

# Millard F. Coffin

## List of Publications by Citations

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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	Large igneous provinces: Crustal structure, dimensions, and external consequences. <i>Reviews of Geophysics</i> , <b>1994</b> , 32, 1	23.1	1051
92	Timing of hot spot--related volcanism and the breakup of madagascar and India. <i>Science</i> , <b>1995</b> , 267, 852-53	33.3	518
91	The separation of madagascar and Africa. <i>Science</i> , <b>1983</b> , 220, 67-9	33.3	478
90	Kerguelen Hotspot Magma Output since 130 Ma. <i>Journal of Petrology</i> , <b>2002</b> , 43, 1121-1137	3.9	293
89	The Development of Paleoseaways Around Antarctica. <i>Antarctic Research Series</i> , <b>2013</b> , 7-30		256
88	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> , <b>2000</b> , 176, 73-89	5.3	156
87	The North Atlantic Igneous Province. <i>Geophysical Monograph Series</i> , <b>2013</b> , 45-93	1.1	151
86	Reconstruction of Madagascar and Africa: Evidence from the Davie Fracture Zone and Western Somali Basin. <i>Journal of Geophysical Research</i> , <b>1987</b> , 92, 9385		136
85	Scratching the surface: Estimating dimensions of large igneous provinces. <i>Geology</i> , <b>1993</b> , 21, 515	5	133
84	Contemporaneous massive subaerial volcanism and late cretaceous Oceanic Anoxic Event 2. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 256, 211-223	5.3	129
83	Crustal structure of the Ontong Java Plateau: Modeling of new gravity and existing seismic data. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 22711-22729		118
82	Impact origin for the greater Ontong Java Plateau?. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 218, 123-134	3.9	111
81	The rise and fall of the Cretaceous Hot Greenhouse climate. <i>Global and Planetary Change</i> , <b>2018</b> , 167, 1-23	4.2	107
80	Giant Radiating Dyke Swarms: Their Use in Identifying Pre-Mesozoic Large Igneous Provinces and Mantle Plumes. <i>Geophysical Monograph Series</i> , <b>2013</b> , 297-333	1.1	84
79	Age and geochemistry of the oceanic Manihiki Plateau, SW Pacific: New evidence for a plume origin. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 304, 135-146	5.3	68
78	The Ontong Java Plateau. <i>Geophysical Monograph Series</i> , <b>2013</b> , 183-216	1.1	58
77	Large Igneous Provinces and Plate Tectonics. <i>Geophysical Monograph Series</i> , <b>2000</b> , 309-326	1.1	58

76	Volcanism and continental break-up: a global compilation of large igneous provinces. <i>Geological Society Special Publication</i> , <b>1992</b> , 68, 17-30	1.7	58
75	Large Igneous Provinces and Scientific Ocean Drilling: Status Quo and A Look Ahead. <i>Oceanography</i> , <b>2006</b> , 19, 150-160	2.3	56
74	Neotectonics of the Macquarie Ridge Complex, Australia-Pacific plate boundary. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 13457-13480		53
73	Naturaliste Plateau, offshore Western Australia: A submarine window into Gondwana assembly and breakup. <i>Geology</i> , <b>2008</b> , 36, 807	5	48
72	Structure and development of a microcontinent: Elan Bank in the southern Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4, n/a-n/a	3.6	48
71	Depleted mantle wedge and sediment fingerprint in unusual basalts from the Manihiki Plateau, central Pacific Ocean. <i>Geology</i> , <b>2007</b> , 35, 595	5	45
70	Structure of the Kerguelen Plateau province from Seasat altimetry and seismic reflection data. <i>Nature</i> , <b>1986</b> , 324, 134-136	50.4	45
69	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> , <b>2011</b> , 307, 126-134	5.3	43
68	Origin and Evolution of the Kerguelen Plateau, Broken Ridge and Kerguelen Archipelago: Editorial. <i>Journal of Petrology</i> , <b>2002</b> , 43, 1105-1108	3.9	43
67	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> , <b>1996</b> , 18, 383-399	2.3	42
66	Morphostructure of an incipient subduction zone along a transform plate boundary: Puysegur Ridge and Trench. <i>Geology</i> , <b>1995</b> , 23, 519	5	41
65	Sequence stratigraphy, structural style, and age of deformation of the Malaita accretionary prism (Solomon arc-Ontong Java Plateau convergent zone). <i>Tectonophysics</i> , <b>2004</b> , 389, 221-246	3.1	40
64	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> , <b>1999</b> , 104, 20449-20466		39
63	Large Igneous Provinces. <i>Scientific American</i> , <b>1993</b> , 269, 42-49	0.5	39
62	Rajmahal Basalts, Eastern India: Mantle Sources and Melt Distribution at a Volcanic Rifted Margin. <i>Geophysical Monograph Series</i> , <b>2013</b> , 145-182	1.1	36
61	The Caribbean-Colombian Cretaceous Igneous Province: The Internal Anatomy of an Oceanic Plateau. <i>Geophysical Monograph Series</i> , <b>2013</b> , 123-144	1.1	36
60	The impact of snowmelt on the late Cenozoic landscape of the southern Rocky Mountains, USA. <i>Geology</i> , <b>2001</b> , 29, 235	5	36
59	Crustal structure in the Western Somali Basin. <i>Geophysical Journal International</i> , <b>1986</b> , 86, 331-369	2.6	35

