

Dana Hurley

List of Publications by Year in descending order

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91
papers

4,702
citations

81900

39
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98798

67
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93
all docs

93
docs citations

93
times ranked

2259
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Volatile interactions with the lunar surface. <i>Chemie Der Erde</i> , 2022, 82, 125858. | 2.0 | 26 |
| 2 | Molecular water detected on the sunlit Moon by SOFIA. <i>Nature Astronomy</i> , 2021, 5, 121-127. | 10.1 | 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. <i>Advances in Space Research</i> , 2021, 68, 4691-4701. | 2.6 | 8 |
| 6 | LRO/LAMP observations of the lunar helium exosphere: constraints on thermal accommodation and outgassing rate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4438-4451. | 4.4 | 5 |
| 7 | The Evolution of a Spacecraft-Generated Lunar Exosphere. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006464. | 3.6 | 13 |
| 8 | Widespread hematite at high latitudes of the Moon. <i>Science Advances</i> , 2020, 6, . | 10.3 | 28 |
| 9 | 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 |
| 10 | 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 |
| 11 | An Examination of Several Discrete Lunar Nearside Photometric Anomalies Observed in Lyman- α Maps. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 294-315. | 3.6 | 5 |
| 12 | Lunar soil hydration constrained by exospheric water liberated by meteoroid impacts. <i>Nature Geoscience</i> , 2019, 12, 333-338. | 12.9 | 81 |
| 13 | Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. <i>Geophysical Research Letters</i> , 2019, 46, 2417-2424. | 4.0 | 49 |
| 14 | 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 |
| 15 | Collecting amino acids in the Enceladus plume. <i>International Journal of Astrobiology</i> , 2019, 18, 47-59. | 1.6 | 24 |
| 16 | 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 |
| 17 | Solar Wind Access to Grains in the Upper Layer of Regolith. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 972-981. | 3.6 | 7 |
| 18 | Simulations of lunar exospheric water events from meteoroid impacts. <i>Planetary and Space Science</i> , 2018, 162, 148-156. | 1.7 | 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. | 1.7 | 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. | 1.7 | 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. | 2.4 | 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. | 7.1 | 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. | 2.5 | 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. | 3.6 | 39 |
| 26 | LRO-LAMP detection of geologically young craters within lunar permanently shaded regions. Icarus, 2016, 273, 114-120. | 2.5 | 15 |
| 27 | Grain-scale supercharging and breakdown on airless regoliths. Journal of Geophysical Research E: Planets, 2016, 121, 2150-2165. | 3.6 | 47 |
| 28 | 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 |
| 29 | Lunar exospheric helium observations of LRO/LAMP coordinated with ARTEMIS. Icarus, 2016, 273, 36-44. | 2.5 | 17 |
| 30 | Sampling the Moon's atmosphere. Science, 2016, 351, 230-231. | 12.6 | 0 |
| 31 | Lunar swirls: Far-UV characteristics. Icarus, 2016, 273, 68-74. | 2.5 | 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. | 2.5 | 25 |
| 33 | Spillage of lunar polar crater volatiles onto adjacent terrains: The case for dynamic processes. Geophysical Research Letters, 2015, 42, 3160-3165. | 4.0 | 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. | 3.6 | 3 |
| 35 | Cassini INMS measurements of Enceladus plume density. Icarus, 2015, 257, 139-162. | 2.5 | 24 |
| 36 | Lunar Volatiles: Introduction to the Special issue. Icarus, 2015, 255, 1-2. | 2.5 | 0 |

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|----|---|-----|-----------|
| 37 | Solar wind implantation into lunar regolith: Hydrogen retention in a surface with defects. <i>Icarus</i> , 2015, 255, 116-126. | 2.5 | 64 |
| 38 | Lunar exospheric argon modeling. <i>Icarus</i> , 2015, 255, 135-147. | 2.5 | 28 |
| 39 | An analytic function of lunar surface temperature for exospheric modeling. <i>Icarus</i> , 2015, 255, 159-163. | 2.5 | 40 |
| 40 | Magmatic volatiles (H, C, N, F, S, Cl) in the lunar mantle, crust, and regolith: Abundances, distributions, processes, and reservoirs. <i>American Mineralogist</i> , 2015, 100, 1668-1707. | 1.9 | 160 |
| 41 | Women Count. <i>Eos</i> , 2014, 95, 402-403. | 0.1 | 3 |
| 42 | Identification of surface hydrogen enhancements within the Moon's Shackleton crater. <i>Icarus</i> , 2014, 233, 229-232. | 2.5 | 27 |
| 43 | 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 |
| 44 | Solar 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 |
| 45 | The lunar far-UV albedo: Indicator of hydration and weathering. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 66 |
| 46 | Modeling of the vapor release from the LCROSS impact: 2. Observations from LAMP. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 23 |
| 47 | Far-ultraviolet reflectance properties of the Moon's permanently shadowed regions. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 115 |
| 48 | The effect on the lunar exosphere of a coronal mass ejection passage. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 40 |
| 49 | Two-dimensional distribution of volatiles in the lunar regolith from space weathering simulations. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 61 |
| 50 | Temporal variability of lunar exospheric helium during January 2012 from LRO/LAMP. <i>Icarus</i> , 2012, 221, 854-858. | 2.5 | 33 |
| 51 | 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 |
| 52 | Modeling of the vapor release from the LCROSS impact: Parametric dependencies. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3 | 12 |
| 53 | A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , 2010, 206, 139-151. | 2.5 | 108 |
| 54 | 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 |

