

Michelle E Minitti

List of Publications by Year in descending order

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28
papers

4,239
citations

304743

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501196

28
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29
all docs

29
docs citations

29
times ranked

2670
citing authors

#	ARTICLE	IF	CITATIONS
1	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	12.6	508
2	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. <i>Science</i> , 2015, 350, aac7575.	12.6	471
3	Volatile, Isotope, and Organic Analysis of Martian Finest with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
4	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	12.6	327
5	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
6	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
7	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	12.6	280
8	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
9	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
10	Curiosity's Mars Hand Lens Imager (MAHLI) Investigation. <i>Space Science Reviews</i> , 2012, 170, 259-317.	8.1	185
11	The Petrochemistry of Jake_M: A Martian Mugarite. <i>Science</i> , 2013, 341, 1239463.	12.6	134
12	The Mars Science Laboratory (MSL) Mast cameras and Descent imager: Investigation and instrument descriptions. <i>Earth and Space Science</i> , 2017, 4, 506-539.	2.6	117
13	Geochemical diversity in first rocks examined by the Curiosity Rover in Gale Crater: Evidence for and significance of an alkali and volatile-rich igneous source. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 64-81.	3.6	113
14	A global Mars dust composition refined by the Alpha-Particle X-ray Spectrometer in Gale Crater. <i>Geophysical Research Letters</i> , 2016, 43, 67-75.	4.0	95
15	Chemistry, mineralogy, and grain properties at Namib and High dunes, Bagnold dune field, Gale crater, Mars: A synthesis of Curiosity rover observations. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2510-2543.	3.6	95
16	Perseverance's Scanning Habitable Environments with Raman and Luminescence for Organics and Chemicals (SHERLOC) Investigation. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	94
17	MAHLI at the Rocknest sand shadow: Science and science-enabling activities. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2338-2360.	3.6	67
18	Shaler: <i>in situ</i> analysis of a fluvial sedimentary deposit on Mars. <i>Sedimentology</i> , 2018, 65, 96-122.	3.1	59

#	ARTICLE	IF	CITATIONS
19	The Bagnold Dunes in Southern Summer: Active Sediment Transport on Mars Observed by the Curiosity Rover. <i>Geophysical Research Letters</i> , 2018, 45, 8853-8863.	4.0	50
20	Encounters with an unearthy mudstone: Understanding the first mudstone found on Mars. <i>Sedimentology</i> , 2017, 64, 311-358.	3.1	48
21	Deconvolution of distinct lithology chemistry through oversampling with the Mars Science Laboratory Alpha Particle X-ray Spectrometer. <i>X-Ray Spectrometry</i> , 2016, 45, 155-161.	1.4	44
22	Modeling and mitigation of sample relief effects applied to chemistry measurements by the Mars Science Laboratory Alpha Particle X-ray Spectrometer. <i>X-Ray Spectrometry</i> , 2017, 46, 229-236.	1.4	28
23	Distribution of primary and secondary features in the Pahrump Hills outcrop (Gale crater, Mars) as seen in a Mars Descent Imager (MARDI) "sidewalk" mosaic. <i>Icarus</i> , 2019, 328, 194-209.	2.5	19
24	Engraved on the rocks" Aeolian abrasion of Martian mudstone exposures and their relationship to modern wind patterns in Gale Crater, Mars. <i>Depositional Record</i> , 2020, 6, 625-647.	1.7	9
25	Diurnal Variability in Aeolian Sediment Transport at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	9
26	Is a Linear or a Walkabout Protocol More Efficient When Using a Rover to Choose Biologically Relevant Samples in a Small Region of Interest?. <i>Astrobiology</i> , 2020, 20, 327-348.	3.0	5
27	A rover's geologic field campaign: Exploration of the Kimberley by Curiosity. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 680-684.	3.6	3
28	Curiosity Rover Mars Hand Lens Imager (MAHLI) Views of the Sediments and Sedimentary Rocks of Gale Crater, Mars. <i>Microscopy and Microanalysis</i> , 2017, 23, 2142-2143.	0.4	1