250

77
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99
all docs

99
docs citations

99
times ranked

3273
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	8.3	32
2	Large-scale cryovolcanic resurfacing on Pluto. <i>Nature Communications</i> , 2022, 13, 1542.	12.8	15
3	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. <i>Planetary Science Journal</i> , 2022, 3, 112.	3.6	15
4	The Geophysical Environment of (486958) Arrokoth—A Small Kuiper Belt Object Explored by <i>New Horizons</i>. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	18
5	Detection of Radio Thermal Emission from the Kuiper Belt Object (486958) Arrokoth during the New Horizons Encounter. <i>Planetary Science Journal</i> , 2022, 3, 109.	3.6	3
6	Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
7	Cryovolcanic flooding in Viking Terra on Pluto. <i>Icarus</i> , 2021, 356, 113786.	2.5	9
8	Origins of pits and troughs and degradation on a small primitive planetesimal in the Kuiper Belt: high-resolution topography of (486958) Arrokoth (aka 2014 MU69) from New Horizons. <i>Icarus</i> , 2021, 356, 113834.	2.5	5
9	Geologically Diverse Pluto and Charon: Implications for the Dwarf Planets of the Kuiper Belt. <i>Annual Review of Earth and Planetary Sciences</i> , 2021, 49, 173-200.	11.0	10
10	Morphological comparison of blocks in chaos terrains on Pluto, Europa, and Mars. <i>Icarus</i> , 2021, 356, 113866.	2.5	15
11	Charon—s Far Side Geomorphology. <i>Planetary Science Journal</i> , 2021, 2, 141.	3.6	2
12	Triton: Topography and Geology of a Probable Ocean World with Comparison to Pluto and Charon. <i>Remote Sensing</i> , 2021, 13, 3476.	4.0	7
13	Modeling global-scale mass flows on the Lagrangian satellites of Dione and Tethys. <i>Icarus</i> , 2021, 369, 114612.	2.5	3
14	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	4.5	42
15	The Dark Side of Pluto. <i>Planetary Science Journal</i> , 2021, 2, 214.	3.6	2
16	Collisions of Small Kuiper Belt Objects With (486958) Arrokoth: Implications for Its Spin Evolution and Bulk Density. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006961.	3.6	3
17	Landslides on Charon. <i>Icarus</i> , 2020, 335, 113383.	2.5	12
18	Topography and geology of Uranian mid-sized icy satellites in comparison with Saturnian and Plutonian satellites. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20200102.	3.4	24

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19	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	64
20	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	76
21	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	12.6	79
22	Migrating Scarps as a Significant Driver for Cometary Surface Evolution. <i>Geophysical Research Letters</i> , 2019, 46, 12794-12804.	4.0	10
23	The nature and origin of Charon's smooth plains. <i>Icarus</i> , 2019, 323, 16-32.	2.5	26
24	Geologic Landforms and Chronostratigraphic History of Charon as Revealed by a Hemispheric Geologic Map. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 155-174.	3.6	11
25	Detection of ammonia on Pluto's surface in a region of geologically recent tectonism. <i>Science Advances</i> , 2019, 5, eaav5731.	10.3	49
26	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	12.6	113
27	Recent cryovolcanism in Virgil Fossae on Pluto. <i>Icarus</i> , 2019, 330, 155-168.	2.5	45
28	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	12.6	116
29	Washboard and fluted terrains on Pluto as evidence for ancient glaciation. <i>Nature Astronomy</i> , 2019, 3, 62-68.	10.1	10
30	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018, 300, 129-144.	2.5	47
31	Investigation of Charon's Craters With Abrupt Terminus Ejecta, Comparisons With Other Icy Bodies, and Formation Implications. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 20-36.	3.6	9
32	Formation of metre-scale bladed roughness on Europa's surface by ablation of ice. <i>Nature Geoscience</i> , 2018, 11, 901-904.	12.9	25
33	Dunes on Pluto. <i>Science</i> , 2018, 360, 992-997.	12.6	81
34	Breaking up is hard to do: Global cartography and topography of Pluto's mid-sized icy Moon Charon from New Horizons. <i>Icarus</i> , 2018, 315, 124-145.	2.5	29
35	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU ₆₉ (aka Ultima Thule). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120.	4.0	14
36	Basins, fractures and volcanoes: Global cartography and topography of Pluto from New Horizons. <i>Icarus</i> , 2018, 314, 400-433.	2.5	75

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37	Geological mapping of Sputnik Planitia on Pluto. <i>Icarus</i> , 2017, 287, 261-286.	2.5	52
38	Pluto: Pits and mantles on uplands north and east of Sputnik Planitia. <i>Icarus</i> , 2017, 293, 218-230.	2.5	24
39	Charon tectonics. <i>Icarus</i> , 2017, 287, 161-174.	2.5	30
40	Topographic Constraints on the Evolution and Connectivity of Titan's Lacustrine Basins. <i>Geophysical Research Letters</i> , 2017, 44, 11,745.	4.0	43
41	Climate zones on Pluto and Charon. <i>Icarus</i> , 2017, 287, 30-36.	2.5	34
42	Sublimation as a landform-shaping process on Pluto. <i>Icarus</i> , 2017, 287, 320-333.	2.5	51
43	Mean radius and shape of Pluto and Charon from New Horizons images. <i>Icarus</i> , 2017, 287, 12-29.	2.5	105
44	Present and past glaciation on Pluto. <i>Icarus</i> , 2017, 287, 287-300.	2.5	43
45	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	2.5	59
46	Modeling of ice pinnacle formation on Callisto. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 21-45.	3.6	23
47	The rapid formation of Sputnik Planitia early in Pluto's history. <i>Nature</i> , 2016, 540, 97-99.	27.8	34
48	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. <i>Nature</i> , 2016, 540, 94-96.	27.8	108
49	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
50	Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. <i>Nature</i> , 2016, 534, 82-85.	27.8	102
51	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
52	The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030.	12.6	78
53	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
54	Formation of gravel pavements during fluvial erosion as an explanation for persistence of ancient cratered terrain on Titan and Mars. <i>Icarus</i> , 2016, 270, 100-113.	2.5	21

