

Maurice A Tivey

List of Publications by Year in descending order

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89
papers

3,259
citations

134610

34
h-index

198040

52
g-index

89
all docs

89
docs citations

89
times ranked

2290
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Middle to Late Jurassic Geomagnetic Polarity Time Scale (GPTS) From a Multiscale Marine Magnetic Anomaly Survey of the Pacific Jurassic Quiet Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021136.	1.4	6
2	An intermittent detachment faulting system with a large sulfide deposit revealed by multi-scale magnetic surveys. <i>Nature Communications</i> , 2021, 12, 5642.	5.8	18
3	Geological and Thermal Control of the Hydrothermal System in Northern Yellowstone Lake: Inferences From High-Resolution Magnetic Surveys. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019743.	1.4	12
4	Deep-ocean paleo-seafloor erosion in the northwestern Pacific identified by high-resolution seismic images. <i>Marine Geology</i> , 2020, 429, 106330.	0.9	1
5	Magnetic Mineral Populations in Lower Oceanic Crustal Gabbros (Atlantis Bank, SW Indian Ridge): Implications for Marine Magnetic Anomalies. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008847.	1.0	2
6	Complex subsurface hydrothermal fluid mixing at a submarine arc volcano supports distinct and highly diverse microbial communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32627-32638.	3.3	36
7	Heat Flow and Near-Sea-floor Magnetic Anomalies Highlight Hydrothermal Circulation at Brothers Volcano Caldera, Southern Kermadec Arc, New Zealand. <i>Geophysical Research Letters</i> , 2019, 46, 8252-8260.	1.5	22
8	Dynamic Accretion Beneath a Slow-Spreading Ridge Segment: IODP Hole 1473A and the Atlantis Bank Oceanic Core Complex. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12631-12659.	1.4	53
9	Magnetic exploration of a low-temperature ultramafic-hosted hydrothermal site (Lost City, 30°N.) <i>Tj ETQq1 1 0.784314 rgBJ /Overl</i>	1.8	7
10	Multi-scale magnetic mapping of serpentinite carbonation. <i>Nature Communications</i> , 2017, 8, 1870.	5.8	20
11	Investigation of a marine magnetic polarity reversal boundary in cross section at the northern boundary of the Kane Megamullion, Mid-Atlantic Ridge, 23°40'N. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3161-3176.	1.4	5
12	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. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 57-83.	0.8	28
13	Characterization of the in situ magnetic architecture of oceanic crust (Hess Deep) using near-source vector magnetic data. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4130-4146.	1.4	10
14	Crustal magnetization and the subseafloor structure of the ASHES vent field, Axial Seamount, Juan de Fuca Ridge: Implications for the investigation of hydrothermal sites. <i>Geophysical Research Letters</i> , 2016, 43, 6205-6211.	1.5	10
15	A novel heat flux study of a geothermally active lake – Lake Rotomahana, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 95-109.	0.8	21
16	Subaqueous cryptodome eruption, hydrothermal activity and related seafloor morphologies on the andesitic North Su volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 323, 80-96.	0.8	11
17	High-resolution water column survey to identify active sublacustrine hydrothermal discharge zones within Lake Rotomahana, North Island, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 142-155.	0.8	34
18	Interpretation of gravity and magnetic anomalies at Lake Rotomahana: Geological and hydrothermal implications. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 84-94.	0.8	33

