

Millard F. Coffin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93 papers	5,413 citations	35 h-index	73 g-index
104 ext. papers	5,939 ext. citations	4.9 avg, IF	5.52 L-index

#	Paper	IF	Citations
93	Submarine sedimentary bedforms and benthos surrounding the Heard and McDonald Islands World Heritage site 2020 , 705-720		
92	Shallow Seafloor Gas emissions Near Heard and McDonald Islands on the Kerguelen Plateau, Southern Indian Ocean. <i>Earth and Space Science</i> , 2020 , 7, e2019EA000695	3.1	1
91	Contributions of Scientific Ocean Drilling to Understanding the Emplacement of Submarine Large Igneous Provinces and Their Effects on the Environment. <i>Oceanography</i> , 2019 , 32, 176-192	2.3	9
90	Large Igneous Provinces 2019 , 337-345		
89	Malaysia Airlines flight MH370 search data reveal geomorphology and seafloor processes in the remote southeast Indian Ocean. <i>Marine Geology</i> , 2018 , 395, 301-319	3.3	17
88	The rise and fall of the Cretaceous Hot Greenhouse climate. <i>Global and Planetary Change</i> , 2018 , 167, 1-23	4.2	107
87	Naturaliste Plateau: constraints on the timing and evolution of the Kerguelen Large Igneous Province and its role in Gondwana breakup. <i>Australian Journal of Earth Sciences</i> , 2017 , 64, 851-869	1.4	24
86	Erosional and depositional processes on the submarine flanks of Ontong Java and Nukumanu atolls, western equatorial Pacific Ocean. <i>Marine Geology</i> , 2017 , 392, 122-139	3.3	10
85	Widespread Neogene volcanism on Central Kerguelen Plateau, Southern Indian Ocean. <i>Australian Journal of Earth Sciences</i> , 2016 , 63, 379-392	1.4	5
84	Large Igneous Provinces and Flood Basalt Volcanism 2015 , 441-455		6
83	Volcanism and Climate 2014 , 1-7		
82	Determining Scientific Projects for the Deep-Sea Drilling Vessel Chikyu. <i>Eos</i> , 2013 , 94, 256-256	1.5	1
81	The North Atlantic Igneous Province. <i>Geophysical Monograph Series</i> , 2013 , 45-93	1.1	151
80	Cretaceous Basalts in Madagascar and the Transition Between Plume and Continental Lithosphere Mantle Sources. <i>Geophysical Monograph Series</i> , 2013 , 95-122	1.1	32
79	Rajmahal Basalts, Eastern India: Mantle Sources and Melt Distribution at a Volcanic Rifted Margin. <i>Geophysical Monograph Series</i> , 2013 , 145-182	1.1	36
78	The Ontong Java Plateau. <i>Geophysical Monograph Series</i> , 2013 , 183-216	1.1	58
77	Giant Radiating Dyke Swarms: Their Use in Identifying Pre-Mesozoic Large Igneous Provinces and Mantle Plumes. <i>Geophysical Monograph Series</i> , 2013 , 297-333	1.1	84

