# Catherine Mevel

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 47 papers | 3,459 citations | 136740 32 h-index | 223531 46 g-index |
| 48 all docs | 48 docs citations | 48 times ranked | 2482 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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. | 1.9 | 94 |
| 3 | 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 |
| 4 | 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 |
| 5 | Magnetic signatures of serpentinization at ophiolite complexes. Geochemistry, Geophysics, Geosystems, 2016, 17, 2969-2986. | 1.0 | 44 |
| 6 | 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 |
| 7 | Atypically depleted upper mantle component revealed by Hf isotopes at Lucky Strike segment. Chemical Geology, 2013, 341, 128-139. | 1.4 | 29 |
| 8 | Hydrothermal alteration studies of gabbros from Northern Central Indian Ridge and their geodynamic implications. Journal of Earth System Science, 2009, 118, 659-676. | 0.6 | 12 |
| 9 | Zircon Dating of Oceanic Crustal Accretion. Science, 2009, 323, 1048-1050. | 6.0 | 88 |
| 10 | Chlorine isotopic composition in seafloor serpentinites and high-pressure metaperidotites. Insights into oceanic serpentinization and subduction processes. Geochimica Et Cosmochimica Acta, 2008, 72, 126-139. | 1.6 | 97 |
| 11 | Isotopic portrayal of the Earthâ€™s upper mantle flow field. Nature, 2007, 447, 1069-1074. | 13.7 | 104 |
| 12 | 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 |
| 13 | A discontinuity in mantle composition beneath the southwest Indian ridge. Nature, 2003, 421, 731-733. | 13.7 | 98 |
| 14 | Constraints on deformation conditions and the origin of oceanic detachments: The Mid-Atlantic Ridge core complex at 15Â°45â€²N. Geochemistry, Geophysics, Geosystems, 2003, 4, . | 1.0 | 234 |
| 15 | FUJI Dome: A large detachment fault near 64Â°E on the very slow-spreading southwest Indian Ridge. Geochemistry, Geophysics, Geosystems, 2003, 4, . | 1.0 | 60 |
| 16 | Serpentinization of abyssal peridotites at mid-ocean ridges. Comptes Rendus - Geoscience, 2003, 335, 825-852. | 0.4 | 363 |
| 17 | TOBI sidescan sonar imagery of the very slow-spreading Southwest Indian Ridge: evidence for along-axis magma distribution. Earth and Planetary Science Letters, 2002, 199, 81-95. | 1.8 | 40 |
| 18 | Hydrothermal activity along the southwest Indian ridge. Nature, 1998, 395, 490-493. | 13.7 | 146 |

