

Catherine Mevel

List of Publications by Year in descending order

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47
papers

3,459
citations

136740

32
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223531

46
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48
all docs

48
docs citations

48
times ranked

2482
citing authors

#	ARTICLE	IF	CITATIONS
1	Serpentinization of abyssal peridotites at mid-ocean ridges. <i>Comptes Rendus - Geoscience</i> , 2003, 335, 825-852.	0.4	363
2	Thin crust, ultramafic exposures, and rugged faulting patterns at the Mid-Atlantic Ridge (22°–24°N). <i>Geology</i> , 1995, 23, 49.	2.0	324
3	Constraints on deformation conditions and the origin of oceanic detachments: The Mid-Atlantic Ridge core complex at 15°45'N. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	234
4	Dynamic control on serpentine crystallization in veins: Constraints on hydration processes in oceanic peridotites. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	187
5	Tectonic setting and mineralogical and geochemical zonation in the Snake Pit sulfide deposit (Mid-Atlantic Ridge at 23 degrees N). <i>Economic Geology</i> , 1993, 88, 2018-2036.	1.8	172
6	Hydrothermal activity along the southwest Indian ridge. <i>Nature</i> , 1998, 395, 490-493.	13.7	146
7	Emplacement of deep crustal and mantle rocks on the west median valley wall of the MARK area (MAR.) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	0.9	128
8	Characteristics and evolution of the segmentation of the Mid-Atlantic Ridge between 20°N and 24°N during the last 10 million years. <i>Earth and Planetary Science Letters</i> , 1995, 129, 55-71.	1.8	125
9	Direct observation of a section through slow-spreading oceanic crust. <i>Nature</i> , 1989, 337, 726-729.	13.7	124
10	Helium and methane measurements in hydrothermal fluids from the mid-Atlantic ridge: The Snake Pit site at 23°N. <i>Earth and Planetary Science Letters</i> , 1991, 106, 17-28.	1.8	109
11	Isotopic portrayal of the Earth's upper mantle flow field. <i>Nature</i> , 2007, 447, 1069-1074.	13.7	104
12	A discontinuity in mantle composition beneath the southwest Indian ridge. <i>Nature</i> , 2003, 421, 731-733.	13.7	98
13	Chlorine isotopic composition in seafloor serpentinites and high-pressure metaperidotites. Insights into oceanic serpentinization and subduction processes. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 126-139.	1.6	97
14	Tectonic structure, evolution, and the nature of oceanic core complexes and their detachment fault zones (13°20'N and 13°30'N, Mid Atlantic Ridge). <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1451-1482.	1.0	94
15	Zircon Dating of Oceanic Crustal Accretion. <i>Science</i> , 2009, 323, 1048-1050.	6.0	88
16	Amphibolite facies conditions in the oceanic crust: example of amphibolitized faser-gabbro and amphibolites from the Chenaillet ophiolite massif (Hautes Alpes, France). <i>Earth and Planetary Science Letters</i> , 1978, 39, 98-108.	1.8	73
17	Additional 40Ar-39Ar dating of the basement and the alkaline volcanism of Gorringer Bank (Atlantic) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	1.8	73
18	FUJI Dome: A large detachment fault near 64°E on the very slow-spreading southwest Indian Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	60

