Adrian J Brown

List of Publications by Year
in descending order

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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	Orbital Identification of Carbonate-Bearing Rocks on Mars. Science, 2008, 322, 1828-1832.	12.6	560
2	Mars 2020 Mission Overview. Space Science Reviews, 2020, 216, 1.	8.1	239
3	Hydrothermal formation of Clay-Carbonate alteration assemblages in the Nili Fossae region of Mars. Earth and Planetary Science Letters, 2010, 297, 174-182.	4.4	169
4	An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. Planetary and Space Science, 2009, 57, 809-815.	1.7	166
5	Mineralogy of Juventae Chasma: Sulfates in the lightâ€toned mounds, mafic minerals in the bedrock, and hydrated silica and hydroxylated ferric sulfate on the plateau. Journal of Geophysical Research, 2009, 114, .	3.3	156
6	Spectral properties of Ca-sulfates: Gypsum, bassanite, and anhydrite. American Mineralogist, 2014, 99, 2105-2115.	1.9	122
7	The NASA Mars 2020 Rover Mission and the Search for Extraterrestrial Life. , 2018, , 275-308.		95
8	The MARTE VNIR Imaging Spectrometer Experiment: Design and Analysis. Astrobiology, 2008, 8, 1001-1011.	3.0	70
9	The case for a modern multiwavelength, polarization-sensitive LIDAR in orbit around Mars. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 153, 131-143.	2.3	69
10	Equivalence relations and symmetries for laboratory, LIDAR, and planetary MÃ¼eller matrix scattering geometries. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2789.	1.5	67
11	Spectral bluing induced by small particles under the Mie and Rayleigh regimes. Icarus, 2014, 239, 85-95.	2.5	60
12	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) south polar mapping: First Mars year of observations. Journal of Geophysical Research, 2010, 115, .	3.3	58
13	The 2005 MARTE Robotic Drilling Experiment in RÃo Tinto, Spain: Objectives, Approach, and Results of a Simulated Mission to Search for Life in the Martian Subsurface. Astrobiology, 2008, 8, 921-945.	3.0	52
14	Symmetry relations revealed in Mueller matrix hemispherical maps. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 644-651.	2.3	43
15	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 188, 106347.	2.9	40
16	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) north polar springtime recession mapping: First 3 Mars years of observations. Journal of Geophysical Research, 2012, 117, .	3.3	39
17	Louth crater: Evolution of a layered water ice mound. Icarus, 2008, 196, 433-445.	2.5	38
18	Short-Wave Infrared Reflectance Investigation of Sites of Paleobiological Interest: Applications for Mars Exploration. Astrobiology, 2004, 4, 359-376.	3.0	36

#	Article	IF	Citations
19	Hydrothermal alteration at the Panorama Formation, North Pole Dome, Pilbara Craton, Western Australia. Precambrian Research, 2006, 151, 211-223.	2.7	33
20	Coordinated spectral and XRD analyses of magnesiteâ€montroniteâ€forsterite mixtures and implications for carbonates on Mars. Journal of Geophysical Research E: Planets, 2013, 118, 635-650.	3.6	31
21	Carbonate rocks in the Mojave Desert as an analogue for Martian carbonates. International Journal of Astrobiology, 2011, 10, 349-358.	1.6	29
22	Martian north polar cap summer water cycle. Icarus, 2016, 277, 401-415.	2.5	29
23	Transient bright â€œhalosâ€•on the South Polar Residual Cap of Mars: Implications for mass-balance. Icarus, 2015, 251, 211-225.	2.5	26
24	Interannual observations and quantification of summertime H2O ice deposition on the Martian CO2 ice south polar cap. Earth and Planetary Science Letters, 2014, 406, 102-109.	4.4	24
25	Requirements for Portable Instrument Suites during Human Scientific Exploration of Mars. Astrobiology, 2019, 19, 401-425.	3.0	21
26	Laboratory reflectance spectra of clay minerals mixed with Mars analog materials: Toward enabling quantitative clay abundances from Mars spectra. Icarus, 2015, 258, 454-466.	2.5	15
27	On the icy edge at Louth and Korolev craters. Icarus, 2018, 308, 15-26.	2.5	11
28	Cladistical Analysis of the Jovian and Saturnian Satellite Systems. Astrophysical Journal, 2018, 859, 97.	4.5	11
29	Visibleâ€“Near Infrared Point Spectrometry of Drill Core Samples from RÃo Tinto, Spain: Results from the 2005 Mars Astrobiology Research and Technology Experiment (MARTE) Drilling Exercise. Astrobiology, 2008, 8, 1049-1060.	3.0	9
30	MR PRISM: a spectral analysis tool for the PRISM. , 2006, , .		4