

John E Moores

List of Publications by Year in descending order

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82
papers

6,056
citations

159585

30
h-index

76900

74
g-index

86
all docs

86
docs citations

86
times ranked

4615
citing authors

#	ARTICLE	IF	CITATIONS
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
2	Rain, winds and haze during the Huygens probe's descent to Titan's surface. <i>Nature</i> , 2005, 438, 765-778.	27.8	529
3	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	12.6	475
4	Mars methane detection and variability at Gale crater. <i>Science</i> , 2015, 347, 415-417.	12.6	373
5	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
6	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	12.6	327
7	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
8	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
9	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
10	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	12.6	224
11	Background levels of methane in Mars's atmosphere show strong seasonal variations. <i>Science</i> , 2018, 360, 1093-1096.	12.6	224
12	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
13	Mars Water-Ice Clouds and Precipitation. <i>Science</i> , 2009, 325, 68-70.	12.6	173
14	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 71-79.	4.0	138
15	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	12.6	134
16	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	12.6	103
17	Winds at the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	89
18	Preliminary interpretation of the REMS pressure data from the first 100 sols of the MSL mission. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 440-453.	3.6	80

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19	Observational evidence of a suppressed planetary boundary layer in northern Gale Crater, Mars as seen by the Navcam instrument onboard the Mars Science Laboratory rover. <i>Icarus</i> , 2015, 249, 129-142.	2.5	66
20	Slow degradation of ATP in simulated martian environments suggests long residence times for the biosignature molecule on spacecraft surfaces on Mars. <i>Icarus</i> , 2008, 194, 86-100.	2.5	59
21	Crack propagation by differential insolation on desert surface clasts. <i>Geomorphology</i> , 2008, 102, 472-481.	2.6	56
22	Convective vortices and dust devils at the MSL landing site: Annual variability. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1514-1549.	3.6	55
23	The shielding effect of small-scale martian surface geometry on ultraviolet flux. <i>Icarus</i> , 2007, 192, 417-433.	2.5	53
24	Penitentes as the origin of the bladed terrain of Tartarus Dorsa on Pluto. <i>Nature</i> , 2017, 541, 188-190.	27.8	43
25	Impacts of Cosmic Dust on Planetary Atmospheres and Surfaces. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	43
26	UV degradation of accreted organics on Mars: IDP longevity, surface reservoir of organics, and relevance to the detection of methane in the atmosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	41
27	Phoenix and MRO coordinated atmospheric measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	40
28	Experimental and theoretical simulations of ice sublimation with implications for the chemical, isotopic, and physical evolution of icy objects. <i>Planetary and Space Science</i> , 2012, 60, 166-180.	1.7	35
29	Methane from UV-irradiated carbonaceous chondrites under simulated Martian conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	33
30	Atmospheric dynamics at the Phoenix landing site as seen by the Surface Stereo Imager. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
31	The Methane Diurnal Variation and Microseepage Flux at Gale Crater, Mars as Constrained by the ExoMars Trace Gas Orbiter and Curiosity Observations. <i>Geophysical Research Letters</i> , 2019, 46, 9430-9438.	4.0	31
32	A full martian year of line-of-sight extinction within Gale Crater, Mars as acquired by the MSL Navcam through sol 900. <i>Icarus</i> , 2016, 264, 102-108.	2.5	29
33	Atmospheric movies acquired at the Mars Science Laboratory landing site: Cloud morphology, frequency and significance to the Gale Crater water cycle and Phoenix mission results. <i>Advances in Space Research</i> , 2015, 55, 2217-2238.	2.6	28
34	Lunar water migration in the interval between large impacts: Heterogeneous delivery to Permanently Shadowed Regions, fractionation, and diffusive barriers. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 46-60.	3.6	24
35	Methane seasonal cycle at Gale Crater on Mars consistent with regolith adsorption and diffusion. <i>Nature Geoscience</i> , 2019, 12, 321-325.	12.9	24
36	Day-night differences in Mars methane suggest nighttime containment at Gale crater. <i>Astronomy and Astrophysics</i> , 2021, 650, A166.	5.1	22

