

# Bradley J Thomson

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

3,185  
citations

218677

26  
h-index

265206

42  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Possible Ancient Oceans on Mars: Evidence from Mars Orbiter Laser Altimeter Data. <i>Science</i> , 1999, 286, 2134-2137.	12.6	379
2	Paleoclimate of Mars as captured by the stratigraphic record in Gale Crater. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	368
3	Constraints on the origin and evolution of the layered mound in Gale Crater, Mars using Mars Reconnaissance Orbiter data. <i>Icarus</i> , 2011, 214, 413-432.	2.5	258
4	A Closer Look at Water-Related Geologic Activity on Mars. <i>Science</i> , 2007, 317, 1706-1709.	12.6	185
5	Hydrothermal formation of Clay-Carbonate alteration assemblages in the Nili Fossae region of Mars. <i>Earth and Planetary Science Letters</i> , 2010, 297, 174-182.	4.4	169
6	Crater degradation on the lunar maria: Topographic diffusion and the rate of erosion on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2255-2271.	3.6	162
7	The High Resolution Imaging Science Experiment (HiRISE) during MRO's Primary Science Phase (PSP). <i>Icarus</i> , 2010, 205, 2-37.	2.5	153
8	Evidence for water ice on the Moon: Results for anomalous polar craters from the LRO Mini-RF imaging radar. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2016-2029.	3.6	152
9	Planet-wide sand motion on Mars. <i>Geology</i> , 2012, 40, 31-34.	4.4	136
10	HiRISE imaging of impact megabreccia and sub-meter aqueous strata in Holden Crater, Mars. <i>Geology</i> , 2008, 36, 195.	4.4	105
11	HiRISE observations of slope streaks on Mars. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	100
12	Aeolian bedforms, yardangs, and indurated surfaces in the Tharsis Montes as seen by the HiRISE Camera: Evidence for dust aggregates. <i>Icarus</i> , 2010, 205, 165-182.	2.5	80
13	Mars Reconnaissance Orbiter observations of light-toned layered deposits and associated fluvial landforms on the plateaus adjacent to Valles Marineris. <i>Icarus</i> , 2010, 205, 73-102.	2.5	79
14	Windy Mars: A dynamic planet as seen by the HiRISE camera. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	78
15	The nature of lunar volatiles as revealed by Mini-RF observations of the LCROSS impact site. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	71
16	An upper limit for ice in Shackleton crater as revealed by LRO Mini-RF orbital radar. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	65
17	Utopia Basin, Mars: Characterization of topography and morphology and assessment of the origin and evolution of basin internal structure. <i>Journal of Geophysical Research</i> , 2001, 106, 23209-23230.	3.3	59
18	Bistatic radar observations of the Moon using Mini-RF on LRO and the Arecibo Observatory. <i>Icarus</i> , 2017, 283, 2-19.	2.5	59

#	ARTICLE	IF	CITATIONS
19	A new technique for estimating the thickness of mare basalts in Imbrium Basin. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	54
20	Contemporaneous deposition of phyllosilicates and sulfates: Using Australian acidic saline lake deposits to describe geochemical variability on Mars. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	53
21	The Miniature Radio Frequency instrument's (Mini-RF) global observations of Earth's Moon. <i>Icarus</i> , 2014, 243, 173-190.	2.5	51
22	The surficial nature of lunar swirls as revealed by the Mini-RF instrument. <i>Icarus</i> , 2011, 215, 186-196.	2.5	44
23	Evidence for rapid topographic evolution and crater degradation on Mercury from simple crater morphometry. <i>Geophysical Research Letters</i> , 2017, 44, 5326-5335.	4.0	28
24	Modeling aluminum-silicon chemistries and application to Australian acidic playa lakes as analogues for Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3493-3511.	3.9	27
25	Estimating rock compressive strength from Rock Abrasion Tool (RAT) grinds. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1233-1244.	3.6	27
26	Rock abrasion features in the Columbia Hills, Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	26
27	The effects of weathering on the strength and chemistry of Columbia River Basalts and their implications for Mars Exploration Rover Rock Abrasion Tool (RAT) results. <i>Earth and Planetary Science Letters</i> , 2014, 400, 130-144.	4.4	26
28	The geology of the Viking Lander 2 site revisited. <i>Icarus</i> , 2007, 191, 505-523.	2.5	22
29	Dating small fresh lunar craters with Mini-RF radar observations of ejecta blankets. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
30	Bulk composition of regolith fines on lunar crater floors: Initial investigation by LRO/Mini-RF. <i>Earth and Planetary Science Letters</i> , 2020, 541, 116274.	4.4	18
31	In situ measurement of ferric iron in lunar glass beads using Fe-XAS. <i>Icarus</i> , 2017, 285, 95-102.	2.5	16
32	Identifying cryptotephra units using correlated rapid, nondestructive methods: VSWIR spectroscopy, X-ray fluorescence, and magnetic susceptibility. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4029-4056.	2.5	15
33	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
34	Temporal Evolution of S-Band Circular Polarization Ratios of Kilometer-Scale Craters on the Lunar Maria. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3133-3143.	3.6	11
35	Prolonged Rock Exhumation at the Rims of Kilometer-Scale Lunar Craters. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006897.	3.6	11
36	Volcanic edifice alignment detection software in MATLAB: Test data and preliminary results for shield fields on Venus. <i>Computers and Geosciences</i> , 2016, 93, 1-11.	4.2	8

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37	How Much of the Sediment in Gale Crater's Central Mound Was Fluvially Transported?. Geophysical Research Letters, 2019, 46, 5092-5099.	4.0	6
38	Rock Abundance on the Lunar Mare on Surfaces of Different Age: Implications for Regolith Evolution and Thickness. Geophysical Research Letters, 2022, 49, .	4.0	5
39	Orbital Observations of a Marker Horizon at Gale Crater. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	5
40	Brazilian Analog for Ancient Marine Environments on Mars. Eos, 2008, 89, 329-330.	0.1	3
41	Characterization of tephra deposits using VNIR and MIR spectroscopy: A comprehensive terrestrial tephra spectral library. Remote Sensing of Environment, 2022, 273, 112965.	11.0	2
42	Future Mars Rovers: The Next Places to Direct Our Curiosity. Eos, 2014, 95, 313-314.	0.1	1
43	Thank You to Our 2020 Peer Reviewers. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006865.	3.6	0
44	Geologic mapping, morphometric characterization, and statistical analyses of six venusian shield fields: Insights into the processes related to their formation. , 2019, , .		0
45	In Recognition of Our 2021 Peer Reviewers. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	0