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List of Publications by Year
in descending order

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82 papers	5,568 citations	87888 38 h-index	79698 73 g-index
93 all docs	93 docs citations	93 times ranked	2647 citing authors

#	Article	IF	Citations
1	Geochemistry of serpentinized and multiphase altered Atlantis Massif peridotites (IODP Expedition) Tj ETQq1 1 0.784314 rgBT /Overl 594, 120681.	3.3	9
2	Tectonic termination of oceanic detachment faults, with constraints on tectonic uplift and mass wasting related erosion rates. Earth and Planetary Science Letters, 2022, 584, 117449.	4.4	5
3	Thermal Regime of Slow and Ultraslow Spreading Ridges Controlled by Melt Supply and Modes of Emplacement. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	5
4	Effects of Substrate Composition and Subsurface Fluid Pathways on the Geochemistry of Seafloor Hydrothermal Deposits at the Lucky Strike Vent Field, Midâ€Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	3
5	Integrating Multidisciplinary Observations in Vent Environments (IMOVE): Decadal Progress in Deep-Sea Observatories at Hydrothermal Vents. Frontiers in Marine Science, 2022, 9, .	2.5	5
6	Age and Rate of Accumulation of Metalâ€Rich Hydrothermal Deposits on the Seafloor: The Lucky Strike Vent Field, Midâ€Atlantic Ridge. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	4
7	Strain Localization in the Root of Detachment Faults at a Meltâ€Starved Midâ€Ocean Ridge: A Microstructural Study of Abyssal Peridotites From the Southwest Indian Ridge. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009434.	2.5	14
8	Thermoâ€Mechanical State of Ultraslowâ€Spreading Ridges With a Transient Magma Supply. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020557.	3.4	7
9	Margin-to-Margin Seafloor Spreading in the Eastern Gulf of Aden: A 16 Ma-Long History of Deformation and Magmatism from Seismic Reflection, Gravity and Magnetic Data. Frontiers in Earth Science, 2021, 9, .	1.8	6
10	Seismic Ambient Noise Imaging of a Quasi-Amagmatic Ultra-Slow Spreading Ridge. Remote Sensing, 2021, 13, 2811.	4.0	1
11	Seismic Velocity Structure Along and Across the Ultraslowâ€Spreading Southwest Indian Ridge at 64Â°30â€²E Showcases Flipping Detachment Faults. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022177.	3.4	9
12	780 Thousand Years of Upperâ€Crustal Construction at a Meltâ€Rich Segment of the Ultraslow Spreading Southwest Indian Ridge 50Â°28â€²E. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022152.	3.4	17
13	Extrusive upper crust formation at slow-spreading ridges: Fault steering of lava flows. Earth and Planetary Science Letters, 2021, 576, 117202.	4.4	2
14	Internal Structure of the Oceanic Lithosphere at a Meltâ€Starved Ultraslowâ€Spreading Midâ€Ocean Ridge: Insights From 2â€D Seismic Data. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008540.	2.5	8
15	The isotopic (He, Ne, Sr, Nd, Hf, Pb) signature in the Indian Mantle over 8.8ÂMa. Chemical Geology, 2020, 550, 119741.	3.3	2
16	How do detachment faults form at ultraslow mid-ocean ridges in a thick axial lithosphere?. Earth and Planetary Science Letters, 2020, 533, 116048.	4.4	32
17	On spreading modes and magma supply at slow and ultraslow mid-ocean ridges. Earth and Planetary Science Letters, 2019, 519, 223-233.	4.4	72
18	Intraplate Deformation of Oceanic Crust in the West Somali Basin: Insights From Longâ€offset Reflection Seismic Data. Tectonics, 2018, 37, 588-603.	2.8	25

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19	Oceanic basement roughness alongside magma-poor rifted margins: insight into initial seafloor spreading. Geophysical Journal International, 2018, 212, 900-915.	2.4	12