76	Large Igneous Provinces: A Planetary Perspective. <i>Geophysical Monograph Series</i> , 2013 , 411-438	1.1	23
75	The Caribbean-Colombian Cretaceous Igneous Province: The Internal Anatomy of an Oceanic Plateau. <i>Geophysical Monograph Series</i> , 2013 , 123-144	1.1	36
74	The Development of Paleoseaways Around Antarctica. <i>Antarctic Research Series</i> , 2013 , 7-30		256
73	Emplacement and Subsidence of Indian Ocean Plateaus and Submarine Ridges. <i>Geophysical Monograph Series</i> , 2013 , 115-125	1.1	20
72	Appendix 1 : Indian Ocean Plate Reconstructions Since the Late Jurassic. <i>Geophysical Monograph Series</i> , 2013 , 471-475	1.1	14
71	Australian developments in marine science. <i>Eos</i> , 2012 , 93, 289-290	1.5	1
70	Deep Seismic Investigation of the Ontong Java Plateau. <i>Eos</i> , 2011 , 92, 61-62	1.5	3
69	Age and geochemistry of the oceanic Manihiki Plateau, SW Pacific: New evidence for a plume origin. <i>Earth and Planetary Science Letters</i> , 2011 , 304, 135-146	5.3	68
68	Lead isotopic record of Barremian-Aptian marine sediments: Implications for large igneous provinces and the Aptian climatic crisis. <i>Earth and Planetary Science Letters</i> , 2011 , 307, 126-134	5.3	43
67	Imaging, Mapping and Modelling Continental Lithosphere Extension and Breakup, Geological Society (London) Special Publication 282, eds Karner, G.D., Manatschal, G. & Pinheiro, L.M., 2007, ISBN 978-1-86239-228-1, Hardcover, 482 pp., GBP £ 100.00. <i>Geophysical Journal International</i> , 2008 , 175, 1321-1321	2.6	
66	Intrabasement reflections of the Ontong Java Plateau: Implications for plateau construction. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	20
65	Naturaliste Plateau, offshore Western Australia: A submarine window into Gondwana assembly and breakup. <i>Geology</i> , 2008 , 36, 807	5	48
64	Depleted mantle wedge and sediment fingerprint in unusual basalts from the Manihiki Plateau, central Pacific Ocean. <i>Geology</i> , 2007 , 35, 595	5	45
63	Large igneous provinces. <i>Eos</i> , 2007 , 88, 505-505	1.5	
62	Oceanic crust and Moho of the Pacific Plate in the eastern Ogasawara Plateau region. <i>Island Arc</i> , 2007 , 16, 361-373	2	12
61	Depleted mantle wedge and sediment fingerprint in unusual basalts from the Manihiki plateau, central Pacific Ocean: Comment and Reply: REPLY. <i>Geology</i> , 2007 , 35, e165-e165	5	
60	Contemporaneous massive subaerial volcanism and late cretaceous Oceanic Anoxic Event 2. <i>Earth and Planetary Science Letters</i> , 2007 , 256, 211-223	5.3	129
59	Continental breakup and sedimentary basin formation. <i>Eos</i> , 2006 , 87, 528	1.5	1

58	Large Igneous Provinces and Scientific Ocean Drilling: Status Quo and A Look Ahead. <i>Oceanography</i> , 2006 , 19, 150-160	2.3	56
57	Massive Early Cretaceous volcanic activity in the Nauru Basin related to emplacement of the Ontong Java Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a	3.6	12
56	Expeditions to drill Atlantic, Gulf of Mexico, and Pacific sites. <i>Eos</i> , 2005 , 86, 151	1.5	
55	Influence of cumulative convergence on lithospheric thrust fault development and topography along the Australian-Pacific plate boundary south of New Zealand. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a	3.6	16
54	Anomalous uplift and subsidence of the Ontong Java Plateau inferred from CO ₂ contents of submarine basaltic glasses. <i>Geology</i> , 2005 , 33, 501	5	33
53	Tectonic implications of fault-scarp-derived volcanoclastic deposits on Macquarie Island: Sedimentation at a fossil ridge-transform intersection?. <i>Bulletin of the Geological Society of America</i> , 2005 , 117, 18	3.9	9
52	Rootless serpentinite seamount on the southern Izu-Bonin forearc: Implications for basal erosion at convergent plate margins. <i>Geology</i> , 2004 , 32, 541	5	25
51	Expeditions to drill Pacific, Arctic, and Atlantic sites. <i>Eos</i> , 2004 , 85, 13-18	1.5	
50	Sequence stratigraphy, structural style, and age of deformation of the Malaita accretionary prism (Solomon arc-Ontong Java Plateau convergent zone). <i>Tectonophysics</i> , 2004 , 389, 221-246	3.1	40
49	Oligocene to Recent tectonic history of the Central Solomon intra-arc basin as determined from marine seismic reflection data and compilation of onland geology. <i>Tectonophysics</i> , 2004 , 389, 267-307	3.1	28
48	Impact origin for the greater Ontong Java Plateau?. <i>Earth and Planetary Science Letters</i> , 2004 , 218, 123-134	3.4	111
47	Underthrusting at the Hjort Trench, Australian-Pacific plate boundary: Incipient subduction?. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	26
46	Large earthquake strikes Hokkaido, Japan. <i>Eos</i> , 2003 , 84, 442	1.5	2
45	Extension along the Australian-Pacific transpressional transform plate boundary near Macquarie Island. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4, n/a-n/a	3.6	14
44	Structure and development of a microcontinent: Elan Bank in the southern Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4, n/a-n/a	3.6	48
43	Macquarie Island's Finch-Langdon fault: A ridge-transform inside-corner structure. <i>Geology</i> , 2003 , 31, 661	5	15
42	Origin and Evolution of the Kerguelen Plateau, Broken Ridge and Kerguelen Archipelago: Editorial. <i>Journal of Petrology</i> , 2002 , 43, 1105-1108	3.9	43
41	Kerguelen Hotspot Magma Output since 130 Ma. <i>Journal of Petrology</i> , 2002 , 43, 1121-1137	3.9	293

