Maurice A Tivey

List of Publications by Year
in descending order

89 papers	3,259 citations	117625 34 h-index	175258 52 g-index
89 all docs	89 docs citations	89 times ranked	2064 citing authors

#	Article	IF	Citations
1	Plutonic foundation of a slowâ€spreading ridge segment: Oceanic core complex at Kane Megamullion, 23Â°30â€²N, 45Â°20â€²W. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	207
2	Deep-sea mining of seafloor massive sulfides. Marine Policy, 2010, 34, 728-732.	3.2	136
3	Segmentation and crustal structure of the western Mid-Atlantic Ridge flank, 25Â°25â€²-27Â°10â€²N and 0-29 m.y.. Journal of Geophysical Research, 1997, 102, 10203-10223.	3.3	122
4	Crustal magnetization reveals subsurface structure of Juan de Fuca Ridge hydrothermal vent fields. Geology, 2002, 30, 979.	4.4	107
5	Reduced crustal magnetization beneath the active sulfide mound, TAG hydrothermal field, Mid-Atlantic Ridge at 26Â°N. Earth and Planetary Science Letters, 1993, 115, 101-115.	4.4	82
6	Channelized lava flows at the East Pacific Rise crest 9Â°-10Â°N: The importance of off-axis lava transport in developing the architecture of young oceanic crust. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	80
7	A near-bottom magnetic survey of the Mid-Atlantic Ridge axis at 26Â°N: Implications for the tectonic evolution of the TAG segment. Journal of Geophysical Research, 2003, 108, .	3.3	78
8	The central anomaly magnetic high: Implications for ocean crust construction and evolution. Journal of Geophysical Research, 1987, 92, 12685-12694.	3.3	74
9	Central anomaly magnetization high: constraints on the volcanic construction and architecture of seismic layer 2A at a fast-spreading mid-ocean ridge, the EPR at 9Â°30â€²â€“50â€²N. Earth and Planetary Science Letters, 1999, 169, 37-50.	4.4	70
10	Structure and development of an axial volcanic ridge: Mid-Atlantic Ridge, 45Â°N. Earth and Planetary Science Letters, 2010, 299, 228-241.	4.4	64
11	Autonomous and Remotely Operated Vehicle Technology for Hydrothermal Vent Discovery, Exploration, and Sampling. Oceanography, 2007, 20, 152-161.	1.0	62
12	Crustal magnetization and accretion at the Southwest Indian Ridge near the Atlantis II fracture zone, 0-25 Ma. Journal of Geophysical Research, 2003, 108, .	3.3	60
13	Submarine Lava Flow Emplacement at the East Pacific Rise 9Â°50Â´N: Implications for Uppermost Ocean Crust Stratigraphy and Hydrothermal Fluid Circulation. Geophysical Monograph Series, 0, , 187-217.	0.1	57
14	Thickness of a submarine lava flow determined from near-bottom magnetic field mapping by autonomous underwater vehicle. Geophysical Research Letters, 1998, 25, 805-808.	4.0	56
15	Crustal Magnetization of Brothers Volcano, New Zealand, Measured by Autonomous Underwater Vehicles: Geophysical Expression of a Submarine Hydrothermal System. Economic Geology, 2012, 107, 1571-1581.	3.8	56
16	Mylonitic deformation at the Kane oceanic core complex: Implications for the rheological behavior of oceanic detachment faults. Geochemistry, Geophysics, Geosystems, 2013, 14, 3085-3108.	2.5	56
17	Interplay between faults and lava flows in construction of the upper oceanic crust: The East Pacific Rise crest 9Â°25â€²-9Â°58â€²N. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	54
18	Dynamic Accretion Beneath a Slowâ€Spreading Ridge Segment: IODP Hole 1473A and the Atlantis Bank Oceanic Core Complex. Journal of Geophysical Research: Solid Earth, 2019, 124, 12631-12659.	3.4	53

