

Dana Hurley

List of Publications by Year in descending order

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91
papers

4,702
citations

81900

39
h-index

98798

67
g-index

93
all docs

93
docs citations

93
times ranked

2259
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct evidence of surface exposed water ice in the lunar polar regions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8907-8912.	7.1	324
2	The solar wind interaction with Mars: Locations and shapes of the bow shock and the magnetic pile-up boundary from the observations of the MAG/ER Experiment onboard Mars Global Surveyor. Geophysical Research Letters, 2000, 27, 49-52.	4.0	300
3	The plasma Environment of Mars. Space Science Reviews, 2004, 111, 33-114.	8.1	261
4	Magmatic volatiles (H, C, N, F, S, Cl) in the lunar mantle, crust, and regolith: Abundances, distributions, processes, and reservoirs. American Mineralogist, 2015, 100, 1668-1707.	1.9	160
5	LRO-LAMP Observations of the LCROSS Impact Plume. Science, 2010, 330, 472-476.	12.6	141
6	The solar wind as a possible source of lunar polar hydrogen deposits. Journal of Geophysical Research, 2000, 105, 26773-26782.	3.3	129
7	Variability of the altitude of the Martian sheath. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	121
8	Far-ultraviolet reflectance properties of the Moon's permanently shadowed regions. Journal of Geophysical Research, 2012, 117, .	3.3	115
9	Venus-like interaction of the solar wind with Mars. Geophysical Research Letters, 1999, 26, 2685-2688.	4.0	114
10	A comparison of global models for the solar wind interaction with Mars. Icarus, 2010, 206, 139-151.	2.5	108
11	Observations of low-frequency electromagnetic plasma waves upstream from the Martian shock. Journal of Geophysical Research, 2002, 107, SMP 9-1.	3.3	107
12	Molecular water detected on the sunlit Moon by SOFIA. Nature Astronomy, 2021, 5, 121-127.	10.1	104
13	Observations of the latitude dependence of the location of the martian magnetic pileup boundary. Geophysical Research Letters, 2002, 29, 11-1-11-4.	4.0	100
14	Hydrogen migration to the lunar poles by solar wind bombardment of the moon. Advances in Space Research, 2002, 30, 1869-1874.	2.6	94
15	A proxy for determining solar wind dynamic pressure at Mars using Mars Global Surveyor data. Journal of Geophysical Research, 2003, 108, .	3.3	92
16	Magnetic field draping enhancement at the Martian magnetic pileup boundary from Mars global surveyor observations. Geophysical Research Letters, 2003, 30, .	4.0	89
17	Oxygen auger electrons observed in Mars' ionosphere. Geophysical Research Letters, 2000, 27, 1871-1874.	4.0	88
18	Space weathering effects on lunar cold trap deposits. Journal of Geophysical Research, 2003, 108, .	3.3	87

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19	Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic pileup region, and tail. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	85
20	LAMP: The Lyman Alpha Mapping Project on NASA's Lunar Reconnaissance Orbiter Mission. <i>Space Science Reviews</i> , 2010, 150, 161-181.	8.1	83
21	Lunar soil hydration constrained by exospheric water liberated by meteoroid impacts. <i>Nature Geoscience</i> , 2019, 12, 333-338.	12.9	81
22	Structure of the magnetic field fluxes connected with crustal magnetization and topside ionosphere at Mars. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 2-1.	3.3	77
23	Factors controlling the location of the Bow Shock at Mars. <i>Geophysical Research Letters</i> , 2002, 29, 42-1-42-4.	4.0	71
24	Evidence of electron impact ionization in the magnetic pileup boundary of Mars. <i>Geophysical Research Letters</i> , 2000, 27, 45-48.	4.0	67
25	Mars Global Surveyor Observations of Solar Wind Magnetic Field Draping Around Mars. <i>Space Science Reviews</i> , 2004, 111, 203-221.	8.1	67
26	The lunar far-UV albedo: Indicator of hydration and weathering. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	66
27	Effect of the solar radiation in the topside atmosphere/ionosphere of Mars: Mars Global Surveyor observations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	65
28	Solar wind implantation into lunar regolith: Hydrogen retention in a surface with defects. <i>Icarus</i> , 2015, 255, 116-126.	2.5	64
29	Two-dimensional distribution of volatiles in the lunar regolith from space weathering simulations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	61
30	Mars Global Surveyor observations of the Halloween 2003 solar superstorm's encounter with Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	60
31	Solar Wind Implantation Into the Lunar Regolith: Monte Carlo Simulations of H Retention in a Surface With Defects and the H ₂ Exosphere. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 278-293.	3.6	51
32	MGS MAG/ER observations at the magnetic pileup boundary of Mars: draping enhancement and low frequency waves. <i>Advances in Space Research</i> , 2004, 33, 1938-1944.	2.6	50
33	Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. <i>Geophysical Research Letters</i> , 2019, 46, 2417-2424.	4.0	49
34	Grain-scale supercharging and breakdown on airless regoliths. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 2150-2165.	3.6	47
35	Burial rate of Mercury's polar volatile deposits. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	46
36	Magnetic Flux Ropes in the Martian Atmosphere: Global Characteristics. <i>Space Science Reviews</i> , 2004, 111, 223-231.	8.1	45

