

# Adrian J Brown

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,322  
citations

279798

23  
h-index

501196

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2084  
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 188, 106347.	2.9	40
2	Mars 2020 Mission Overview. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	239
3	Requirements for Portable Instrument Suites during Human Scientific Exploration of Mars. <i>Astrobiology</i> , 2019, 19, 401-425.	3.0	21
4	On the icy edge at Louth and Korolev craters. <i>Icarus</i> , 2018, 308, 15-26.	2.5	11
5	The NASA Mars 2020 Rover Mission and the Search for Extraterrestrial Life. , 2018, , 275-308.		95
6	Cladistical Analysis of the Jovian and Saturnian Satellite Systems. <i>Astrophysical Journal</i> , 2018, 859, 97.	4.5	11
7	Martian north polar cap summer water cycle. <i>Icarus</i> , 2016, 277, 401-415.	2.5	29
8	The case for a modern multiwavelength, polarization-sensitive LIDAR in orbit around Mars. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 153, 131-143.	2.3	69
9	Laboratory reflectance spectra of clay minerals mixed with Mars analog materials: Toward enabling quantitative clay abundances from Mars spectra. <i>Icarus</i> , 2015, 258, 454-466.	2.5	15
10	Transient bright "halos" on the South Polar Residual Cap of Mars: Implications for mass-balance. <i>Icarus</i> , 2015, 251, 211-225.	2.5	26
11	Equivalence relations and symmetries for laboratory, LIDAR, and planetary Mueller matrix scattering geometries. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 2789.	1.5	67
12	Spectral properties of Ca-sulfates: Gypsum, bassanite, and anhydrite. <i>American Mineralogist</i> , 2014, 99, 2105-2115.	1.9	122
13	Interannual observations and quantification of summertime H <sub>2</sub> O ice deposition on the Martian CO <sub>2</sub> ice south polar cap. <i>Earth and Planetary Science Letters</i> , 2014, 406, 102-109.	4.4	24
14	Spectral bluing induced by small particles under the Mie and Rayleigh regimes. <i>Icarus</i> , 2014, 239, 85-95.	2.5	60
15	Coordinated spectral and XRD analyses of magnesite-nontronite-forsterite mixtures and implications for carbonates on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 635-650.	3.6	31
16	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) north polar springtime recession mapping: First 3 Mars years of observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	39
17	Symmetry relations revealed in Mueller matrix hemispherical maps. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 644-651.	2.3	43
18	Carbonate rocks in the Mojave Desert as an analogue for Martian carbonates. <i>International Journal of Astrobiology</i> , 2011, 10, 349-358.	1.6	29

#	ARTICLE	IF	CITATIONS
19	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) south polar mapping: First Mars year of observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
20	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
21	An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. <i>Planetary and Space Science</i> , 2009, 57, 809-815.	1.7	166
22	Mineralogy of Juventae Chasma: Sulfates in the light-toned mounds, mafic minerals in the bedrock, and hydrated silica and hydroxylated ferric sulfate on the plateau. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	156
23	Louth crater: Evolution of a layered water ice mound. <i>Icarus</i> , 2008, 196, 433-445.	2.5	38
24	The 2005 MARTE Robotic Drilling Experiment in R�o Tinto, Spain: Objectives, Approach, and Results of a Simulated Mission to Search for Life in the Martian Subsurface. <i>Astrobiology</i> , 2008, 8, 921-945.	3.0	52
25	The MARTE VNIR Imaging Spectrometer Experiment: Design and Analysis. <i>Astrobiology</i> , 2008, 8, 1001-1011.	3.0	70
26	Orbital Identification of Carbonate-Bearing Rocks on Mars. <i>Science</i> , 2008, 322, 1828-1832.	12.6	560
27	Visible-Near Infrared Point Spectrometry of Drill Core Samples from R�o Tinto, Spain: Results from the 2005 Mars Astrobiology Research and Technology Experiment (MARTE) Drilling Exercise. <i>Astrobiology</i> , 2008, 8, 1049-1060.	3.0	9
28	Hydrothermal alteration at the Panorama Formation, North Pole Dome, Pilbara Craton, Western Australia. <i>Precambrian Research</i> , 2006, 151, 211-223.	2.7	33
29	MR PRISM: a spectral analysis tool for the PRISM. , 2006, , .		4
30	Short-Wave Infrared Reflectance Investigation of Sites of Paleobiological Interest: Applications for Mars Exploration. <i>Astrobiology</i> , 2004, 4, 359-376.	3.0	36