

Brett Denevi

List of Publications by Year in descending order

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89
papers

6,032
citations

53794

45
h-index

69250

77
g-index

92
all docs

92
docs citations

92
times ranked

2503
citing authors

#	ARTICLE	IF	CITATIONS
1	Science Goals and Mission Concept for a Landed Investigation of Mercury. Planetary Science Journal, 2022, 3, 68.	3.6	2
2	The Inner Solar System Chronology (ISOCHRON) Lunar Sample Return Mission Concept: Revealing Two Billion Years of History. Planetary Science Journal, 2021, 2, 79.	3.6	8
3	Near-UV and near-IR reflectance studies of lunar swirls: Implications for nanosize iron content and the nature of anomalous space weathering. Icarus, 2021, 364, 114472.	2.5	13
4	The Global Distribution of Lunar Light Plains From the Lunar Reconnaissance Orbiter Camera. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006073.	3.6	11
5	Impact Melt Facies in the Moon's Crisium Basin: Identifying, Characterizing, and Future Radiogenic Dating. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006024.	3.6	12
6	Far-UV Observations of Lunar Rayed Craters with LRO's LAMP. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006269.	3.6	3
7	Optical constants of iron and nickel metal and an assessment of their relative influences on silicate mixture spectra from the FUV to the NIR. Icarus, 2019, 317, 229-241.	2.5	7
8	An Examination of Several Discrete Lunar Nearside Photometric Anomalies Observed in Lyman- α Maps. Journal of Geophysical Research E: Planets, 2019, 124, 294-315.	3.6	5
9	Ina, Moon: Geologic setting, scientific rationale, and site characterization for a small planetary lander concept. Planetary and Space Science, 2019, 171, 1-16.	1.7	2
10	Global Distribution and Spectral Properties of Low-Reflectance Material on Mercury. Geophysical Research Letters, 2018, 45, 2945-2953.	4.0	41
11	Using complementary remote sensing techniques to assess the presence of volatiles at the lunar north pole. Planetary and Space Science, 2018, 162, 133-147.	1.7	15
12	The Geologic History of Mercury. , 2018, , 144-175.		10
13	Mercury's Global Evolution. , 2018, , 516-543.		8
14	Calibration, Projection, and Final Image Products of MESSENGER's Mercury Dual Imaging System. Space Science Reviews, 2018, 214, 1.	8.1	53
15	Lunar mare TiO ₂ abundances estimated from UV/Vis reflectance. Icarus, 2017, 296, 216-238.	2.5	127
16	The new Moon. Physics Today, 2017, 70, 38-44.	0.3	4
17	Extending MESSENGER's Mercury dual imager's eight-color photometric standardization to cover all eleven filters. Icarus, 2017, 297, 83-89.	2.5	3
18	The distribution and extent of lunar swirls. Icarus, 2016, 273, 53-67.	2.5	54

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19	The distribution and origin of lunar light plains around Orientale basin. <i>Icarus</i> , 2016, 273, 135-145.	2.5	25
20	Global variations in regolith properties on asteroid Vesta from Dawn's low-altitude mapping orbit. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2366-2386.	1.6	11
21	Analysis of MESSENGER high-resolution images of Mercury's hollows and implications for hollow formation. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1798-1813.	3.6	30
22	Widespread effusive volcanism on Mercury likely ended by about 3.5 Ga. <i>Geophysical Research Letters</i> , 2016, 43, 7408-7416.	4.0	98
23	Imaging Mercury's polar deposits during MESSENGER's low-altitude campaign. <i>Geophysical Research Letters</i> , 2016, 43, 9461-9468.	4.0	31
24	Inflight Calibration of the Lunar Reconnaissance Orbiter Camera Wide Angle Camera. <i>Space Science Reviews</i> , 2016, 200, 393-430.	8.1	14
25	Application of multiple photometric models to disk-resolved measurements of Mercury's surface: Insights into Mercury's regolith characteristics. <i>Icarus</i> , 2016, 268, 172-203.	2.5	40
26	Remote sensing evidence for an ancient carbon-bearing crust on Mercury. <i>Nature Geoscience</i> , 2016, 9, 273-276.	12.9	134
27	An exceptional grouping of lunar highland smooth plains: Geography, morphology, and possible origins. <i>Icarus</i> , 2016, 273, 121-134.	2.5	12
28	Optical space weathering on Vesta: Radiative-transfer models and Dawn observations. <i>Icarus</i> , 2016, 265, 161-174.	2.5	9
29	Mercury's global color mosaic: An update from MESSENGER's orbital observations. <i>Icarus</i> , 2015, 257, 477-488.	2.5	27
30	New crater on the Moon and a swarm of secondaries. <i>Icarus</i> , 2015, 252, 229-235.	2.5	46
31	Evidence for geochemical terranes on Mercury: Global mapping of major elements with MESSENGER's X-Ray Spectrometer. <i>Earth and Planetary Science Letters</i> , 2015, 416, 109-120.	4.4	167
32	Low-altitude magnetic field measurements by MESSENGER reveal Mercury's ancient crustal field. <i>Science</i> , 2015, 348, 892-895.	12.6	89
33	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
34	Stratigraphy of the Caloris basin, Mercury: Implications for volcanic history and basin impact melt. <i>Icarus</i> , 2015, 250, 413-429.	2.5	49
35	Spectra of the Wells lunar glass simulants: New old data for reflectance modeling. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 925-940.	3.6	8
36	Phase-ratio images of the surface of Mercury: Evidence for differences in sub-resolution texture. <i>Icarus</i> , 2014, 242, 142-148.	2.5	27

