Elisabeth M Hausrath

List of Publications by Year
in descending order

21	498	840119 11	713013 21
papers	citations	h-index	g-index

21	21	21	803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	DISSOLUTION RATES OF ALLOPHANE WITH VARIABLE Fe CONTENTS: IMPLICATIONS FOR AQUEOUS ALTERATION AND THE PRESERVATION OF X-RAY AMORPHOUS MATERIALS ON MARS. Clays and Clay Minerals, 2021, 69, 263-288.	0.6	9
3	Investigating the Growth of Algae Under Low Atmospheric Pressures for Potential Food and Oxygen Production on Mars. Frontiers in Microbiology, 2021, 12, 733244.	1.5	9
4	Snow Algae Preferentially Grow on Fe-containing Minerals and Contribute to the Formation of Fe Phases. Geomicrobiology Journal, 2020, 37, 572-581.	1.0	7
5	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
6	Aqueous alteration of pyroxene in sulfate, chloride, and perchlorate brines: Implications for post-Noachian aqueous alteration on Mars. Geochimica Et Cosmochimica Acta, 2019, 257, 336-353.	1.6	9
7	Reactive transport and mass balance modeling of the Stimson sedimentary formation and altered fracture zones constrain diagenetic conditions at Gale crater, Mars. Earth and Planetary Science Letters, 2018, 491, 1-10.	1.8	27
8	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. Astrobiology, 2018, 18, 1543-1558.	1.5	3
9	Modeling background radiation in Southern Nevada. Journal of Environmental Radioactivity, 2017, 171, 41-64.	0.9	2
10	Biosignature Preservation and Detection in Mars Analog Environments. Astrobiology, 2017, 17, 363-400.	1.5	159
11	Clay mineral formation under oxidized conditions and implications for paleoenvironments and organic preservation on Mars. Nature Communications, 2017, 8, 1230.	5.8	17
12	Modeling background radiation using geochemical data: A case study in and around Cameron, Arizona. Journal of Environmental Radioactivity, 2016, 165, 68-85.	0.9	6
13	Assessing hydrodynamic effects on jarosite dissolution rates, reaction products, and preservation on Mars. Journal of Geophysical Research E: Planets, 2015, 120, 625-642.	1.5	20
14	Forsterite dissolution rates in Mgâ€sulfateâ€rich Marsâ€analog brines and implications of the aqueous history of Mars. Journal of Geophysical Research E: Planets, 2015, 120, 388-400.	1.5	26
15	Biogeochemical weathering of serpentinites: An examination of incipient dissolution affecting serpentine soil formation. Applied Geochemistry, 2015, 54, 74-84.	1.4	23
16	Weathering Profiles in Phosphorus-Rich Rocks at Gusev Crater, Mars, Suggest Dissolution of Phosphate Minerals into Potentially Habitable Near-Neutral Waters. Astrobiology, 2015, 15, 1060-1075.	1.5	12
17	Dissolution rates of amorphous Al- and Fe-phosphates and their relevance to phosphate mobility on Mars. American Mineralogist, 2014, 99, 1206-1215.	0.9	7
18	Natural Fumarolic Alteration of Fluorapatite, Olivine, and Basaltic Glass, and Implications for Habitable Environments on Mars. Astrobiology, 2013, 13, 1049-1064.	1.5	13

#	Article	IF	Citations
19	Using the chemical composition of carbonate rocks on Mars as a record of secondary interaction with liquid water. American Mineralogist, 2013, 98, 897-906.	0.9	13
20	Basalt weathering rates on Earth and the duration of liquid water on the plains of Gusev Crater, Mars. Geology, 2008, 36, 67.	2.0	106
21	Assimilatory and dissimilatory processes of microorganisms affecting metals in the environment. Journal of Analytical Atomic Spectrometry, 2007, 22, 867.	1.6	26