Paul Hayne

List of Publications by Year in descending order

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172457 133252 3,554 74 29 59 h-index citations g-index papers 75 75 75 2226 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The case for a Themis asteroid family spacecraft mission. Planetary and Space Science, 2022, 212, 105413.	1.7	3
2	Temperatures of the Lacus Mortis Region of the Moon. Earth and Space Science, 2022, 9, .	2.6	2
3	Spatial Distribution and Thermal Diversity of Surface Volatile Cold Traps at the Lunar Poles. Planetary Science Journal, 2022, 3, 39.	3.6	16
4	Volatile interactions with the lunar surface. Chemie Der Erde, 2022, 82, 125858.	2.0	26
5	The Effects of Terrain Properties Upon the Small Crater Population Distribution at Giordano Bruno: Implications for Lunar Chronology. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	5
6	Polar Ice Accumulation from Volcanically Induced Transient Atmospheres on the Moon. Planetary Science Journal, 2022, 3, 99.	3.6	13
7	Composition and possible origins of dark crater ejecta on Europa. Icarus, 2022, 385, 115037.	2.5	1
8	Thermophysical Properties of Lunar Irregular Mare Patches From LRO Diviner Radiometer Data. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	4
9	Thermal and Illumination Environments of Lunar Pits and Caves: Models and Observations From the Diviner Lunar Radiometer Experiment. Geophysical Research Letters, 2022, 49, .	4.0	16
10	The spectral radiance of indirectly illuminated surfaces in regions of permanent shadow on the Moon. Acta Astronautica, 2021 , 180 , 25 - 34 .	3.2	7
11	Micro cold traps on the Moon. Nature Astronomy, 2021, 5, 169-175.	10.1	63
12	Chang'Eâ€4 Rover Spectra Revealing Microâ€scale Surface Thermophysical Properties of the Moon. Geophysical Research Letters, 2021, 48, e2020GL089226.	4.0	3
13	Small Penetrator Instrument Concept for the Advancement of Lunar Surface Science. Planetary Science Journal, 2021, 2, 38.	3.6	5
14	The Importance of the Climate Record in the Martian Polar Layered Deposits. , 2021, 53, .		1
15	Impacts on the Moon: Analysis methods and size distribution of impactors. Planetary and Space Science, 2021, 200, 105201.	1.7	10
16	Europa's hemispheric color dichotomy as a constraint on non-synchronous rotation. Icarus, 2021, 364, 114438.	2.5	3
17	New Constraints on Thermal and Dielectric Properties of Lunar Regolith from LRO Diviner and CEâ€2 Microwave Radiometer. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006130.	3.6	29
18	Coevolution of Mars's atmosphere and massive south polar CO2 ice deposit. Nature Astronomy, 2020, 4, 364-371.	10.1	22

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19	Surface Roughness Evolution and Implications for the Age of the North Polar Residual Cap of Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006570.	3.6	6
20	Lunar Titanium and Frequencyâ€Dependent Microwave Loss Tangent as Constrained by the Chang'Eâ€⊋ MRM and LRO Diviner Lunar Radiometers. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006405.	3.6	27
21	Asymmetries in Snowfall, Emissivity, and Albedo of Mars' Seasonal Polar Caps: Mars Climate Sounder Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006150.	3.6	19
22	The Holy Grail: A road map for unlocking the climate record stored within Mars' polar layered deposits. Planetary and Space Science, 2020, 184, 104841.	1.7	30
23	Lunar Flashlight: Illuminating the Lunar South Pole. IEEE Aerospace and Electronic Systems Magazine, 2020, 35, 46-52.	1.3	16
24	Seasonal Polar Temperatures on the Moon. Journal of Geophysical Research E: Planets, 2019, 124, 2505-2521.	3.6	80
25	The Young Age of the LAMPâ€observed Frost in Lunar Polar Cold Traps. Geophysical Research Letters, 2019, 46, 8680-8688.	4.0	41
26	Thermophysical Properties of the North Polar Residual Cap using Mars Global Surveyor Thermal Emission Spectrometer. Journal of Geophysical Research E: Planets, 2019, 124, 1315-1330.	3.6	8
27	Moon Diver: A Discovery Mission Concept for Understanding the History of Secondary Crusts through the Exploration of a Lunar Mare Pit. , 2019, , .		21
28	Evidence for ultra-cold traps and surface water ice in the lunar south polar crater Amundsen. Icarus, 2019, 332, 1-13.	2.5	19
29	Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. Geophysical Research Letters, 2019, 46, 2417-2424.	4.0	49
30	Design and Characterization of the Multi-Band SWIR Receiver for the Lunar Flashlight CubeSat Mission. Remote Sensing, 2019, 11, 440.	4.0	5
31	Widespread Shallow Water Ice on Mars at High Latitudesand Midlatitudes. Geophysical Research Letters, 2019, 46, 14290-14298.	4.0	59
32	The Subsurface Coherent Rock Content of the Moon as Revealed by Coldâ€Spot Craters. Journal of Geophysical Research E: Planets, 2019, 124, 3373-3384.	3.6	10
33	Water Vapor Contribution to Ceres' Exosphere From Observed Surface Ice and Postulated Iceâ€Exposing Impacts. Journal of Geophysical Research E: Planets, 2019, 124, 61-75.	3.6	20
34	Ongoing resurfacing of KBO Eris by volatile transport in local, collisional, sublimation atmosphere regime. Icarus, 2019, 334, 52-61.	2.5	15
35	How dielectric breakdown may contribute to the global weathering of regolith on the moon. Icarus, 2019, 319, 785-794.	2.5	14
36	CIRiS, a CubeSat-compatible, imaging radiometer for earth science and planetary missions., 2019,,.		2