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19	Nature of the Jurassic Magnetic Quiet Zone. <i>Geophysical Research Letters</i> , 2015, 42, 8367-8372.	1.5	15
20	The Trans-Atlantic Geotraverse hydrothermal field: A hydrothermal system on an active detachment fault. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 121, 8-16.	0.6	32
21	Rescue of long-tail data from the ocean bottom to the Moon: IEDA Data Rescue Mini-Awards. <i>GeoResJ</i> , 2015, 6, 108-114.	1.4	6
22	Geologic setting of PACManus hydrothermal area " High resolution mapping and in situ observations. <i>Marine Geology</i> , 2014, 355, 98-114.	0.9	27
23	High-resolution near-bottom vector magnetic anomalies over Raven Hydrothermal Field, Endeavour Segment, Juan de Fuca Ridge. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7389-7403.	1.4	17
24	Quantitative estimate of heat flow from a mid-ocean ridge axial valley, Raven field, Juan de Fuca Ridge: Observations and inferences. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6841-6854.	1.4	11
25	Mylonitic deformation at the Kane oceanic core complex: Implications for the rheological behavior of oceanic detachment faults. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3085-3108.	1.0	56
26	Waning magmatic activity along the Southern Explorer Ridge revealed through fault restoration of rift topography. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1609-1625.	1.0	6
27	Dynamics and navigation of autonomous underwater vehicles for submarine gravity surveying. <i>Geophysics</i> , 2013, 78, G55-G68.	1.4	12
28	Recent volcanic accretion at 9°N-10°N East Pacific Rise as resolved by combined geochemical and geological observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2547-2574.	1.0	19
29	Crustal Magnetization of Brothers Volcano, New Zealand, Measured by Autonomous Underwater Vehicles: Geophysical Expression of a Submarine Hydrothermal System. <i>Economic Geology</i> , 2012, 107, 1571-1581.	1.8	56
30	Multiple expressions of plume-ridge interaction in the Galapagos: Volcanic lineaments and ridge jumps. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	35
31	3D focused inversion of near-seafloor magnetic data with application to the Brothers volcano hydrothermal system, Southern Pacific Ocean, New Zealand. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	45
32	Deep-sea mining of seafloor massive sulfides. <i>Marine Policy</i> , 2010, 34, 728-732.	1.5	136
33	A reduced crustal magnetization zone near the first observed active hydrothermal vent field on the Southwest Indian Ridge. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	47
34	Hydrothermal circulation within the Endeavour Segment, Juan de Fuca Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	31
35	Structure and development of an axial volcanic ridge: Mid-Atlantic Ridge, 45°N. <i>Earth and Planetary Science Letters</i> , 2010, 299, 228-241.	1.8	64
36	The magnetic signature of hydrothermal systems in slow spreading environments. <i>Geophysical Monograph Series</i> , 2010, , 43-66.	0.1	47

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37	Central Anomaly Magnetization High documentation of crustal accretion along the East Pacific Rise (9°55'N-9°25'N). <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	5
38	Plutonic foundation of a slow-spreading ridge segment: Oceanic core complex at Kane Megamullion, 23°30'N, 45°20'W. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	207
39	Deep-tow magnetic anomaly study of the Pacific Jurassic Quiet Zone and implications for the geomagnetic polarity reversal timescale and geomagnetic field behavior. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	43
40	Toward high-spatial resolution gravity surveying of the mid-ocean ridges with autonomous underwater vehicles. , 2008, , .		8
41	Quantitative study of the deformation at Southern Explorer Ridge using high-resolution bathymetric data. <i>Earth and Planetary Science Letters</i> , 2007, 259, 1-17.	1.8	18
42	Submeter bathymetric mapping of volcanic and hydrothermal features on the East Pacific Rise crest at 9°50'N. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	40
43	Interplay between faults and lava flows in construction of the upper oceanic crust: The East Pacific Rise crest 9°25'-9°58'N. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	54
44	Mid-Ocean Ridge Exploration with an Autonomous Underwater Vehicle. <i>Oceanography</i> , 2007, 20, 52-61.	0.5	15
45	Autonomous and Remotely Operated Vehicle Technology for Hydrothermal Vent Discovery, Exploration, and Sampling. <i>Oceanography</i> , 2007, 20, 152-161.	0.5	62
46	The Cleft revealed: Geologic, magnetic, and morphologic evidence for construction of upper oceanic crust along the southern Juan de Fuca Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	48
47	Origin of the Pacific Jurassic quiet zone. <i>Geology</i> , 2006, 34, 789.	2.0	48
48	Downhole magnetic measurements of ODP Hole 801C: Implications for Pacific oceanic crust and magnetic field behavior in the Middle Jurassic. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	19
49	Channelized lava flows at the East Pacific Rise crest 9°-10°N: The importance of off-axis lava transport in developing the architecture of young oceanic crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	80
50	Temporal and spatial variability in the composition of lavas exposed along the Western Blanco Transform Fault. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	10
51	Crustal magnetization and accretion at the Southwest Indian Ridge near the Atlantis II fracture zone, 0-25 Ma. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
52	A near-bottom magnetic survey of the Mid-Atlantic Ridge axis at 26°N: Implications for the tectonic evolution of the TAG segment. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	78
53	Crustal magnetization reveals subsurface structure of Juan de Fuca Ridge hydrothermal vent fields. <i>Geology</i> , 2002, 30, 979.	2.0	107
54	Survey studies hydrothermal circulation on the Northern Juan de Fuca Ridge. <i>Eos</i> , 2002, 83, 73.	0.1	14