58	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> , <b>1995</b> , 23, 9	5	34
57	Anomalous uplift and subsidence of the Ontong Java Plateau inferred from CO2 contents of submarine basaltic glasses. <i>Geology</i> , <b>2005</b> , 33, 501	5	33
56	Cretaceous Basalts in Madagascar and the Transition Between Plume and Continental Lithosphere Mantle Sources. <i>Geophysical Monograph Series</i> , <b>2013</b> , 95-122	1.1	32
55	Constraints on Macquarie Ridge tectonics provided by Harvard focal mechanisms and teleseismic earthquake locations. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 5029-5041		32
54	Ontong Java and Kerguelen Plateaux: Cretaceous Iceland?. <i>Journal of the Geological Society</i> , <b>1995</b> , 152, 1047-1052	2.7	31
53	New findings from the Kerguelen Plateau. <i>Geology</i> , <b>1986</b> , 14, 589	5	31
52	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> , <b>2004</b> , 389, 267-307	3.1	28
51	Underthrusting at the Hjort Trench, Australian-Pacific plate boundary: Incipient subduction?. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4,	3.6	26
50	Rootless serpentinite seamount on the southern Izu-Bonin forearc: Implications for basal erosion at convergent plate margins. <i>Geology</i> , <b>2004</b> , 32, 541	5	25
49	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> , <b>2017</b> , 64, 851-869	1.4	24
48	Seismic stratigraphy of the Raggatt Basin, southern Kerguelen Plateau: Tectonic and paleoceanographic implications. <i>Bulletin of the Geological Society of America</i> , <b>1990</b> , 102, 563-579	3.9	24
47	Large Igneous Provinces: A Planetary Perspective. <i>Geophysical Monograph Series</i> , <b>2013</b> , 411-438	1.1	23
46	Salt diapirs bordering the continental margin of northern Kenya and southern Somalia. <i>Science</i> , <b>1982</b> , 215, 663-5	33.3	21
45	Emplacement and Subsidence of Indian Ocean Plateaus and Submarine Ridges. <i>Geophysical Monograph Series</i> , <b>2013</b> , 115-125	1.1	20
44	Intrabasement reflections of the Ontong Java Plateau: Implications for plateau construction. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	20
43	Large igneous provinces: Progenitors of some ophiolites? <b>2001</b> ,		19
42	Sedimentary regimes at the Macquarie Ridge Complex: Interaction of Southern Ocean circulation and plate boundary bathymetry. <i>Paleoceanography</i> , <b>1998</b> , 13, 646-670		19
41	Structure and tectonic history of the Southern Kerguelen Plateau (Indian Ocean) deduced from seismic reflection data. <i>Tectonics</i> , <b>1992</b> , 11, 1332-1347	4.3	18

