Muriel Andreani

List of Publications by Year
in descending order

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56 papers	5,036 citations	136740 32 h-index	155451 55 g-index
56 all docs	56 docs citations	56 times ranked	5224 citing authors

#	Article	IF	Citations
1	Mineralogy, geochemistry and occurrences of fougerite in a modern hydrothermal system and its implications for the origin of life. Earth-Science Reviews, 2022, 225, 103910.	4.0	11
2	Fluid Circulation Along an Oceanic Detachment Fault: Insights From Fluid Inclusions in Silicified Brecciated Fault Rocks (Midâ€Atlantic Ridge at 13Â°20â€²N). Geochemistry, Geophysics, Geosystems, 2021, 22, .	1.0	5
3	Dataset for H₂, CH₄ and organic compounds formation during experimental serpentinization. Geoscience Data Journal, 2021, 8, 90-100.	1.8	4
4	Deformation-enhanced diagenesis and bacterial proliferation in the Nankai accretionary prism. Solid Earth, 2021, 12, 2067-2085.	1.2	1
5	Deep oceanic submarine fieldwork with undergraduate students: an immersive experience with the Minerve software. Solid Earth, 2021, 12, 2789-2802.	1.2	5
6	A Review of H2, CH4, and Hydrocarbon Formation in Experimental Serpentinization Using Network Analysis. Frontiers in Earth Science, 2020, 8, .	0.8	24
7	Pulsated Global Hydrogen and Methane Flux at Midâ€Ocean Ridges Driven by Pangea Breakup. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008869.	1.0	15
8	New Perspectives on Abiotic Organic Synthesis and Processing during Hydrothermal Alteration of the Oceanic Lithosphere. , 2019, , 447-479.		15
9	Antigorite crystallization during oceanic retrograde serpentinization of abyssal peridotites. Contributions To Mineralogy and Petrology, 2019, 174, 1.	1.2	18
10	Multi-scale characterization of the incipient carbonation of peridotite. Chemical Geology, 2018, 476, 150-160.	1.4	29
11	Abiotic synthesis of amino acids in the recesses of the oceanic lithosphere. Nature, 2018, 564, 59-63.	13.7	170
12	Ore component mobility, transport and mineralization at mid-oceanic ridges: A stable isotopes (Zn, Cu) Tj ETQq0 0 0 rgBT /Overlock 10 T 2018, 503, 170-180.	1.8	29
13	Tectonic structure, evolution, and the nature of oceanic core complexes and their detachment fault zones (13Â°20â€²N and 13Â°30â€²N, Mid Atlantic Ridge). Geochemistry, Geophysics, Geosystems, 2017, 18, 1451-1482.	1.0	94
14	Pervasive silicification and hanging wall overplating along the 13Â°20â€²N oceanic detachment fault (<scp>M</scp>idâ€<scp>A</scp>tlantic <scp>R</scp>idge). Geochemistry, Geophysics, Geosystems, 2017, 18, 2028-2053.	1.0	21
15	Assessing sulfur redox state and distribution in abyssal serpentinites using XANES spectroscopy. Earth and Planetary Science Letters, 2017, 466, 1-11.	1.8	36
16	Oceanographic Signatures and Pressure Monitoring of Seafloor Vertical Deformation in Near-coastal, Shallow Water Areas: A Case Study from Santorini Caldera. Marine Geodesy, 2016, 39, 401-421.	0.9	5
17	Magnetic signatures of serpentinization at ophiolite complexes. Geochemistry, Geophysics, Geosystems, 2016, 17, 2969-2986.	1.0	44
18	Contrasted effect of aluminum on the serpentinization rate of olivine and orthopyroxene under hydrothermal conditions. Chemical Geology, 2016, 441, 256-264.	1.4	18