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37	The Young Age of the LAMP-observed Frost in Lunar Polar Cold Traps. <i>Geophysical Research Letters</i> , 2019, 46, 8680-8688.	4.0	41
38	Solar wind interaction with the ionosphere/atmosphere and crustal magnetic fields at Mars: Mars Global Surveyor Magnetometer/Electron Reflectometer, radio science, and accelerometer data. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	40
39	The effect on the lunar exosphere of a coronal mass ejection passage. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	40
40	An analytic function of lunar surface temperature for exospheric modeling. <i>Icarus</i> , 2015, 255, 159-163.	2.5	40
41	The statistical mechanics of solar wind hydroxylation at the Moon, within lunar magnetic anomalies, and at Phobos. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 269-289.	3.6	39
42	The Morphology of the Solar Wind Magnetic Field Draping on the Dayside of Mars and Its Variability. <i>Geophysical Research Letters</i> , 2018, 45, 3356-3365.	4.0	39
43	External fields on the nightside of Mars at Mars Global Surveyor mapping altitudes. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	38
44	Temporal variability of lunar exospheric helium during January 2012 from LRO/LAMP. <i>Icarus</i> , 2012, 221, 854-858.	2.5	33
45	Low-frequency plasma oscillations at Mars during the October 2003 solar storm. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	31
46	Contributions of solar wind and micrometeoroids to molecular hydrogen in the lunar exosphere. <i>Icarus</i> , 2017, 283, 31-37.	2.5	30
47	Lunar swirls: Far-UV characteristics. <i>Icarus</i> , 2016, 273, 68-74.	2.5	29
48	Lunar exospheric argon modeling. <i>Icarus</i> , 2015, 255, 135-147.	2.5	28
49	Widespread hematite at high latitudes of the Moon. <i>Science Advances</i> , 2020, 6, .	10.3	28
50	Observations of the lunar impact plume from the LCROSS event. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	27
51	Identification of surface hydrogen enhancements within the Moon's Shackleton crater. <i>Icarus</i> , 2014, 233, 229-232.	2.5	27
52	Volatile interactions with the lunar surface. <i>Chemie Der Erde</i> , 2022, 82, 125858.	2.0	26
53	Understanding temporal and spatial variability of the lunar helium atmosphere using simultaneous observations from LRO, LADEE, and ARTEMIS. <i>Icarus</i> , 2016, 273, 45-52.	2.5	25
54	Analysis of Solar Wind Events Using Interplanetary Scintillation Remote Sensing 3D Reconstructions and Their Comparison at Mars. <i>Solar Physics</i> , 2007, 241, 385-396.	2.5	24