40	Kerguelen Plateau crustal structure and basin formation from seismic and gravity data. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 16583-16601		17
39	Seismic stratigraphy and evolution of the Raggatt Basin, southern Kerguelen Plateau. <i>Marine and Petroleum Geology</i> , <b>1988</b> , 5, 75-81	4.7	17
38	COBBOOM: The Continental Breakup and Birth of Oceans Mission. <i>Scientific Drilling</i> , 5, 13-25		17
37	Malaysia Airlines flight MH370 search data reveal geomorphology and seafloor processes in the remote southeast Indian Ocean. <i>Marine Geology</i> , <b>2018</b> , 395, 301-319	3.3	17
36	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> , <b>2005</b> , 6, n/a-n/a	3.6	16
35	Macquarie Island's Finch-Langdon fault: A ridge-transform inside-corner structure. <i>Geology</i> , <b>2003</b> , 31, 661	5	15
34	Appendix 1 : Indian Ocean Plate Reconstructions Since the Late Jurassic. <i>Geophysical Monograph Series</i> , <b>2013</b> , 471-475	1.1	14
33	Extension along the Australian-Pacific transpressional transform plate boundary near Macquarie Island. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4, n/a-n/a	3.6	14
32	Investigating Large Igneous Province Formation and Associated Paleoenvironmental Events: A White Paper for Scientific Drilling. <i>Scientific Drilling</i> , 6, 4-18		14
31	Oceanic crust and Moho of the Pacific Plate in the eastern Ogasawara Plateau region. <i>Island Arc</i> , <b>2007</b> , 16, 361-373	2	12
30	Massive Early Cretaceous volcanic activity in the Nauru Basin related to emplacement of the Ontong Java Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2005</b> , 6, n/a-n/a	3.6	12
29	Research cruise yields new details of Macquarie ridge complex. <i>Eos</i> , <b>1994</b> , 75, 561	1.5	11
28	Erosional and depositional processes on the submarine flanks of Ontong Java and Nukumanu atolls, western equatorial Pacific Ocean. <i>Marine Geology</i> , <b>2017</b> , 392, 122-139	3.3	10
27	Contributions of Scientific Ocean Drilling to Understanding the Emplacement of Submarine Large Igneous Provinces and Their Effects on the Environment. <i>Oceanography</i> , <b>2019</b> , 32, 176-192	2.3	9
26	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> , <b>2005</b> , 117, 18	3.9	9
25	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> , <b>1998</b> , 103, 24085-24108		8
24	Structure and tectonic setting of the 77°E and 75°E Grabens, Kerguelen Plateau, South Indian Ocean. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 6367-6382		8
23	The Mesozoic East African and Madagascan Conjugate Continental Margins Stratigraphy and Tectonics <b>1992</b> ,		8

22	Large Igneous Provinces and Flood Basalt Volcanism <b>2015</b> , 441-455		6
21	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
20	Widespread Neogene volcanism on Central Kerguelen Plateau, Southern Indian Ocean. <i>Australian Journal of Earth Sciences</i> , <b>2016</b> , 63, 379-392	1.4	5
19	Deep Seismic Investigation of the Ontong Java Plateau. <i>Eos</i> , <b>2011</b> , 92, 61-62	1.5	3
18	Large igneous provinces studied. <i>Eos</i> , <b>1992</b> , 73, 66-66	1.5	3
17	A Multichannel Seismic Transect of the Somalian Continental Margin <b>1982</b> ,		3
16	Large earthquake strikes Hokkaido, Japan. <i>Eos</i> , <b>2003</b> , 84, 442	1.5	2
15	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
14	Determining Scientific Projects for the Deep-Sea Drilling Vessel Chikyu. <i>Eos</i> , <b>2013</b> , 94, 256-256	1.5	1
13	Australian developments in marine science. <i>Eos</i> , <b>2012</b> , 93, 289-290	1.5	1
12	Continental breakup and sedimentary basin formation. <i>Eos</i> , <b>2006</b> , 87, 528	1.5	1
11	Shallow Seafloor Gas emissions Near Heard and McDonald Islands on the Kerguelen Plateau, Southern Indian Ocean. <i>Earth and Space Science</i> , <b>2020</b> , 7, e2019EA000695	3.1	1
10	Large Igneous Provinces <b>2019</b> , 337-345		
9	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> , <b>2008</b> , 175, 1321-1321	2.6	
8	Large igneous provinces. <i>Eos</i> , <b>2007</b> , 88, 505-505	1.5	
7	Depleted mantle wedge and sediment fingerprint in unusual basalts from the Manihiki plateau, central Pacific Ocean: Comment and Reply: REPLY. <i>Geology</i> , <b>2007</b> , 35, e165-e165	5	
6	Expeditions to drill Atlantic, Gulf of Mexico, and Pacific sites. <i>Eos</i> , <b>2005</b> , 86, 151	1.5	
5	Expeditions to drill Pacific, Arctic, and Atlantic sites. <i>Eos</i> , <b>2004</b> , 85, 13-18	1.5	

- 4 Looking ahead to the future of marine reflection seismology. *Eos*, **1998**, 79, 614-614 1.5
- 3 Design and operation of a deep seismic survey in the Tasman Sea Basin. *Tectonophysics*, **1990**, 173, 129-140
- 2 Volcanism and Climate **2014**, 1-7
- 1 Submarine sedimentary bedforms and benthos surrounding the Heard and McDonald Islands World Heritage site **2020**, 705-720