

# Neil Bowles

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/191302/publications.pdf>

Version: 2024-02-01

31  
papers

2,279  
citations

516710

16  
h-index

454955

30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diviner Lunar Radiometer Observations of Cold Traps in the Moon's South Polar Region. <i>Science</i> , 2010, 330, 479-482.	12.6	385
2	The Lunar Reconnaissance Orbiter Diviner Lunar Radiometer Experiment. <i>Space Science Reviews</i> , 2010, 150, 125-160.	8.1	309
3	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	12.9	274
4	Evidence for widespread hydrated minerals on asteroid (101955) Bennu. <i>Nature Astronomy</i> , 2019, 3, 332-340.	10.1	251
5	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019, 215, 12.	8.1	238
6	Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. <i>Nature Astronomy</i> , 2019, 3, 341-351.	10.1	188
7	Global Silicate Mineralogy of the Moon from the Diviner Lunar Radiometer. <i>Science</i> , 2010, 329, 1507-1509.	12.6	154
8	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
9	Laboratory emissivity measurements of the plagioclase solid solution series under varying environmental conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
10	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
11	Spectral characterization of analog samples in anticipation of OSIRIS-REx's arrival at Bennu: A blind test study. <i>Icarus</i> , 2019, 319, 701-723.	2.5	38
12	Linking mineralogy and spectroscopy of highly aqueously altered <sc>CM</sc> and <sc>CI</sc> carbonaceous chondrites in preparation for primitive asteroid sample return. <i>Meteoritics and Planetary Science</i> , 2020, 55, 77-101.	1.6	37
13	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
14	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
15	Seismic Coupling of Short-Period Wind Noise Through Mars' Regolith for NASA's InSight Lander. <i>Space Science Reviews</i> , 2017, 211, 485-500.	8.1	20
16	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
17	The Oxford 3D thermophysical model with application to PROSPECT/Luna 27 study landing sites. <i>Planetary and Space Science</i> , 2020, 182, 104790.	1.7	16
18	CHASER: An Innovative Satellite Mission Concept to Measure the Effects of Aerosols on Clouds and Climate. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 685-694.	3.3	15

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19	Modeling the Angular Dependence of Emissivity of Randomly Rough Surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 585-601.	3.6	15
20	A Spectral Investigation of Aqueously and Thermally Altered CM, CM $\beta$ , and CY Chondrites Under Simulated Asteroid Conditions for Comparison With OSIRIS-REx and Hayabusa2 Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006827.	3.6	15
21	Analysis of gaseous ammonia (NH <sub>3</sub> ) absorption in the visible spectrum of Jupiter. <i>Icarus</i> , 2018, 302, 426-436.	2.5	11
22	Analysis of gaseous ammonia (NH <sub>3</sub> ) absorption in the visible spectrum of Jupiter - Update. <i>Icarus</i> , 2019, 321, 572-582.	2.5	11
23	The Oxford space environment goniometer: A new experimental setup for making directional emissivity measurements under a simulated space environment. <i>Review of Scientific Instruments</i> , 2017, 88, 124502.	1.3	10
24	Spectral Characterization of Bennu Analogs Using PASCAL: A New Experimental Setup for Simulating the Near-Surface Conditions of Airless Bodies. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006624.	3.6	10
25	Dual-telescope multi-channel thermal-infrared radiometer for outer planet fly-by missions. <i>Acta Astronautica</i> , 2016, 128, 628-639.	3.2	7
26	Tracing the earliest stages of hydrothermal alteration on the CM chondrite parent body. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1708-1728.	1.6	6
27	Small bodies science with the Twinkle space telescope. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	3
28	The Long wave (11–16 $\mu$ m) spectrograph for the EChO M3 Mission Candidate study. <i>Experimental Astronomy</i> , 2015, 40, 801-811.	3.7	2
29	Updates to the Oxford Space Environment Goniometer to measure visible wavelength bidirectional reflectance distribution functions in ambient conditions. <i>Review of Scientific Instruments</i> , 2021, 92, 034504.	1.3	2
30	Linear Modeling of Spectra of Fine Particulate Materials: Implications for Compositional Analyses of Primitive Asteroids. <i>Earth and Space Science</i> , 2022, 9, .	2.6	1
31	From spectra to atmospheres: solving the underconstrained retrieval problem for exoplanets. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 275-276.	0.0	0