

Douglas A Wiens

List of Publications by Year in descending order

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204
papers

10,178
citations

25034

57
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48315

88
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215
all docs

215
docs citations

215
times ranked

5474
citing authors

#	ARTICLE	IF	CITATIONS
1	Tomography of the Source Area of the 1995 Kobe Earthquake: Evidence for Fluids at the Hypocenter?. Science, 1996, 274, 1891-1894.	12.6	328
2	Age dependence of oceanic intraplate seismicity and implications for lithospheric evolution. Journal of Geophysical Research, 1983, 88, 6455-6468.	3.3	320
3	Depth Extent of the Lau Back-Arc Spreading Center and Its Relation to Subduction Processes. Science, 1997, 278, 254-257.	12.6	290
4	Seismotectonics and relative plate motions in the Scotia Sea region. Journal of Geophysical Research, 1989, 94, 7293-7320.	3.3	257
5	A Complex Pattern of Mantle Flow in the Lau Backarc. Science, 2001, 292, 713-716.	12.6	248
6	A diffuse plate boundary model for Indian Ocean tectonics. Geophysical Research Letters, 1985, 12, 429-432.	4.0	205
7	Intraplate seismicity and stresses in young oceanic lithosphere. Journal of Geophysical Research, 1984, 89, 11442-11464.	3.3	189
8	Tsunami earthquakes: Slow thrust faulting events in the accretionary wedge. Journal of Geophysical Research, 1992, 97, 15321-15337.	3.3	158
9	Observed rapid bedrock uplift in Amundsen Sea Embayment promotes ice-sheet stability. Science, 2018, 360, 1335-1339.	12.6	147
10	Mechanisms and depths of Atlantic transform earthquakes. Journal of Geophysical Research, 1986, 91, 548-577.	3.3	144
11	Long-term eruptive activity at a submarine arc volcano. Nature, 2006, 441, 494-497.	27.8	141
12	Simultaneous teleseismic and geodetic observations of the stick-slip motion of an Antarctic ice stream. Nature, 2008, 453, 770-774.	27.8	141
13	Water input into the Mariana subduction zone estimated from ocean-bottom seismic data. Nature, 2018, 563, 389-392.	27.8	141
14	<i>S</i> -velocity model and inferred Moho topography beneath the Antarctic Plate from Rayleigh waves. Journal of Geophysical Research: Solid Earth, 2015, 120, 359-383.	3.4	139
15	Structure of the crust beneath Cameroon, West Africa, from the joint inversion of Rayleigh wave group velocities and receiver functions. Geophysical Journal International, 2010, 183, 1061-1076.	2.4	130
16	Temperature, lithosphere-asthenosphere boundary, and heat flux beneath the Antarctic Plate inferred from seismic velocities. Journal of Geophysical Research: Solid Earth, 2015, 120, 8720-8742.	3.4	129
17	The depth distribution of mantle anisotropy beneath the Tonga subduction zone. Earth and Planetary Science Letters, 1996, 142, 253-260.	4.4	115
18	The Seismic Structure and Dynamics of the Mantle Wedge. Annual Review of Earth and Planetary Sciences, 2008, 36, 421-455.	11.0	114