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37	Thermal measurements of dark and bright surface features on Vesta as derived from Dawn/VIR. <i>Icarus</i> , 2014, 240, 36-57.	2.5	52
38	Resolved Hapke parameter maps of the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1775-1805.	3.6	104
39	Images of surface volatiles in Mercury's polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , 2014, 42, 1051-1054.	4.4	67
40	Intercrater plains on Mercury: Insights into unit definition, characterization, and origin from MESSENGER datasets. <i>Icarus</i> , 2014, 241, 97-113.	2.5	67
41	Occurrence and mechanisms of impact melt emplacement at small lunar craters. <i>Icarus</i> , 2014, 243, 337-357.	2.5	38
42	The geology of the Marcia quadrangle of asteroid Vesta: Assessing the effects of large, young craters. <i>Icarus</i> , 2014, 244, 74-88.	2.5	36
43	Lobate and flow-like features on asteroid Vesta. <i>Planetary and Space Science</i> , 2014, 103, 24-35.	1.7	42
44	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
45	Characterization of space weathering from Lunar Reconnaissance Orbiter Camera ultraviolet observations of the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 976-997.	3.6	43
46	Global photometric properties of Asteroid (4) Vesta observed with Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1252-1274.	2.5	68
47	LRO observations of morphology and surface roughness of volcanic cones and lobate lava flows in the Marius Hills. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 615-634.	3.6	57
48	Craters hosting radar-bright deposits in Mercury's north polar region: Areas of persistent shadow determined from MESSENGER images. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 26-36.	3.6	36
49	Olivine or impact melt: Nature of the "Orange" material on Vesta from Dawn. <i>Icarus</i> , 2013, 226, 1568-1594.	2.5	47
50	Dawn completes its mission at 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2076-2089.	1.6	54
51	Mercury's hollows: Constraints on formation and composition from analysis of geological setting and spectral reflectance. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1013-1032.	3.6	97
52	The distribution and origin of smooth plains on Mercury. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 891-907.	3.6	193
53	Distinctive space weathering on Vesta from regolith mixing processes. <i>Nature</i> , 2012, 491, 79-82.	27.8	120
54	Dark material on Vesta from the infall of carbonaceous volatile-rich material. <i>Nature</i> , 2012, 491, 83-86.	27.8	151