#	Article	IF	Citations
19	Vertical magnetic structure of ocean crust determined from near-bottom magnetic field measurements. Journal of Geophysical Research, 1996, 101, 20275-20296.	3.3	51
20	Geomagnetic polarity reversal model of deep-tow profiles from the Pacific Jurassic Quiet Zone. Journal of Geophysical Research, 1998, 103, 5269-5286.	3.3	48
21	The Cleft revealed: Geologic, magnetic, and morphologic evidence for construction of upper oceanic crust along the southern Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	48
22	Origin of the Pacific Jurassic quiet zone. Geology, 2006, 34, 789.	4.4	48
23	A reduced crustal magnetization zone near the first observed active hydrothermal vent field on the Southwest Indian Ridge. Geophysical Research Letters, 2010, 37, .	4.0	47
24	The magnetic signature of hydrothermal systems in slow spreading environments. Geophysical Monograph Series, 2010, , 43-66.	0.1	47
25	Geomagnetic polarity reversal rate for the Phanerozoic. Geophysical Research Letters, 1995, 22, 231-234.	4.0	45
26	Magnetization of 0-29 Ma ocean crust on the Mid-Atlantic Ridge, 25Â°30â€² to 27Â°10â€²N. Journal of Geophysical Research, 1998, 103, 17807-17826.	3.3	45
27	3â€D focused inversion of nearâ€seafloor magnetic data with application to the Brothers volcano hydrothermal system, Southern Pacific Ocean, New Zealand. Journal of Geophysical Research, 2012, 117, .	3.3	45
28	Continuous near-bottom gravity measurements made with a BGM-3 gravimeter in DSVAlvinon the East Pacific Rise crest near 9Â°31â€²N and 9Â°50â€²N. Journal of Geophysical Research, 1999, 104, 10841-10861.	3.3	44
29	Internal structure of uppermost oceanic crust along the Western Blanco Transform Scarp: Implications for subaxial accretion and deformation at the Juan de Fuca Ridge. Journal of Geophysical Research, 2002, 107, EPM 1-1-EPM 1-24.	3.3	43
30	Deepâ€tow magnetic anomaly study of the Pacific Jurassic Quiet Zone and implications for the geomagnetic polarity reversal timescale and geomagnetic field behavior. Journal of Geophysical Research, 2008, 113, .	3.3	43
31	Seafloor slopes at mid-ocean ridges from submersible observations and implications for interpreting geology from seafloor topography. Earth and Planetary Science Letters, 2000, 183, 543-555.	4.4	41
32	Submeter bathymetric mapping of volcanic and hydrothermal features on the East Pacific Rise crest at 9Â°50â€²N. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	40
33	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.	2.1	39
34	Characterization of viscous remanent magnetization in singleâ€and multiâ€domain magnetite grains. Geophysical Research Letters, 1981, 8, 217-220.	4.0	37
35	Complex subsurface hydrothermal fluid mixing at a submarine arc volcano supports distinct and highly diverse microbial communities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32627-32638.	7.1	36
36	A submersible study in the western Blanco fracture Zone, N.E. Pacific: Structure and evolution during the last 1.6 Ma. Marine Geophysical Researches, 1995, 17, 399-430.	1.2	35