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19	Seismological constraints on the mechanism of deep earthquakes: temperature dependence of deep earthquake source properties. <i>Physics of the Earth and Planetary Interiors</i> , 2001, 127, 145-163.	1.9	111
20	Subduction seismicity and tectonics in the Lesser Antilles Arc. <i>Journal of Geophysical Research</i> , 1982, 87, 8642-8664.	3.3	109
21	On the decompression melting structure at volcanic arcs and back-arc spreading centers. <i>Geophysical Research Letters</i> , 2002, 29, 17-1-17-4.	4.0	109
22	Implications of oceanic intraplate seismicity for plate stresses, driving forces and rheology. <i>Tectonophysics</i> , 1985, 116, 143-162.	2.2	108
23	The crustal thickness of West Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 378-395.	3.4	103
24	Seismic attenuation tomography of the Tonga-Fiji region using phase pair methods. <i>Journal of Geophysical Research</i> , 1999, 104, 4795-4809.	3.3	101
25	Evidence for transformational faulting from a deep double seismic zone in Tonga. <i>Nature</i> , 1993, 364, 790-793.	27.8	96
26	Historical seismicity and implications for diffuse plate convergence in the northeast Indian Ocean. <i>Journal of Geophysical Research</i> , 1989, 94, 12301-12319.	3.3	95
27	Tonga Ridge and Lau Basin crustal structure from seismic refraction data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	93
28	Solid Earth change and the evolution of the Antarctic Ice Sheet. <i>Nature Communications</i> , 2019, 10, 503.	12.8	93
29	A test of alternative Caribbean Plate relative motion models. <i>Journal of Geophysical Research</i> , 1988, 93, 3041-3050.	3.3	91
30	Upper mantle structure beneath Cameroon from body wave tomography and the origin of the Cameroon Volcanic Line. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	90
31	A deep earthquake aftershock sequence and implications for the rupture mechanism of deep earthquakes. <i>Nature</i> , 1994, 372, 540-543.	27.8	84
32	Upper mantle structure of central and West Antarctica from array analysis of Rayleigh wave phase velocities. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1758-1775.	3.4	84
33	Seismic attenuation tomography of the Mariana subduction system: Implications for thermal structure, volatile distribution, and slow spreading dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	82
34	Complex mantle flow in the Mariana subduction system: evidence from shear wave splitting. <i>Geophysical Journal International</i> , 2007, 170, 371-386.	2.4	81
35	Tidal pacing, skipped slips and the slowdown of Whillans Ice Stream, Antarctica. <i>Journal of Glaciology</i> , 2014, 60, 795-807.	2.2	81
36	Mantle temperature variations beneath back-arc spreading centers inferred from seismology, petrology, and bathymetry. <i>Earth and Planetary Science Letters</i> , 2006, 248, 30-42.	4.4	80

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37	Plate tectonic models for Indian Ocean intraplate deformation. <i>Tectonophysics</i> , 1986, 132, 37-48.	2.2	79
38	The Crust and Upper Mantle Structure of Central and West Antarctica From Bayesian Inversion of Rayleigh Wave and Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7824-7849.	3.4	78
39	Imaging the Antarctic mantle using adaptively parameterized P-wave tomography: Evidence for heterogeneous structure beneath West Antarctica. <i>Earth and Planetary Science Letters</i> , 2014, 408, 66-78.	4.4	76
40	Effect of slab temperature on deep-earthquake aftershock productivity and magnitude-frequency relations. <i>Nature</i> , 1996, 384, 153-156.	27.8	74
41	Crustal structure of the Gamburtsev Mountains, East Antarctica, from S-wave receiver functions and Rayleigh wave phase velocities. <i>Earth and Planetary Science Letters</i> , 2010, 300, 395-401.	4.4	74
42	Crust and upper mantle structure of the Transantarctic Mountains and surrounding regions from receiver functions, surface waves, and gravity: Implications for uplift models. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	73
43	Depth determination for shallow teleseismic earthquakes: Methods and results. <i>Reviews of Geophysics</i> , 1986, 24, 806-832.	23.0	72
44	Nucleation and seismic tremor associated with the glacial earthquakes of Whillans Ice Stream, Antarctica. <i>Geophysical Research Letters</i> , 2013, 40, 312-315.	4.0	71
45	Reconciling mantle attenuation-temperature relationships from seismology, petrology, and laboratory measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3521-3542.	2.5	71
46	Anisotropy and Flow in Pacific Subduction Zone Back-arcs. <i>Pure and Applied Geophysics</i> , 1998, 151, 463-475.	1.9	70
47	Bathymetric effects on body waveforms from shallow subduction zone earthquakes and application to seismic processes in the Kurile Trench. <i>Journal of Geophysical Research</i> , 1989, 94, 2955-2972.	3.3	69
48	Combined Receiver-Function and Surface Wave Phase-Velocity Inversion Using a Niching Genetic Algorithm: Application to Patagonia. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 977-987.	2.3	69
49	The Flinn-Engdahl Regionalisation Scheme: The 1995 revision. <i>Physics of the Earth and Planetary Interiors</i> , 1996, 96, 223-297.	1.9	66
50	Motion of an Antarctic glacier by repeated tidally modulated earthquakes. <i>Nature Geoscience</i> , 2012, 5, 623-626.	12.9	66
51	Seismic structure beneath the Tonga arc and Lau back-arc basin determined from joint Vp, Vp/Vs tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	65
52	Remote triggering of deep earthquakes in the 2002 Tonga sequences. <i>Nature</i> , 2003, 424, 921-925.	27.8	63
53	Historical seismicity near Chagos: a complex deformation zone in the equatorial Indian Ocean. <i>Earth and Planetary Science Letters</i> , 1986, 76, 350-360.	4.4	61
54	P and S velocity structure of the upper mantle beneath the Transantarctic Mountains, East Antarctic craton, and Ross Sea from travel time tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	61

