

John E Moores

List of Publications by Year in descending order

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Version: 2024-02-01

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 Record of Water-ice Clouds at the Phoenix Landing Site Derived from Modeling MET Temperature Data. <i>Planetary Science Journal</i> , 2022, 3, 97.	3.6	1
2	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
3	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
4	The case for a multi-channel polarization sensitive LIDAR for investigation of insolation-driven ices and atmospheres. , 2021, 53, .		1
5	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
6	Day-night differences in Mars methane suggest nighttime containment at Gale crater. <i>Astronomy and Astrophysics</i> , 2021, 650, A166.	5.1	22
7	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
8	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
9	UV attenuation by Martian brines. <i>Canadian Journal of Physics</i> , 2020, 98, 567-570.	1.1	4
10	Modelled small-scale crack orientations in Martian surface clasts caused by differential insolation-mobilized water. <i>Icarus</i> , 2020, 338, 113497.	2.5	5
11	A survey of small-scale (<math>< 50\text{m}</math>) surface features on the Martian north polar cap using HiRISE. <i>Planetary and Space Science</i> , 2020, 182, 104809.	1.7	6
12	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
13	Collision-Induced Absorption of CH_4 and H_2 Complexes and Their Effect on the Ancient Martian Atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006357.	3.6	8
14	Conceptual thermal design of a network of solar-powered BoardSat- and CubeSat-based landed spacecraft on Mars. <i>International Journal of Space Science and Engineering</i> , 2020, 6, 125.	0.1	0
15	The Line-of-Sight Extinction Record at Gale Crater as Observed by MSL's Mastcam and Navcam through $\sim 1/42,500\%$ Sols. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006465.	3.6	3
16	Laboratory investigations of Lunar ice imaging in permanently shadowed regions using reflected starlight. <i>Acta Astronautica</i> , 2020, 177, 604-610.	3.2	2
17	Aphelion Cloud Belt phase function investigations with Mars Color Imager (MARCI). <i>Planetary and Space Science</i> , 2020, 184, 104840.	1.7	6
18	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

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19	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
20	Atmospheric Dust Causes Darkness to Fall Rapidly on Mars. Research Notes of the AAS, 2020, 4, 196.	0.7	0
21	Visibility and Line-of-Sight Extinction Estimates in Gale Crater During the 2018/MY34 Global Dust Storm. Geophysical Research Letters, 2019, 46, 9414-9421.	4.0	13
22	The Methane Diurnal Variation and Microsecond Flux at Gale Crater, Mars as Constrained by the ExoMars Trace Gas Orbiter and Curiosity Observations. Geophysical Research Letters, 2019, 46, 9430-9438.	4.0	31
23	The Temporal and Geographic Extent of Seasonal Cold Trapping on the Moon. Journal of Geophysical Research E: Planets, 2019, 124, 1935-1944.	3.6	21
24	Simulating the formation of Martian penitentes. Planetary and Space Science, 2019, 174, 21-31.	1.7	6
25	Methane seasonal cycle at Gale Crater on Mars consistent with regolith adsorption and diffusion. Nature Geoscience, 2019, 12, 321-325.	12.9	24
26	A Lunar Microbial Survival Model for Predicting the Forward Contamination of the Moon. Astrobiology, 2019, 19, 730-756.	3.0	18
27	Vertical and horizontal heterogeneity of atmospheric dust loading in northern Gale Crater, Mars. Icarus, 2019, 329, 197-206.	2.5	6
28	Constraints on Mars Aphelion Cloud Belt phase function and ice crystal geometries. Planetary and Space Science, 2019, 168, 62-72.	1.7	8
29	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. Geophysical Research Letters, 2019, 46, 71-79.	4.0	138
30	A Surprising and Colorful Martian Scattering Artifact. Research Notes of the AAS, 2019, 3, 40.	0.7	1
31	Mapping the Limited Extent of Earthshine within Lunar PSRs. Research Notes of the AAS, 2019, 3, 127.	0.7	2
32	Starchips in solar system planetary exploration: an opportunity for Canada. International Journal of Space Science and Engineering, 2019, 5, 181.	0.1	0
33	Impacts of Cosmic Dust on Planetary Atmospheres and Surfaces. Space Science Reviews, 2018, 214, 1.	8.1	43
34	Background levels of methane in Mars's atmosphere show strong seasonal variations. Science, 2018, 360, 1093-1096.	12.6	224
35	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
36	Saturn ice ring exploration network mission platform. International Journal of Space Science and Engineering, 2018, 5, 16.	0.1	0

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37	Penitentes as the origin of the bladed terrain of Tartarus Dorsa on Pluto. <i>Nature</i> , 2017, 541, 188-190.	27.8	43
38	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
39	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
40	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
41	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
42	Possible ground fog detection from SLI imagery of Titan. <i>Icarus</i> , 2016, 271, 269-278.	2.5	1
43	The first Martian year of cloud activity from Mars Science Laboratory (sol 0-800). <i>Advances in Space Research</i> , 2016, 57, 1223-1240.	2.6	20
44	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
45	Hydrolysed polar terrain ice aerobot mission platform. <i>International Journal of Space Science and Engineering</i> , 2015, 3, 342.	0.1	0
46	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
47	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
48	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
49	Mars methane detection and variability at Gale crater. <i>Science</i> , 2015, 347, 415-417.	12.6	373
50	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
51	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
52	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
53	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	12.6	475
54	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	12.6	224

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55	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
56	Impact-Generated Endolithic Habitat Within Crystalline Rocks of the Houghton Impact Structure, Devon Island, Canada. <i>Astrobiology</i> , 2014, 14, 522-533.	3.0	13
57	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
58	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
59	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
60	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. <i>International Journal of Space Science and Engineering</i> , 2014, 2, 327.	0.1	0
61	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	12.6	327
62	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
63	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
64	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	12.6	134
65	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
66	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	12.6	103
67	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
68	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
69	Methane from UV-irradiated carbonaceous chondrites under simulated Martian conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	33
70	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
71	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
72	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

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73	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
74	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
75	Winds at the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	89
76	Phoenix and MRO coordinated atmospheric measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	40
77	Lidar measurements of clouds in the planetary boundary layer on Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	18
78	Mars Water-Ice Clouds and Precipitation. <i>Science</i> , 2009, 325, 68-70.	12.6	173
79	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
80	Crack propagation by differential insolation on desert surface clasts. <i>Geomorphology</i> , 2008, 102, 472-481.	2.6	56
81	The shielding effect of small-scale martian surface geometry on ultraviolet flux. <i>Icarus</i> , 2007, 192, 417-433.	2.5	53
82	Rain, winds and haze during the Huygens probe's descent to Titan's surface. <i>Nature</i> , 2005, 438, 765-778.	27.8	529