Dana Hurley

List of Publications by Year
in descending order

90 papers	4,702 citations	93792 39 h-index	111975 67 g-index
93 all docs	93 docs citations	93 times ranked	2438 citing authors

#	Article	IF	Citations
1	Volatile interactions with the lunar surface. Chemie Der Erde, 2022, 82, 125858.	0.8	26
2	Molecular water detected on the sunlit Moon by SOFIA. Nature Astronomy, 2021, 5, 121-127.	4.2	104
3	Mission to Characterize Volatiles in Old, Cold, Permanently Shadowed Regions on the Moon. , 2021, 53, .		0
4	Lunar Volatiles and Solar System Science. , 2021, 53, .		1
5	Prominent volcanic source of volatiles in the south polar region of the Moon. Advances in Space Research, 2021, 68, 4691-4701.	1.2	8
6	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.	1.6	5
7	The Evolution of a Spacecraftâ€Generated Lunar Exosphere. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006464.	1.5	13
8	Widespread hematite at high latitudes of the Moon. Science Advances, 2020, 6, .	4.7	28
9	The Young Age of the LAMPâ€observed Frost in Lunar Polar Cold Traps. Geophysical Research Letters, 2019, 46, 8680-8688.	1.5	41
10	Magnetic Field in the Martian Magnetosheath and the Application as an IMF Clock Angle Proxy. Journal of Geophysical Research: Space Physics, 2019, 124, 4295-4313.	0.8	16
11	An Examination of Several Discrete Lunar Nearside Photometric Anomalies Observed in Lymanâ€Î± Maps. Journal of Geophysical Research E: Planets, 2019, 124, 294-315.	1.5	5
12	Lunar soil hydration constrained by exospheric water liberated by meteoroid impacts. Nature Geoscience, 2019, 12, 333-338.	5.4	81
13	Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. Geophysical Research Letters, 2019, 46, 2417-2424.	1.5	49
14	Solar Wind Implantation Into the Lunar Regolith: Monte Carlo Simulations of H Retention in a Surface With Defects and the H₂ Exosphere. Journal of Geophysical Research E: Planets, 2019, 124, 278-293.	1.5	51
15	Collecting amino acids in the Enceladus plume. International Journal of Astrobiology, 2019, 18, 47-59.	0.9	24
16	The Morphology of the Solar Wind Magnetic Field Draping on the Dayside of Mars and Its Variability. Geophysical Research Letters, 2018, 45, 3356-3365.	1.5	39
17	Solar Wind Access to Grains in the Upper Layer of Regolith. Journal of Geophysical Research E: Planets, 2018, 123, 972-981.	1.5	7
18	Simulations of lunar exospheric water events from meteoroid impacts. Planetary and Space Science, 2018, 162, 148-156.	0.9	9

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19	Using proton radiation from the moon to search for diurnal variation of regolith hydrogenation. Planetary and Space Science, 2018, 162, 113-132.	0.9	9
20	SELMA mission: How do airless bodies interact with space environment? The Moon as an accessible laboratory. Planetary and Space Science, 2018, 156, 23-40.	0.9	5
21	A Proxy for the Upstream IMF Clock Angle Using MAVEN Magnetic Field Data. Journal of Geophysical Research: Space Physics, 2018, 123, 9612-9618.	0.8	6
22	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.	3.3	324
23	Overview of Phobos/Deimos Regolith Ion Sample Mission (PRISM) concept. , 2018, , .		1
24	Contributions of solar wind and micrometeoroids to molecular hydrogen in the lunar exosphere. Icarus, 2017, 283, 31-37.	1.1	30
25	The statistical mechanics of solar wind hydroxylation at the Moon, within lunar magnetic anomalies, and at Phobos. Journal of Geophysical Research E: Planets, 2017, 122, 269-289.	1.5	39
26	LRO-LAMP detection of geologically young craters within lunar permanently shaded regions. Icarus, 2016, 273, 114-120.	1.1	15
27	Grainâ€scale supercharging and breakdown on airless regoliths. Journal of Geophysical Research E: Planets, 2016, 121, 2150-2165.	1.5	47
28	The gas-surface interaction of a human-occupied spacecraft with a near-Earth object. Advances in Space Research, 2016, 58, 1648-1653.	1.2	2
29	Lunar exospheric helium observations of LRO/LAMP coordinated with ARTEMIS. Icarus, 2016, 273, 36-44.	1.1	17
30	Sampling the Moon's atmosphere. Science, 2016, 351, 230-231.	6.0	0
31	Lunar swirls: Far-UV characteristics. Icarus, 2016, 273, 68-74.	1.1	29
32	Understanding temporal and spatial variability of the lunar helium atmosphere using simultaneous observations from LRO, LADEE, and ARTEMIS. Icarus, 2016, 273, 45-52.	1.1	25
33	Spillage of lunar polar crater volatiles onto adjacent terrains: The case for dynamic processes. Geophysical Research Letters, 2015, 42, 3160-3165.	1.5	17
34	Modeling insights into the locations of density enhancements from the Enceladus water vapor jets. Journal of Geophysical Research E: Planets, 2015, 120, 1763-1773.	1.5	3
35	Cassini INMS measurements of Enceladus plume density. Icarus, 2015, 257, 139-162.	1.1	24
36	Solar wind implantation into lunar regolith: Hydrogen retention in a surface with defects. Icarus, 2015, 255, 116-126.	1.1	64