20	Spatial Variations in Vent Chemistry at the Lucky Strike Hydrothermal Field, Midâ€Atlantic Ridge (37Â°N): Updates for Subseafloor Flow Geometry From the Newly Discovered Capelinhos Vent. Geochemistry, Geophysics, Geosystems, 2018, 19, 4444-4458.	2.5	20
21	Magmatism, serpentinization and life: Insights through drilling the Atlantis Massif (IODP Expedition) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	58
22	Sulfate minerals control dissolved rare earth element flux and Nd isotope signature of buoyant hydrothermal plume (EMSO-Azores, 37Â°N Mid-Atlantic Ridge). Chemical Geology, 2018, 499, 111-125.	3.3	20
23	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.	2.5	94
24	Can highâ€temperature, highâ€heat flux hydrothermal vent fields be explained by thermal convection in the lower crust along fastâ€spreading <scp>M</scp>idâ€<scp>O</scp>cean <scp>R</scp>idges?. Geochemistry, Geophysics, Geosystems, 2017, 18, 1907-1925.	2.5	11
25	Quasiâ€3â€D Seismic Reflection Imaging and Wideâ€Angle Velocity Structure of Nearly Amagmatic Oceanic Lithosphere at the Ultraslowâ€Spreading Southwest Indian Ridge. Journal of Geophysical Research: Solid Earth, 2017, 122, 9511-9533.	3.4	23
26	Evidence for magma entrapment below oceanic crust from deep seismic reflections in the Western Somali Basin. Geology, 2016, 44, 407-410.	4.4	19
27	Effect of melt/mantle interactions on <scp>MORB</scp> chemistry at the easternmost <scp>S</scp>outhwest <scp>I</scp>ndian <scp>R</scp>idge (61Â°â€“67Â°<scp>E</scp>). Geochemistry, Geophysics, Geosystems, 2016, 17, 4605-4640.	2.5	36
28	Tectonic and magmatic segmentation of the Global Ocean Ridge System: a synthesis of observations. Geological Society Special Publication, 2016, 420, 249-295.	1.3	51
29	Threeâ€dimensional geometry of axial magma chamber roof and faults at Lucky Strike volcano on the Midâ€Atlantic Ridge. Journal of Geophysical Research: Solid Earth, 2015, 120, 5379-5400.	3.4	23
30	Serpentinization and Fluid Pathways in Tectonically Exhumed Peridotites from the Southwest Indian Ridge (62-65ÂE). Journal of Petrology, 2015, 56, 703-734.	2.8	70
31	Hydrothermal activity along the slow-spreading Lucky Strike ridge segment (Mid-Atlantic Ridge): Distribution, heatflux, and geological controls. Earth and Planetary Science Letters, 2015, 431, 173-185.	4.4	32
32	Magnetic signature of large exhumed mantle domains of the Southwest Indian Ridge â€“ results from a deep-tow geophysical survey over 0 to 11 Ma old seafloor. Solid Earth, 2014, 5, 339-354.	2.8	19
33	Temporal variability and tidal modulation of hydrothermal exitâ€fluid temperatures at the Lucky Strike deepâ€sea vent field, Midâ€Atlantic Ridge. Journal of Geophysical Research: Solid Earth, 2014, 119, 2543-2566.	3.4	69
34	Serpentinization of mantleâ€derived peridotites at midâ€ocean ridges: Mesh texture development in the context of tectonic exhumation. Geochemistry, Geophysics, Geosystems, 2014, 15, 2354-2379.	2.5	65
35	Lucky Strike seamount: Implications for the emplacement and rifting of segmentâ€centered volcanoes at slow spreading midâ€ocean ridges. Geochemistry, Geophysics, Geosystems, 2014, 15, 4157-4179.	2.5	22
36	Alongâ€axis hydrothermal flow at the axis of slow spreading Midâ€Ocean Ridges: Insights from numerical models of the Lucky Strike vent field (MAR). Geochemistry, Geophysics, Geosystems, 2014, 15, 2918-2931.	2.5	15

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37	Highâ€resolution bathymetry reveals contrasting landslide activity shaping the walls of the Midâ€Atlantic Ridge axial valley. Geochemistry, Geophysics, Geosystems, 2013, 14, 996-1011.	2.5	37
