

Amy C Mcadam

List of Publications by Year in descending order

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64
papers

7,761
citations

109321

35
h-index

114465

63
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64
all docs

64
docs citations

64
times ranked

4350
citing authors

#	ARTICLE	IF	CITATIONS
1	The Curiosity Rover's Exploration of Glen Torridon, Gale Crater, Mars: An Overview of the Campaign and Scientific Results. <i>Journal of Geophysical Research E: Planets</i> , 2023, 128, .	3.6	27
2	X-Ray Amorphous Sulfur-Bearing Phases in Sedimentary Rocks of Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	10
3	Oxidized and Reduced Sulfur Observed by the Sample Analysis at Mars (SAM) Instrument Suite on the Curiosity Rover Within the Glen Torridon Region at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	6
4	Evolved Gas Analyses of Sedimentary Rocks From the Glen Torridon Clay-Bearing Unit, Gale Crater, Mars: Results From the Mars Science Laboratory Sample Analysis at Mars Instrument Suite. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	12
5	Organic carbon concentrations in 3.5-billion-year-old lacustrine mudstones of Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	14
6	Fatty Acid Preservation in Modern and Relict Hot-Spring Deposits in Iceland, with Implications for Organics Detection on Mars. <i>Astrobiology</i> , 2021, 21, 60-82.	3.0	8
7	Formation of Tridymite and Evidence for a Hydrothermal History at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006569.	3.6	21
8	A Review of Sample Analysis at Mars-Evolved Gas Analysis Laboratory Analog Work Supporting the Presence of Perchlorates and Chlorates in Gale Crater, Mars. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 475.	2.0	14
9	Pyrolysis of Oxalate, Acetate, and Perchlorate Mixtures and the Implications for Organic Salts on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006803.	3.6	20
10	Brine-driven destruction of clay minerals in Gale crater, Mars. <i>Science</i> , 2021, 373, 198-204.	12.6	52
11	A Review of the Phyllosilicates in Gale Crater as Detected by the CheMin Instrument on the Mars Science Laboratory, Curiosity Rover. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 847.	2.0	23
12	Early diagenesis at and below Vera Rubin ridge, Gale crater, Mars. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1905-1932.	1.6	7
13	High-Temperature HCl Evolutions From Mixtures of Perchlorates and Chlorides With Water-Bearing Phases: Implications for the SAM Instrument in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006173.	3.6	6
14	Accuracies and detection limits of major, minor, and trace element quantification in rocks by portable laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 171, 105946.	2.9	20
15	Constraints on the Mineralogy and Geochemistry of Vera Rubin Ridge, Gale Crater, Mars, From Mars Science Laboratory Sample Analysis at Mars Evolved Gas Analyses. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006309.	3.6	32
16	Mineralogy of Vera Rubin Ridge From the Mars Science Laboratory CheMin Instrument. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006306.	3.6	86
17	Detection of Reduced Sulfur on Vera Rubin Ridge by Quadratic Discriminant Analysis of Volatiles Observed During Evolved Gas Analysis. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006304.	3.6	25
18	Evidence for Multiple Diagenetic Episodes in Ancient Fluvial-Lacustrine Sedimentary Rocks in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006295.	3.6	45