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37	The Temporal and Geographic Extent of Seasonal Cold Trapping on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1935-1944.	3.6	21
38	Observations of near-surface fog at the Phoenix Mars landing site. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	20
39	The first Martian year of cloud activity from Mars Science Laboratory (sol 0â€“800). <i>Advances in Space Research</i> , 2016, 57, 1223-1240.	2.6	20
40	Lidar measurements of clouds in the planetary boundary layer on Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	18
41	A Lunar Microbial Survival Model for Predicting the Forward Contamination of the Moon. <i>Astrobiology</i> , 2019, 19, 730-756.	3.0	18
42	A Mission Control Architecture for robotic lunar sample return as field tested in an analogue deployment to the sudbury impact structure. <i>Advances in Space Research</i> , 2012, 50, 1666-1686.	2.6	14
43	Modelling the atmosphere of lava planet K2-141b: implications for low- and high-resolution spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4605-4612.	4.4	14
44	Impact-Generated Endolithic Habitat Within Crystalline Rocks of the Haughton Impact Structure, Devon Island, Canada. <i>Astrobiology</i> , 2014, 14, 522-533.	3.0	13
45	Visibility and Lineâ€“ofâ€“Sight Extinction Estimates in Gale Crater During the 2018/MY34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 9414-9421.	4.0	13
46	Experimental and theoretical simulation of sublimating dusty water ice with implications for D/H ratios of water ice on Comets and Mars. <i>Planetary Science</i> , 2012, 1, .	1.5	12
47	Transient atmospheric effects of the landing of the Mars Science Laboratory rover: The emission and dissipation of dust and carbazic acid. <i>Advances in Space Research</i> , 2016, 58, 1066-1092.	2.6	12
48	UV production of methane from surface and sedimenting IDPs on Mars in light of REMS data and with insights for TGO. <i>Planetary and Space Science</i> , 2017, 147, 48-60.	1.7	11
49	A Cruise-Phase Microbial Survival Model for Calculating Bioburden Reductions on Past or Future Spacecraft Throughout Their Missions with Application to Europa Clipper. <i>Astrobiology</i> , 2020, 20, 1450-1464.	3.0	10
50	Estimating the altitudes of Martian water-ice clouds above the Mars Science Laboratory rover landing site. <i>Planetary and Space Science</i> , 2020, 182, 104785.	1.7	9
51	Constraints on Mars Aphelion Cloud Belt phase function and ice crystal geometries. <i>Planetary and Space Science</i> , 2019, 168, 62-72.	1.7	8
52	Collisionâ€“induced Absorption of CH ₄ â€“CO ₂ and H ₂ â€“CO ₂ Complexes and Their Effect on the Ancient Martian Atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006357.	3.6	8
53	Illumination conditions within permanently shadowed regions at the lunar poles: Implications for in-situ passive remote sensing. <i>Acta Astronautica</i> , 2021, 178, 432-451.	3.2	8
54	Adsorptive fractionation of HDO on JSC MARS-1 during sublimation with implications for the regolith of Mars. <i>Icarus</i> , 2011, 211, 1129-1149.	2.5	7

