

Robert A Dunn

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,610
citations

361413

20
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

1439
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional seismic structure and physical properties of the crust and shallow mantle beneath the East Pacific Rise at 9°30'N. <i>Journal of Geophysical Research</i> , 2000, 105, 23537-23555.	3.3	288
2	The Predictive Accuracy of Shoreline Change Rate Methods and Alongshore Beach Variation on Maui, Hawaii. <i>Journal of Coastal Research</i> , 2007, 231, 87-105.	0.3	187
3	Three-dimensional seismic structure of the Mid-Atlantic Ridge (35°N): Evidence for focused melt supply and lower crustal dike injection. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	119
4	Skew of mantle upwelling beneath the East Pacific Rise governs segmentation. <i>Nature</i> , 2007, 446, 409-414.	27.8	110
5	Seismological evidence for three-dimensional melt migration beneath the East Pacific Rise. <i>Nature</i> , 1997, 388, 259-262.	27.8	95
6	A numerical model of hydrothermal cooling and crustal accretion at a fast spreading mid-ocean ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	72
7	Imaging the transition between the region of mantle melt generation and the crustal magma chamber beneath the southern East Pacific Rise with short-period Love waves. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	64
8	Contrasting crustal production and rapid mantle transitions beneath back-arc ridges. <i>Nature</i> , 2011, 469, 198-202.	27.8	61
9	Crack-induced seismic anisotropy in the oceanic crust across the East Pacific Rise (9°30'N). <i>Earth and Planetary Science Letters</i> , 2001, 189, 9-17.	4.4	53
10	Continuous Mantle Melt Supply Beneath an Overlapping Spreading Center on the East Pacific Rise. <i>Science</i> , 2001, 291, 1955-1958.	12.6	48
11	Seismic imaging of magma sills beneath an ultramafic-hosted hydrothermal system. <i>Geology</i> , 2017, 45, 451-454.	4.4	42
12	Seismic evidence of effects of water on melt transport in the Lau back-arc mantle. <i>Nature</i> , 2015, 518, 395-398.	27.8	39
13	Surface wave tomography of the upper mantle beneath the Reykjanes Ridge with implications for ridge-hot spot interaction. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
14	Tracking blue whales in the eastern tropical Pacific with an ocean-bottom seismometer and hydrophone array. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 1084-1094.	1.1	35
15	Seismological study of Lau back arc crust: Mantle water, magmatic differentiation, and a compositionally zoned basin. <i>Earth and Planetary Science Letters</i> , 2014, 390, 304-317.	4.4	34
16	Three-Dimensional Seismic Structure of the Mid-Atlantic Ridge: An Investigation of Tectonic, Magmatic, and Hydrothermal Processes in the Rainbow Area. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9580-9602.	3.4	34
17	Evaluating hot spot-ridge interaction in the Atlantic from regional-scale seismic observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	26
18	Seismological imaging of ridge-arc interaction beneath the Eastern Lau Spreading Center from OBS ambient noise tomography. <i>Earth and Planetary Science Letters</i> , 2014, 408, 194-206.	4.4	25

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19	Crustal construction and magma chamber properties along the Eastern Lau Spreading Center. <i>Earth and Planetary Science Letters</i> , 2013, 371-372, 112-124.	4.4	23
20	Heterogeneous and asymmetric crustal accretion: New constraints from multibeam bathymetry and potential field data from the Rainbow area of the Mid-Atlantic Ridge (36°15'N). <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2994-3014.	2.5	21
21	Seismic anisotropy and shear wave splitting associated with mantle plume-plate interaction. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4923-4937.	3.4	19
22	Petrogenesis and structure of oceanic crust in the Lau back-arc basin. <i>Earth and Planetary Science Letters</i> , 2015, 429, 128-138.	4.4	18
23	Evaluation of Shipboard and Satellite-Derived Bathymetry and Gravity Data Over Seamounts in the Northwest Pacific Ocean. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020396.	3.4	18
24	Local Seismicity of the Rainbow Massif on the Mid-Atlantic Ridge. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1615-1630.	3.4	17
25	Building Domain-Specific Environments for Computational Science: a Case Study in Seismic Tomography. <i>International Journal of High Performance Computing Applications</i> , 1997, 11, 179-196.	1.5	16
26	Low frequency baleen whale calls detected on ocean-bottom seismometers in the Lau basin, southwest Pacific Ocean. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 53-62.	1.1	15
27	Seismic shear wave structure of the uppermost mantle beneath the Mohs Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	13
28	Segment-scale variations in seafloor volcanic and tectonic processes from multibeam sonar imaging, Mid-Atlantic Ridge Rainbow region (35°45'N-36°35'N). <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3560-3579.	2.5	13
29	Seismic Structure, Gravity Anomalies and Flexure Along the Emperor Seamount Chain. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021109.	3.4	10
30	Crust and Lithospheric Structure of Seismic Structure of Mid-Ocean Ridges. , 2007, , 419-443.		10
31	Investigating seismic anisotropy beneath the Reykjanes Ridge using models of mantle flow, crystallographic evolution, and surface wave propagation. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3250-3267.	2.5	7
32	Tracking stress and hydrothermal activity along the Eastern Lau Spreading Center using seismic anisotropy. <i>Earth and Planetary Science Letters</i> , 2015, 410, 105-116.	4.4	7
33	A detailed comparison of repeated bathymetric surveys along a 300-km-long section of the southern East Pacific Rise. <i>Journal of Geophysical Research</i> , 2001, 106, 463-471.	3.3	6
34	Modeling the seismic signature of structural data from the Oman Ophiolite: Can a mantle diapir be detected beneath the East Pacific Rise?. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	5
35	The origin of shear wave splitting beneath Iceland. <i>Geophysical Journal International</i> , 2015, 201, 1297-1312.	2.4	5
36	A Seismic Tomography, Gravity, and Flexure Study of the Crust and Upper Mantle Structure of the Emperor Seamounts at Jimmu Guyot. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	5

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37	Toomey et al. reply. Nature, 2009, 458, E12-E13.	27.8	2
38	Uppermost crustal structure across the eastern Lau spreading center from P-to-S converted waves. Marine Geophysical Researches, 2020, 41, 1.	1.2	2
39	Ocean acoustic reverberation tomography. Journal of the Acoustical Society of America, 2015, 138, 3458-3469.	1.1	1