Benjamin T Greenhagen

List of Publications by Year
in descending order

45 papers	3,184 citations	218677 26 h-index	254184 43 g-index
48 all docs	48 docs citations	48 times ranked	1563 citing authors

#	Article	IF	Citations
1	Diviner Lunar Radiometer Observations of Cold Traps in the Moonâ€™s South Polar Region. Science, 2010, 330, 479-482.	12.6	385
2	The Lunar Reconnaissance Orbiter Diviner Lunar Radiometer Experiment. Space Science Reviews, 2010, 150, 125-160.	8.1	309
3	The global surface temperatures of the Moon as measured by the Diviner Lunar Radiometer Experiment. Icarus, 2017, 283, 300-325.	2.5	245
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	Evidence for exposed water ice in the Moonâ€™s south polar regions from Lunar Reconnaissance Orbiter ultraviolet albedo and temperature measurements. Icarus, 2015, 255, 58-69.	2.5	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	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
10	Non-mare silicic volcanism on the lunar farside at Comptonâ€“Belkovich. Nature Geoscience, 2011, 4, 566-571.	12.9	114
11	Lunar surface roughness derived from LRO Diviner Radiometer observations. Icarus, 2015, 248, 357-372.	2.5	92
12	Global assessment of pure crystalline plagioclase across the Moon and implications for the evolution of the primary crust. Journal of Geophysical Research E: Planets, 2014, 119, 1516-1545.	3.6	86
13	Formation of lunar swirls by magnetic field standoff of the solar wind. Nature Communications, 2015, 6, 6189.	12.8	73
14	Diviner Lunar Radiometer Observations of the LCROSS Impact. Science, 2010, 330, 477-479.	12.6	68
15	LRO observations of morphology and surface roughness of volcanic cones and lobate lava flows in the Marius Hills. Journal of Geophysical Research E: Planets, 2013, 118, 615-634.	3.6	57
16	Thermal infrared emissivity measurements under a simulated lunar environment: Application to the Diviner Lunar Radiometer Experiment. Journal of Geophysical Research, 2012, 117, .	3.3	50
17	Laboratory emissivity measurements of the plagioclase solid solution series under varying environmental conditions. Journal of Geophysical Research, 2012, 117, .	3.3	50
18	Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. Geophysical Research Letters, 2019, 46, 2417-2424.	4.0	49

#	Article	IF	Citations
19	Mapping and characterization of non-polar permanent shadows on the lunar surface. Icarus, 2013, 223, 566-581.	2.5	47
20	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
21	Space weathering effects in Diviner Lunar Radiometer multispectral infrared measurements of the lunar Christiansen Feature: Characteristics and mitigation. Icarus, 2017, 283, 343-351.	2.5	41
22	An analytic function of lunar surface temperature for exospheric modeling. Icarus, 2015, 255, 159-163.	2.5	40
23	A new experimental setup for making thermal emission measurements in a simulated lunar environment. Review of Scientific Instruments, 2012, 83, 124502.	1.3	30
24	Analysis of lunar pyroclastic deposit FeO abundances by LRO Diviner. Journal of Geophysical Research, 2012, 117, .	3.3	29
25	Constraints on olivineâ€rich rock types on the Moon as observed by Diviner and M³: Implications for the formation of the lunar crust. Journal of Geophysical Research E: Planets, 2016, 121, 1342-1361.	3.6	29
26	Bulk mineralogy of lunar crater central peaks via thermal infrared spectra from the Diviner Lunar Radiometer: A study of the Moon's crustal composition at depth. Journal of Geophysical Research E: Planets, 2013, 118, 689-707.	3.6	28
27	The Lassell massifâ€”A silicic lunar volcano. Icarus, 2016, 273, 248-261.	2.5	25
28	Complex explosive volcanic activity on the Moon within Oppenheimer crater. Icarus, 2016, 273, 296-314.	2.5	24
29	Origin of the anomalously rocky appearance of Tsiolkovskiy crater. Icarus, 2016, 273, 237-247.	2.5	23
30	Bulk hydrogen abundances in the lunar highlands: Measurements from orbital neutron data. Icarus, 2015, 255, 127-134.	2.5	21
31	Water Group Exospheres and Surface Interactions on the Moon, Mercury, and Ceres. Space Science Reviews, 2021, 217, 1.	8.1	21
32	Evidence for ultra-cold traps and surface water ice in the lunar south polar crater Amundsen. Icarus, 2019, 332, 1-13.	2.5	19
33	Christiansen Feature Map From the Lunar Reconnaissance Orbiter Diviner Lunar Radiometer Experiment: Improved Corrections and Derived Mineralogy. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006777.	3.6	19
34	CASTAway: An asteroid main belt tour and survey. Advances in Space Research, 2018, 62, 1998-2025.	2.6	18
35	Lunar Flashlight: Illuminating the Lunar South Pole. IEEE Aerospace and Electronic Systems Magazine, 2020, 35, 46-52.	1.3	16
36	Spatial Distribution and Thermal Diversity of Surface Volatile Cold Traps at the Lunar Poles. Planetary Science Journal, 2022, 3, 39.	3.6	16

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37	Estimation of surface temperatures on Mercury in preparation of the MERTIS experiment onboard BepiColombo. Icarus, 2021, 354, 114083.	2.5	11
38	The Scientific Value of a Sustained Exploration Program at the Aristarchus Plateau. Planetary Science Journal, 2021, 2, 136.	3.6	11
39	Diviner lunar radiometer gridded brightness temperatures from geodesic binning of modeled fields of view. Icarus, 2017, 298, 98-110.	2.5	10
40	Identification of Potential Mantle Rocks Around the Lunar Imbrium Basin. Geophysical Research Letters, 2020, 47, e2020GL090334.	4.0	8
41	A New Method for Simulation of Lunar Microwave Brightness Temperatures and Evaluation of Chang'Eâ€2 MRM Data Using Thermal Constraints From Diviner. Journal of Geophysical Research E: Planets, 2019, 124, 1433-1450.	3.6	7
42	An Examination of Several Discrete Lunar Nearside Photometric Anomalies Observed in Lymanâ€Î± Maps. Journal of Geophysical Research E: Planets, 2019, 124, 294-315.	3.6	5
43	Temperatures of the Lacus Mortis Region of the Moon. Earth and Space Science, 2022, 9, .	2.6	2
44	Assessing the Present-Day Impact Flux to the Lunar Surface Via Impact Flash Monitoring and Its Implications for Sustained Lunar Exploration. , 2021, 53, .		1
45	Near-Earth Objects. , 2021, 53, .		0