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|----|--|------|-----------|
| 55 | LRO-LAMP Observations of the LCROSS Impact Plume. <i>Science</i> , 2010, 330, 472-476. | 12.6 | 141 |
| 56 | Observations of the lunar impact plume from the LCROSS event. <i>Geophysical Research Letters</i> , 2010, 37, . | 4.0 | 27 |
| 57 | 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 |
| 58 | The effects of crustal magnetic fields and the pressure balance in the high latitude ionosphere/atmosphere at Mars. <i>Advances in Space Research</i> , 2005, 36, 2043-2048. | 2.6 | 8 |
| 59 | External fields on the nightside of Mars at Mars Global Surveyor mapping altitudes. <i>Geophysical Research Letters</i> , 2005, 32, . | 4.0 | 38 |
| 60 | 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 |
| 61 | Low-frequency plasma oscillations at Mars during the October 2003 solar storm. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 31 |
| 62 | Burial rate of Mercury's polar volatile deposits. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a. | 4.0 | 46 |
| 63 | Variability of the altitude of the Martian sheath. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a. | 4.0 | 121 |
| 64 | Mars Global Surveyor Observations of Solar Wind Magnetic Field Draping Around Mars. <i>Space Science Reviews</i> , 2004, 111, 203-221. | 8.1 | 67 |
| 65 | 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 |
| 66 | Magnetic Flux Ropes in the Martian Atmosphere: Global Characteristics. <i>Space Science Reviews</i> , 2004, 111, 223-231. | 8.1 | 45 |
| 67 | The plasma Environment of Mars. <i>Space Science Reviews</i> , 2004, 111, 33-114. | 8.1 | 261 |
| 68 | Martian obstacle and bow shock: origins of boundaries anisotropy. <i>Advances in Space Research</i> , 2004, 33, 2222-2227. | 2.6 | 14 |
| 69 | 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 |
| 70 | 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 |
| 71 | Venus/Mars pickup ions and ionosheath wave structures. <i>Advances in Space Research</i> , 2004, 33, 176-181. | 2.6 | 7 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | Space weathering of ice layers in lunar cold traps. Advances in Space Research, 2003, 31, 2293-2298. | 2.6 | 22 |
| 76 | Magnetic field draping enhancement at the Martian magnetic pileup boundary from Mars global surveyor observations. Geophysical Research Letters, 2003, 30, . | 4.0 | 89 |
| 77 | Space weathering effects on lunar cold trap deposits. Journal of Geophysical Research, 2003, 108, . | 3.3 | 87 |
| 78 | A proxy for determining solar wind dynamic pressure at Mars using Mars Global Surveyor data. Journal of Geophysical Research, 2003, 108, . | 3.3 | 92 |
| 79 | Ice at the Lunar Poles. American Scientist, 2003, 91, 322. | 0.1 | 24 |
| 80 | Observations of low-frequency electromagnetic plasma waves upstream from the Martian shock. Journal of Geophysical Research, 2002, 107, SMP 9-1. | 3.3 | 107 |
| 81 | 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 |
| 82 | Factors controlling the location of the Bow Shock at Mars. Geophysical Research Letters, 2002, 29, 42-1-42-4. | 4.0 | 71 |
| 83 | 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 |
| 84 | Hydrogen migration to the lunar poles by solar wind bombardment of the moon. Advances in Space Research, 2002, 30, 1869-1874. | 2.6 | 94 |
| 85 | 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 |
| 86 | Magnetic field draping around Mars: Mars Global Surveyor results. Advances in Space Research, 2001, 27, 1831-1836. | 2.6 | 21 |
| 87 | The solar wind as a possible source of lunar polar hydrogen deposits. Journal of Geophysical Research, 2000, 105, 26773-26782. | 3.3 | 129 |
| 88 | Evidence of electron impact ionization in the magnetic pileup boundary of Mars. Geophysical Research Letters, 2000, 27, 45-48. | 4.0 | 67 |
| 89 | 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 |
| 90 | Oxygen auger electrons observed in Mars' ionosphere. Geophysical Research Letters, 2000, 27, 1871-1874. | 4.0 | 88 |

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|----|--|-----|-----------|
| 91 | Venus-like interaction of the solar wind with Mars. <i>Geophysical Research Letters</i> , 1999, 26, 2685-2688. | 4.0 | 114 |