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55	Dynamics of stick-slip motion, Whillans Ice Stream, Antarctica. <i>Earth and Planetary Science Letters</i> , 2011, 305, 283-289.	4.4	60
56	An empirical relationship between seismic attenuation and velocity anomalies in the upper mantle. <i>Geophysical Research Letters</i> , 2000, 27, 601-604.	4.0	59
57	Seismic Structure of the Antarctic Upper Mantle Imaged with Adjoint Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, .	3.4	59
58	Effects of near source bathymetry on teleseismic P waveforms. <i>Geophysical Research Letters</i> , 1987, 14, 761-764.	4.0	57
59	The March 9, 1994 (Mw7.6), deep Tonga earthquake: Rupture outside the seismically active slab. <i>Journal of Geophysical Research</i> , 1997, 102, 15163-15182.	3.3	57
60	Influence of a West Antarctic mantle plume on ice sheet basal conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7127-7155.	3.4	57
61	Seismicity and tectonics of the South Shetland Islands and Bransfield Strait from a regional broadband seismograph deployment. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	56
62	Modeling the Tonga slab: Can travel time data resolve a metastable olivine wedge?. <i>Journal of Geophysical Research</i> , 1998, 103, 30079-30100.	3.3	55
63	Rayleigh wave phase velocity analysis of the Ross Sea, Transantarctic Mountains, and East Antarctica from a temporary seismograph array. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	55
64	Seismic detection of an active subglacial magmatic complex in Marie Byrd Land, Antarctica. <i>Nature Geoscience</i> , 2013, 6, 1031-1035.	12.9	55
65	Seismic and geodetic evidence for grounding-line control of Whillans Ice Stream stick-slip events. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 333-348.	2.8	55
66	State of stress before and after the 1994 Northridge Earthquake. <i>Geophysical Research Letters</i> , 1997, 24, 519-522.	4.0	54
67	Mantle transition zone thickness beneath Cameroon: evidence for an upper mantle origin for the Cameroon Volcanic Line. <i>Geophysical Journal International</i> , 2011, 187, 1146-1150.	2.4	54
68	A seismic transect across West Antarctica: Evidence for mantle thermal anomalies beneath the Bentley Subglacial Trench and the Marie Byrd Land Dome. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8439-8460.	3.4	54
69	Ross ice shelf vibrations. <i>Geophysical Research Letters</i> , 2015, 42, 7589-7597.	4.0	52
70	A Geothermal Heat Flux Map of Antarctica Empirically Constrained by Seismic Structure. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL086955.	4.0	51
71	Rayleigh wave constraints on the structure and tectonic history of the Gamburtsev Subglacial Mountains, East Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2138-2153.	3.4	50
72	The Seismic Noise Environment of Antarctica. <i>Seismological Research Letters</i> , 2015, 86, 89-100.	1.9	50