#	Article	IF	Citations
37	Multiple expressions of plumeâ€ridge interaction in the GalÃ¡pagos: Volcanic lineaments and ridge jumps. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	35
38	The characterization of viscous remanent magnetization in large and small magnetite particles. Journal of Geophysical Research, 1984, 89, 543-552.	3.3	34
39	Direct measurement of magnetic reversal polarity boundaries in a cross-section of oceanic crust. Geophysical Research Letters, 1998, 25, 3631-3634.	4.0	34
40	High-resolution water column survey to identify active sublacustrine hydrothermal discharge zones within Lake Rotomahana, North Island, New Zealand. Journal of Volcanology and Geothermal Research, 2016, 314, 142-155.	2.1	34
41	Fine-scale magnetic anomaly field over the southern Juan de Fuca Ridge: Axial magnetization low and implications for crustal structure. Journal of Geophysical Research, 1994, 99, 4833-4855.	3.3	33
42	Interpretation of gravity and magnetic anomalies at Lake Rotomahana: Geological and hydrothermal implications. Journal of Volcanology and Geothermal Research, 2016, 314, 84-94.	2.1	33
43	Magnetic polarity structure of the lower oceanic crust. Geophysical Research Letters, 2001, 28, 423-426.	4.0	32
44	The Trans-Atlantic Geotraverse hydrothermal field: A hydrothermal system on an active detachment fault. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 121, 8-16.	1.4	32
45	Magnetic properties of zero-age oceanic crust; A new submarine lava flow on the Juan de Fuca Ridge. Geophysical Research Letters, 1995, 22, 175-178.	4.0	31
46	Direct inversion of potential fields from an uneven track with application to the Mid-Atlantic Ridge. Geophysical Research Letters, 1995, 22, 3131-3134.	4.0	31
47	Near-bottom magnetic survey of the Mid-Atlantic Ridge axis, 24Â°-24Â°40â€²N: Implications for crustal accretion at slow spreading ridges. Journal of Geophysical Research, 1996, 101, 22051-22069.	3.3	31
48	Hydrothermal circulation within the Endeavour Segment, Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	31
49	Variations in oceanic crustal structure and implications for the fineâ€scale magnetic anomaly signal. Geophysical Research Letters, 1993, 20, 1879-1882.	4.0	28
50	Reduced crustal magnetization beneath Relict Hydrothermal Mounds: TAG Hydrothermal Field, Mid-Atlantic Ridge, 26Â°N. Geophysical Research Letters, 1996, 23, 3511-3514.	4.0	28
51	Reconstruction of the geology and structure of Lake Rotomahana and its hydrothermal systems from high-resolution multibeam mapping and seismic surveys: Effects of the 1886 Tarawera Rift eruption. Journal of Volcanology and Geothermal Research, 2016, 314, 57-83.	2.1	28
52	Geologic setting of PACManus hydrothermal area â€" High resolution mapping and in situ observations. Marine Geology, 2014, 355, 98-114.	2.1	27
53	Magnetic modeling near selected areas of hydrothermal activity on the Midâ€Atlantic and Gorda Ridges. Journal of Geophysical Research, 1992, 97, 10911-10926.	3.3	24
54	Locating the spreading axis along 80 km of the Mid-Atlantic Ridge south of the Atlantis Transform. Journal of Geophysical Research, 1999, 104, 7599-7612.	3.3	24

#	Article	IF	Citations
55	The magnetic structure of Axial Seamount, Juan de Fuca Ridge. Journal of Geophysical Research, 1990, 95, 12735-12750.	3.3	23
56	Fast rift propagation at a slow-spreading ridge. Geology, 1997, 25, 639.	4.4	22
57	Density and porosity of the upper oceanic crust from seafloor gravity measurements. Geophysical Research Letters, 2000, 27, 1053-1056.	4.0	22
58	Heat Flow and Nearâ€Seafloor Magnetic Anomalies Highlight Hydrothermal Circulation at Brothers Volcano Caldera, Southern Kermadec Arc, New Zealand. Geophysical Research Letters, 2019, 46, 8252-8260.	4.0	22
59	A novel heat flux study of a geothermally active lake â€" Lake Rotomahana, New Zealand. Journal of Volcanology and Geothermal Research, 2016, 314, 95-109.	2.1	21
60	Multi-scale magnetic mapping of serpentinite carbonation. Nature Communications, 2017, 8, 1870.	12.8	20
61	Downhole magnetic measurements of ODP Hole 801C: Implications for Pacific oceanic crust and magnetic field behavior in the Middle Jurassic. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	19
62	Recent volcanic accretion at 9^{Â°}Nâ€"10^{Â°}N East Pacific Rise as resolved by combined geochemical and geological observations. Geochemistry, Geophysics, Geosystems, 2013, 14, 2547-2574.	2.5	19
63	Quantitative study of the deformation at Southern Explorer Ridge using high-resolution bathymetric data. Earth and Planetary Science Letters, 2007, 259, 1-17.	4.4	18
64	An intermittent detachment faulting system with a large sulfide deposit revealed by multi-scale magnetic surveys. Nature Communications, 2021, 12, 5642.	12.8	18
65	Autonomous underwater vehicle maps seafloor. Eos, 1997, 78, 229.	0.1	17
66	Highâ€resolution nearâ€bottom vector magnetic anomalies over Raven Hydrothermal Field, Endeavour Segment, Juan de Fuca Ridge. Journal of Geophysical Research: Solid Earth, 2014, 119, 7389-7403.	3.4	17
67	Fine-scale crustal magnetization variations and segmentation of the East Pacific Rise, 9Â°10â€²-9Â°50â€²N. Journal of Geophysical Research, 1996, 101, 22033-22050.	3.3	16
68	Mid-Ocean Ridge Exploration with an Autonomous Underwater Vehicle. Oceanography, 2007, 20, 52-61.	1.0	15
69	Nature of the Jurassic Magnetic Quiet Zone. Geophysical Research Letters, 2015, 42, 8367-8372.	4.0	15
70	Survey studies hydrothermal circulation on the Northern Juan de Fuca Ridge. Eos, 2002, 83, 73.	0.1	14
71	Alvin magnetic survey of zero-age crust: CoAxial Segment Eruption, Juan de Fuca Ridge 1993. Geophysical Research Letters, 1995, 22, 171-174.	4.0	13
72	Dynamics and navigation of autonomous underwater vehicles for submarine gravity surveying. Geophysics, 2013, 78, G55-G68.	2.6	12