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55	Internal structure of uppermost oceanic crust along the Western Blanco Transform Scarp: Implications for subaxial accretion and deformation at the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 1-1-EPM 1-24.	3.3	43
56	Magnetic polarity structure of the lower oceanic crust. <i>Geophysical Research Letters</i> , 2001, 28, 423-426.	1.5	32
57	Magnetic anomalies at the Puna Ridge, a submarine extension of Kilauea Volcano: Implications for lava deposition. <i>Journal of Geophysical Research</i> , 2001, 106, 16047-16060.	3.3	11
58	Seafloor slopes at mid-ocean ridges from submersible observations and implications for interpreting geology from seafloor topography. <i>Earth and Planetary Science Letters</i> , 2000, 183, 543-555.	1.8	41
59	Density and porosity of the upper oceanic crust from seafloor gravity measurements. <i>Geophysical Research Letters</i> , 2000, 27, 1053-1056.	1.5	22
60	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 9°30'N. <i>Earth and Planetary Science Letters</i> , 1999, 169, 37-50.	1.8	70
61	Locating the spreading axis along 80 km of the Mid-Atlantic Ridge south of the Atlantis Transform. <i>Journal of Geophysical Research</i> , 1999, 104, 7599-7612.	3.3	24
62	Continuous near-bottom gravity measurements made with a BGM-3 gravimeter in DSVALvinon the East Pacific Rise crest near 9°31'N and 9°50'N. <i>Journal of Geophysical Research</i> , 1999, 104, 10841-10861.	3.3	44
63	Title is missing!. <i>Marine Geophysical Researches</i> , 1998, 20, 195-218.	0.5	9
64	Geomagnetic polarity reversal model of deep-tow profiles from the Pacific Jurassic Quiet Zone. <i>Journal of Geophysical Research</i> , 1998, 103, 5269-5286.	3.3	48
65	Thickness of a submarine lava flow determined from near-bottom magnetic field mapping by autonomous underwater vehicle. <i>Geophysical Research Letters</i> , 1998, 25, 805-808.	1.5	56
66	Direct measurement of magnetic reversal polarity boundaries in a cross-section of oceanic crust. <i>Geophysical Research Letters</i> , 1998, 25, 3631-3634.	1.5	34
67	Magnetization of 0-29 Ma ocean crust on the Mid-Atlantic Ridge, 25°30'N to 27°10'N. <i>Journal of Geophysical Research</i> , 1998, 103, 17807-17826.	3.3	45
68	Fast rift propagation at a slow-spreading ridge. <i>Geology</i> , 1997, 25, 639.	2.0	22
69	Autonomous underwater vehicle maps seafloor. <i>Eos</i> , 1997, 78, 229.	0.1	17
70	Segmentation and crustal structure of the western Mid-Atlantic Ridge flank, 25°25'N-27°10'N and 0-29 m.y.. <i>Journal of Geophysical Research</i> , 1997, 102, 10203-10223.	3.3	122
71	Reduced crustal magnetization beneath Relict Hydrothermal Mounds: TAG Hydrothermal Field, Mid-Atlantic Ridge, 26°N. <i>Geophysical Research Letters</i> , 1996, 23, 3511-3514.	1.5	28
72	Vertical magnetic structure of ocean crust determined from near-bottom magnetic field measurements. <i>Journal of Geophysical Research</i> , 1996, 101, 20275-20296.	3.3	51

