

Wayne C Crawford

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,777
citations

201658

27
h-index

182417

51
g-index

62
all docs

62
docs citations

62
times ranked

2554
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of a magma chamber and faults beneath a Mid-Atlantic Ridge hydrothermal field. <i>Nature</i> , 2006, 442, 1029-1032.	27.8	248
2	An Automatic Kurtosis-Based P- and S-Phase Picker Designed for Local Seismic Networks. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 394-409.	2.3	171
3	Infragravity waves: From driving mechanisms to impacts. <i>Earth-Science Reviews</i> , 2018, 177, 774-799.	9.1	165
4	Identifying and Removing Tilt Noise from Low-Frequency (<0.1 Hz) Seafloor Vertical Seismic Data. <i>Bulletin of the Seismological Society of America</i> , 2000, 90, 952-963.	2.3	154
5	Infragravity waves in the deep ocean. <i>Journal of Geophysical Research</i> , 1991, 96, 2723-2736.	3.3	139
6	The AlpArray Seismic Network: A Large-Scale European Experiment to Image the Alpine Orogen. <i>Surveys in Geophysics</i> , 2018, 39, 1009-1033.	4.6	138
7	Variations in the distribution of magma in the lower crust and at the Moho beneath the East Pacific Rise at 9°-10°N. <i>Earth and Planetary Science Letters</i> , 2002, 203, 117-130.	4.4	122
8	Constraints on melt in the lower crust and Moho at the East Pacific Rise, 9°48'N, using seafloor compliance measurements. <i>Journal of Geophysical Research</i> , 1999, 104, 2923-2939.	3.3	109
9	Seafloor compliance observed by long-period pressure and displacement measurements. <i>Journal of Geophysical Research</i> , 1991, 96, 16151-16160.	3.3	105
10	Automated identification, location, and volume estimation of rockfalls at Piton de la Fournaise volcano. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1082-1105.	2.8	94
11	Tonga Ridge and Lau Basin crustal structure from seismic refraction data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	93
12	Comparing the role of absolute sea-level rise and vertical tectonic motions in coastal flooding, Torres Islands (Vanuatu). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13019-13022.	7.1	78
13	Long-period seafloor seismology and deformation under ocean waves. <i>Bulletin of the Seismological Society of America</i> , 1999, 89, 1535-1542.	2.3	72
14	Temporal variability and tidal modulation of hydrothermal exit fluid temperatures at the Lucky Strike deep-sea vent field, Mid-Atlantic Ridge. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2543-2566.	3.4	69
15	Estimating shear velocities in the oceanic crust from compliance measurements by two-dimensional finite difference modeling. <i>Journal of Geophysical Research</i> , 1998, 103, 9895-9916.	3.3	62
16	Birth of a large volcanic edifice offshore Mayotte via lithosphere-scale dyke intrusion. <i>Nature Geoscience</i> , 2021, 14, 787-795.	12.9	59
17	Performance report of the RHUM-RUM ocean bottom seismometer network around La Réunion, western Indian Ocean. <i>Advances in Geosciences</i> , 0, 41, 43-63.	12.0	55
18	Strong seismic heterogeneity in layer 2A near hydrothermal vents at the Mid-Atlantic Ridge. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	49

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19	A new sea-floor gravimeter. <i>Geophysics</i> , 2003, 68, 544-553.	2.6	48
20	Shallow-Water Broadband OBS Seismology. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 1770-1778.	2.3	43
21	Crustal velocity structure of the Lucky Strike segment of the Mid-Atlantic Ridge at 37°N from seismic refraction measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	37
22	Fine-scale velocity structure of upper oceanic crust from full waveform inversion of downward continued seismic reflection data at the Lucky Strike Volcano, Mid-Atlantic Ridge. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	36
23	The 2004-2005 Les Saintes (French West Indies) seismic aftershock sequence observed with ocean bottom seismometers. <i>Tectonophysics</i> , 2010, 489, 91-103.	2.2	34
24	Orienting ocean-bottom seismometers from <i>P</i> -wave and Rayleigh wave polarizations. <i>Geophysical Journal International</i> , 2017, 208, 1277-1289.	2.4	34
25	Infragravity waves across the oceans. <i>Geophysical Research Letters</i> , 2014, 41, 7957-7963.	4.0	32
26	Nature of upper crust beneath the Lucky Strike volcano using elastic full waveform inversion of streamer data. <i>Geophysical Journal International</i> , 2014, 196, 1471-1491.	2.4	32
27	Analysis of "background" free oscillations and how to improve resolution by subtracting the atmospheric pressure signal. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 121, 325-338.	1.9	31
28	Acoustic Ray Tracing Comparisons in the Context of Geodetic Precise off-shore Positioning Experiments. <i>Marine Geodesy</i> , 2018, 41, 315-330.	2.0	31
29	Upper crustal velocity structure beneath the central Lucky Strike Segment from seismic refraction measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	27
30	Hydrothermal seismicity beneath the summit of Lucky Strike volcano, Mid-Atlantic Ridge. <i>Earth and Planetary Science Letters</i> , 2013, 373, 118-128.	4.4	27
31	A Second Look at Low-Frequency Marine Vertical Seismometer Data Quality at the OSN-1 Site off Hawaii for Seafloor, Buried, and Borehole Emplacements. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, 1952-1960.	2.3	24
32	Constraints on the shallow velocity structure of the Lucky Strike Volcano, Mid-Atlantic Ridge, from downward continued multichannel streamer data. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1119-1144.	3.4	24
33	Three-dimensional geometry of axial magma chamber roof and faults at Lucky Strike volcano on the Mid-Atlantic Ridge. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5379-5400.	3.4	23
34	Spatial distribution and temporal evolution of crustal melt distribution beneath the East Pacific Rise at 9°-10°N inferred from 3-D seafloor compliance modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4517-4537.	3.4	22
35	First Observation of the Earth's Permanent Free Oscillations on Ocean Bottom Seismometers. <i>Geophysical Research Letters</i> , 2017, 44, 10,988.	4.0	21
36	MOISE: A Prototype Multiparameter Ocean-Bottom Station. <i>Bulletin of the Seismological Society of America</i> , 2001, 91, 885-892.	2.3	20