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73	The November 20,1960 Peru Tsunami Earthquake: Source mechanism of a slow event. <i>Geophysical Research Letters</i> , 1990, 17, 661-664.	4.0	49
74	Evidence from earthquakes for bookshelf faulting at large non-transform ridge offsets. <i>Nature</i> , 1993, 362, 235-237.	27.8	49
75	Rapid mantle flow beneath the Tonga volcanic arc. <i>Earth and Planetary Science Letters</i> , 2007, 264, 299-307.	4.4	49
76	Using S wave receiver functions to estimate crustal structure beneath ice sheets: An application to the Transantarctic Mountains and East Antarctic craton. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	49
77	Source characteristics of large deep earthquakes: Constraint on the faulting mechanism at great depths. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	48
78	Slab temperature controls on the Tonga double seismic zone and slab mantle dehydration. <i>Science Advances</i> , 2017, 3, e1601755.	10.3	48
79	Seismic evidence for widespread serpentinized forearc mantle along the Mariana convergence margin. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	47
80	Seismic rupture associated with subduction of the Cocos Ridge. <i>Tectonics</i> , 1987, 6, 757-774.	2.8	46
81	The 1994 Bolivia and Tonga events: Fundamentally different types of deep earthquakes?. <i>Geophysical Research Letters</i> , 1995, 22, 2245-2248.	4.0	45
82	Seasonal and Diurnal Variations in Long-Period Noise at SPREE Stations: The Influence of Soil Characteristics on Shallow Stations™ Performance. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 2433-2452.	2.3	45
83	Repeating Deep Earthquakes: Evidence for Fault Reactivation at Great Depth. <i>Science</i> , 2001, 293, 1463-1466.	12.6	44
84	Antarctic icequakes triggered by the 2010 Maule earthquake in Chile. <i>Nature Geoscience</i> , 2014, 7, 677-681.	12.9	44
85	Sea Level Fingerprints in a Region of Complex Earth Structure: The Case of WAIS. <i>Journal of Climate</i> , 2017, 30, 1881-1892.	3.2	44
86	Seismic evidence for lithospheric foundering beneath the southern Transantarctic Mountains, Antarctica. <i>Geology</i> , 2018, 46, 71-74.	4.4	44
87	Attenuation of Broadband P and S Waves in Tonga: Observations of Frequency Dependent Q. <i>Pure and Applied Geophysics</i> , 1998, 153, 345-375.	1.9	43
88	Radial upper mantle attenuation structure of inactive back arc basins from differential shear wave measurements. <i>Journal of Geophysical Research</i> , 1994, 99, 15469.	3.3	42
89	Lithospheric instability and the source of the Cameroon Volcanic Line: Evidence from Rayleigh wave phase velocity tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1708-1727.	3.4	42
90	Ice shelf structure derived from dispersion curve analysis of ambient seismic noise, Ross Ice Shelf, Antarctica. <i>Geophysical Journal International</i> , 2016, 205, 785-795.	2.4	40

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91	Shear velocity structure of the crust and upper mantle of Madagascar derived from surface wave tomography. <i>Earth and Planetary Science Letters</i> , 2017, 458, 405-417.	4.4	40
92	Upper mantle structure of the southwest Pacific from regional waveform inversion. <i>Journal of Geophysical Research</i> , 1997, 102, 27439-27451.	3.3	39
93	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
94	Faulting within the Pacific plate at the Mariana Trench: Implications for plate interface coupling and subduction of hydrous minerals. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 3076-3095.	3.4	38
95	The mantle transition zone beneath West Antarctica: Seismic evidence for hydration and thermal upwellings. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 40-58.	2.5	38
96	Attenuation structure beneath the Lau Back Arc Spreading Center from teleseismic <i>S</i> phases. <i>Geophysical Research Letters</i> , 1990, 17, 2117-2120.	4.0	36
97	Upper mantle thermal variations beneath the Transantarctic Mountains inferred from teleseismic <i>S</i> -wave attenuation. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	36
98	The relationship of intermediate- and deep-focus seismicity to the hydration and dehydration of subducting slabs. <i>Earth and Planetary Science Letters</i> , 2012, 349-350, 153-160.	4.4	36
99	Incoming plate faulting in the Northern and Western Pacific and implications for subduction zone water budgets. <i>Earth and Planetary Science Letters</i> , 2015, 414, 176-186.	4.4	36
100	Crustal and upper-mantle structure beneath ice-covered regions in Antarctica from <i>S</i> -wave receiver functions and implications for heat flow. <i>Geophysical Journal International</i> , 2016, 204, 1636-1648.	2.4	36
101	The Nazca-South America convergence rate and the recurrence of the Great 1960 Chilean Earthquake. <i>Geophysical Research Letters</i> , 1986, 13, 713-716.	4.0	35
102	Tilt recorded by a portable broadband seismograph: The 2003 eruption of Anatahan Volcano, Mariana Islands. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	35
103	Upper-mantle anisotropy beneath the Cameroon Volcanic Line and Congo Craton from shear wave splitting measurements. <i>Geophysical Journal International</i> , 2012, 190, 75-86.	2.4	35
104	Tsunami and infragravity waves impacting Antarctica ice shelves. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5786-5801.	2.6	35
105	A teleseismic shear-wave splitting study to investigate mantle flow around South America and implications for plate-driving forces. <i>Geophysical Journal International</i> , 2002, 149, F1-F7.	2.4	33
106	Distinct crustal structure of the North American Midcontinent Rift from <i>P</i> wave receiver functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8136-8153.	3.4	32
107	A double seismic zone in New Britain and the morphology of the Solomon Plate at intermediate depths. <i>Geophysical Research Letters</i> , 1995, 22, 1965-1968.	4.0	30
108	Seismological constraints on structure and flow patterns within the mantle wedge. <i>Geophysical Monograph Series</i> , 2003, , 59-81.	0.1	30

