

Elisabeth M Hausrath

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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citations

840119

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all docs

21
docs citations

21
times ranked

803
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosignature Preservation and Detection in Mars Analog Environments. <i>Astrobiology</i> , 2017, 17, 363-400.	1.5	159
2	Basalt weathering rates on Earth and the duration of liquid water on the plains of Gusev Crater, Mars. <i>Geology</i> , 2008, 36, 67.	2.0	106
3	Reactive transport and mass balance modeling of the Stimson sedimentary formation and altered fracture zones constrain diagenetic conditions at Gale crater, Mars. <i>Earth and Planetary Science Letters</i> , 2018, 491, 1-10.	1.8	27
4	Assimilatory and dissimilatory processes of microorganisms affecting metals in the environment. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 867.	1.6	26
5	Forsterite dissolution rates in Mg sulfate-rich Mars analog brines and implications of the aqueous history of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 388-400.	1.5	26
6	Biogeochemical weathering of serpentinites: An examination of incipient dissolution affecting serpentine soil formation. <i>Applied Geochemistry</i> , 2015, 54, 74-84.	1.4	23
7	Assessing hydrodynamic effects on jarosite dissolution rates, reaction products, and preservation on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 625-642.	1.5	20
8	Clay mineral formation under oxidized conditions and implications for paleoenvironments and organic preservation on Mars. <i>Nature Communications</i> , 2017, 8, 1230.	5.8	17
9	Natural Fumarolic Alteration of Fluorapatite, Olivine, and Basaltic Glass, and Implications for Habitable Environments on Mars. <i>Astrobiology</i> , 2013, 13, 1049-1064.	1.5	13
10	Using the chemical composition of carbonate rocks on Mars as a record of secondary interaction with liquid water. <i>American Mineralogist</i> , 2013, 98, 897-906.	0.9	13
11	Weathering Profiles in Phosphorus-Rich Rocks at Gusev Crater, Mars, Suggest Dissolution of Phosphate Minerals into Potentially Habitable Near-Neutral Waters. <i>Astrobiology</i> , 2015, 15, 1060-1075.	1.5	12
12	Aqueous alteration of pyroxene in sulfate, chloride, and perchlorate brines: Implications for post-Noachian aqueous alteration on Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 257, 336-353.	1.6	9
13	DISSOLUTION RATES OF ALLOPHANE WITH VARIABLE Fe CONTENTS: IMPLICATIONS FOR AQUEOUS ALTERATION AND THE PRESERVATION OF X-RAY AMORPHOUS MATERIALS ON MARS. <i>Clays and Clay Minerals</i> , 2021, 69, 263-288.	0.6	9
14	Investigating the Growth of Algae Under Low Atmospheric Pressures for Potential Food and Oxygen Production on Mars. <i>Frontiers in Microbiology</i> , 2021, 12, 733244.	1.5	9
15	Dissolution rates of amorphous Al- and Fe-phosphates and their relevance to phosphate mobility on Mars. <i>American Mineralogist</i> , 2014, 99, 1206-1215.	0.9	7
16	Snow Algae Preferentially Grow on Fe-containing Minerals and Contribute to the Formation of Fe Phases. <i>Geomicrobiology Journal</i> , 2020, 37, 572-581.	1.0	7
17	Modeling background radiation using geochemical data: A case study in and around Cameron, Arizona. <i>Journal of Environmental Radioactivity</i> , 2016, 165, 68-85.	0.9	6
18	Effects of Organic Compounds on Dissolution of the Phosphate Minerals Chlorapatite, Whitlockite, Merrillite, and Fluorapatite: Implications for Interpreting Past Signatures of Organic Compounds in Rocks, Soils and Sediments. <i>Astrobiology</i> , 2018, 18, 1543-1558.	1.5	3

#	ARTICLE	IF	CITATIONS
19	Modeling background radiation in Southern Nevada. Journal of Environmental Radioactivity, 2017, 171, 41-64.	0.9	2
20	Modeling gamma radiation exposure rates using geologic and remote sensing data to locate radiogenic anomalies. Journal of Environmental Radioactivity, 2019, 208-209, 106038.	0.9	2
21	Reactive Transport Modeling of Aqueous Alteration in the Murray Formation, Gale Crater, Mars. ACS Earth and Space Chemistry, 2021, 5, 424-435.	1.2	2