

# Benjamin T Greenhagen

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Temperatures of the Lacus Mortis Region of the Moon. <i>Earth and Space Science</i> , 2022, 9, .	2.6	2
2	Spatial Distribution and Thermal Diversity of Surface Volatile Cold Traps at the Lunar Poles. <i>Planetary Science Journal</i> , 2022, 3, 39.	3.6	16
3	Estimation of surface temperatures on Mercury in preparation of the MERTIS experiment onboard BepiColombo. <i>Icarus</i> , 2021, 354, 114083.	2.5	11
4	Assessing the Present-Day Impact Flux to the Lunar Surface Via Impact Flash Monitoring and Its Implications for Sustained Lunar Exploration. , 2021, 53, .		1
5	Near-Earth Objects. , 2021, 53, .		0
6	Christiansen Feature Map From the Lunar Reconnaissance Orbiter Diviner Lunar Radiometer Experiment: Improved Corrections and Derived Mineralogy. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006777.	3.6	19
7	The Scientific Value of a Sustained Exploration Program at the Aristarchus Plateau. <i>Planetary Science Journal</i> , 2021, 2, 136.	3.6	11
8	Water Group Exospheres and Surface Interactions on the Moon, Mercury, and Ceres. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	21
9	Identification of Potential Mantle Rocks Around the Lunar Imbrium Basin. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090334.	4.0	8
10	Lunar Flashlight: Illuminating the Lunar South Pole. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2020, 35, 46-52.	1.3	16
11	Evidence for ultra-cold traps and surface water ice in the lunar south polar crater Amundsen. <i>Icarus</i> , 2019, 332, 1-13.	2.5	19
12	A New Method for Simulation of Lunar Microwave Brightness Temperatures and Evaluation of Chang'E-2 MRM Data Using Thermal Constraints From Diviner. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1433-1450.	3.6	7
13	An Examination of Several Discrete Lunar Nearside Photometric Anomalies Observed in Lyman- $\alpha$ Maps. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 294-315.	3.6	5
14	Diurnally Migrating Lunar Water: Evidence From Ultraviolet Data. <i>Geophysical Research Letters</i> , 2019, 46, 2417-2424.	4.0	49
15	CASTAway: An asteroid main belt tour and survey. <i>Advances in Space Research</i> , 2018, 62, 1998-2025.	2.6	18
16	Space weathering effects in Diviner Lunar Radiometer multispectral infrared measurements of the lunar Christiansen Feature: Characteristics and mitigation. <i>Icarus</i> , 2017, 283, 343-351.	2.5	41
17	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. <i>Icarus</i> , 2017, 292, 74-85.	2.5	119
18	Diviner lunar radiometer gridded brightness temperatures from geodesic binning of modeled fields of view. <i>Icarus</i> , 2017, 298, 98-110.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Global Regolith Thermophysical Properties of the Moon From the Diviner Lunar Radiometer Experiment. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2371-2400.	3.6	193
20	Effects of varying environmental conditions on emissivity spectra of bulk lunar soils: Application to Diviner thermal infrared observations of the Moon. <i>Icarus</i> , 2017, 283, 326-342.	2.5	47
21	The global surface temperatures of the Moon as measured by the Diviner Lunar Radiometer Experiment. <i>Icarus</i> , 2017, 283, 300-325.	2.5	245
22	Constraints on olivine-rich rock types on the Moon as observed by Diviner and M <sup>3</sup> : Implications for the formation of the lunar crust. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1342-1361.	3.6	29
23	Complex explosive volcanic activity on the Moon within Oppenheimer crater. <i>Icarus</i> , 2016, 273, 296-314.	2.5	24
24	Origin of the anomalously rocky appearance of Tsiolkovskiy crater. <i>Icarus</i> , 2016, 273, 237-247.	2.5	23
25	The Lassell massif—A silicic lunar volcano. <i>Icarus</i> , 2016, 273, 248-261.	2.5	25
26	Bulk hydrogen abundances in the lunar highlands: Measurements from orbital neutron data. <i>Icarus</i> , 2015, 255, 127-134.	2.5	21
27	An analytic function of lunar surface temperature for exospheric modeling. <i>Icarus</i> , 2015, 255, 159-163.	2.5	40
28	Evidence for exposed water ice in the Moon's south polar regions from Lunar Reconnaissance Orbiter ultraviolet albedo and temperature measurements. <i>Icarus</i> , 2015, 255, 58-69.	2.5	188
29	Formation of lunar swirls by magnetic field standoff of the solar wind. <i>Nature Communications</i> , 2015, 6, 6189.	12.8	73
30	Lunar surface roughness derived from LRO Diviner Radiometer observations. <i>Icarus</i> , 2015, 248, 357-372.	2.5	92
31	Global assessment of pure crystalline plagioclase across the Moon and implications for the evolution of the primary crust. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1516-1545.	3.6	86
32	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. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 689-707.	3.6	28
33	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
34	Mapping and characterization of non-polar permanent shadows on the lunar surface. <i>Icarus</i> , 2013, 223, 566-581.	2.5	47
35	A new experimental setup for making thermal emission measurements in a simulated lunar environment. <i>Review of Scientific Instruments</i> , 2012, 83, 124502.	1.3	30
36	Thermal infrared emissivity measurements under a simulated lunar environment: Application to the Diviner Lunar Radiometer Experiment. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50

#	ARTICLE	IF	CITATIONS
37	Analysis of lunar pyroclastic deposit FeO abundances by LRO Diviner. Journal of Geophysical Research, 2012, 117, .	3.3	29
38	Lunar equatorial surface temperatures and regolith properties from the Diviner Lunar Radiometer Experiment. Journal of Geophysical Research, 2012, 117, .	3.3	229
39	Laboratory emissivity measurements of the plagioclase solid solution series under varying environmental conditions. Journal of Geophysical Research, 2012, 117, .	3.3	50
40	Non-mare silicic volcanism on the lunar farside at Comptonâ€™Belkovich. Nature Geoscience, 2011, 4, 566-571.	12.9	114
41	The Lunar Reconnaissance Orbiter Diviner Lunar Radiometer Experiment. Space Science Reviews, 2010, 150, 125-160.	8.1	309
42	Global Silicate Mineralogy of the Moon from the Diviner Lunar Radiometer. Science, 2010, 329, 1507-1509.	12.6	154
43	Highly Silicic Compositions on the Moon. Science, 2010, 329, 1510-1513.	12.6	175
44	Diviner Lunar Radiometer Observations of the LCROSS Impact. Science, 2010, 330, 477-479.	12.6	68
45	Diviner Lunar Radiometer Observations of Cold Traps in the Moonâ€™s South Polar Region. Science, 2010, 330, 479-482.	12.6	385