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|---|---|---|---|
| 19 | Inception and demise of a Neoproterozoic ocean basin: evidence from the Ougda complex, western Hoggar (Algeria). Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1996, 85, 619-631. | 1.3 | 0 |
| 20 | Thin crust, ultramafic exposures, and rugged faulting patterns at the Mid-Atlantic Ridge (22Â°â€“24Â°N). Geology, 1995, 23, 49. | 2.0 | 324 |
| 21 | Characteristics and evolution of the segmentation of the Mid-Atlantic Ridge between 20Â°N and 24Â°N during the last 10 million years. Earth and Planetary Science Letters, 1995, 129, 55-71. | 1.8 | 125 |
| 22 | Observation of sections of oceanic crust and mantle cropping out on the southern wall of Kane FZ (N. Atlantic). Terra Nova, 1994, 6, 143-148. | 0.9 | 39 |
| 23 | Metasomatic hydrous fluids in amphibole peridotites from Zabargad Island (Red Sea). Earth and Planetary Science Letters, 1993, 120, 187-205. | 1.8 | 48 |
| 24 | Tectonic setting and mineralogical and geochemical zonation in the Snake Pit sulfide deposit (Mid-Atlantic Ridge at 23 degrees N). Economic Geology, 1993, 88, 2018-2036. | 1.8 | 172 |
| 25 | A geological cross-section of the Vema fracture zone transverse ridge, Atlantic ocean. Journal of Geodynamics, 1991, 13, 97-117. | 0.7 | 37 |
| 26 | Helium and methane measurements in hydrothermal fluids from the mid-Atlantic ridge: The Snake Pit site at 23Â°N. Earth and Planetary Science Letters, 1991, 106, 17-28. | 1.8 | 109 |
| 27 | 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 | 51 |
| 28 | Emplacement of deep crustal and mantle rocks on the west median valley wall of the MARK area (MAR,) Tj ETQq0 0 0 rgBT /Overlock 10 | 0.9 | 126 |
| 29 | In-situ study of the eastern ridge-transform intersection of the Vema Fracture Zone. Tectonophysics, 1991, 190, 55-71. | 0.9 | 22 |
| 30 | Stretching of the deep crust at the slow-spreading Southwest Indian Ridge. Tectonophysics, 1991, 190, 73-94. | 0.9 | 42 |
| 31 | Zabargad peridotite: Evidence for multistage metasomatism during Red Sea rifting. Geology, 1991, 19, 722. | 2.0 | 21 |
| 32 | The MARâ€Vema Fracture Zone intersection surveyed by deep submersible Nautile. Terra Nova, 1990, 2, 68-73. | 0.9 | 16 |
| 33 | Direct observation of a section through slow-spreading oceanic crust. Nature, 1989, 337, 726-729. | 13.7 | 124 |
| 34 | Metamorphism in oceanic layer 3, Gorringe Bank, eastern Atlantic. Contributions To Mineralogy and Petrology, 1988, 100, 496-509. | 1.2 | 56 |
| 35 | The gneiss of Zabargad Island: deep crust of a rift. Tectonophysics, 1988, 150, 209-227. | 0.9 | 28 |
| 36 | Evolution of oceanic gabbros from DSDP Leg 82: influence of the fluid phase on metamorphic crystallizations. Earth and Planetary Science Letters, 1987, 83, 67-79. | 1.8 | 44 |

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|---|---|---|---|
| 37 | Deerite in highly oxidizing conditions: a reply. Journal of Metamorphic Geology, 1987, 5, 557-560. | 1.6 | 0 |
| 38 | The geodynamic evolution of the South-Tethyan, margin in Zanskar, NW-Himalaya, as revealed by the Spongtang ophiolitic melanges. Geodinamica Acta, 1987, 1, 283-296. | 2.2 | 44 |
| 39 | Additional 40Ar-39Ar dating of the basement and the alkaline volcanism of Gorringe Bank (Atlantic) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.8 | 73 |
| 40 | The occurrence of deerite in highly oxidizing conditions within the ?schistes lustrï¿½s?of eastern Corsica. Journal of Metamorphic Geology, 1986, 4, 385-399. | 1.6 | 6 |
| 41 | Occurrence and significance of gneissic amphibolites in the Vema fracture zone, equatorial Mid-Atlantic Ridge. Geological Society Special Publication, 1984, 13, 121-130. | 0.8 | 5 |
| 42 | Intraoceanic tectonism on the Gorringe Bank: observations by submersible. Geological Society Special Publication, 1984, 13, 113-120. | 0.8 | 15 |
| 43 | Amphibolitized sheared gabbros from ophiolites as indicators of the evolution of the oceanic crust: Bay of Islands, Newfoundland. Earth and Planetary Science Letters, 1982, 61, 151-165. | 1.8 | 59 |
| 44 | Occurrence of pumpellyite in hydrothermally altered basalts from the Vema fracture zone (mid-Atlantic ridge). Contributions To Mineralogy and Petrology, 1981, 76, 386-393. | 1.2 | 40 |
| 45 | Chromian jadeite, phengite, pumpellyite, and lawsonite in a highâ€“pressure metamorphosed gabbro from the French Alps. Mineralogical Magazine, 1980, 43, 979-984. | 0.6 | 33 |
| 46 | Amphibolite facies conditions in the oceanic crust: example of amphibolitized flaser-gabbro and amphibolites from the Chenaillet ophiolite massif (Hautes Alpes, France). Earth and Planetary Science Letters, 1978, 39, 98-108. | 1.8 | 73 |
| 47 | Clinopyroxenes in Mesozoic pillow lavas from the French Alps: influence of cooling rate on compositional trends. Earth and Planetary Science Letters, 1976, 32, 158-164. | 1.8 | 41 |