Gretchen FrÃ¼h-Green

List of Publications by Year
in descending order

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	Extensive decentralized hydrogen export from the Atlantis Massif. Geology, 2021, 49, 851-856.	4.4	5
2	Distribution and Sources of Carbon in Serpentinized Mantle Peridotites at the Atlantis Massif (IODP) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.4	12
3	Carbonate Mineralogy in Mantle Peridotites of the Atlantis Massif (IODP Expedition 357). Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021885.	3.4	5
4	Activities of ²²³Ra and ²²⁶Ra in Fluids From the Lost City Hydrothermal Field Require Short Fluid Residence Times. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017886.	2.6	9
5	Carbon Geochemistry of the Active Serpentinization Site at the Wadi Tayin Massif: Insights From the ICDP Oman Drilling Project: Phase II. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022712.	3.4	13
6	Microbial Residents of the Atlantis Massifâ€™s Shallow Serpentinite Subsurface. Applied and Environmental Microbiology, 2020, 86, .	3.1	13
7	Radiocarbon content of carbon dioxide and methane in hydrothermal fluids of Okinawa Trough vents. Geochemical Journal, 2020, 54, 129-138.	1.0	4
8	Antigorite crystallization during oceanic retrograde serpentinization of abyssal peridotites. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	18
9	Deeply-sourced formate fuels sulfate reducers but not methanogens at Lost City hydrothermal field. Scientific Reports, 2018, 8, 755.	3.3	81
10	In-situ oxygen isotope analyses in serpentine minerals: Constraints on serpentinization during tectonic exhumation at slow- and ultraslow-spreading ridges. Lithos, 2018, 323, 156-173.	1.4	25
11	Tracking Waterâ€Rock Interaction at the Atlantis Massif (MAR, 30Â°N) Using Sulfur Geochemistry. Geochemistry, Geophysics, Geosystems, 2018, 19, 4561-4583.	2.5	11
12	Magmatism, serpentinization and life: Insights through drilling the Atlantis Massif (IODP Expedition) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.4	58
13	Alteration Heterogeneities in Peridotites Exhumed on the Southern Wall of the Atlantis Massif (IODP) Tj ETQq1 1 0.784314 rgBT /Ove	2.8	35
14	Metagenomic identification of active methanogens and methanotrophs in serpentinite springs of the Voltri Massif, Italy. PeerJ, 2017, 5, e2945.	2.0	91
15	The role of serpentinites in cycling of carbon and sulfur: Seafloor serpentinization and subduction metamorphism. Lithos, 2013, 178, 40-54.	1.4	193
16	Sources of organic nitrogen at the serpentiniteâ€hosted <scp>L</scp>ost <scp>C</scp>ity hydrothermal field. Geobiology, 2013, 11, 154-169.	2.4	48
17	Record of archaeal activity at the serpentiniteâ€hosted <scp>L</scp>ost <scp>C</scp>ity <scp>H</scp>ydrothermal <scp>F</scp>ield. Geobiology, 2013, 11, 570-592.	2.4	27
18	Serpentinization and carbon sequestration: A study of two ancient peridotite-hosted hydrothermal systems. Chemical Geology, 2013, 351, 115-133.	3.3	96

#	Article	IF	Citations
19	Sources and cycling of carbon in continental, serpentinite-hosted alkaline springs in the Voltri Massif, Italy. Lithos, 2013, 177, 226-244.	1.4	35
20	Uptake of carbon and sulfur during seafloor serpentinization and the effects of subduction metamorphism in Ligurian peridotites. Chemical Geology, 2012, 322-323, 268-277.	3.3	45
21	Microbial utilization of abiogenic carbon and hydrogen in a serpentinite-hosted system. Geochimica Et Cosmochimica Acta, 2012, 92, 82-99.	3.9	105
22	Abiogenic Hydrocarbon Production at Lost City Hydrothermal Field. Science, 2008, 319, 604-607.	12.6	707
23	Isotopic and element exchange during serpentinization and metasomatism at the Atlantis Massif (MAR) Tj ETQq1 1 0.784314 rgBT /O	3.9	168
24	Sulfur in peridotites and gabbros at Lost City (30Â°N, MAR): Implications for hydrothermal alteration and microbial activity during serpentinization. Geochimica Et Cosmochimica Acta, 2008, 72, 5090-5110.	3.9	66
25	Sr- and Nd-isotope geochemistry of the Atlantis Massif (30Â°N, MAR): Implications for fluid fluxes and lithospheric heterogeneity. Chemical Geology, 2008, 254, 19-35.	3.3	80
26	Carbon geochemistry of serpentinites in the Lost City Hydrothermal System (30Â°N, MAR). Geochimica Et Cosmochimica Acta, 2008, 72, 3681-3702.	3.9	122
27	Mass transfer and fluid flow during detachment faulting and development of an oceanic core complex, Atlantis Massif (MAR 30Â°N). Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	213
28	Detachment shear zone of the Atlantis Massif core complex, Mid-Atlantic Ridge, 30Â°N. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	147
29	Formation and evolution of carbonate chimneys at the Lost City Hydrothermal Field. Geochimica Et Cosmochimica Acta, 2006, 70, 3625-3645.	3.9	207
30	A Serpentinite-Hosted Ecosystem: The Lost City Hydrothermal Field. Science, 2005, 307, 1428-1434.	12.6	1,037
31	Serpentinization of oceanic peridotites: Implications for geochemical cycles and biological activity. Geophysical Monograph Series, 2004, , 119-136.	0.1	137
32	30,000 Years of Hydrothermal Activity at the Lost City Vent Field. Science, 2003, 301, 495-498.	12.6	361
33	Geology of the Atlantis Massif (Mid-Atlantic Ridge, 30Â°â€‰N): Implications for the evolution of an ultramafic oceanic core complex. Marine Geophysical Researches, 2002, 23, 443-469.	1.2	185
34	Volatile lines of descent in submarine plutonic environments: insights from stable isotope and fluid inclusion analyses. Geochimica Et Cosmochimica Acta, 2001, 65, 3325-3346.	3.9	77
35	An off-axis hydrothermal vent field near the Mid-Atlantic Ridge at 30Â° N. Nature, 2001, 412, 145-149.	27.8	997
36	Abiogenic methane in deep-seated mid-ocean ridge environments: Insights from stable isotope analyses. Journal of Geophysical Research, 1999, 104, 10439-10460.	3.3	126

#	Article	IF	Citations
37	Contamination tracer testing with seabed drills: IODP Expedition 357. Scientific Drilling, 0, 23, 39-46.	0.6	17