

Paul Hayne

List of Publications by Citations

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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	Diviner Lunar Radiometer observations of cold traps in the Moon's south polar region. <i>Science</i> , 2010 , 330, 479-82	33.3	269
65	Lunar equatorial surface temperatures and regolith properties from the Diviner Lunar Radiometer Experiment. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		173
64	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> , 2018 , 115, 8907-8912	11.5	161
63	Evidence for exposed water ice in the Moon's south polar regions from Lunar Reconnaissance Orbiter ultraviolet albedo and temperature measurements. <i>Icarus</i> , 2015 , 255, 58-69	3.8	113
62	Global Regolith Thermophysical Properties of the Moon From the Diviner Lunar Radiometer Experiment. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 2371-2400	4.1	111
61	Global silicate mineralogy of the Moon from the Diviner lunar radiometer. <i>Science</i> , 2010 , 329, 1507-9	33.3	107
60	Thermal stability of ice on Ceres with rough topography. <i>Journal of Geophysical Research E: Planets</i> , 2015 , 120, 1567-1584	4.1	82
59	Hydrogen escape from Mars enhanced by deep convection in dust storms. <i>Nature Astronomy</i> , 2018 , 2, 126-132	12.1	79
58	Lunar surface roughness derived from LRO Diviner Radiometer observations. <i>Icarus</i> , 2015 , 248, 357-372	3.8	73
57	Titan's surface: Search for spectral diversity and composition using the Cassini VIMS investigation. <i>Icarus</i> , 2008 , 194, 212-242	3.8	71
56	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> , 2017 , Volume 292, 74-85	3.8	70
55	Constraints on the recent rate of lunar ejecta breakdown and implications for crater ages. <i>Geology</i> , 2014 , 42, 1059-1062	5	62
54	Carbon dioxide snow clouds on Mars: South polar winter observations by the Mars Climate Sounder. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		53
53	Diviner Lunar Radiometer observations of the LCROSS impact. <i>Science</i> , 2010 , 330, 477-9	33.3	53
52	Variability of the martian seasonal CO ₂ cap extent over eight Mars Years. <i>Icarus</i> , 2015 , 251, 164-180	3.8	46
51	Formation of lunar swirls by magnetic field standoff of the solar wind. <i>Nature Communications</i> , 2015 , 6, 6189	17.4	43
50	The role of snowfall in forming the seasonal ice caps of Mars: Models and constraints from the Mars Climate Sounder. <i>Icarus</i> , 2014 , 231, 122-130	3.8	40

49	Lunar cold spots: Granular flow features and extensive insulating materials surrounding young craters. <i>Icarus</i> , 2014 , 231, 221-231	3.8	37
48	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS 2013 , 2,		37
47	Conditions for Sublimating Water Ice to Supply Ceres' Exosphere. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 1984-1995	4.1	34
46	Seasonal Polar Temperatures on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 2505-2521	4.1	32
45	Discovery of a widespread low-latitude diurnal CO ₂ frost cycle on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 1174-1189	4.1	31
44	Widespread Shallow Water Ice on Mars at High Latitudes and Midlatitudes. <i>Geophysical Research Letters</i> , 2019 , 46, 14290-14298	4.9	30
43	Extreme detached dust layers near Martian volcanoes: Evidence for dust transport by mesoscale circulations forced by high topography. <i>Geophysical Research Letters</i> , 2015 , 42, 3730-3738	4.9	29
42	VIMS spectral mapping observations of Titan during the Cassini prime mission. <i>Planetary and Space Science</i> , 2009 , 57, 1950-1962	2	28
41	Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. <i>Geophysical Research Letters</i> , 2019 , 46, 2417-2424	4.9	27
40	Micro cold traps on the Moon. <i>Nature Astronomy</i> , 2021 , 5, 169-175	12.1	26
39	Compositional and spatial variations in Titan dune and interdune regions from Cassini VIMS and RADAR. <i>Icarus</i> , 2016 , 270, 222-237	3.8	24
38	The Young Age of the LAMP-observed Frost in Lunar Polar Cold Traps. <i>Geophysical Research Letters</i> , 2019 , 46, 8680-8688	4.9	23
37	Hydrated minerals on Europa's surface: An improved look from the Galileo NIMS investigation. <i>Icarus</i> , 2010 , 209, 639-650	3.8	23
36	Titan's surface composition and atmospheric transmission with solar occultation measurements by Cassini VIMS. <i>Icarus</i> , 2014 , 243, 158-172	3.8	22
35	Young lunar volcanic features: Thermophysical properties and formation. <i>Icarus</i> , 2017 , 290, 224-237	3.8	17
34	Origin of the anomalously rocky appearance of Tsiolkovskiy crater. <i>Icarus</i> , 2016 , 273, 237-247	3.8	16
33	The Holy Grail: A road map for unlocking the climate record stored within Mars's polar layered deposits. <i>Planetary and Space Science</i> , 2020 , 184, 104841	2	15
32	Complex explosive volcanic activity on the Moon within Oppenheimer crater. <i>Icarus</i> , 2016 , 273, 296-314	3.8	15

