

Jeffrey J Gillis-Davis

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,365
citations

394421

19
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

1238
citing authors

#	ARTICLE	IF	CITATIONS
1	Flood Volcanism in the Northern High Latitudes of Mercury Revealed by MESSENGER. <i>Science</i> , 2011, 333, 1853-1856.	12.6	225
2	Volcanism on Mercury: Evidence from the First MESSENGER Flyby. <i>Science</i> , 2008, 321, 69-72.	12.6	169
3	Volcanism on Mercury: Evidence from the first MESSENGER flyby for extrusive and explosive activity and the volcanic origin of plains. <i>Earth and Planetary Science Letters</i> , 2009, 285, 227-242.	4.4	135
4	Mercury's Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. <i>Space Science Reviews</i> , 2014, 181, 121-214.	8.1	108
5	Orbital multispectral mapping of Mercury with the MESSENGER Mercury Dual Imaging System: Evidence for the origins of plains units and low-reflectance material. <i>Icarus</i> , 2015, 254, 287-305.	2.5	95
6	Multispectral images of Mercury from the first MESSENGER flyby: Analysis of global and regional color trends. <i>Earth and Planetary Science Letters</i> , 2009, 285, 272-282.	4.4	88
7	Global inventory and characterization of pyroclastic deposits on Mercury: New insights into pyroclastic activity from MESSENGER orbital data. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 635-658.	3.6	79
8	Pit-floor craters on Mercury: Evidence of near-surface igneous activity. <i>Earth and Planetary Science Letters</i> , 2009, 285, 243-250.	4.4	58
9	Detection of solar wind-produced water in irradiated rims on silicate minerals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1732-1735.	7.1	53
10	Untangling the formation and liberation of water in the lunar regolith. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11165-11170.	7.1	40
11	Testing the relation between UV-vis color and TiO ₂ content of the lunar maria. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 6079-6102.	3.9	31
12	Mercury surface composition: Integrating petrologic modeling and remote sensing data to place constraints on FeO abundance. <i>Icarus</i> , 2010, 209, 301-313.	2.5	31
13	Near-infrared optical constants of naturally occurring olivine and synthetic pyroxene as a function of mineral composition. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 708-732.	3.6	31
14	Ultraviolet spectral reflectance of carbonaceous materials. <i>Icarus</i> , 2018, 307, 40-82.	2.5	31
15	Incremental laser space weathering of Allende reveals non-lunar like space weathering effects. <i>Icarus</i> , 2017, 286, 1-14.	2.5	30
16	Olivine-bearing lithologies on the Moon: Constraints on origins and transport mechanisms from M3 spectroscopy, radiative transfer modeling, and GRAIL crustal thickness. <i>Icarus</i> , 2018, 300, 287-304.	2.5	27
17	Modal analyses of lunar soils by quantitative X-ray diffraction analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 17-28.	3.9	27
18	The compositional and physical properties of localized lunar pyroclastic deposits. <i>Icarus</i> , 2017, 283, 232-253.	2.5	23

#	ARTICLE	IF	CITATIONS
19	Availability and delta-v requirements for delivering water extracted from near-Earth objects to cis-lunar space. <i>Planetary and Space Science</i> , 2018, 159, 28-42.	1.7	21
20	Can perchlorates be transformed to hydrogen peroxide (H_2O_2) products by cosmic rays on the Martian surface?. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1880-1892.	3.6	13
21	Composition and origin of the Dewar geochemical anomaly. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	12
22	Untangling the Origin of Molecular Hydrogen in the Lunar Exosphere. <i>Astrophysical Journal</i> , 2019, 887, 27.	4.5	9
23	Absolute model ages from lunar crater morphology. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 725-738.	3.6	8
24	The origin of lunar concentric craters. <i>Icarus</i> , 2016, 278, 62-78.	2.5	7
25	Space Weathering-Induced Formation of Hydrogen Sulfide (H_2S) and Hydrogen Disulfide (H_2S_2) in the Murchison Meteorite. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2772-2779.	3.6	5
26	Regenerative water sources on surfaces of airless bodies. <i>Nature Astronomy</i> , 2020, 4, 45-52.	10.1	5
27	Volcanic Processes in the Cassendi Region of the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006034.	3.6	4