Hilairy Ellen Hartnett

List of Publications by Year
in descending order

35	1,291	394421 19	395702 33
papers	citations	h-index	g-index

37	37	37	1780
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantifying the extent of amide and peptide bond synthesis across conditions relevant to geologic and planetary environments. Geochimica Et Cosmochimica Acta, 2021, 300, 318-332.	3.9	11
2	Hydrothermal Experiments with Protonated Benzylamines Provide Predictions of Temperature-Dependent Deamination Rates for Geochemical Modeling. ACS Earth and Space Chemistry, 2021, 5, 1997-2012.	2.7	4
3	Hydrothermal One-Electron Oxidation of Carboxylic Acids in the Presence of Iron Oxide Minerals. ACS Earth and Space Chemistry, 2021, 5, 2715-2728.	2.7	4
4	A novel PARAFAC model for continental hot springs reveals unique dissolved organic carbon compositions. Organic Geochemistry, 2020, 141, 103964.	1.8	9
5	Mechanisms of decarboxylation of phenylacetic acids and their sodium salts in water at high temperature and pressure. Geochimica Et Cosmochimica Acta, 2020, 269, 597-621.	3.9	20
6	Metastable equilibrium of substitution reactions among oxygen- and nitrogen-bearing organic compounds at hydrothermal conditions. Geochimica Et Cosmochimica Acta, 2020, 272, 93-104.	3.9	7
7	Kinetics and Mechanisms of Hydrothermal Ketonic Decarboxylation. ACS Earth and Space Chemistry, 2020, 4, 2082-2095.	2.7	6
8	A Novel Method for Carbonate Quantification in Atmospheric Particulate Matter. Atmosphere, 2020, 11, 661.	2.3	0
9	Detectability of Life Using Oxygen on Pelagic Planets and Water Worlds. Astrophysical Journal, 2020, 893, 163.	4.5	22
10	A Geologically Robust Procedure for Observing Rocky Exoplanets to Ensure that Detection of Atmospheric Oxygen Is a Modern Earth-like Biosignature. Astrophysical Journal Letters, 2020, 898, L17.	8.3	5
11	The Influence of Stellar Phosphorus on Our Understanding of Exoplanets and Astrobiology. Astrophysical Journal Letters, 2020, 900, L38.	8.3	15
12	Selective hydrothermal reductions using geomimicry. Green Chemistry, 2019, 21, 4159-4168.	9.0	11
13	Earth as Organic Chemist. , 2019, , 415-446.		5
14	Bulk gold catalyzes hydride transfer in the Cannizzaro and related reactions. New Journal of Chemistry, 2019, 43, 19137-19148.	2.8	2
15	Effects of sterilization techniques on chemodenitrification and N₂O production in tropical peat soil microcosms. Biogeosciences, 2019, 16, 4601-4612.	3.3	19
16	Deamination reaction mechanisms of protonated amines under hydrothermal conditions. Geochimica Et Cosmochimica Acta, 2019, 244, 113-128.	3.9	24
17	Production of Carboxylic Acids from Aldehydes under Hydrothermal Conditions: A Kinetics Study of Benzaldehyde. ACS Earth and Space Chemistry, 2019, 3, 170-191.	2.7	18
18	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. Astrobiology, 2018, 18, 663-708.	3.0	328

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19	Effects of iron-containing minerals on hydrothermal reactions of ketones. Geochimica Et Cosmochimica Acta, 2018, 223, 107-126.	3.9	21
20	Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. Biogeosciences, 2018, 15, 4815-4832.	3.3	24
21	Kinetics and Mechanisms of Dehydration of Secondary Alcohols Under Hydrothermal Conditions. ACS Earth and Space Chemistry, 2018, 2, 821-832.	2.7	36
22	Arctic ice management. Earth's Future, 2017, 5, 107-127.	6.3	28
23	Mineral-assisted production of benzene under hydrothermal conditions: Insights from experimental studies on C 6 cyclic hydrocarbons. Journal of Volcanology and Geothermal Research, 2017, 346, 21-27.	2.1	14
24	Distribution of ether lipids and composition of the archaeal community in terrestrial geothermal springs: impact of environmental variables. Environmental Microbiology, 2015, 17, 1600-1614.	3.8	29
25	Organic Oxidations Using Geomimicry. Journal of Organic Chemistry, 2015, 80, 12159-12165.	3.2	21
26	Sphalerite is a geochemical catalyst for carbonâ˜hydrogen bond activation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11642-11645.	7.1	27
27	Harsh Environment Sensor Array-Enabled Hot Spring Mapping. IEEE Sensors Journal, 2014, 14, 3418-3425.	4.7	3
28	Hydrothermal Photochemistry as a Mechanistic Tool in Organic Geochemistry: The Chemistry of Dibenzyl Ketone. Journal of Organic Chemistry, 2014, 79, 7861-7871.	3.2	19
29	Composition and flux of explosive gas release at LUSI mud volcano (<scp>E</scp>ast <scp>J</scp>ava,) Tj ETQq1 1 0.784314 rgBT /Ov	2.5	28
30	Organic functional group transformations in water at elevated temperature and pressure: Reversibility, reactivity, and mechanisms. Geochimica Et Cosmochimica Acta, 2013, 104, 194-209.	3.9	42
31	A Comprehensive Census of Microbial Diversity in Hot Springs of Tengchong, Yunnan Province China Using 16S rRNA Gene Pyrosequencing. PLoS ONE, 2013, 8, e53350.	2.5	216
32	The central role of ketones in reversible and irreversible hydrothermal organic functional group transformations. Geochimica Et Cosmochimica Acta, 2012, 98, 48-65.	3.9	38
33	Korarchaeota Diversity, Biogeography, and Abundance in Yellowstone and Great Basin Hot Springs and Ecological Niche Modeling Based on Machine Learning. PLoS ONE, 2012, 7, e35964.	2.5	43
34	Artificial [FeFe]â€Hydrogenase: On Resin Modification of an Amino Acid to Anchor a Hexacarbonyldiiron Cluster in a Peptide Framework. European Journal of Inorganic Chemistry, 2011, 2011, 1050-1055.	2.0	40
35	Role of a strong oxygen-deficient zone in the preservation and degradation of organic matter: a carbon budget for the continental margins of northwest Mexico and Washington State. Geochimica Et Cosmochimica Acta, 2003, 67, 247-264.	3.9	149