

Gretchen FrÃ¼h-Green

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7349992/publications.pdf>

Version: 2024-02-01

37
papers

5,575
citations

236925

25
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

3415
citing authors

#	ARTICLE	IF	CITATIONS
1	A Serpentinite-Hosted Ecosystem: The Lost City Hydrothermal Field. <i>Science</i> , 2005, 307, 1428-1434.	12.6	1,037
2	An off-axis hydrothermal vent field near the Mid-Atlantic Ridge at 30° N. <i>Nature</i> , 2001, 412, 145-149.	27.8	997
3	Abiogenic Hydrocarbon Production at Lost City Hydrothermal Field. <i>Science</i> , 2008, 319, 604-607.	12.6	707
4	30,000 Years of Hydrothermal Activity at the Lost City Vent Field. <i>Science</i> , 2003, 301, 495-498.	12.6	361
5	Mass transfer and fluid flow during detachment faulting and development of an oceanic core complex, Atlantis Massif (MAR 30°N). <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	213
6	Formation and evolution of carbonate chimneys at the Lost City Hydrothermal Field. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3625-3645.	3.9	207
7	The role of serpentinites in cycling of carbon and sulfur: Seafloor serpentinization and subduction metamorphism. <i>Lithos</i> , 2013, 178, 40-54.	1.4	193
8	Geology of the Atlantis Massif (Mid-Atlantic Ridge, 30°N): Implications for the evolution of an ultramafic oceanic core complex. <i>Marine Geophysical Researches</i> , 2002, 23, 443-469.	1.2	185
9	Isotopic and element exchange during serpentinization and metasomatism at the Atlantis Massif (MAR) Tj ETQq1 1,0784314 rgBT /O	3.9	168
10	Detachment shear zone of the Atlantis Massif core complex, Mid-Atlantic Ridge, 30°N. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	147
11	Serpentinization of oceanic peridotites: Implications for geochemical cycles and biological activity. <i>Geophysical Monograph Series</i> , 2004, , 119-136.	0.1	137
12	Abiogenic methane in deep-seated mid-ocean ridge environments: Insights from stable isotope analyses. <i>Journal of Geophysical Research</i> , 1999, 104, 10439-10460.	3.3	126
13	Carbon geochemistry of serpentinites in the Lost City Hydrothermal System (30°N, MAR). <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3681-3702.	3.9	122
14	Microbial utilization of abiogenic carbon and hydrogen in a serpentinite-hosted system. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 82-99.	3.9	105
15	Serpentinization and carbon sequestration: A study of two ancient peridotite-hosted hydrothermal systems. <i>Chemical Geology</i> , 2013, 351, 115-133.	3.3	96
16	Metagenomic identification of active methanogens and methanotrophs in serpentinite springs of the Voltri Massif, Italy. <i>PeerJ</i> , 2017, 5, e2945.	2.0	91
17	Deeply-sourced formate fuels sulfate reducers but not methanogens at Lost City hydrothermal field. <i>Scientific Reports</i> , 2018, 8, 755.	3.3	81
18	Sr- and Nd-isotope geochemistry of the Atlantis Massif (30°N, MAR): Implications for fluid fluxes and lithospheric heterogeneity. <i>Chemical Geology</i> , 2008, 254, 19-35.	3.3	80

#	ARTICLE	IF	CITATIONS
19	Volatile lines of descent in submarine plutonic environments: insights from stable isotope and fluid inclusion analyses. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3325-3346.	3.9	77
20	Sulfur in peridotites and gabbros at Lost City (30°N, MAR): Implications for hydrothermal alteration and microbial activity during serpentinization. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5090-5110.	3.9	66
21	Magmatism, serpentinization and life: Insights through drilling the Atlantis Massif (IODP Expedition) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	1.4	58
22	Sources of organic nitrogen at the serpentinite-hosted <i>hosted <sc>L</sc>ost <sc>C</sc>ity</i> hydrothermal field. <i>Geobiology</i> , 2013, 11, 154-169.	2.4	48
23	Uptake of carbon and sulfur during seafloor serpentinization and the effects of subduction metamorphism in Ligurian peridotites. <i>Chemical Geology</i> , 2012, 322-323, 268-277.	3.3	45
24	Sources and cycling of carbon in continental, serpentinite-hosted alkaline springs in the Voltri Massif, Italy. <i>Lithos</i> , 2013, 177, 226-244.	1.4	35
25	Alteration Heterogeneities in Peridotites Exhumed on the Southern Wall of the Atlantis Massif (IODP) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	2.8	85
26	Record of archaeal activity at the serpentinite-hosted <i>hosted <sc>L</sc>ost <sc>C</sc>ity</i> <i><sc>H</sc>ydrothermal <sc>F</sc>ield</i> . <i>Geobiology</i> , 2013, 11, 570-592.	2.4	27
27	In-situ oxygen isotope analyses in serpentine minerals: Constraints on serpentinization during tectonic exhumation at slow- and ultraslow-spreading ridges. <i>Lithos</i> , 2018, 323, 156-173.	1.4	25
28	Antigorite crystallization during oceanic retrograde serpentinization of abyssal peridotites. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	18
29	Contamination tracer testing with seabed drills: IODP Expedition 357. <i>Scientific Drilling</i> , 0, 23, 39-46.	0.6	17
30	Microbial Residents of the Atlantis Massif's Shallow Serpentine Subsurface. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	13
31	Carbon Geochemistry of the Active Serpentinization Site at the Wadi Tayin Massif: Insights From the ICDP Oman Drilling Project: Phase II. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022712.	3.4	13
32	Distribution and Sources of Carbon in Serpentinized Mantle Peridotites at the Atlantis Massif (IODP) <i>Tj ETQq0 0 0 rgBT /Overlock 10 TF 5</i>	3.4	12
33	Tracking Water-Rock Interaction at the Atlantis Massif (MAR, 30°N) Using Sulfur Geochemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4561-4583.	2.5	11
34	Activities of ²²³ Ra and ²²⁶ Ra in Fluids From the Lost City Hydrothermal Field Require Short Fluid Residence Times. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017886.	2.6	9
35	Extensive decentralized hydrogen export from the Atlantis Massif. <i>Geology</i> , 2021, 49, 851-856.	4.4	5
36	Carbonate Mineralogy in Mantle Peridotites of the Atlantis Massif (IODP Expedition 357). <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021885.	3.4	5

#	ARTICLE	IF	CITATIONS
37	Radiocarbon content of carbon dioxide and methane in hydrothermal fluids of Okinawa Trough vents. <i>Geochemical Journal</i> , 2020, 54, 129-138.	1.0	4