#	Article	IF	Citations
73	Geological and Thermal Control of the Hydrothermal System in Northern Yellowstone Lake: Inferences From Highâ€Resolution Magnetic Surveys. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019743.	3.4	12
74	Magnetic anomalies at the Puna Ridge, a submarine extension of Kilauea Volcano: Implications for lava deposition. Journal of Geophysical Research, 2001, 106, 16047-16060.	3.3	11
75	Quantitative estimate of heat flow from a midâ€ocean ridge axial valley, Raven field, Juan de Fuca Ridge: Observations and inferences. Journal of Geophysical Research: Solid Earth, 2014, 119, 6841-6854.	3.4	11
76	Subaqueous cryptodome eruption, hydrothermal activity and related seafloor morphologies on the andesitic North Su volcano. Journal of Volcanology and Geothermal Research, 2016, 323, 80-96.	2.1	11
77	Temporal and spatial variability in the composition of lavas exposed along the Western Blanco Transform Fault. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	10
78	Characterization of the in situ magnetic architecture of oceanic crust (Hess Deep) using nearâ€source vector magnetic data. Journal of Geophysical Research: Solid Earth, 2016, 121, 4130-4146.	3.4	10
79	Crustal magnetization and the subseafloor structure of the ASHES vent field, Axial Seamount, Juan de Fuca Ridge: Implications for the investigation of hydrothermal sites. Geophysical Research Letters, 2016, 43, 6205-6211.	4.0	10
80	Title is missing!. Marine Geophysical Researches, 1998, 20, 195-218.	1.2	9
81	Toward high-spatial resolution gravity surveying of the mid-ocean ridges with autonomous underwater vehicles. , 2008, , .		8
82	Magnetic exploration of a low-temperature ultramafic-hosted hydrothermal site (Lost City, 30Â°N,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.4	7
83	Waning magmatic activity along the Southern Explorer Ridge revealed through fault restoration of rift topography. Geochemistry, Geophysics, Geosystems, 2013, 14, 1609-1625.	2.5	6
84	Rescue of long-tail data from the ocean bottom to the Moon: IEDA Data Rescue Mini-Awards. GeoResJ, 2015, 6, 108-114.	1.4	6
85	A New Middle to Late Jurassic Geomagnetic Polarity Time Scale (GPTS) From a Multiscale Marine Magnetic Anomaly Survey of the Pacific Jurassic Quiet Zone. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021136.	3.4	6
86	Central Anomaly Magnetization High documentation of crustal accretion along the East Pacific Rise (9Â°55â€²â€“9Â°25â€²N). Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	5
87	Investigation of a marine magnetic polarity reversal boundary in cross section at the northern boundary of the Kane Megamullion, Midâ€Atlantic Ridge, 23Â°40â€²N. Journal of Geophysical Research: Solid Earth, 2016, 121, 3161-3176.	3.4	5
88	Magnetic Mineral Populations in Lower Oceanic Crustal Gabbros (Atlantis Bank, SW Indian Ridge): Implications for Marine Magnetic Anomalies. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008847.	2.5	2
89	Deep-ocean paleo-seafloor erosion in the northwestern Pacific identified by high-resolution seismic images. Marine Geology, 2020, 429, 106330.	2.1	1