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109	Crustal and upper mantle S-wave velocity structure beneath the Bransfield Strait (West Antarctica) from regional surface wave tomography. <i>Tectonophysics</i> , 2005, 397, 241-259.	2.2	30
110	Intermediate-Depth Earthquakes Controlled by Incoming Plate Hydration Along Bending-Related Faults. <i>Geophysical Research Letters</i> , 2019, 46, 3688-3697.	4.0	30
111	Aftershocks of the March 9, 1994, Tonga earthquake: The strongest known deep aftershock sequence. <i>Journal of Geophysical Research</i> , 2000, 105, 19067-19083.	3.3	29
112	Upper mantle discontinuity structure in the region of the Tonga Subduction Zone. <i>Geophysical Research Letters</i> , 2001, 28, 1855-1858.	4.0	29
113	Evidence for bathymetric control on the distribution of body wave microseism sources from temporary seismic arrays in Africa. <i>Geophysical Journal International</i> , 2014, 197, 1869-1883.	2.4	29
114	<i>P</i> and <i>S</i> velocity tomography of the Mariana subduction system from a combined land-sea seismic deployment. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 681-704.	2.5	29
115	The uppermost mantle seismic velocity and viscosity structure of central West Antarctica. <i>Earth and Planetary Science Letters</i> , 2017, 472, 38-49.	4.4	29
116	Tidal and Thermal Stresses Drive Seismicity Along a Major Ross Ice Shelf Rift. <i>Geophysical Research Letters</i> , 2019, 46, 6644-6652.	4.0	29
117	Detailed structure and sharpness of upper mantle discontinuities in the Tonga subduction zone from regional broadband arrays. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	28
118	The Alaska Amphibious Community Seismic Experiment. <i>Seismological Research Letters</i> , 2020, 91, 3054-3063.	1.9	28
119	Upper mantle seismic anisotropy beneath the West Antarctic Rift System and surrounding region from shear wave splitting analysis. <i>Geophysical Journal International</i> , 2014, 198, 414-429.	2.4	27
120	P-wave attenuation structure of the Lau back-arc basin and implications for mantle wedge processes. <i>Earth and Planetary Science Letters</i> , 2018, 502, 187-199.	4.4	27
121	Crustal <i>V_p</i> - <i>V_s</i> ratios and thickness for Ross Island and the Transantarctic Mountain front, Antarctica. <i>Geophysical Journal International</i> , 2011, 185, 85-92.	2.4	26
122	Upper mantle seismic structure beneath central East Antarctica from body wave tomography: Implications for the origin of the Gamburtsev Subglacial Mountains. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 902-920.	2.5	25
123	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
124	Ross Ice Shelf Icequakes Associated With Ocean Gravity Wave Activity. <i>Geophysical Research Letters</i> , 2019, 46, 8893-8902.	4.0	25
125	Reactivation of ancient Antarctic rift zones by intraplate seismicity. <i>Nature Geoscience</i> , 2018, 11, 515-519.	12.9	24
126	The 1966 Kremasta reservoir earthquake sequence. <i>Earth and Planetary Science Letters</i> , 1982, 59, 49-60.	4.4	23