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37	The sensitivity of seafloor compliance measurements to sub-basalt sediments. <i>Geophysical Journal International</i> , 2004, 157, 1130-1145.	2.4	20
38	Seismological constraints on the thermal structure along the Lucky Strike segment (Mid-Atlantic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Geophysical Researches</i> , 2009, 30, 105-120.	1.2	20
39	Seismic layer 2A variations in the Lucky Strike segment at the Mid-Atlantic Ridge from reflection measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
40	The sources of deep ocean infragravity waves observed in the North Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5120-5133.	2.6	18
41	A new 1D velocity model and absolute locations image the Mayotte seismo-volcanic region. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 421, 107440.	2.1	17
42	Along-axis hydrothermal flow at the axis of slow spreading Mid-Ocean Ridges: Insights from numerical models of the Lucky Strike vent field (MAR). <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2918-2931.	2.5	15
43	Seismicity and shallow slab geometry in the central Vanuatu subduction zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5606-5623.	3.4	15
44	Crustal resistivity structure at 9°50'N on the East Pacific Rise: Results of an electromagnetic survey. <i>Geophysical Research Letters</i> , 2002, 29, 6-1-6-4.	4.0	14
45	Local seismicity following the 1998 eruption of Axial Volcano. <i>Geophysical Research Letters</i> , 1999, 26, 3433-3436.	4.0	13
46	Tracking subducted ridges through intermediate-depth seismicity in the Vanuatu subduction zone. <i>Geology</i> , 2018, 46, 767-770.	4.4	12
47	Shear wave splitting in the Alpine region. <i>Geophysical Journal International</i> , 2021, 227, 1996-2015.	2.4	12
48	Crustal structure, magma chamber, and faulting beneath the Lucky Strike Hydrothermal Vent Field. <i>Geophysical Monograph Series</i> , 2010, , 113-132.	0.1	11
49	Sediment shear properties from seafloor compliance measurements: Faroes-Shetland basin case study. <i>Geophysical Prospecting</i> , 2008, 56, 313-325.	1.9	9
50	Faulting and hydration of the upper crust of the SW Okinawa Trough during continental rifting: Evidence from seafloor compliance inversion. <i>Geophysical Research Letters</i> , 2015, 42, 4809-4815.	4.0	9
51	RÃ%SIF-SI: A Distributed Information System for French Seismological Data. <i>Seismological Research Letters</i> , 2021, 92, 1832-1853.	1.9	9
52	Shear wave structure from joint analysis of seismic and seafloor compliance data. <i>Geophysical Journal International</i> , 2003, 155, 514-520.	2.4	7
53	Using altimetry and seafloor pressure data to estimate vertical deformation offshore: Vanuatu case study. <i>Advances in Space Research</i> , 2013, 51, 1335-1351.	2.6	7
54	The sensitivity of seafloor compliance to two-dimensional low-velocity anomalies. <i>Geophysical Journal International</i> , 2005, 163, 547-558.	2.4	6

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55	Two-dimensional finite-difference model of seafloor compliance. Geophysical Journal International, 2008, 174, 525-541.	2.4	4
56	Continuous evolution of oceanic crustal structure following an eruption at Axial Seamount, Juan de Fuca Ridge. Geology, 2020, 48, 452-456.	4.4	3
57	Basin inversion: reactivated rift structures in the central Ligurian Sea revealed using ocean bottom seismometers. Solid Earth, 2021, 12, 2553-2571.	2.8	3
58	Ambient Noise Tomography of the Ligurian-Provence Basin Using the AlpArray Onshore-Offshore Network: Insights for the Oceanic Domain Structure. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	3
59	The 3D Velocity Models and Seismicity Highlight Forearc Deformation Due to Subducting Features (Central Vanuatu). Journal of Geophysical Research: Solid Earth, 2019, 124, 5754-5769.	3.4	2
60	Geophysical ocean bottom observatories or temporary portable networks?. Developments in Marine Technology, 2002, , 59-81.	0.5	2
61	Ocean-Bottom Seismometer. , 2015, , 1735-1748.		0