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55	Areas of permanent shadow in Mercury's south polar region ascertained by MESSENGER orbital imaging. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	43
56	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. <i>Science</i> , 2012, 338, 246-249.	12.6	91
57	The wavelength dependence of the lunar phase curve as seen by the Lunar Reconnaissance Orbiter wide-angle camera. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	62
58	Variations in the abundances of potassium and thorium on the surface of Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	85
59	Chemical heterogeneity on Mercury's surface revealed by the MESSENGER X-Ray Spectrometer. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	144
60	Recent extensional tectonics on the Moon revealed by the Lunar Reconnaissance Orbiter Camera. <i>Nature Geoscience</i> , 2012, 5, 181-185.	12.9	83
61	Determination of iron metal optical constants: Implications for ultraviolet, visible, and near-infrared remote sensing of airless bodies. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	22
62	Vesta's Shape and Morphology. <i>Science</i> , 2012, 336, 687-690.	12.6	222
63	Color and Albedo Heterogeneity of Vesta from Dawn. <i>Science</i> , 2012, 336, 700-704.	12.6	166
64	Physical constraints on impact melt properties from Lunar Reconnaissance Orbiter Camera images. <i>Icarus</i> , 2012, 219, 665-675.	2.5	51
65	Hollows on Mercury: MESSENGER Evidence for Geologically Recent Volatile-Related Activity. <i>Science</i> , 2011, 333, 1856-1859.	12.6	136
66	Flood Volcanism in the Northern High Latitudes of Mercury Revealed by MESSENGER. <i>Science</i> , 2011, 333, 1853-1856.	12.6	225
67	Photometric correction of Mercury's global color mosaic. <i>Planetary and Space Science</i> , 2011, 59, 1873-1887.	1.7	22
68	The global distribution of pyroclastic deposits on Mercury: The view from MESSENGER flybys 1-3. <i>Planetary and Space Science</i> , 2011, 59, 1895-1909.	1.7	105
69	Mercury's spectrophotometric properties: Update from the Mercury Dual Imaging System observations during the third MESSENGER flyby. <i>Planetary and Space Science</i> , 2011, 59, 1853-1872.	1.7	22
70	The transition from complex crater to peak-ring basin on Mercury: New observations from MESSENGER flyby data and constraints on basin formation models. <i>Planetary and Space Science</i> , 2011, 59, 1932-1948.	1.7	54
71	Mapping iron abundances on the surface of Mercury: Predicted spatial resolution of the MESSENGER Gamma-Ray Spectrometer. <i>Planetary and Space Science</i> , 2011, 59, 1654-1658.	1.7	10
72	Whole-disk spectrophotometric properties of Mercury: Synthesis of MESSENGER and ground-based observations. <i>Icarus</i> , 2010, 209, 101-124.	2.5	35

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73	The apparent lack of lunar-like swirls on Mercury: Implications for the formation of lunar swirls and for the agent of space weathering. <i>Icarus</i> , 2010, 209, 239-246.	2.5	46
74	Lunar Reconnaissance Orbiter Camera (LROC) Instrument Overview. <i>Space Science Reviews</i> , 2010, 150, 81-124.	8.1	730
75	Exposure of spectrally distinct material by impact craters on Mercury: Implications for global stratigraphy. <i>Icarus</i> , 2010, 209, 210-223.	2.5	82
76	Evidence for Young Volcanism on Mercury from the Third MESSENGER Flyby. <i>Science</i> , 2010, 329, 668-671.	12.6	118
77	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
78	Emplacement and tectonic deformation of smooth plains in the Caloris basin, Mercury. <i>Earth and Planetary Science Letters</i> , 2009, 285, 309-319.	4.4	53
79	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
80	In-flight performance of MESSENGER's Mercury Dual Imaging System. <i>Proceedings of SPIE</i> , 2009, , .	0.8	22
81	Evolution of the Rembrandt Impact Basin on Mercury. <i>Science</i> , 2009, 324, 618-621.	12.6	46
82	The Evolution of Mercury's Crust: A Global Perspective from MESSENGER. <i>Science</i> , 2009, 324, 613-618.	12.6	194
83	Mercury's albedo from Mariner 10: Implications for the presence of ferrous iron. <i>Icarus</i> , 2008, 197, 239-246.	2.5	73
84	Radiative transfer modeling of near-infrared spectra of lunar mare soils: Theory and measurement. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	43
85	High-performance Sagnac interferometer using uncooled detectors for infrared hyperspectral applications. , 2007, , .		6
86	Near-infrared optical constants of pyroxene as a function of iron and calcium content. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	30
87	Radiative transfer modeling of compositions of lunar pyroclastic deposits. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	37
88	Constraints on the depth and variability of the lunar regolith. <i>Meteoritics and Planetary Science</i> , 2005, 40, 695-710.	1.6	142
89	Mapping iron in the lunar mare: An improved approach. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	45