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37	Lunar exospheric argon modeling. Icarus, 2015, 255, 135-147.	1.1	28
38	An analytic function of lunar surface temperature for exospheric modeling. Icarus, 2015, 255, 159-163.	1.1	40
39	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.	0.9	160
40	Women Count. Eos, 2014, 95, 402-403.	0.1	3
41	Identification of surface hydrogen enhancements within the Moonâ€™s Shackleton crater. Icarus, 2014, 233, 229-232.	1.1	27
42	Redistribution of lunar polar water to mid-latitudes and its role in forming an OH veneer. Planetary and Space Science, 2013, 89, 15-20.	0.9	18
43	Solarâ€Storm/Lunar Atmosphere Model (SSLAM): An overview of the effort and description of the driving storm environment. Journal of Geophysical Research, 2012, 117, .	3.3	24
44	The lunar farâ€UV albedo: Indicator of hydration and weathering. Journal of Geophysical Research, 2012, 117, .	3.3	66
45	Modeling of the vapor release from the LCROSS impact: 2. Observations from LAMP. Journal of Geophysical Research, 2012, 117, .	3.3	23
46	Farâ€ultraviolet reflectance properties of the Moon's permanently shadowed regions. Journal of Geophysical Research, 2012, 117, .	3.3	115
47	The effect on the lunar exosphere of a coronal mass ejection passage. Journal of Geophysical Research, 2012, 117, .	3.3	40
48	Twoâ€dimensional distribution of volatiles in the lunar regolith from space weathering simulations. Geophysical Research Letters, 2012, 39, .	1.5	61
49	Temporal variability of lunar exospheric helium during January 2012 from LRO/LAMP. Icarus, 2012, 221, 854-858.	1.1	33
50	Sensitivity of orbital neutron measurements to the thickness and abundance of surficial lunar water. Journal of Geophysical Research, 2011, 116, .	3.3	24
51	Modeling of the vapor release from the LCROSS impact: Parametric dependencies. Journal of Geophysical Research, 2011, 116, .	3.3	12
52	A comparison of global models for the solar wind interaction with Mars. Icarus, 2010, 206, 139-151.	1.1	108
53	LAMP: The Lyman Alpha Mapping Project on NASAâ€™s Lunar Reconnaissance Orbiter Mission. Space Science Reviews, 2010, 150, 161-181.	3.7	83
54	LRO-LAMP Observations of the LCROSS Impact Plume. Science, 2010, 330, 472-476.	6.0	141