31	Water Vapor Contribution to Ceres' Exosphere From Observed Surface Ice and Postulated Ice-Exposing Impacts. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 61-75	4.1	15
30	Explorer of Enceladus and Titan (E2T): Investigating ocean worlds' evolution and habitability in the solar system. <i>Planetary and Space Science</i> , 2018 , 155, 73-90	2	15
29	Coevolution of Mars' atmosphere and massive south polar CO ₂ ice deposit. <i>Nature Astronomy</i> , 2020 , 4, 364-371	12.1	13
28	Evidence for ultra-cold traps and surface water ice in the lunar south polar crater Amundsen. <i>Icarus</i> , 2019 , 332, 1-13	3.8	12
27	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> , 2020 , 125, e2019JE006130	4.1	12
26	Lunar Cold Spots and Crater Production on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 2380-2392	4.1	11
25	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> , 2020 , 125, e2020JE006405	4.1	10
24	2019 ,		7
23	Ongoing resurfacing of KBO Eris by volatile transport in local, collisional, sublimation atmosphere regime. <i>Icarus</i> , 2019 , 334, 52-61	3.8	7
22	Asymmetries in Snowfall, Emissivity, and Albedo of Mars' Seasonal Polar Caps: Mars Climate Sounder Observations. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006150	4.1	6
21	Paleotectonics of a complex Miocene half graben formed above a detachment fault: The Diligencia basin, Orocochia Mountains, southern California. <i>Lithosphere</i> , 2014 , 6, 157-176	2.7	6
20	How dielectric breakdown may contribute to the global weathering of regolith on the moon. <i>Icarus</i> , 2019 , 319, 785-794	3.8	6
19	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> , 2017 , 343, 1-16	2.8	5
18	Thermophysical Properties of the North Polar Residual Cap using Mars Global Surveyor Thermal Emission Spectrometer. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 1315	4.1	5
17	Titan's surface geology63-101		5
16	The Subsurface Coherent Rock Content of the Moon as Revealed by Cold-Spot Craters. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 3373-3384	4.1	4
15	Design and Characterization of the Multi-Band SWIR Receiver for the Lunar Flashlight CubeSat Mission. <i>Remote Sensing</i> , 2019 , 11, 440	5	3
14	Surface Roughness Evolution and Implications for the Age of the North Polar Residual Cap of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006570	4.1	3

13	Volatile interactions with the lunar surface. <i>Chemie Der Erde</i> , 2021 , 125858	4.3	3
12	Lunar Flashlight: Illuminating the Lunar South Pole. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2020 , 35, 46-52	2.4	2
11	The spectral radiance of indirectly illuminated surfaces in regions of permanent shadow on the Moon. <i>Acta Astronautica</i> , 2021 , 180, 25-34	2.9	2
10	Spatial Distribution and Thermal Diversity of Surface Volatile Cold Traps at the Lunar Poles. <i>Planetary Science Journal</i> , 2022 , 3, 39	2.9	2
9	The case for a Themis asteroid family spacecraft mission. <i>Planetary and Space Science</i> , 2022 , 212, 105413		1
8	The Importance of the Climate Record in the Martian Polar Layered Deposits 2021 , 53,		1
7	ChangE-4 Rover Spectra Revealing Micro-scale Surface Thermophysical Properties of the Moon. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL089226	4.9	1
6	Small Penetrator Instrument Concept for the Advancement of Lunar Surface Science. <i>Planetary Science Journal</i> , 2021 , 2, 38	2.9	1
5	Europa's hemispheric color dichotomy as a constraint on non-synchronous rotation. <i>Icarus</i> , 2021 , 364, 114438	3.8	1
4	The case for a multi-channel polarization sensitive LIDAR for investigation of insolation-driven ices and atmospheres Planetary Science Decadal Survey White Paper		1
3	Impacts on the Moon: Analysis methods and size distribution of impactors. <i>Planetary and Space Science</i> , 2021 , 200, 105201	2	0
2	Polar Ice Accumulation from Volcanically Induced Transient Atmospheres on the Moon. <i>Planetary Science Journal</i> , 2022 , 3, 99	2.9	0
1	Composition and possible origins of dark crater ejecta on Europa. <i>Icarus</i> , 2022 , 115037	3.8	0