38	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.	1.4	23
39	Hydrothermal seismicity beneath the summit of Lucky Strike volcano, Mid-Atlantic Ridge. Earth and Planetary Science Letters, 2013, 373, 118-128.	4.4	27
40	Atypically depleted upper mantle component revealed by Hf isotopes at Lucky Strike segment. Chemical Geology, 2013, 341, 128-139.	3.3	29
41	Continuous exhumation of mantle-derived rocks at the Southwest Indian Ridge for 11 million years. Nature Geoscience, 2013, 6, 314-320.	12.9	224
42	Threeâ€dimensional seismic structure of the Dragon Flag oceanic core complex at the ultraslow spreading Southwest Indian Ridge (49Â°39â€²E). Geochemistry, Geophysics, Geosystems, 2013, 14, 4544-4563.	2.5	64
43	Structure, temporal evolution, and heat flux estimates from the Lucky Strike deepâ€sea hydrothermal field derived from seafloor image mosaics. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	71
44	Quantifying diffuse and discrete venting at the Tour Eiffel vent site, Lucky Strike hydrothermal field. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	47
45	Deformation associated with the denudation of mantleâ€derived rocks at the Midâ€Atlantic Ridge 13Â°â€“15Â°N: The role of magmatic injections and hydrothermal alteration. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	38
46	Geological context and vents morphology of the ultramaficâ€hosted Ashadze hydrothermal areas (Midâ€Atlantic Ridge 13Â°N). Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	28
47	Hydrothermally-induced melt lens cooling and segmentation along the axis of fast- and intermediate-spreading centers. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	25
48	MoMAR-D: a technological challenge to monitor the dynamics of the Lucky Strike vent ecosystem. ICES Journal of Marine Science, 2011, 68, 416-424.	2.5	27
49	Peridotite-gabbro-trondhjemite association of the Mid-Atlantic Ridge between 12Â°58â€² and 14Â°45â€²N: Ashadze and Logachev hydrothermal vent fields. Geochemistry International, 2011, 49, 323-354.	0.7	18
50	From slow to ultra-slow: How does spreading rate affect seafloor roughness and crustal thickness?. Geology, 2011, 39, 911-914.	4.4	26
51	Crustal velocity structure of the Lucky Strike segment of the Midâ€Atlantic Ridge at 37Â°N from seismic refraction measurements. Journal of Geophysical Research, 2010, 115, .	3.3	37
52	The ultraslow spreading Southwest Indian Ridge. Geophysical Monograph Series, 2010, , 153-173.	0.1	48
53	Serpentinization and associated hydrogen and methane fluxes at slow spreading ridges. Geophysical Monograph Series, 2010, , 241-264.	0.1	83
54	Seismological constraints on the thermal structure along the Lucky Strike segment (Mid-Atlantic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Geophysical Researches, 2009, 30, 105-120.	1.2	20

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55	Propagation of a melting anomaly along the ultraslow Southwest Indian Ridge between 46Â°E and 52Â°20â€²E: interaction with the Crozet hotspot?. Geophysical Journal International, 2009, 179, 687-699.	2.4	90
56	Assessing the conditions of continental breakup at magma-poor rifted margins: What can we learn from slow spreading mid-ocean ridges?. Comptes Rendus - Geoscience, 2009, 341, 406-427.	1.2	63
57	Oceanic corrugated surfaces and the strength of the axial lithosphere at slow spreading ridges. Earth and Planetary Science Letters, 2009, 288, 174-183.	4.4	59
58	Recent volcanic events and the distribution of hydrothermal venting at the Lucky Strike hydrothermal field, Midâ€Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	62
