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	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. Astrobiology, 2018, 18, 663-708.	3.0	328
2	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
3	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
4	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
5	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
6	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
7	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
8	Kinetics and Mechanisms of Dehydration of Secondary Alcohols Under Hydrothermal Conditions. ACS Earth and Space Chemistry, 2018, 2, 821-832.	2.7	36
9	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
10	Composition and flux of explosive gas release at LUSI mud volcano (<scp>E</scp>ast <scp>J</scp>ava,) Tj ETQq0 0 0 rgBT /Overlock 10	2.5	28
11	Arctic ice management. Earth's Future, 2017, 5, 107-127.	6.3	28
12	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
13	Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. Biogeosciences, 2018, 15, 4815-4832.	3.3	24
14	Deamination reaction mechanisms of protonated amines under hydrothermal conditions. Geochimica Et Cosmochimica Acta, 2019, 244, 113-128.	3.9	24
15	Detectability of Life Using Oxygen on Pelagic Planets and Water Worlds. Astrophysical Journal, 2020, 893, 163.	4.5	22
16	Organic Oxidations Using Geomimicry. Journal of Organic Chemistry, 2015, 80, 12159-12165.	3.2	21
17	Effects of iron-containing minerals on hydrothermal reactions of ketones. Geochimica Et Cosmochimica Acta, 2018, 223, 107-126.	3.9	21
18	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

#	Article	IF	Citations
19	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
20	Effects of sterilization techniques on chemodenitrification and N₂O production in tropical peat soil microcosms. Biogeosciences, 2019, 16, 4601-4612.	3.3	19
21	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
22	The Influence of Stellar Phosphorus on Our Understanding of Exoplanets and Astrobiology. Astrophysical Journal Letters, 2020, 900, L38.	8.3	15
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	Selective hydrothermal reductions using geomimicry. Green Chemistry, 2019, 21, 4159-4168.	9.0	11
25	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
26	A novel PARAFAC model for continental hot springs reveals unique dissolved organic carbon compositions. Organic Geochemistry, 2020, 141, 103964.	1.8	9
27	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
28	Kinetics and Mechanisms of Hydrothermal Ketonic Decarboxylation. ACS Earth and Space Chemistry, 2020, 4, 2082-2095.	2.7	6
29	Earth as Organic Chemist. , 2019, , 415-446.		5
30	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
31	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
32	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
33	Harsh Environment Sensor Array-Enabled Hot Spring Mapping. IEEE Sensors Journal, 2014, 14, 3418-3425.	4.7	3
34	Bulk gold catalyzes hydride transfer in the Cannizzaro and related reactions. New Journal of Chemistry, 2019, 43, 19137-19148.	2.8	2
35	A Novel Method for Carbonate Quantification in Atmospheric Particulate Matter. Atmosphere, 2020, 11, 661.	2.3	0