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List of Publications by Year in descending order

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64
papers

3,114
citations

201674

27
h-index

155660

55
g-index

66
all docs

66
docs citations

66
times ranked

2251
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	The global surface temperatures of the Moon as measured by the Diviner Lunar Radiometer Experiment. Icarus, 2017, 283, 300-325.	2.5	245
3	Lunar equatorial surface temperatures and regolith properties from the Diviner Lunar Radiometer Experiment. Journal of Geophysical Research, 2012, 117, .	3.3	229
4	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
5	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
6	Thermal evolution of the Martian core: Implications for an early dynamo. Geology, 2004, 32, 97.	4.4	132
7	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
8	Recent geological and hydrological activity on Mars: The Tharsis/Elysium corridor. Planetary and Space Science, 2008, 56, 985-1013.	1.7	92
9	Lunar surface roughness derived from LRO Diviner Radiometer observations. Icarus, 2015, 248, 357-372.	2.5	92
10	Low palaeopressure of the martian atmosphere estimated from the size distribution of ancient craters. Nature Geoscience, 2014, 7, 335-339.	12.9	88
11	Seasonal Polar Temperatures on the Moon. Journal of Geophysical Research E: Planets, 2019, 124, 2505-2521.	3.6	80
12	Evolution of lunar polar ice stability. Icarus, 2015, 255, 78-87.	2.5	72
13	The Mairan domes: Silicic volcanic constructs on the Moon. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	70
14	The thermal evolution of Mars as constrained by paleo-heat flows. Icarus, 2011, 215, 508-517.	2.5	69
15	Claritas rise, Mars: Pre-Tharsis magmatism?. Journal of Volcanology and Geothermal Research, 2009, 185, 139-156.	2.1	66
16	The production of small primary craters on Mars and the Moon. Icarus, 2014, 235, 23-36.	2.5	61
17	Acoustic environment of the Martian surface. Journal of Geophysical Research, 2001, 106, 5033-5041.	3.3	48
18	Effects of varying environmental conditions on emissivity spectra of bulk lunar soils: Application to Diviner thermal infrared observations of the Moon. Icarus, 2017, 283, 326-342.	2.5	47

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19	Dating very young planetary surfaces from crater statistics: A review of issues and challenges. <i>Meteoritics and Planetary Science</i> , 2018, 53, 554-582.	1.6	45
20	Regions of interest (ROI) for future exploration missions to the lunar South Pole. <i>Planetary and Space Science</i> , 2020, 180, 104750.	1.7	44
21	Surface properties of Mars' polar layered deposits and polar landing sites. <i>Journal of Geophysical Research</i> , 2000, 105, 6961-6969.	3.3	41
22	An analytic function of lunar surface temperature for exospheric modeling. <i>Icarus</i> , 2015, 255, 159-163.	2.5	40
23	Possible ancient giant basin and related water enrichment in the Arabia Terra province, Mars. <i>Icarus</i> , 2007, 190, 74-92.	2.5	39
24	Distal ejecta from lunar impacts: Extensive regions of rocky deposits. <i>Icarus</i> , 2017, 283, 282-299.	2.5	35
25	Secondary craters and ejecta across the solar system: Populations and effects on impactâ€craterâ€based chronologies. <i>Meteoritics and Planetary Science</i> , 2018, 53, 638-671.	1.6	35
26	Layering in the wall rock of Valles Marineris: intrusive and extrusive magmatism. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	34
27	New evidence for a magmatic influence on the origin of Valles Marineris, Mars. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 12-27.	2.1	31
28	Ancient heat flow and crustal thickness at Warrego rise, Thaumasia highlands, Mars: Implications for a stratified crust. <i>Icarus</i> , 2009, 203, 47-57.	2.5	28
29	Insolation driven variations of Mercury's lithospheric strength. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	27
30	Ices on Mercury: Chemistry of volatiles in permanently cold areas of Mercury's north polar region. <i>Icarus</i> , 2017, 281, 19-31.	2.5	26
31	The formation of Tharsis on Mars: What the lineâ€ofâ€sight gravity is telling us. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25
32	Depth of faulting and ancient heat flows in the Kuiper region of Mercury from lobate scarp topography. <i>Planetary and Space Science</i> , 2012, 60, 193-198.	1.7	25
33	The Lassell massifâ€A silicic lunar volcano. <i>Icarus</i> , 2016, 273, 248-261.	2.5	25
34	Powering Mercury's dynamo. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	24
35	Geological and hydrological histories of the Argyre province, Mars. <i>Icarus</i> , 2015, 253, 66-98.	2.5	24
36	The temperatures of Giordano Bruno crater observed by the Diviner Lunar Radiometer Experiment: Application of an effective field of view model for a point-based data set. <i>Icarus</i> , 2016, 273, 205-213.	2.5	23

