

Jeffrey M Moore

List of Publications by Year in descending order

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96
papers

6,182
citations

71102

41
h-index

69250

77
g-index

99
all docs

99
docs citations

99
times ranked

3273
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a subsurface ocean on Europa. <i>Nature</i> , 1998, 391, 363-365.	27.8	514
2	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
3	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
4	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
5	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
6	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
7	Large alluvial fans on Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	190
8	Martian Layered Fluvial Deposits: Implications for Noachian Climate Scenarios. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	165
9	Hellas as a Possible Site of Ancient Ice-Covered Lakes on Mars. <i>Icarus</i> , 2001, 154, 258-276.	2.5	156
10	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
11	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
12	Dark Terrain on Ganymede: Geological Mapping and Interpretation of Galileo Regio at High Resolution. <i>Icarus</i> , 1998, 135, 317-344.	2.5	119
13	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	12.6	116
14	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	12.6	113
15	Large Impact Features on Europa: Results of the Galileo Nominal Mission. <i>Icarus</i> , 1998, 135, 127-145.	2.5	110
16	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
17	Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. <i>Nature</i> , 2016, 540, 94-96.	27.8	108
18	Mean radius and shape of Pluto and Charon from New Horizons images. <i>Icarus</i> , 2017, 287, 12-29.	2.5	105

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19	Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. <i>Nature</i> , 2016, 534, 82-85.	27.8	102
20	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
21	Titan: An exogenic world?. <i>Icarus</i> , 2011, 212, 790-806.	2.5	93
22	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
23	The influence of thermal inertia on temperatures and frost stability on Triton. <i>Icarus</i> , 1992, 99, 261-272.	2.5	82
24	Dunes on Pluto. <i>Science</i> , 2018, 360, 992-997.	12.6	81
25	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020, 367, .	12.6	79
26	The small satellites of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aae0030.	12.6	78
27	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	76
28	Large impact features on middle-sized icy satellites. <i>Icarus</i> , 2004, 171, 421-443.	2.5	75
29	Basins, fractures and volcanoes: Global cartography and topography of Pluto from New Horizons. <i>Icarus</i> , 2018, 314, 400-433.	2.5	75
30	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	64
31	The tectonic and volcanic history of Dione. <i>Icarus</i> , 1984, 59, 205-220.	2.5	60
32	Craters of the Pluto-Charon system. <i>Icarus</i> , 2017, 287, 187-206.	2.5	59
33	Atmospheric conditions on early Mars and the missing layered carbonates. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	58
34	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
35	Geological mapping of Sputnik Planitia on Pluto. <i>Icarus</i> , 2017, 287, 261-286.	2.5	52
36	Sublimation as a landform-shaping process on Pluto. <i>Icarus</i> , 2017, 287, 320-333.	2.5	51

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37	Detection of ammonia on Pluto's surface in a region of geologically recent tectonism. <i>Science Advances</i> , 2019, 5, eaav5731.	10.3	49
38	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018, 300, 129-144.	2.5	47
39	Recent cryovolcanism in Virgil Fossae on Pluto. <i>Icarus</i> , 2019, 330, 155-168.	2.5	45
40	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
41	Topographic Constraints on the Evolution and Connectivity of Titan's Lacustrine Basins. <i>Geophysical Research Letters</i> , 2017, 44, 11,745.	4.0	43
42	Present and past glaciation on Pluto. <i>Icarus</i> , 2017, 287, 287-300.	2.5	43
43	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021, 906, 77.	4.5	42
44	Dome craters on Ganymede. <i>Geophysical Research Letters</i> , 1988, 15, 225-228.	4.0	41
45	The geology of Tethys. <i>Journal of Geophysical Research</i> , 1983, 88, A577.	3.3	39
46	Laboratory simulations of Mars aqueous geochemistry. <i>Icarus</i> , 2004, 170, 404-423.	2.5	38
47	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
48	Blueberry fields for ever. <i>Nature</i> , 2004, 428, 711-712.	27.8	34
49	The rapid formation of Sputnik Planitia early in Pluto's history. <i>Nature</i> , 2016, 540, 97-99.	27.8	34
50	Climate zones on Pluto and Charon. <i>Icarus</i> , 2017, 287, 30-36.	2.5	34
51	Icy Satellites: Geological Evolution and Surface Processes. , 2009, , 637-681.		34
52	KOYAANISMUUYAW: THE HYPOTHESIS OF A PERENNIALY DICHOTOMOUS TRITON. <i>Geophysical Research Letters</i> , 1990, 17, 1757-1760.	4.0	33
53	The geomorphology of Rhea: Implications for geologic history and surface processes. <i>Journal of Geophysical Research</i> , 1985, 90, C785.	3.3	32
54	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	8.3	32