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127	Upper mantle shear wave velocity structure beneath northern Victoria Land, Antarctica: Volcanism and uplift in the northern Transantarctic Mountains. <i>Earth and Planetary Science Letters</i> , 2016, 449, 48-60.	4.4	23
128	Crustal structure of the Transantarctic Mountains, Ellsworth Mountains and Marie Byrd Land, Antarctica: constraints on shear wave velocities, Poisson's ratios and Moho depths. <i>Geophysical Journal International</i> , 2017, 211, 1328-1340.	2.4	23
129	Heterogeneous upper mantle structure beneath the Ross Sea Embayment and Marie Byrd Land, West Antarctica, revealed by P-wave tomography. <i>Earth and Planetary Science Letters</i> , 2019, 513, 40-50.	4.4	23
130	Crustal and upper mantle structure of southernmost South America inferred from regional waveform inversion. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	22
131	Earthquake evidence for along-arc extension in the Mariana Islands. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	22
132	Crustal structure of the Transantarctic Mountains near the Ross Sea from ambient seismic noise tomography. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
133	Rupture characteristics of the 1982 Tonga and 1986 Kermadec earthquakes. <i>Journal of Geophysical Research</i> , 1989, 94, 15521-15539.	3.3	21
134	Constraints on the origin of slab and mantle wedge anomalies in Tonga from the ratio of S_{to}/P velocities. <i>Journal of Geophysical Research</i> , 1999, 104, 15089-15104.	3.3	21
135	The waveguide effect of metastable olivine in slabs. <i>Geophysical Research Letters</i> , 2000, 27, 581-584.	4.0	21
136	Seismicity and tilt associated with the 2003 Anatahan eruption sequence. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 146, 60-76.	2.1	21
137	Upper mantle seismic anisotropy of South Victoria Land and the Ross Sea coast, Antarctica from SKS and SKKS splitting analysis. <i>Geophysical Journal International</i> , 2009, 178, 729-741.	2.4	21
138	Shallow seismicity and tectonics of the central and northern Lau Basin. <i>Earth and Planetary Science Letters</i> , 2011, 304, 538-546.	4.4	21
139	Near-surface Environmentally Forced Changes in the Ross Ice Shelf Observed With Ambient Seismic Noise. <i>Geophysical Research Letters</i> , 2018, 45, 11, 187.	4.0	21
140	Performance Characteristics of a Rotational Seismometer for Near-Field and Engineering Applications. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 1181-1189.	2.3	20
141	High Bulk and Shear Attenuation Due to Partial Melt in the Tonga-Lau Back-arc Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017527.	3.4	19
142	Learning from failure: The SPREE Mid-Continent Rift Experiment. <i>GSA Today</i> , 2011, 21, 5-7.	2.0	19
143	Slow subduction of old lithosphere in the lesser antilles. <i>Tectonophysics</i> , 1983, 99, 139-148.	2.2	18
144	Aftershock sequences of moderate-sized intermediate and deep earthquakes in the Tonga Subduction Zone. <i>Geophysical Research Letters</i> , 1997, 24, 2059-2062.	4.0	18

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145	The uppermost mantle seismic velocity structure of West Antarctica from Rayleigh wave tomography: Insights into tectonic structure and geothermal heat flow. <i>Earth and Planetary Science Letters</i> , 2019, 522, 219-233.	4.4	18
146	Upper Mantle Hydration Indicated by Decreased Shear Velocity Near the Southern Mariana Trench From Rayleigh Wave Tomography. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093309.	4.0	17
147	Crust and upper mantle heterogeneities in the southwest Pacific from surface wave phase velocity analysis. <i>Physics of the Earth and Planetary Interiors</i> , 1999, 110, 211-234.	1.9	16
148	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	16
149	Strong seismic scatterers near the core-mantle boundary north of the Pacific Anomaly. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 253, 21-30.	1.9	16
150	Comment on "Subduction of aseismic ridges beneath the Caribbean Plate: Implications for the tectonics and seismic potential of the northeastern Caribbean" by W. R. McCann and L. R. Sykes. <i>Journal of Geophysical Research</i> , 1986, 91, 784-786.	3.3	15
151	Why does near ridge extensional seismicity occur primarily in the Indian Ocean?. <i>Earth and Planetary Science Letters</i> , 1987, 82, 107-113.	4.4	15
152	Mantle transition zone thickness beneath Ross Island, the Transantarctic Mountains, and East Antarctica. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	15
153	Eruption of South Sarigan Seamount, Northern Mariana Islands: Insights into Hazards from Submarine Volcanic Eruptions. <i>Oceanography</i> , 2014, 27, 24-31.	1.0	15
154	Upper mantle structure of the Tonga-Lau region from Rayleigh wave tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4705-4724.	2.5	15
155	Ocean-excited plate waves in the Ross and Pine Island Glacier ice shelves. <i>Journal of Glaciology</i> , 2018, 64, 730-744.	2.2	15
156	Wave Teleseismic Traveltime Tomography of the North American Midcontinent. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1725-1742.	3.4	15
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