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19	First direct observation of coseismic slip and seafloor rupture along a submarine normal fault and implications for fault slip history. Earth and Planetary Science Letters, 2016, 450, 96-107.	1.8	21
20	The Kallisti Limnes, carbon dioxide-accumulating subsea pools. Scientific Reports, 2015, 5, 12152.	1.6	18
21	Carbonate mineralization in percolated olivine aggregates: Linking effects of crystallographic orientation and fluid flow. American Mineralogist, 2015, 100, 474-482.	0.9	30
22	CO2 geological storage in olivine rich basaltic aquifers: New insights from reactive-percolation experiments. Applied Geochemistry, 2015, 52, 174-190.	1.4	39
23	Deep alteration between Hellas and Isidis Basins. Icarus, 2015, 260, 141-160.	1.1	27
24	Serpentinization and Fluid Pathways in Tectonically Exhumed Peridotites from the Southwest Indian Ridge (62-65ÂE). Journal of Petrology, 2015, 56, 703-734.	1.1	70
25	Redox state of iron during high-pressure serpentinite dehydration. Contributions To Mineralogy and Petrology, 2015, 169, 1.	1.2	76
26	Evolution of Fe redox state in serpentine during subduction. Earth and Planetary Science Letters, 2014, 400, 206-218.	1.8	89
27	F, Cl and S input via serpentinite in subduction zones: implications for the nature of the fluid released at depth. Terra Nova, 2014, 26, 96-101.	0.9	67
28	Tectonic structure, lithology, and hydrothermal signature of the Rainbow massif (Mid-Atlantic Ridge) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.0	69
29	Î¼XANES study of iron redox state in serpentine during oceanic serpentinization. Lithos, 2013, 178, 70-83.	0.6	133
30	Deformation associated to exhumation of serpentinized mantle rocks in a fossil Ocean Continent Transition: The Totalp unit in SE Switzerland. Lithos, 2013, 175-176, 255-271.	0.6	23
31	Incipient hydration of mantle lithosphere at ridges: A reactive-percolation experiment. Earth and Planetary Science Letters, 2013, 371-372, 92-102.	1.8	50
32	Trace element behavior during serpentinization/de-serpentinization of an eclogitized oceanic lithosphere: A LA-ICPMS study of the Lanzo ultramafic massif (Western Alps). Chemical Geology, 2013, 357, 117-133.	1.4	59
33	Three steps of serpentinization in an eclogitized oceanic serpentinization front (Lanzo Massif â€“) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	76
34	Continuous exhumation of mantle-derived rocks at the Southwest Indian Ridge for 11 million years. Nature Geoscience, 2013, 6, 314-320.	5.4	224
35	Aluminum speeds up the hydrothermal alteration of olivine. American Mineralogist, 2013, 98, 1738-1744.	0.9	60
36	Experimental Perspectives of Mineral Dissolution and Precipitation due to Carbon Dioxide-Water-Rock Interactions. Reviews in Mineralogy and Geochemistry, 2013, 77, 153-188.	2.2	84

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37	CO2 percolation experiment through chlorite/zeolite-rich sandstone (Pretty Hill Formation â€“ Otway) Tj ETQq1 1 0.784314 rgBT /Overl	1.4	97
38	Behavior of fluid-mobile elements in serpentines from abyssal to subduction environments: Examples from Cuba and Dominican Republic. Chemical Geology, 2012, 312-313, 93-117.	1.4	94
39	On the role of phyllosilicates on fault lubrication: Insight from microâ€•and nanostructural investigations on talc friction experiments. Journal of Geophysical Research, 2012, 117, .	3.3	20
40	Drilling constraints on lithospheric accretion and evolution at Atlantis Massif, Mid-Atlantic Ridge 30Â°N. Journal of Geophysical Research, 2011, 116, .	3.3	112
41	Serpentinites act as sponges for fluidâ€mobile elements in abyssal and subduction zone environments. Terra Nova, 2011, 23, 171-178.	0.9	125
42	Atomic modelling of crystal/complex fluid/crystal contactsâ€”Part II. Simulating AFM tests via the GenMol code for investigating the impact of CO2 storage on kaolinite/brine/kaolinite adhesion. Journal of Crystal Growth, 2010, 312, 3308-3315.	0.7	8
43	In situ characterization of serpentinites from forearc mantle wedges: Timing of serpentinization and behavior of fluid-mobile elements in subduction zones. Chemical Geology, 2010, 269, 262-277.	1.4	152
44	Clay clast aggregates in gouges: New textural evidence for seismic faulting. Journal of Geophysical Research, 2010, 115, .	3.3	59
45	Experimental Study of Carbon Sequestration Reactions Controlled by the Percolation of CO₂-Rich Brine through Peridotites. Environmental Science & Technology, 2009, 43, 1226-1231.	4.6	197
46	Formation of clay minerals and exhumation of lowerâ€crustal rocks at Atlantis Massif, Midâ€Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	27
47	Occurrence, composition and growth of polyhedral serpentine. European Journal of Mineralogy, 2008, 20, 159-171.	0.4	71
48	Relationships between the microstructural evolution and the rheology of talc at elevated pressures and temperatures. Earth and Planetary Science Letters, 2008, 268, 463-475.	1.8	105
49	Changes in seal capacity of fractured claystone caprocks induced by dissolved and gaseous CO₂ seepage. Geophysical Research Letters, 2008, 35, .	1.5	72
50	Oceanic core complexes and crustal accretion at slow-spreading ridges. Geology, 2007, 35, 623.	2.0	302
51	Onion morphology and microstructure of polyhedral serpentine. American Mineralogist, 2007, 92, 687-690.	0.9	25
52	Dynamic control on serpentine crystallization in veins: Constraints on hydration processes in oceanic peridotites. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	187
53	Development of schistosity by dissolutionâ€“crystallization in a Californian serpentinite gouge. Journal of Structural Geology, 2005, 27, 2256-2267.	1.0	49
54	Crack-seal patterns: records of uncorrelated stress release variations in crustal rocks. Geological Society Special Publication, 2005, 243, 67-79.	0.8	25

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55	A microstructural study of a "crack-seal" type serpentine vein using SEM and TEM techniques. European Journal of Mineralogy, 2004, 16, 585-595.	0.4	57
56	A Bacterial Method for the Nitrogen Isotopic Analysis of Nitrate in Seawater and Freshwater. Analytical Chemistry, 2001, 73, 4145-4153.	3.2	1,493