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37	Hydrogen escape from Mars enhanced by deep convection in dust storms. Nature Astronomy, 2018, 2, 126-132.	10.1	112
38	Explorer of Enceladus and Titan (E2T): Investigating ocean worlds' evolution and habitability in the solar system. Planetary and Space Science, 2018, 155, 73-90.	1.7	26
39	Lunar Cold Spots and Crater Production on the Moon. Journal of Geophysical Research E: Planets, 2018, 123, 2380-2392.	3.6	23
40	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
41	Optical and mechanical designs of the multi-band SWIR receiver for the Lunar Flashlight CubeSat mission. , 2018, , .		0
42	The Lunar Flashlight CubeSat instrument: A compact SWIR laser reflectometer to quantify and map water ice on the surface of the Moon. , 2018 , , .		1
43	Evidence for surface water ice in the lunar polar regions using reflectance measurements from the Lunar Orbiter Laser Altimeter and temperature measurements from the Diviner Lunar Radiometer Experiment. Icarus, 2017, 292, 74-85.	2.5	119
44	A novel technology for measuring the eruption temperature of silicate lavas with remote sensing: Application to Io and other planets. Journal of Volcanology and Geothermal Research, 2017, 343, 1-16.	2.1	6
45	Young lunar volcanic features: Thermophysical properties and formation. Icarus, 2017, 290, 224-237.	2.5	23
46	Conditions for Sublimating Water Ice to Supply Ceres' Exosphere. Journal of Geophysical Research E: Planets, 2017, 122, 1984-1995.	3.6	40
47	Global Regolith Thermophysical Properties of the Moon From the Diviner Lunar Radiometer Experiment. Journal of Geophysical Research E: Planets, 2017, 122, 2371-2400.	3.6	193
48	Design and characterization of a low cost CubeSat multi-band optical receiver to map water ice on the lunar surface for the Lunar Flashlight mission. , 2017 , , .		0
49	Discovery of a widespread lowâ€latitude diurnal CO ₂ frost cycle on Mars. Journal of Geophysical Research E: Planets, 2016, 121, 1174-1189.	3.6	50
50	Complex explosive volcanic activity on the Moon within Oppenheimer crater. Icarus, 2016, 273, 296-314.	2.5	24
51	Origin of the anomalously rocky appearance of Tsiolkovskiy crater. Icarus, 2016, 273, 237-247.	2.5	23
52	Compositional and spatial variations in Titan dune and interdune regions from Cassini VIMS and RADAR. Icarus, 2016, 270, 222-237.	2.5	27
53	Thermal stability of ice on Ceres with rough topography. Journal of Geophysical Research E: Planets, 2015, 120, 1567-1584.	3.6	93
54	Extreme detached dust layers near Martian volcanoes: Evidence for dust transport by mesoscale circulations forced by high topography. Geophysical Research Letters, 2015, 42, 3730-3738.	4.0	36

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55	Variability of the martian seasonal CO2 cap extent over eight Mars Years. Icarus, 2015, 251, 164-180.	2.5	72
56	Evidence for exposed water ice in the Moon's south polar regions from Lunar Reconnaissance Orbiter ultraviolet albedo and temperature measurements. Icarus, 2015, 255, 58-69.	2.5	188
57	Formation of lunar swirls by magnetic field standoff of the solar wind. Nature Communications, 2015, 6, 6189.	12.8	73
58	Lunar surface roughness derived from LRO Diviner Radiometer observations. Icarus, 2015, 248, 357-372.	2. 5	92
59	Titan's surface geology. , 2014, , 63-101.		8
60	The role of snowfall in forming the seasonal ice caps of Mars: Models and constraints from the Mars Climate Sounder. Icarus, 2014, 231, 122-130.	2.5	52
61	Lunar cold spots: Granular flow features and extensive insulating materials surrounding young craters. Icarus, 2014, 231, 221-231.	2.5	54
62	Constraints on the recent rate of lunar ejecta breakdown and implications for crater ages. Geology, 2014, 42, 1059-1062.	4.4	92
63	Titan's surface composition and atmospheric transmission with solar occultation measurements by Cassini VIMS. Icarus, 2014, 243, 158-172.	2.5	23
64	Paleotectonics of a complex Miocene half graben formed above a detachment fault: The Diligencia basin, Orocopia Mountains, southern California. Lithosphere, 2014, 6, 157-176.	1.4	8
65	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS. Planetary Science, 2013, 2, .	1.5	45
66	Abandoned frontier. Nature Geoscience, 2013, 6, 155-156.	12.9	1
67	Lunar equatorial surface temperatures and regolith properties from the Diviner Lunar Radiometer Experiment. Journal of Geophysical Research, 2012, 117, .	3.3	229
68	Carbon dioxide snow clouds on Mars: South polar winter observations by the Mars Climate Sounder. Journal of Geophysical Research, 2012, 117, .	3.3	74
69	Hydrated minerals on Europa's surface: An improved look from the Galileo NIMS investigation. Icarus, 2010, 209, 639-650.	2.5	33
70	Global Silicate Mineralogy of the Moon from the Diviner Lunar Radiometer. Science, 2010, 329, 1507-1509.	12.6	154
71	Diviner Lunar Radiometer Observations of the LCROSS Impact. Science, 2010, 330, 477-479.	12.6	68
72	Diviner Lunar Radiometer Observations of Cold Traps in the Moon's South Polar Region. Science, 2010, 330, 479-482.	12.6	385

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#	Article	IF	CITATIONS
73	VIMS spectral mapping observations of Titan during the Cassini prime mission. Planetary and Space Science, 2009, 57, 1950-1962.	1.7	28
74	Titan's surface: Search for spectral diversity and composition using the Cassini VIMS investigation. Icarus, 2008, 194, 212-242.	2.5	83