40	The impact of snowmelt on the late Cenozoic landscape of the southern Rocky Mountains, USA. <i>Geology</i> , 2001 , 29, 235	5	36
39	Kerguelen Plateau crustal structure and basin formation from seismic and gravity data. <i>Journal of Geophysical Research</i> , 2001 , 106, 16583-16601		17
38	Large igneous provinces: Progenitors of some ophiolites? 2001 ,		19
37	Origin and evolution of a submarine large igneous province: the Kerguelen Plateau and Broken Ridge, southern Indian Ocean. <i>Earth and Planetary Science Letters</i> , 2000 , 176, 73-89	5.3	156
36	Neotectonics of the Macquarie Ridge Complex, Australia-Pacific plate boundary. <i>Journal of Geophysical Research</i> , 2000 , 105, 13457-13480		53
35	Large Igneous Provinces and Plate Tectonics. <i>Geophysical Monograph Series</i> , 2000 , 309-326	1.1	58
34	Sequence stratigraphy, structure, and tectonic history of the southwestern Ontong Java Plateau adjacent to the North Solomon Trench and Solomon Islands Arc. <i>Journal of Geophysical Research</i> , 1999 , 104, 20449-20466		39
33	Looking ahead to the future of marine reflection seismology. <i>Eos</i> , 1998 , 79, 614-614	1.5	
32	Early development of the southern Kerguelen Plateau (Indian Ocean) from shallow wide-angle ocean bottom seismometer and multichannel seismic reflection data. <i>Journal of Geophysical Research</i> , 1998 , 103, 24085-24108		8
31	Sedimentary regimes at the Macquarie Ridge Complex: Interaction of Southern Ocean circulation and plate boundary bathymetry. <i>Paleoceanography</i> , 1998 , 13, 646-670		19
30	Crustal structure of the Ontong Java Plateau: Modeling of new gravity and existing seismic data. <i>Journal of Geophysical Research</i> , 1997 , 102, 22711-22729		118
29	Constraints on Macquarie Ridge tectonics provided by Harvard focal mechanisms and teleseismic earthquake locations. <i>Journal of Geophysical Research</i> , 1997 , 102, 5029-5041		32
28	From strike-slip faulting to oblique subduction: A survey of the Alpine Fault-Puysegur Trench transition, New Zealand, results of cruise Geodyn-sud leg 2. <i>Marine Geophysical Researches</i> , 1996 , 18, 383-399	2.3	42
27	Morphostructure of an incipient subduction zone along a transform plate boundary: Puysegur Ridge and Trench. <i>Geology</i> , 1995 , 23, 519	5	41
26	Timing of hot spot--related volcanism and the breakup of madagascar and India. <i>Science</i> , 1995 , 267, 852-853	3.3	518
25	Ontong Java and Kerguelen Plateaux: Cretaceous Iceland?. <i>Journal of the Geological Society</i> , 1995 , 152, 1047-1052	2.7	31
24	Seaward-dipping reflectors offshore the southeastern United States: Seismic evidence for extensive volcanism accompanying sequential formation of the Carolina trough and Blake Plateau basin. <i>Geology</i> , 1995 , 23, 9	5	34
23	Large igneous provinces: Crustal structure, dimensions, and external consequences. <i>Reviews of Geophysics</i> , 1994 , 32, 1	23.1	1051