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55	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
56	Geology before Pluto: Pre-encounter considerations. <i>Icarus</i> , 2015, 246, 65-81.	2.5	29
57	The landscape of Titan as witness to its climate evolution. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2060-2077.	3.6	26
58	Fluvial features on Titan: Insights from morphology and modeling. <i>Bulletin of the Geological Society of America</i> , 2013, 125, 299-321.	3.3	93
59	Evidence for a short period of hydrologic activity in Newton crater, Mars, near the Hesperian-Amazonian transition. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1082-1093.	3.6	8
60	Sublimation-driven erosion on Hyperion: Topographic analysis and landform simulation model tests. <i>Icarus</i> , 2012, 220, 268-276.	2.5	17
61	Correction to "Are the basins of Titan's Hotei Regio and Tui Regio sites of former low latitude seas?". <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	3
62	Titan: An exogenic world?. <i>Icarus</i> , 2011, 212, 790-806.	2.5	93
63	Are the basins of Titan's Hotei Regio and Tui Regio sites of former low latitude seas?. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	36
64	Laboratory simulations of Mars evaporite geochemistry. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12
65	Evidence for ancient lakes in the Hellas region. , 2010, , 195-222.		9
66	Long-term precipitation and late-stage valley network formation: Landform simulations of Parana Basin, Mars. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	95
67	Tectonics of the outer planet satellites. , 2009, , 264-350.		30
68	Icy Satellites: Geological Evolution and Surface Processes. , 2009, , 637-681.		34
69	Ralph: A Visible/Infrared Imager for the New Horizons Pluto/Kuiper Belt Mission. <i>Space Science Reviews</i> , 2008, 140, 129-154.	8.1	141
70	Sublimation-driven erosion on Callisto: A landform simulation model test. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	26
71	Soil sedimentology at Gusev Crater from Columbia Memorial Station to Winter Haven. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	21
72	Geomorphic and stratigraphic analysis of Crater Terby and layered deposits north of Hellas basin, Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	108

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73	Atmospheric conditions on early Mars and the missing layered carbonates. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	58
74	Quantitative geomorphic modeling of Martian bedrock shorelines. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	26
75	Large alluvial fans on Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	190
76	An intense terminal epoch of widespread fluvial activity on early Mars: 1. Valley network incision and associated deposits. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	269
77	An intense terminal epoch of widespread fluvial activity on early Mars: 2. Increased runoff and paleolake development. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	334
78	Blueberry fields for ever. <i>Nature</i> , 2004, 428, 711-712.	27.8	34
79	Laboratory simulations of Mars aqueous geochemistry. <i>Icarus</i> , 2004, 170, 404-423.	2.5	38
80	Large impact features on middle-sized icy satellites. <i>Icarus</i> , 2004, 171, 421-443.	2.5	75
81	Aqueous alteration of Mars-analog rocks under an acidic atmosphere. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	16
82	Martian Layered Fluvial Deposits: Implications for Noachian Climate Scenarios. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	165
83	Hellas as a Possible Site of Ancient Ice-Covered Lakes on Mars. <i>Icarus</i> , 2001, 154, 258-276.	2.5	156
84	Stereo topography of the south polar region of Mars: Volatile inventory and Mars Polar Lander landing site. <i>Journal of Geophysical Research</i> , 2000, 105, 24529-24546.	3.3	23
85	Mass Movement and Landform Degradation on the Icy Galilean Satellites: Results of the Galileo Nominal Mission. <i>Icarus</i> , 1999, 140, 294-312.	2.5	128
86	Evidence for a subsurface ocean on Europa. <i>Nature</i> , 1998, 391, 363-365.	27.8	514
87	Large Impact Features on Europa: Results of the Galileo Nominal Mission. <i>Icarus</i> , 1998, 135, 127-145.	2.5	110
88	Dark Terrain on Ganymede: Geological Mapping and Interpretation of Galileo Regio at High Resolution. <i>Icarus</i> , 1998, 135, 317-344.	2.5	119
89	Geologic Landforms and Processes on Icy Satellites. <i>Astrophysics and Space Science Library</i> , 1998, , 551-578.	2.7	11
90	Mass Wasting and Ground Collapse in Terrains of Volatile-Rich Deposits as a Solar System-Wide Geological Process: The Pre-Galileo View. <i>Icarus</i> , 1996, 122, 63-78.	2.5	56

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91	The influence of thermal inertia on temperatures and frost stability on Triton. <i>Icarus</i> , 1992, 99, 261-272.	2.5	82
92	KOYAANISMUUYAW: THE HYPOTHESIS OF A PERENNIALY DICHOTOMOUS TRITON. <i>Geophysical Research Letters</i> , 1990, 17, 1757-1760.	4.0	33
93	Dome craters on Ganymede. <i>Geophysical Research Letters</i> , 1988, 15, 225-228.	4.0	41
94	The geomorphology of Rhea: Implications for geologic history and surface processes. <i>Journal of Geophysical Research</i> , 1985, 90, C785.	3.3	32
95	The tectonic and volcanic history of Dione. <i>Icarus</i> , 1984, 59, 205-220.	2.5	60
96	The geology of Tethys. <i>Journal of Geophysical Research</i> , 1983, 88, A577.	3.3	39