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55	Observations of the lunar impact plume from the LCROSS event. Geophysical Research Letters, 2010, 37, .	1.5	27
56	Analysis of Solar Wind Events Using Interplanetary Scintillation Remote Sensing 3D Reconstructions and Their Comparison at Mars. Solar Physics, 2007, 241, 385-396.	1.0	24
57	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.	1.2	8
58	External fields on the nightside of Mars at Mars Global Surveyor mapping altitudes. Geophysical Research Letters, 2005, 32, .	1.5	38
59	Mars Global Surveyor observations of the Halloween 2003 solar superstorm's encounter with Mars. Journal of Geophysical Research, 2005, 110, .	3.3	60
60	Low-frequency plasma oscillations at Mars during the October 2003 solar storm. Journal of Geophysical Research, 2005, 110, .	3.3	31
61	Burial rate of Mercury's polar volatile deposits. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	46
62	Variability of the altitude of the Martian sheath. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	121
63	Mars Global Surveyor Observations of Solar Wind Magnetic Field Draping Around Mars. Space Science Reviews, 2004, 111, 203-221.	3.7	67
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. Space Science Reviews, 2004, 111, 185-202.	3.7	20
65	Magnetic Flux Ropes in the Martian Atmosphere: Global Characteristics. Space Science Reviews, 2004, 111, 223-231.	3.7	45
66	The plasma Environment of Mars. Space Science Reviews, 2004, 111, 33-114.	3.7	261
67	Martian obstacle and bow shock: origins of boundaries anisotropy. Advances in Space Research, 2004, 33, 2222-2227.	1.2	14
68	The influence of crustal magnetism on the solar wind interaction with Mars: recent observations. Advances in Space Research, 2004, 33, 152-160.	1.2	22
69	MGS MAG/ER observations at the magnetic pileup boundary of Mars: draping enhancement and low frequency waves. Advances in Space Research, 2004, 33, 1938-1944.	1.2	50
70	Venus/Mars pickup ions and ionosheath wave structures. Advances in Space Research, 2004, 33, 176-181.	1.2	7
71	Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic pileup region, and tail. Journal of Geophysical Research, 2004, 109, .	3.3	85
72	Solar wind interaction with the ionosphere/atmosphere and crustal magnetic fields at Mars: Mars Global Surveyor Magnetometer/Electron Reflectometer, radio science, and accelerometer data. Journal of Geophysical Research, 2004, 109, .	3.3	40

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73	Effect of the solar radiation in the topside atmosphere/ionosphere of Mars: Mars Global Surveyor observations. Journal of Geophysical Research, 2004, 109, .	3.3	65
74	Space weathering of ice layers in lunar cold traps. Advances in Space Research, 2003, 31, 2293-2298.	1.2	22
75	Magnetic field draping enhancement at the Martian magnetic pileup boundary from Mars global surveyor observations. Geophysical Research Letters, 2003, 30, .	1.5	89
76	Space weathering effects on lunar cold trap deposits. Journal of Geophysical Research, 2003, 108, .	3.3	87
77	A proxy for determining solar wind dynamic pressure at Mars using Mars Global Surveyor data. Journal of Geophysical Research, 2003, 108, .	3.3	92
78	Ice at the Lunar Poles. American Scientist, 2003, 91, 322.	0.1	24
79	Observations of low-frequency electromagnetic plasma waves upstream from the Martian shock. Journal of Geophysical Research, 2002, 107, SMP 9-1.	3.3	107
80	Observations of the latitude dependence of the location of the martian magnetic pileup boundary. Geophysical Research Letters, 2002, 29, 11-1-11-4.	1.5	100
81	Factors controlling the location of the Bow Shock at Mars. Geophysical Research Letters, 2002, 29, 42-1-42-4.	1.5	71
82	Structure of the magnetic field fluxes connected with crustal magnetization and topside ionosphere at Mars. Journal of Geophysical Research, 2002, 107, SIA 2-1.	3.3	77
83	Hydrogen migration to the lunar poles by solar wind bombardment of the moon. Advances in Space Research, 2002, 30, 1869-1874.	1.2	94
84	On the role of charge exchange in the formation of the Martian magnetic pileup boundary. Journal of Geophysical Research, 2001, 106, 29387-29399.	3.3	13
85	Magnetic field draping around Mars: Mars Global Surveyor results. Advances in Space Research, 2001, 27, 1831-1836.	1.2	21
86	The solar wind as a possible source of lunar polar hydrogen deposits. Journal of Geophysical Research, 2000, 105, 26773-26782.	3.3	129
87	Evidence of electron impact ionization in the magnetic pileup boundary of Mars. Geophysical Research Letters, 2000, 27, 45-48.	1.5	67
88	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.	1.5	300
89	Oxygen auger electrons observed in Mars' ionosphere. Geophysical Research Letters, 2000, 27, 1871-1874.	1.5	88
90	Venus-like interaction of the solar wind with Mars. Geophysical Research Letters, 1999, 26, 2685-2688.	1.5	114