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55	Tectonics of the outer planet satellites. , 2009, , 264-350.		30
56	Charon tectonics. Icarus, 2017, 287, 161-174.	2.5	30
57	Geology before Pluto: Pre-encounter considerations. Icarus, 2015, 246, 65-81.	2.5	29
58	Breaking up is hard to do: Global cartography and topography of Pluto's mid-sized icy Moon Charon from New Horizons. Icarus, 2018, 315, 124-145.	2.5	29
59	Quantitative geomorphic modeling of Martian bedrock shorelines. Journal of Geophysical Research, 2006, 111, .	3.3	26
60	Sublimation-driven erosion on Callisto: A landform simulation model test. Geophysical Research Letters, 2008, 35, .	4.0	26
61	The landscape of Titan as witness to its climate evolution. Journal of Geophysical Research E: Planets, 2014, 119, 2060-2077.	3.6	26
62	The nature and origin of Charon's smooth plains. Icarus, 2019, 323, 16-32.	2.5	26
63	Formation of metre-scale bladed roughness on Europa's surface by ablation of ice. Nature Geoscience, 2018, 11, 901-904.	12.9	25
64	Pluto: Pits and mantles on uplands north and east of Sputnik Planitia. Icarus, 2017, 293, 218-230.	2.5	24
65	Topography and geology of Uranian mid-sized icy satellites in comparison with Saturnian and Plutonian satellites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200102.	3.4	24
66	Stereo topography of the south polar region of Mars: Volatile inventory and Mars Polar Lander landing site. Journal of Geophysical Research, 2000, 105, 24529-24546.	3.3	23
67	Modeling of ice pinnacle formation on Callisto. Journal of Geophysical Research E: Planets, 2016, 121, 21-45.	3.6	23
68	Soil sedimentology at Gusev Crater from Columbia Memorial Station to Winter Haven. Journal of Geophysical Research, 2008, 113, .	3.3	21
69	Formation of gravel pavements during fluvial erosion as an explanation for persistence of ancient cratered terrain on Titan and Mars. Icarus, 2016, 270, 100-113.	2.5	21
70	The Geophysical Environment of (486958) Arrokoth—A Small Kuiper Belt Object Explored by <i>New Horizons</i>. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	18
71	Sublimation-driven erosion on Hyperion: Topographic analysis and landform simulation model tests. Icarus, 2012, 220, 268-276.	2.5	17
72	Aqueous alteration of Mars-analog rocks under an acidic atmosphere. Geophysical Research Letters, 2004, 31, .	4.0	16

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73	Morphological comparison of blocks in chaos terrains on Pluto, Europa, and Mars. <i>Icarus</i> , 2021, 356, 113866.	2.5	15
74	Large-scale cryovolcanic resurfacing on Pluto. <i>Nature Communications</i> , 2022, 13, 1542.	12.8	15
75	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. <i>Planetary Science Journal</i> , 2022, 3, 112.	3.6	15
76	Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU ₆₉ (â€œUltima Thuleâ€). <i>Geophysical Research Letters</i> , 2018, 45, 8111-8120.	4.0	14
77	Laboratory simulations of Mars evaporite geochemistry. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12
78	Landslides on Charon. <i>Icarus</i> , 2020, 335, 113383.	2.5	12
79	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
80	Geologic Landforms and Processes on Icy Satellites. <i>Astrophysics and Space Science Library</i> , 1998, , 551-578.	2.7	11
81	Migrating Scarps as a Significant Driver for Cometary Surface Evolution. <i>Geophysical Research Letters</i> , 2019, 46, 12794-12804.	4.0	10
82	Washboard and fluted terrains on Pluto as evidence for ancient glaciation. <i>Nature Astronomy</i> , 2019, 3, 62-68.	10.1	10
83	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
84	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
85	Cryovolcanic flooding in Viking Terra on Pluto. <i>Icarus</i> , 2021, 356, 113786.	2.5	9
86	Evidence for ancient lakes in the Hellas region. , 2010, , 195-222.		9
87	Evidence for a short period of hydrologic activity in Newton crater, Mars, near the Hesperianâ€Amazonian transition. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1082-1093.	3.6	8
88	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
89	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
90	Correction to â€œAre the basins of Titan's Hotei Regio and Tui Regio sites of former low latitude seas?â€ <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	3

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91	Modeling global-scale mass flows on the Lagrangian satellites of Dione and Tethys. <i>Icarus</i> , 2021, 369, 114612.	2.5	3
92	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
93	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
94	Snow Crash: Compaction Craters on (486958) Arrokoth and Other Small KBOs, With Implications. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
95	Charon's Far Side Geomorphology. <i>Planetary Science Journal</i> , 2021, 2, 141.	3.6	2
96	The Dark Side of Pluto. <i>Planetary Science Journal</i> , 2021, 2, 214.	3.6	2