59	Spreading rate, spreading obliquity, and melt supply at the ultraslow spreading Southwest Indian Ridge. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	113
60	Magnetization of 0â€“26.5 Ma seafloor at the ultraslow spreading Southwest Indian Ridge, 61Â°â€“67Â°E. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	33
61	Discovery of a magma chamber and faults beneath a Mid-Atlantic Ridge hydrothermal field. Nature, 2006, 442, 1029-1032.	27.8	248
62	Modes of seafloor generation at a melt-poor ultraslow-spreading ridge. Geology, 2006, 34, 605.	4.4	337
63	Evidence for major-element heterogeneity in the mantle source of abyssal peridotites from the Southwest Indian Ridge (52Â° to 68Â°E). Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	133
64	Melt supply variations to a magma-poor ultra-slow spreading ridge (Southwest Indian Ridge 61Â° to) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	95
65	Spatial and temporal distribution of seismicity along the northern Mid-Atlantic Ridge (15Â°-35Â°N). Journal of Geophysical Research, 2003, 108, .	3.3	99
66	FUJI Dome: A large detachment fault near 64Â°E on the very slow-spreading southwest Indian Ridge. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	60
67	Parallel bands of seismicity at the Mid-Atlantic Ridge, 12-14Â°N. Geophysical Research Letters, 2003, 30, .	4.0	23
68	Magnetic properties of variably serpentinized abyssal peridotites. Journal of Geophysical Research, 2002, 107, EPM 3-1.	3.3	186
69	Crustal thickness of V-shaped ridges south of the Azores: Interaction of the Mid-Atlantic Ridge (36Â°-39Â°N) and the Azores hot spot. Journal of Geophysical Research, 2001, 106, 21719-21735.	3.3	90
70	Ultramafic exposures and the gravity signature of the lithosphere near the Fifteen-Twenty Fracture Zone (Mid-Atlantic Ridge, 14Â°â€“16.5Â°N). Earth and Planetary Science Letters, 1999, 171, 411-424.	4.4	90
71	Mid-Atlantic Ridgeâ€“Azores hotspot interactions: along-axis migration of a hotspot-derived event of enhanced magmatism 10 to 4 Ma ago. Earth and Planetary Science Letters, 1999, 173, 257-269.	4.4	190
72	Formation of the axial relief at the very slow spreading Southwest Indian Ridge (49Â° to 69Â°E). Journal of Geophysical Research, 1999, 104, 22825-22843.	3.3	169

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73	Ultramafic and gabbroic exposures at the Mid-Atlantic Ridge: geological mapping in the 15Â°N region. Tectonophysics, 1997, 279, 193-213.	2.2	166
74	How thick is the magmatic crust at slow spreading oceanic ridges?. Journal of Geophysical Research, 1996, 101, 2847-2857.	3.3	268
75	Transform fault effect on mantle melting in the MARK area (Mid-Atlantic Ridge south of the Kane) Tj ETQq1 1 0.784314 rgBT /Overloc	4.4	44
76	Thin crust, ultramafic exposures, and rugged faulting patterns at the Mid-Atlantic Ridge (22Â°â€“24Â°N). Geology, 1995, 23, 49.	4.4	324
77	An Ultramafic Lift at the Mid-Atlantic Ridge: Successive Stages of Magmatism in Serpentinized Peridotites from the 15Â°N Region. Petrology and Structural Geology, 1995, , 5-34.	0.5	57
78	Emplacement of mantle rocks in the seafloor at midâ€•ocean ridges. Journal of Geophysical Research, 1993, 98, 4163-4172.	3.3	437
79	Serpentinized peridotites and gabbros in the Mid-Atlantic Ridge axial valley at 15Â°37â€²N and 16Â°52â€²N. Earth and Planetary Science Letters, 1992, 109, 87-106.	4.4	173
80	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	2.2	126
81	Stretching of the deep crust at the slow-spreading Southwest Indian Ridge. Tectonophysics, 1991, 190, 73-94.	2.2	42
82	Some Hard Rock Constraints on the Supply of Heat to Mid-Ocean Ridges. Geophysical Monograph Series, 0, , 111-149.	0.1	31