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37	Origin of the anomalously rocky appearance of Tsiolkovskiy crater. <i>Icarus</i> , 2016, 273, 237-247.	2.5	23
38	Young lunar volcanic features: Thermophysical properties and formation. <i>Icarus</i> , 2017, 290, 224-237.	2.5	23
39	Lunar Cold Spots and Crater Production on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2380-2392.	3.6	23
40	Mapping of Ice Storage Processes on the Moon with Time-dependent Temperatures. <i>Planetary Science Journal</i> , 2020, 1, 54.	3.6	23
41	Carbon Dioxide Cold Traps on the Moon. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	20
42	Evidence for ultra-cold traps and surface water ice in the lunar south polar crater Amundsen. <i>Icarus</i> , 2019, 332, 1-13.	2.5	19
43	Thrust fault modeling and Late-Noachian lithospheric structure of the circum-Hellas region, Mars. <i>Icarus</i> , 2017, 288, 53-68.	2.5	18
44	Orbital eccentricity driven temperature variation at Mercury's poles. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 930-937.	3.6	17
45	The InSight Mars Lander and Its Effect on the Subsurface Thermal Environment. <i>Space Science Reviews</i> , 2017, 211, 259-275.	8.1	16
46	Through the Thick and Thin: New Constraints on Mars Paleopressure History 3.8–4.4 Ga from Small Exhumed Craters. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2793-2818.	3.6	16
47	Spatial Distribution and Thermal Diversity of Surface Volatile Cold Traps at the Lunar Poles. <i>Planetary Science Journal</i> , 2022, 3, 39.	3.6	16
48	Possible (closed system) pingo and ice-wedge/thermokarst complexes at the mid latitudes of Utopia Planitia, Mars. <i>Icarus</i> , 2020, 342, 113233.	2.5	15
49	Theoretical time variability of mobile water on the Moon and its geographic pattern. <i>Icarus</i> , 2017, 298, 111-116.	2.5	13
50	An inventory of potentially habitable environments on Mars: Geological and biological perspectives. , 2011, , .		11
51	Unraveling the geologic and tectonic history of the Memnonia-Sirenum region of Mars: Implications on the early formation of the Tharsis rise. <i>Icarus</i> , 2019, 332, 132-150.	2.5	11
52	Temperatures Near the Lunar Poles and Their Correlation With Hydrogen Predicted by LEND. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006598.	3.6	11
53	Diviner lunar radiometer gridded brightness temperatures from geodesic binning of modeled fields of view. <i>Icarus</i> , 2017, 298, 98-110.	2.5	10
54	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.	3.6	10

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55	Long-lived volcanism within Argyre basin, Mars. <i>Icarus</i> , 2017, 293, 8-26.	2.5	8
56	Possible ice-wedge polygonisation in Utopia Planitia, Mars and its latitudinal gradient of distribution. <i>Icarus</i> , 2021, 358, 114208.	2.5	7
57	The Effects of Terrain Properties Upon the Small Crater Population Distribution at Giordano Bruno: Implications for Lunar Chronology. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	5
58	The South Pole-Aitken basin region, Moon: GIS-based geologic investigation using Kaguya elemental information. <i>Advances in Space Research</i> , 2012, 50, 1629-1637.	2.6	4
59	Possible polyphase periglaciation and glaciation adjacent to the Moreux impact-crater, Mars. <i>Icarus</i> , 2021, 362, 114401.	2.5	4
60	Temperatures of the Lacus Mortis Region of the Moon. <i>Earth and Space Science</i> , 2022, 9, .	2.6	2
61	Paleo-Periglacial and "Ice-Rich" Complexes in Utopia Planitia. , 2018, , 209-237.		1
62	Modification of the Martian Surface by Impact Cratering. , 2018, , 363-386.		1
63	Is Earth-based scaling a valid procedure for calculating heat flows for Mars?. <i>Icarus</i> , 2013, 226, 536-540.	2.5	0
64	Volcanic Disruption of Recent Icy Terrain in the Argyre Basin, Mars. , 2018, , 273-292.		0