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19	Amphibolitized sheared gabbros from ophiolites as indicators of the evolution of the oceanic crust: Bay of Islands, Newfoundland. <i>Earth and Planetary Science Letters</i> , 1982, 61, 151-165.	1.8	59
20	Metamorphism in oceanic layer 3, Gorringe Bank, eastern Atlantic. <i>Contributions To Mineralogy and Petrology</i> , 1988, 100, 496-509.	1.2	56
21	An example of a recent accretion on the Mid-Atlantic Ridge: the Snake Pit neovolcanic ridge (MARK) Tj ETQq1 1 0.784314 rgBT /Overl 0.9	0.9	51
22	Metasomatic hydrous fluids in amphibole peridotites from Zabargad Island (Red Sea). <i>Earth and Planetary Science Letters</i> , 1993, 120, 187-205.	1.8	48
23	Evolution of oceanic gabbros from DSDP Leg 82: influence of the fluid phase on metamorphic crystallizations. <i>Earth and Planetary Science Letters</i> , 1987, 83, 67-79.	1.8	44
24	Magnetic signatures of serpentinization at ophiolite complexes. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 2969-2986.	1.0	44
25	The geodynamic evolution of the South-Tethyan, margin in Zanskar, NW-Himalaya, as revealed by the Spongtang ophiolitic melanges. <i>Geodinamica Acta</i> , 1987, 1, 283-296.	2.2	44
26	Stretching of the deep crust at the slow-spreading Southwest Indian Ridge. <i>Tectonophysics</i> , 1991, 190, 73-94.	0.9	42
27	Clinopyroxenes in Mesozoic pillow lavas from the French Alps: influence of cooling rate on compositional trends. <i>Earth and Planetary Science Letters</i> , 1976, 32, 158-164.	1.8	41
28	Occurrence of pumpellyite in hydrothermally altered basalts from the Vema fracture zone (mid-Atlantic ridge). <i>Contributions To Mineralogy and Petrology</i> , 1981, 76, 386-393.	1.2	40
29	TOBI sidescan sonar imagery of the very slow-spreading Southwest Indian Ridge: evidence for along-axis magma distribution. <i>Earth and Planetary Science Letters</i> , 2002, 199, 81-95.	1.8	40
30	Observation of sections of oceanic crust and mantle cropping out on the southern wall of Kane FZ (N. Atlantic). <i>Terra Nova</i> , 1994, 6, 143-148.	0.9	39
31	A geological cross-section of the Vema fracture zone transverse ridge, Atlantic ocean. <i>Journal of Geodynamics</i> , 1991, 13, 97-117.	0.7	37
32	Chromian jadeite, phengite, pumpellyite, and lawsonite in a high-pressure metamorphosed gabbro from the French Alps. <i>Mineralogical Magazine</i> , 1980, 43, 979-984.	0.6	33
33	Atypically depleted upper mantle component revealed by Hf isotopes at Lucky Strike segment. <i>Chemical Geology</i> , 2013, 341, 128-139.	1.4	29
34	The gneiss of Zabargad Island: deep crust of a rift. <i>Tectonophysics</i> , 1988, 150, 209-227.	0.9	28
35	In-situ study of the eastern ridge-transform intersection of the Vema Fracture Zone. <i>Tectonophysics</i> , 1991, 190, 55-71.	0.9	22
36	Zabargad peridotite: Evidence for multistage metasomatism during Red Sea rifting. <i>Geology</i> , 1991, 19, 722.	2.0	21

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37	First direct observation of coseismic slip and seafloor rupture along a submarine normal fault and implications for fault slip history. <i>Earth and Planetary Science Letters</i> , 2016, 450, 96-107.	1.8	21
38	Pervasive silicification and hanging wall overplating along the 13°20'N oceanic detachment fault (Mid-Atlantic Ridge). <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2028-2053.	1.0	21
39	The MAR-Vema Fracture Zone intersection surveyed by deep submersible Nautilie. <i>Terra Nova</i> , 1990, 2, 68-73.	0.9	16
40	Intraoceanic tectonism on the Gorringe Bank: observations by submersible. <i>Geological Society Special Publication</i> , 1984, 13, 113-120.	0.8	15
41	Hydrothermal alteration studies of gabbros from Northern Central Indian Ridge and their geodynamic implications. <i>Journal of Earth System Science</i> , 2009, 118, 659-676.	0.6	12
42	The occurrence of deerite in highly oxidizing conditions within the schistes lustrés of eastern Corsica. <i>Journal of Metamorphic Geology</i> , 1986, 4, 385-399.	1.6	6
43	Occurrence and significance of gneissic amphibolites in the Vema fracture zone, equatorial Mid-Atlantic Ridge. <i>Geological Society Special Publication</i> , 1984, 13, 121-130.	0.8	5
44	Oceanographic Signatures and Pressure Monitoring of Seafloor Vertical Deformation in Near-coastal, Shallow Water Areas: A Case Study from Santorini Caldera. <i>Marine Geodesy</i> , 2016, 39, 401-421.	0.9	5
45	Fluid Circulation Along an Oceanic Detachment Fault: Insights From Fluid Inclusions in Silicified Brecciated Fault Rocks (Mid-Atlantic Ridge at 13°20'N). <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	1.0	5
46	Deerite in highly oxidizing conditions: a reply. <i>Journal of Metamorphic Geology</i> , 1987, 5, 557-560.	1.6	0
47	Inception and demise of a Neoproterozoic ocean basin: evidence from the Ougda complex, western Hoggar (Algeria). <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1996, 85, 619-631.	1.3	0