22	Research cruise yields new details of Macquarie ridge complex. <i>Eos</i> , 1994 , 75, 561	1.5	11
21	Structure and tectonic setting of the 77°E and 75°E Grabens, Kerguelen Plateau, South Indian Ocean. <i>Journal of Geophysical Research</i> , 1993 , 98, 6367-6382		8
20	Scratching the surface: Estimating dimensions of large igneous provinces. <i>Geology</i> , 1993 , 21, 515	5	133
19	Large Igneous Provinces. <i>Scientific American</i> , 1993 , 269, 42-49	0.5	39
18	Volcanism and continental break-up: a global compilation of large igneous provinces. <i>Geological Society Special Publication</i> , 1992 , 68, 17-30	1.7	58
17	Large igneous provinces studied. <i>Eos</i> , 1992 , 73, 66-66	1.5	3
16	Structure and tectonic history of the Southern Kerguelen Plateau (Indian Ocean) deduced from seismic reflection data. <i>Tectonics</i> , 1992 , 11, 1332-1347	4.3	18
15	The Mesozoic East African and Madagascan Conjugate Continental Margins Stratigraphy and Tectonics 1992 ,		8
14	Seismic stratigraphy of the Raggatt Basin, southern Kerguelen Plateau: Tectonic and paleoceanographic implications. <i>Bulletin of the Geological Society of America</i> , 1990 , 102, 563-579	3.9	24
13	Design and operation of a deep seismic survey in the Tasman Sea Basin. <i>Tectonophysics</i> , 1990 , 173, 129-140		40
12	Seismic stratigraphy and evolution of the Raggatt Basin, southern Kerguelen Plateau. <i>Marine and Petroleum Geology</i> , 1988 , 5, 75-81	4.7	17
11	Reconstruction of Madagascar and Africa: Evidence from the Davie Fracture Zone and Western Somali Basin. <i>Journal of Geophysical Research</i> , 1987 , 92, 9385		136
10	Structure of the Kerguelen Plateau province from Seasat altimetry and seismic reflection data. <i>Nature</i> , 1986 , 324, 134-136	50.4	45
9	Crustal structure in the Western Somali Basin. <i>Geophysical Journal International</i> , 1986 , 86, 331-369	2.6	35
8	New findings from the Kerguelen Plateau. <i>Geology</i> , 1986 , 14, 589	5	31
7	The separation of madagascar and Africa. <i>Science</i> , 1983 , 220, 67-9	33.3	478
6	Salt diapirs bordering the continental margin of northern kenya and southern somalia. <i>Science</i> , 1982 , 215, 663-5	33.3	21
5	A Multichannel Seismic Transect of the Somalian Continental Margin 1982 ,		3

4	Topographic expression of the Danger Islands Troughs and implications for the tectonic evolution of the Manihiki Plateau, western equatorial Pacific Ocean. <i>Special Paper of the Geological Society of America</i> ,195-220	5
3	COBBOOM: The Continental Breakup and Birth of Oceans Mission. <i>Scientific Drilling</i> ,5, 13-25	17
2	Investigating Large Igneous Province Formation and Associated Paleoenvironmental Events: A White Paper for Scientific Drilling. <i>Scientific Drilling</i> ,6, 4-18	14
1	Developing community-based scientific priorities and new drilling proposals in the southern Indian and southwestern Pacific oceans. <i>Scientific Drilling</i> ,24, 61-70	2