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55	Martian airfall dust on smooth, inclined surfaces as observed on the Phoenix Mars Lander telltale mirror. <i>Planetary and Space Science</i> , 2015, 116, 6-17.	1.7	7
56	Simulating the formation of Martian penitentes. <i>Planetary and Space Science</i> , 2019, 174, 21-31.	1.7	6
57	Vertical and horizontal heterogeneity of atmospheric dust loading in northern Gale Crater, Mars. <i>Icarus</i> , 2019, 329, 197-206.	2.5	6
58	A survey of small-scale (<50µm) surface features on the Martian north polar cap using HiRISE. <i>Planetary and Space Science</i> , 2020, 182, 104809.	1.7	6
59	Aphelion Cloud Belt phase function investigations with Mars Color Imager (MARCI). <i>Planetary and Space Science</i> , 2020, 184, 104840.	1.7	6
60	Salt Tolerance and UV Protection of <i>Bacillus subtilis</i> and <i>Enterococcus faecalis</i> under Simulated Martian Conditions. <i>Astrobiology</i> , 2021, 21, 394-404.	3.0	6
61	Observations of wind direction by automated analysis of images from Mars and the MSL rover. <i>Acta Astronautica</i> , 2014, 94, 776-783.	3.2	5
62	Modelled small-scale crack orientations in Martian surface clasts caused by differential insolation-mobilized water. <i>Icarus</i> , 2020, 338, 113497.	2.5	5
63	The Siding Spring cometary encounter with Mars: A natural experiment for the Martian atmosphere?. <i>Geophysical Research Letters</i> , 2014, 41, 4109-4117.	4.0	4
64	UV attenuation by Martian brines. <i>Canadian Journal of Physics</i> , 2020, 98, 567-570.	1.1	4
65	The Line-of-Sight Extinction Record at Gale Crater as Observed by MSL's Mastcam and Navcam through ~42,500 Sols. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006465.	3.6	3
66	A self-supervised learning based approach to analyze Martian water-ice cloud properties for planetary atmospheric applications. <i>Acta Astronautica</i> , 2021, 181, 1-13.	3.2	3
67	Thermal Forcing of the Nocturnal Near Surface Environment by Martian Water Ice Clouds. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	3.6	3
68	Laboratory investigations of Lunar ice imaging in permanently shadowed regions using reflected starlight. <i>Acta Astronautica</i> , 2020, 177, 604-610.	3.2	2
69	Mapping the Limited Extent of Earthshine within Lunar PSRs. <i>Research Notes of the AAS</i> , 2019, 3, 127.	0.7	2
70	The small reconnaissance of atmospheres mission platform concept, part 2: design of carrier spacecraft and atmospheric entry probes. <i>International Journal of Space Science and Engineering</i> , 2014, 2, 345.	0.1	1
71	Possible ground fog detection from SLI imagery of Titan. <i>Icarus</i> , 2016, 271, 269-278.	2.5	1
72	The case for a multi-channel polarization sensitive LIDAR for investigation of insolation-driven ices and atmospheres. , 2021, 53, .		1

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73	Simulating Transits of Large Objects at the L ₁ Lagrange Point for the 2018 Feature Film Clara. Research Notes of the AAS, 2018, 2, 34.	0.7	1
74	A Surprising and Colorful Martian Scattering Artifact. Research Notes of the AAS, 2019, 3, 40.	0.7	1
75	A Record of Water-ice Clouds at the Phoenix Landing Site Derived from Modeling MET Temperature Data. Planetary Science Journal, 2022, 3, 97.	3.6	1
76	The small reconnaissance of atmospheres mission platform concept, part 1: motivations and outline for a swarm of scientific microprobes to the clouds of Jupiter in 2030. International Journal of Space Science and Engineering, 2014, 2, 327.	0.1	0
77	Hydrolysed polar terrain ice aerobot mission platform. International Journal of Space Science and Engineering, 2015, 3, 342.	0.1	0
78	Conceptual thermal design of a network of solar-powered Boardsat- and CubeSat-based landed spacecraft on Mars. International Journal of Space Science and Engineering, 2020, 6, 125.	0.1	0
79	Saturn ice ring exploration network mission platform. International Journal of Space Science and Engineering, 2018, 5, 16.	0.1	0
80	Starchips in solar system planetary exploration: an opportunity for Canada. International Journal of Space Science and Engineering, 2019, 5, 181.	0.1	0
81	Conceptual thermal design of a network of solar-powered Boardsat- and CubeSat-based landed spacecraft on Mars. International Journal of Space Science and Engineering, 2020, 6, 125.	0.1	0
82	Atmospheric Dust Causes Darkness to Fall Rapidly on Mars. Research Notes of the AAS, 2020, 4, 196.	0.7	0