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55	Sensitivity of orbital neutron measurements to the thickness and abundance of surficial lunar water. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
56	Solarâ€Storm/Lunar Atmosphere Model (SSLAM): An overview of the effort and description of the driving storm environment. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
57	Cassini INMS measurements of Enceladus plume density. <i>Icarus</i> , 2015, 257, 139-162.	2.5	24
58	Collecting amino acids in the Enceladus plume. <i>International Journal of Astrobiology</i> , 2019, 18, 47-59.	1.6	24
59	Ice at the Lunar Poles. <i>American Scientist</i> , 2003, 91, 322.	0.1	24
60	Modeling of the vapor release from the LCROSS impact: 2. Observations from LAMP. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
61	Space weathering of ice layers in lunar cold traps. <i>Advances in Space Research</i> , 2003, 31, 2293-2298.	2.6	22
62	The influence of crustal magnetism on the solar wind interaction with Mars: recent observations. <i>Advances in Space Research</i> , 2004, 33, 152-160.	2.6	22
63	Magnetic field draping around Mars: Mars Global Surveyor results. <i>Advances in Space Research</i> , 2001, 27, 1831-1836.	2.6	21
64	The Magnetic Field Pile-up and Density Depletion in the Martian Magnetosheath: A Comparison with the Plasma Depletion Layer Upstream of the Earth's Magnetopause. <i>Space Science Reviews</i> , 2004, 111, 185-202.	8.1	20
65	Redistribution of lunar polar water to mid-latitudes and its role in forming an OH veneer. <i>Planetary and Space Science</i> , 2013, 89, 15-20.	1.7	18
66	Spillage of lunar polar crater volatiles onto adjacent terrains: The case for dynamic processes. <i>Geophysical Research Letters</i> , 2015, 42, 3160-3165.	4.0	17
67	Lunar exospheric helium observations of LRO/LAMP coordinated with ARTEMIS. <i>Icarus</i> , 2016, 273, 36-44.	2.5	17
68	Magnetic Field in the Martian Magnetosheath and the Application as an IMF Clock Angle Proxy. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4295-4313.	2.4	16
69	LRO-LAMP detection of geologically young craters within lunar permanently shaded regions. <i>Icarus</i> , 2016, 273, 114-120.	2.5	15
70	Martian obstacle and bow shock: origins of boundaries anisotropy. <i>Advances in Space Research</i> , 2004, 33, 2222-2227.	2.6	14
71	On the role of charge exchange in the formation of the Martian magnetic pileup boundary. <i>Journal of Geophysical Research</i> , 2001, 106, 29387-29399.	3.3	13
72	The Evolution of a Spacecraftâ€Generated Lunar Exosphere. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006464.	3.6	13

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73	Modeling of the vapor release from the LCROSS impact: Parametric dependencies. Journal of Geophysical Research, 2011, 116, .	3.3	12
74	Simulations of lunar exospheric water events from meteoroid impacts. Planetary and Space Science, 2018, 162, 148-156.	1.7	9
75	Using proton radiation from the moon to search for diurnal variation of regolith hydrogenation. Planetary and Space Science, 2018, 162, 113-132.	1.7	9
76	The effects of crustal magnetic fields and the pressure balance in the high latitude ionosphere/atmosphere at Mars. Advances in Space Research, 2005, 36, 2043-2048.	2.6	8
77	Prominent volcanic source of volatiles in the south polar region of the Moon. Advances in Space Research, 2021, 68, 4691-4701.	2.6	8
78	Venus/Mars pickup ions and ionosheath wave structures. Advances in Space Research, 2004, 33, 176-181.	2.6	7
79	Solar Wind Access to Grains in the Upper Layer of Regolith. Journal of Geophysical Research E: Planets, 2018, 123, 972-981.	3.6	7
80	A Proxy for the Upstream IMF Clock Angle Using MAVEN Magnetic Field Data. Journal of Geophysical Research: Space Physics, 2018, 123, 9612-9618.	2.4	6
81	SELMA mission: How do airless bodies interact with space environment? The Moon as an accessible laboratory. Planetary and Space Science, 2018, 156, 23-40.	1.7	5
82	An Examination of Several Discrete Lunar Nearside Photometric Anomalies Observed in Lyman- α Maps. Journal of Geophysical Research E: Planets, 2019, 124, 294-315.	3.6	5
83	LRO/LAMP observations of the lunar helium exosphere: constraints on thermal accommodation and outgassing rate. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4438-4451.	4.4	5
84	Women Count. Eos, 2014, 95, 402-403.	0.1	3
85	Modeling insights into the locations of density enhancements from the Enceladus water vapor jets. Journal of Geophysical Research E: Planets, 2015, 120, 1763-1773.	3.6	3
86	The gas-surface interaction of a human-occupied spacecraft with a near-Earth object. Advances in Space Research, 2016, 58, 1648-1653.	2.6	2
87	Lunar Volatiles and Solar System Science. , 2021, 53, .		1
88	Overview of Phobos/Deimos Regolith Ion Sample Mission (PRISM) concept. , 2018, , .		1
89	Lunar Volatiles: Introduction to the Special issue. Icarus, 2015, 255, 1-2.	2.5	0
90	Sampling the Moon's atmosphere. Science, 2016, 351, 230-231.	12.6	0

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91	Mission to Characterize Volatiles in Old, Cold, Permanently Shadowed Regions on the Moon. , 2021, 53, .		0