

Marie E Schmidt

List of Publications by Year in descending order

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47
papers

6,232
citations

117453

34
h-index

214527

47
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49
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49
docs citations

49
times ranked

3381
citing authors

#	ARTICLE	IF	CITATIONS
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	6.0	687
2	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	6.0	508
3	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	6.0	367
4	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	6.0	327
5	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	6.0	326
6	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	6.0	323
7	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	6.0	280
8	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	6.0	246
9	Mössbauer mineralogy of rock, soil, and dust at Meridiani Planum, Mars: Opportunity's journey across sulfate-rich outcrop, basaltic sand and dust, and hematite lag deposits. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	225
10	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	6.0	215
11	Redox stratification of an ancient lake in Gale crater, Mars. <i>Science</i> , 2017, 356, .	6.0	209
12	Pyroclastic Activity at Home Plate in Gusev Crater, Mars. <i>Science</i> , 2007, 316, 738-742.	6.0	174
13	Geochemical properties of rocks and soils in Gusev Crater, Mars: Results of the Alpha Particle X-ray Spectrometer from Cumberland Ridge to Home Plate. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	162
14	Iron mineralogy and aqueous alteration from Husband Hill through Home Plate at Gusev Crater, Mars: Results from the Mössbauer instrument on the Spirit Mars Exploration Rover. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	162
15	Mineralogy, provenance, and diagenesis of a potassic basaltic sandstone on Mars: ChemMin X-ray diffraction of the Windjana sample (Kimberley area, Gale Crater). <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 75-106.	1.5	159
16	Alkaline volcanic rocks from the Columbia Hills, Gusev crater, Mars. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	148
17	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	6.0	134
18	Hydrothermal processes at Gusev Crater: An evaluation of Paso Robles class soils. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	129

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19	Igneous mineralogy at Bradbury Rise: The first ChemCam campaign at Gale crater. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 30-46.	1.5	114
20	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.	1.5	113
21	Overview of the Mars Science Laboratory mission: Bradbury Landing to Yellowknife Bay and beyond. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1134-1161.	1.5	104
22	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.	1.5	95
23	Segmentation of the Cascade Arc as indicated by Sr and Nd isotopic variation among diverse primitive basalts. <i>Earth and Planetary Science Letters</i> , 2008, 266, 166-181.	1.8	94
24	Structure and stratigraphy of Home Plate from the Spirit Mars Exploration Rover. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	81
25	High manganese concentrations in rocks at Gale crater, Mars. <i>Geophysical Research Letters</i> , 2014, 41, 5755-5763.	1.5	81
26	Hydrothermal origin of halogens at Home Plate, Gusev Crater. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	71
27	MAHLI at the Rocknest sand shadow: Science and science-enabling activities. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2338-2360.	1.5	67
28	APXS-derived chemistry of the Bagnold dune sands: Comparisons with Gale Crater soils and the global Martian average. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2623-2643.	1.5	62
29	Chemical variations in Yellowknife Bay formation sedimentary rocks analyzed by ChemCam on board the Curiosity rover on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 452-482.	1.5	51
30	Potassium-rich sandstones within the Gale impact crater, Mars: The APXS perspective. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1981-2003.	1.5	51
31	Understanding the signature of rock coatings in laser-induced breakdown spectroscopy data. <i>Icarus</i> , 2015, 249, 62-73.	1.1	49
32	Chemistry and texture of the rocks at Rocknest, Gale Crater: Evidence for sedimentary origin and diagenetic alteration. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2109-2131.	1.5	48
33	Structure, stratigraphy, and origin of Husband Hill, Columbia Hills, Gusev Crater, Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
34	Zinc and germanium in the sedimentary rocks of Gale Crater on Mars indicate hydrothermal enrichment followed by diagenetic fractionation. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1747-1772.	1.5	42
35	Elemental Composition and Chemical Evolution of Geologic Materials in Gale Crater, Mars: APXS Results From Bradbury Landing to the Vera Rubin Ridge. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006536.	1.5	33
36	The evolution of North Sister: A volcano shaped by extension and ice in the central Oregon Cascade Arc. <i>Bulletin of the Geological Society of America</i> , 2009, 121, 643-662.	1.6	32

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37	APXSâ€Derived Compositional Characteristics of Vera Rubin Ridge and Murray Formation, Gale Crater, Mars: Geochemical Implications for the Origin of the Ridge. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006319.	1.5	31
38	The Medusae Fossae Formation as the single largest source of dust on Mars. <i>Nature Communications</i> , 2018, 9, 2867.	5.8	29
39	Deep Mafic Roots to Arc Volcanoes: Mafic Recharge and Differentiation of Basaltic Andesite at North Sister Volcano, Oregon Cascades. <i>Journal of Petrology</i> , 2011, 52, 603-641.	1.1	28
40	The primary fO ₂ of basalts examined by the Spirit rover in Gusev Crater, Mars: Evidence for multiple redox states in the martian interior. <i>Earth and Planetary Science Letters</i> , 2013, 384, 198-208.	1.8	28
41	The evolution of a heterogeneous Martian mantle: Clues from K, P, Ti, Cr, and Ni variations in Gusev basalts and shergottite meteorites. <i>Earth and Planetary Science Letters</i> , 2010, 296, 67-77.	1.8	27
42	Dusty Rocks in Gale Crater: Assessing Areal Coverage and Separating Dust and Rock Contributions in APXS Analyses. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1649-1673.	1.5	25
43	Formation of Tridymite and Evidence for a Hydrothermal History at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006569.	1.5	21
44	Re and Os isotopes of the central Oregon Cascades and along the arc indicate variable homogenization and mafic growth in the deep crust. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 345-364.	1.6	10
45	Particle Induced X-ray Emission spectrometry (PIXE) of Hawaiian volcanics: An analogue study to evaluate the APXS field analysis of geologic materials on Mars. <i>Icarus</i> , 2020, 345, 113708.	1.1	9
46	Multiphase Volatilization of Halogens at the Soilâ€Atmosphere Interface on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006929.	1.5	7
47	Megacrystic pyroxene basalts sample deep crustal gabbroic cumulates beneath the Mount Taylor volcanic field, New Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 316, 1-11.	0.8	4