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73	Near-bottom magnetic survey of the Mid-Atlantic Ridge axis, 24°-24°40'N: Implications for crustal accretion at slow spreading ridges. <i>Journal of Geophysical Research</i> , 1996, 101, 22051-22069.	3.3	31
74	Fine-scale crustal magnetization variations and segmentation of the East Pacific Rise, 9°10'-9°50'N. <i>Journal of Geophysical Research</i> , 1996, 101, 22033-22050.	3.3	16
75	A submersible study in the western Blanco fracture Zone, N.E. Pacific: Structure and evolution during the last 1.6 Ma. <i>Marine Geophysical Researches</i> , 1995, 17, 399-430.	0.5	35
76	Magnetic properties of zero-age oceanic crust; A new submarine lava flow on the Juan de Fuca Ridge. <i>Geophysical Research Letters</i> , 1995, 22, 175-178.	1.5	31
77	Alvin magnetic survey of zero-age crust: CoAxial Segment Eruption, Juan de Fuca Ridge 1993. <i>Geophysical Research Letters</i> , 1995, 22, 171-174.	1.5	13
78	Geomagnetic polarity reversal rate for the Phanerozoic. <i>Geophysical Research Letters</i> , 1995, 22, 231-234.	1.5	45
79	Direct inversion of potential fields from an uneven track with application to the Mid-Atlantic Ridge. <i>Geophysical Research Letters</i> , 1995, 22, 3131-3134.	1.5	31
80	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
81	Fine-scale magnetic anomaly field over the southern Juan de Fuca Ridge: Axial magnetization low and implications for crustal structure. <i>Journal of Geophysical Research</i> , 1994, 99, 4833-4855.	3.3	33
82	Reduced crustal magnetization beneath the active sulfide mound, TAG hydrothermal field, Mid-Atlantic Ridge at 26°N. <i>Earth and Planetary Science Letters</i> , 1993, 115, 101-115.	1.8	82
83	Variations in oceanic crustal structure and implications for the fine-scale magnetic anomaly signal. <i>Geophysical Research Letters</i> , 1993, 20, 1879-1882.	1.5	28
84	Magnetic modeling near selected areas of hydrothermal activity on the Mid-Atlantic and Gorda Ridges. <i>Journal of Geophysical Research</i> , 1992, 97, 10911-10926.	3.3	24
85	The magnetic structure of Axial Seamount, Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1990, 95, 12735-12750.	3.3	23
86	The central anomaly magnetic high: Implications for ocean crust construction and evolution. <i>Journal of Geophysical Research</i> , 1987, 92, 12685-12694.	3.3	74
87	The characterization of viscous remanent magnetization in large and small magnetite particles. <i>Journal of Geophysical Research</i> , 1984, 89, 543-552.	3.3	34
88	Characterization of viscous remanent magnetization in single- and multi-domain magnetite grains. <i>Geophysical Research Letters</i> , 1981, 8, 217-220.	1.5	37
89	Submarine Lava Flow Emplacement at the East Pacific Rise 9°50'N: Implications for Uppermost Ocean Crust Stratigraphy and Hydrothermal Fluid Circulation. <i>Geophysical Monograph Series</i> , 0, , 187-217.	0.1	57