Joshua Bandfield

List of Publications by Year
in descending order

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30 papers	3,416 citations	304743 22 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	2439 citing authors

#	Article	IF	Citations
1	Mars Global Surveyor Thermal Emission Spectrometer experiment: Investigation description and surface science results. Journal of Geophysical Research, 2001, 106, 23823-23871.	3.3	903
2	Diviner Lunar Radiometer Observations of Cold Traps in the Moonâ€™s South Polar Region. Science, 2010, 330, 479-482.	12.6	385
3	Lunar surface rock abundance and regolith fines temperatures derived from LRO Diviner Radiometer data. Journal of Geophysical Research, 2011, 116, .	3.3	235
4	Lunar equatorial surface temperatures and regolith properties from the Diviner Lunar Radiometer Experiment. Journal of Geophysical Research, 2012, 117, .	3.3	229
5	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
6	Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. Nature Astronomy, 2019, 3, 341-351.	10.1	188
7	Highly Silicic Compositions on the Moon. Science, 2010, 329, 1510-1513.	12.6	175
8	Global Silicate Mineralogy of the Moon from the Diviner Lunar Radiometer. Science, 2010, 329, 1507-1509.	12.6	154
9	High-resolution subsurface water-ice distributions on Mars. Nature, 2007, 447, 64-67.	27.8	94
10	Constraints on the recent rate of lunar ejecta breakdown and implications for crater ages. Geology, 2014, 42, 1059-1062.	4.4	92
11	Lunar surface roughness derived from LRO Diviner Radiometer observations. Icarus, 2015, 248, 357-372.	2.5	92
12	Asteroid (101955) Bennuâ€™s weak boulders and thermally anomalous equator. Science Advances, 2020, 6, .	10.3	83
13	Formation of lunar swirls by magnetic field standoff of the solar wind. Nature Communications, 2015, 6, 6189.	12.8	73
14	Widespread distribution of OH/H2O on the lunar surface inferred from spectral data. Nature Geoscience, 2018, 11, 173-177.	12.9	71
15	Martian high latitude permafrost depth and surface cover thermal inertia distributions. Journal of Geophysical Research, 2008, 113, .	3.3	69
16	Widespread Shallow Water Ice on Mars at High Latitudesand Midlatitudes. Geophysical Research Letters, 2019, 46, 14290-14298.	4.0	59
17	Lunar cold spots: Granular flow features and extensive insulating materials surrounding young craters. Icarus, 2014, 231, 221-231.	2.5	54
18	Constraints on the composition and particle size of chloride saltâ€bearing deposits on Mars. Journal of Geophysical Research E: Planets, 2016, 121, 454-471.	3.6	50

#	Article	IF	Citations
19	Effects of surface roughness and graybody emissivity on martian thermal infrared spectra. Icarus, 2009, 202, 414-428.	2.5	39
20	Distal ejecta from lunar impacts: Extensive regions of rocky deposits. Icarus, 2017, 283, 282-299.	2.5	35
21	Derivation of martian surface slope characteristics from directional thermal infrared radiometry. Icarus, 2008, 193, 139-157.	2.5	34
22	Lunar Cold Spots and Crater Production on the Moon. Journal of Geophysical Research E: Planets, 2018, 123, 2380-2392.	3.6	23
23	The Lost City Hydrothermal Field: A Spectroscopic and Astrobiological Analogue for Nili Fossae, Mars. Astrobiology, 2017, 17, 1138-1160.	3.0	17
24	Hemispheric asymmetry in martian seasonal surface water ice from MGS TES. Icarus, 2015, 260, 396-408.	2.5	15
25	Modeling the Angular Dependence of Emissivity of Randomly Rough Surfaces. Journal of Geophysical Research E: Planets, 2019, 124, 585-601.	3.6	15
26	MGSâ€TES Spectra Suggest a Basaltic Component in the Regolith of Phobos. Journal of Geophysical Research E: Planets, 2018, 123, 2467-2484.	3.6	14
27	The Subsurface Coherent Rock Content of the Moon as Revealed by Coldâ€Spot Craters. Journal of Geophysical Research E: Planets, 2019, 124, 3373-3384.	3.6	10
28	Thermophysical Properties of the North Polar Residual Cap using Mars Global Surveyor Thermal Emission Spectrometer. Journal of Geophysical Research E: Planets, 2019, 124, 1315-1330.	3.6	8
29	Extensive aqueous deposits at the base of the dichotomy boundary in Nilosyrtis Mensae, Mars. Icarus, 2016, 275, 29-44.	2.5	6
30	Rover observations in Gusev Crater: Evidence for a style of weathering unique to Mars?. American Mineralogist, 2017, 102, 233-234.	1.9	1