

# Paul Hayne

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

2,235

citations

26

h-index

46

g-index

75

ext. papers

2,827

ext. citations

5.9

avg, IF

4.99

L-index

#	Paper	IF	Citations
66	The case for a Themis asteroid family spacecraft mission. <i>Planetary and Space Science</i> , <b>2022</b> , 212, 1054132		1
65	Spatial Distribution and Thermal Diversity of Surface Volatile Cold Traps at the Lunar Poles. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 39	2.9	2
64	Polar Ice Accumulation from Volcanically Induced Transient Atmospheres on the Moon. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 99	2.9	0
63	Composition and possible origins of dark crater ejecta on Europa. <i>Icarus</i> , <b>2022</b> , 115037	3.8	0
62	The Importance of the Climate Record in the Martian Polar Layered Deposits <b>2021</b> , 53,		1
61	Impacts on the Moon: Analysis methods and size distribution of impactors. <i>Planetary and Space Science</i> , <b>2021</b> , 200, 105201	2	0
60	The spectral radiance of indirectly illuminated surfaces in regions of permanent shadow on the Moon. <i>Acta Astronautica</i> , <b>2021</b> , 180, 25-34	2.9	2
59	Micro cold traps on the Moon. <i>Nature Astronomy</i> , <b>2021</b> , 5, 169-175	12.1	26
58	ChangE-4 Rover Spectra Revealing Micro-scale Surface Thermophysical Properties of the Moon. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL089226	4.9	1
57	Small Penetrator Instrument Concept for the Advancement of Lunar Surface Science. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 38	2.9	1
56	Europa's hemispheric color dichotomy as a constraint on non-synchronous rotation. <i>Icarus</i> , <b>2021</b> , 364, 114438	3.8	1
55	Volatile interactions with the lunar surface. <i>Chemie Der Erde</i> , <b>2021</b> , 125858	4.3	3
54	Asymmetries in Snowfall, Emissivity, and Albedo of Mars' Seasonal Polar Caps: Mars Climate Sounder Observations. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2019JE006150	4.1	6
53	The Holy Grail: A road map for unlocking the climate record stored within Mars' polar layered deposits. <i>Planetary and Space Science</i> , <b>2020</b> , 184, 104841	2	15
52	Lunar Flashlight: Illuminating the Lunar South Pole. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2020</b> , 35, 46-52	2.4	2
51	New Constraints on Thermal and Dielectric Properties of Lunar Regolith from LRO Diviner and CE-2 Microwave Radiometer. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2019JE006130	4.1	12
50	Coevolution of Mars' atmosphere and massive south polar CO <sub>2</sub> ice deposit. <i>Nature Astronomy</i> , <b>2020</b> , 4, 364-371	12.1	13

49	Surface Roughness Evolution and Implications for the Age of the North Polar Residual Cap of Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2020JE006570	4.1	3
48	Lunar Titanium and Frequency-Dependent Microwave Loss Tangent as Constrained by the Chang'E-2 MRM and LRO Diviner Lunar Radiometers. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2020JE006405	4.1	10
47	Thermophysical Properties of the North Polar Residual Cap using Mars Global Surveyor Thermal Emission Spectrometer. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 1315	4.1	5
46	<b>2019</b> ,		7
45	Evidence for ultra-cold traps and surface water ice in the lunar south polar crater Amundsen. <i>Icarus</i> , <b>2019</b> , 332, 1-13	3.8	12
44	Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 2417-2424	4.9	27
43	Design and Characterization of the Multi-Band SWIR Receiver for the Lunar Flashlight CubeSat Mission. <i>Remote Sensing</i> , <b>2019</b> , 11, 440	5	3
42	Seasonal Polar Temperatures on the Moon. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 2505-2521	4.1	32
41	The Young Age of the LAMP-observed Frost in Lunar Polar Cold Traps. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 8680-8688	4.9	23
40	Widespread Shallow Water Ice on Mars at High Latitudes and Midlatitudes. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 14290-14298	4.9	30
39	The Subsurface Coherent Rock Content of the Moon as Revealed by Cold-Spot Craters. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 3373-3384	4.1	4
38	Water Vapor Contribution to Ceres' Exosphere From Observed Surface Ice and Postulated Ice-Exposing Impacts. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 61-75	4.1	15
37	Ongoing resurfacing of KBO Eris by volatile transport in local, collisional, sublimation atmosphere regime. <i>Icarus</i> , <b>2019</b> , 334, 52-61	3.8	7
36	How dielectric breakdown may contribute to the global weathering of regolith on the moon. <i>Icarus</i> , <b>2019</b> , 319, 785-794	3.8	6
35	Hydrogen escape from Mars enhanced by deep convection in dust storms. <i>Nature Astronomy</i> , <b>2018</b> , 2, 126-132	12.1	79
34	Lunar Cold Spots and Crater Production on the Moon. <i>Journal of Geophysical Research E: Planets</i> , <b>2018</b> , 123, 2380-2392	4.1	11
33	Direct evidence of surface exposed water ice in the lunar polar regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 8907-8912	11.5	161
32	Explorer of Enceladus and Titan (E2T): Investigating ocean worlds' evolution and habitability in the solar system. <i>Planetary and Space Science</i> , <b>2018</b> , 155, 73-90	2	15