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19	Lipid Biomarkers in Ephemeral Acid Salt Lake Mudflat/Sandflat Sediments: Implications for Mars. <i>Astrobiology</i> , 2020, 20, 167-178.	3.0	11
20	Indigenous and exogenous organics and surface-atmosphere cycling inferred from carbon and oxygen isotopes at Gale crater. <i>Nature Astronomy</i> , 2020, 4, 526-532.	10.1	41
21	Benzoic Acid as the Preferred Precursor for the Chlorobenzene Detected on Mars: Insights from the Unique Cumberland Analog Investigation. <i>Planetary Science Journal</i> , 2020, 1, 41.	3.6	12
22	Solubility of CO ₂ in Sodium Silicate Melts. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 2113-2120.	2.7	1
23	Recovery of Fatty Acids from Mineralogic Mars Analogs by TMAH Thermochemolysis for the Sample Analysis at Mars Wet Chemistry Experiment on the Curiosity Rover. <i>Astrobiology</i> , 2019, 19, 522-546.	3.0	33
24	Volatile Detections in Gale Crater Sediment and Sedimentary Rock. , 2019, , 369-392.		3
25	Abiotic Input of Fixed Nitrogen by Bolide Impacts to Gale Crater During the Hesperian: Insights From the Mars Science Laboratory. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 94-113.	3.6	23
26	Visible, near-infrared, and mid-infrared spectral characterization of Hawaiian fumarolic alteration near Kilauea's December 1974 flow: Implications for spectral discrimination of alteration environments on Mars. <i>American Mineralogist</i> , 2018, 103, 11-25.	1.9	7
27	A novel study on the influence of cork waste residue on metakaolin-zeolite based geopolymers. <i>Applied Clay Science</i> , 2018, 152, 196-210.	5.2	38
28	The Incorporation of Field Portable Instrumentation Into Human Planetary Surface Exploration. <i>Earth and Space Science</i> , 2018, 5, 697-720.	2.6	6
29	Major Volatiles Evolved From Eolian Materials in Gale Crater. <i>Geophysical Research Letters</i> , 2018, 45, 10,240.	4.0	19
30	Sand Mineralogy Within the Bagnold Dunes, Gale Crater, as Observed In Situ and From Orbit. <i>Geophysical Research Letters</i> , 2018, 45, 9488-9497.	4.0	52
31	Clay mineral diversity and abundance in sedimentary rocks of Gale crater, Mars. <i>Science Advances</i> , 2018, 4, eaar3330.	10.3	150
32	Organic matter preserved in 3-billion-year-old mudstones at Gale crater, Mars. <i>Science</i> , 2018, 360, 1096-1101.	12.6	369
33	Large sulfur isotope fractionations in Martian sediments at Gale crater. <i>Nature Geoscience</i> , 2017, 10, 658-662.	12.9	53
34	Evolved gas analyses of sedimentary rocks and eolian sediment in Gale Crater, Mars: Results of the Curiosity rover's sample analysis at Mars instrument from Yellowknife Bay to the Namib Dune. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2574-2609.	3.6	168
35	The Characterization of Biosignatures in Caves Using an Instrument Suite. <i>Astrobiology</i> , 2017, 17, 1203-1218.	3.0	11
36	A Two-Step K-Ar Experiment on Mars: Dating the Diagenetic Formation of Jarosite from Amazonian Groundwaters. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2803-2818.	3.6	72

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37	Mineralogy, provenance, and diagenesis of a potassic basaltic sandstone on Mars: CheMin X-ray diffraction of the Windjana sample (Kimberley area, Gale Crater). <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 75-106.	3.6	159
38	Fluids during diagenesis and sulfate vein formation in sediments at Gale crater, Mars. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2175-2202.	1.6	50
39	Magnesium sulfate as a key mineral for the detection of organic molecules on Mars using pyrolysis. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 61-74.	3.6	31
40	Organic molecules in the Sheepbed Mudstone, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 495-514.	3.6	375
41	The origin and implications of clay minerals from Yellowknife Bay, Gale crater, Mars. <i>American Mineralogist</i> , 2015, 100, 824-836.	1.9	122
42	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the <i>Curiosity</i> rover investigations at Gale crater, Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4245-4250.	7.1	172
43	The imprint of atmospheric evolution in the D/H of Hesperian clay minerals on Mars. <i>Science</i> , 2015, 347, 412-414.	12.6	113
44	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
45	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
46	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	12.6	508
47	Mars TM Surface Radiation Environment Measured with the Mars Science Laboratory TM 's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	12.6	475
48	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	12.6	224
49	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
50	Sulfur-bearing phases detected by evolved gas analysis of the Rocknest aeolian deposit, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 373-393.	3.6	65
51	Abundances and implications of volatile-bearing species from evolved gas analysis of the Rocknest aeolian deposit, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 237-254.	3.6	73
52	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	12.6	327
53	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	12.6	280
54	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	12.6	327

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55	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
56	Isotopic and geochemical investigation of two distinct Mars analog environments using evolved gas techniques in Svalbard, Norway. <i>Icarus</i> , 2013, 224, 297-308.	2.5	9
57	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
58	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	12.6	134
59	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
60	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	12.6	103
61	The Sample Analysis at Mars Investigation and Instrument Suite. <i>Space Science Reviews</i> , 2012, 170, 401-478.	8.1	435
62	The influence of mineralogy on recovering organic acids from Mars analogue materials using the acetone-potassium derivatization experiment on the Sample Analysis at Mars (SAM) instrument suite. <i>Planetary and Space Science</i> , 2012, 67, 1-13.	1.7	49
63	Preferential low-pH dissolution of pyroxene in plagioclase-pyroxene mixtures: Implications for martian surface materials. <i>Icarus</i> , 2008, 196, 90-96.	2.5	28
64	Formation of silica by low-temperature acid alteration of Martian rocks: Physical-chemical constraints. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	41