31	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. <i>Icarus</i> , <b>2017</b> , Volume 292, 74-85	3.8	70
30	A novel technology for measuring the eruption temperature of silicate lavas with remote sensing: Application to Io and other planets. <i>Journal of Volcanology and Geothermal Research</i> , <b>2017</b> , 343, 1-16	2.8	5
29	Young lunar volcanic features: Thermophysical properties and formation. <i>Icarus</i> , <b>2017</b> , 290, 224-237	3.8	17
28	Conditions for Sublimating Water Ice to Supply Ceres' Exosphere. <i>Journal of Geophysical Research E: Planets</i> , <b>2017</b> , 122, 1984-1995	4.1	34
27	Global Regolith Thermophysical Properties of the Moon From the Diviner Lunar Radiometer Experiment. <i>Journal of Geophysical Research E: Planets</i> , <b>2017</b> , 122, 2371-2400	4.1	111
26	Discovery of a widespread low-latitude diurnal CO <sub>2</sub> frost cycle on Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2016</b> , 121, 1174-1189	4.1	31
25	Complex explosive volcanic activity on the Moon within Oppenheimer crater. <i>Icarus</i> , <b>2016</b> , 273, 296-314	3.8	15
24	Origin of the anomalously rocky appearance of Tsiolkovskiy crater. <i>Icarus</i> , <b>2016</b> , 273, 237-247	3.8	16
23	Compositional and spatial variations in Titan dune and interdune regions from Cassini VIMS and RADAR. <i>Icarus</i> , <b>2016</b> , 270, 222-237	3.8	24
22	Variability of the martian seasonal CO <sub>2</sub> cap extent over eight Mars Years. <i>Icarus</i> , <b>2015</b> , 251, 164-180	3.8	46
21	Evidence for exposed water ice in the Moon's south polar regions from Lunar Reconnaissance Orbiter ultraviolet albedo and temperature measurements. <i>Icarus</i> , <b>2015</b> , 255, 58-69	3.8	113
20	Formation of lunar swirls by magnetic field standoff of the solar wind. <i>Nature Communications</i> , <b>2015</b> , 6, 6189	17.4	43
19	Lunar surface roughness derived from LRO Diviner Radiometer observations. <i>Icarus</i> , <b>2015</b> , 248, 357-372	3.8	73
18	Thermal stability of ice on Ceres with rough topography. <i>Journal of Geophysical Research E: Planets</i> , <b>2015</b> , 120, 1567-1584	4.1	82
17	Extreme detached dust layers near Martian volcanoes: Evidence for dust transport by mesoscale circulations forced by high topography. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 3730-3738	4.9	29
16	Lunar cold spots: Granular flow features and extensive insulating materials surrounding young craters. <i>Icarus</i> , <b>2014</b> , 231, 221-231	3.8	37
15	Constraints on the recent rate of lunar ejecta breakdown and implications for crater ages. <i>Geology</i> , <b>2014</b> , 42, 1059-1062	5	62
14	Titan's surface composition and atmospheric transmission with solar occultation measurements by Cassini VIMS. <i>Icarus</i> , <b>2014</b> , 243, 158-172	3.8	22

13	Paleotectonics of a complex Miocene half graben formed above a detachment fault: The Diligencia basin, Orocoxia Mountains, southern California. <i>Lithosphere</i> , <b>2014</b> , 6, 157-176	2.7	6
12	The role of snowfall in forming the seasonal ice caps of Mars: Models and constraints from the Mars Climate Sounder. <i>Icarus</i> , <b>2014</b> , 231, 122-130	3.8	40
11	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS <b>2013</b> , 2,		37
10	Lunar equatorial surface temperatures and regolith properties from the Diviner Lunar Radiometer Experiment. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		173
9	Carbon dioxide snow clouds on Mars: South polar winter observations by the Mars Climate Sounder. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		53
8	Global silicate mineralogy of the Moon from the Diviner lunar radiometer. <i>Science</i> , <b>2010</b> , 329, 1507-9	33.3	107
7	Diviner Lunar Radiometer observations of the LCROSS impact. <i>Science</i> , <b>2010</b> , 330, 477-9	33.3	53
6	Diviner Lunar Radiometer observations of cold traps in the Moon's south polar region. <i>Science</i> , <b>2010</b> , 330, 479-82	33.3	269
5	Hydrated minerals on Europa's surface: An improved look from the Galileo NIMS investigation. <i>Icarus</i> , <b>2010</b> , 209, 639-650	3.8	23
4	VIMS spectral mapping observations of Titan during the Cassini prime mission. <i>Planetary and Space Science</i> , <b>2009</b> , 57, 1950-1962	2	28
3	Titan's surface: Search for spectral diversity and composition using the Cassini VIMS investigation. <i>Icarus</i> , <b>2008</b> , 194, 212-242	3.8	71
2	Titan's surface geology 63-101		5
1	The case for a multi-channel polarization sensitive LIDAR for investigation of insolation-driven ices and atmospheres Planetary Science Decadal Survey White Paper		1