Douglas A Wiens

List of Publications by Year
in descending order

204	10,178	24978	48187
papers	citations	57 h-index	88 g-index

215	215	215	5474
all docs	docs citations	times ranked	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.	6.0	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.	6.0	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.	6.0	248
6	A diffuse plate boundary model for Indian Ocean tectonics. Geophysical Research Letters, 1985, 12, 429-432.	1.5	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 thrustâ€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.	6.0	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.	13.7	141
12	Simultaneous teleseismic and geodetic observations of the stickâ€“slip motion of an Antarctic ice stream. Nature, 2008, 453, 770-774.	13.7	141
13	Water input into the Mariana subduction zone estimated from ocean-bottom seismic data. Nature, 2018, 563, 389-392.	13.7	141
14	Sâ€velocity model and inferred Moho topography beneath the Antarctic Plate from Rayleigh waves. Journal of Geophysical Research: Solid Earth, 2015, 120, 359-383.	1.4	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.	1.0	130
16	Temperature, lithosphereâ€asthenosphere boundary, and heat flux beneath the Antarctic Plate inferred from seismic velocities. Journal of Geophysical Research: Solid Earth, 2015, 120, 8720-8742.	1.4	129
17	The depth distribution of mantle anisotropy beneath the Tonga subduction zone. Earth and Planetary Science Letters, 1996, 142, 253-260.	1.8	115
18	The Seismic Structure and Dynamics of the Mantle Wedge. Annual Review of Earth and Planetary Sciences, 2008, 36, 421-455.	4.6	114

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19	Seismological constraints on the mechanism of deep earthquakes: temperature dependence of deep earthquake source properties. Physics of the Earth and Planetary Interiors, 2001, 127, 145-163.	0.7	111
20	Subduction seismicity and tectonics in the Lesser Antilles Arc. Journal of Geophysical Research, 1982, 87, 8642-8664.	3.3	109
21	On the decompression melting structure at volcanic arcs and back-arc spreading centers. Geophysical Research Letters, 2002, 29, 17-1-17-4.	1.5	109
22	Implications of oceanic intraplate seismicity for plate stresses, driving forces and rheology. Tectonophysics, 1985, 116, 143-162.	0.9	108
23	The crustal thickness of West Antarctica. Journal of Geophysical Research: Solid Earth, 2014, 119, 378-395.	1.4	103
24	Seismic attenuation tomography of the Tonga-Fiji region using phase pair methods. Journal of Geophysical Research, 1999, 104, 4795-4809.	3.3	101
25	Evidence for transformational faulting from a deep double seismic zone in Tonga. Nature, 1993, 364, 790-793.	13.7	96
26	Historical seismicity and implications for diffuse plate convergence in the northeast Indian Ocean. Journal of Geophysical Research, 1989, 94, 12301-12319.	3.3	95
27	Tonga Ridge and Lau Basin crustal structure from seismic refraction data. Journal of Geophysical Research, 2003, 108, .	3.3	93
28	Solid Earth change and the evolution of the Antarctic Ice Sheet. Nature Communications, 2019, 10, 503.	5.8	93
29	A test of alternative Caribbean Plate relative motion models. Journal of Geophysical Research, 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. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	90
31	A deep earthquake aftershock sequence and implications for the rupture mechanism of deep earthquakes. Nature, 1994, 372, 540-543.	13.7	84
32	Upper mantle structure of central and West Antarctica from array analysis of Rayleigh wave phase velocities. Journal of Geophysical Research: Solid Earth, 2016, 121, 1758-1775.	1.4	84
33	Seismic attenuation tomography of the Mariana subduction system: Implications for thermal structure, volatile distribution, and slow spreading dynamics. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	82
34	Complex mantle flow in the Mariana subduction system: evidence from shear wave splitting. Geophysical Journal International, 2007, 170, 371-386.	1.0	81
35	Tidal pacing, skipped slips and the slowdown of Whillans Ice Stream, Antarctica. Journal of Glaciology, 2014, 60, 795-807.	1.1	81
36	Mantle temperature variations beneath back-arc spreading centers inferred from seismology, petrology, and bathymetry. Earth and Planetary Science Letters, 2006, 248, 30-42.	1.8	80

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37	Plate tectonic models for Indian Ocean â€œintraplateâ€•deformation. Tectonophysics, 1986, 132, 37-48.	0.9	79
38	The Crust and Upper Mantle Structure of Central and West Antarctica From Bayesian Inversion of Rayleigh Wave and Receiver Functions. Journal of Geophysical Research: Solid Earth, 2018, 123, 7824-7849.	1.4	78
39	Imaging the Antarctic mantle using adaptively parameterized P-wave tomography: Evidence for heterogeneous structure beneath West Antarctica. Earth and Planetary Science Letters, 2014, 408, 66-78.	1.8	76
40	Effect of slab temperature on deep-earthquake aftershock productivity and magnitudeâ€“frequency relations. Nature, 1996, 384, 153-156.	13.7	74
41	Crustal structure of the Gamburtsev Mountains, East Antarctica, from S-wave receiver functions and Rayleigh wave phase velocities. Earth and Planetary Science Letters, 2010, 300, 395-401.	1.8	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. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	73
43	Depth determination for shallow teleseismic earthquakes: Methods and results. Reviews of Geophysics, 1986, 24, 806-832.	9.0	72
44	Nucleation and seismic tremor associated with the glacial earthquakes of Whillans Ice Stream, Antarctica. Geophysical Research Letters, 2013, 40, 312-315.	1.5	71
45	Reconciling mantle attenuation-temperature relationships from seismology, petrology, and laboratory measurements. Geochemistry, Geophysics, Geosystems, 2014, 15, 3521-3542.	1.0	71
46	Anisotropy and Flow in Pacific Subduction Zone Back-arcs. Pure and Applied Geophysics, 1998, 151, 463-475.	0.8	70
47	Bathymetric effects on body waveforms from shallow subduction zone earthquakes and application to seismic processes in the Kurile Trench. Journal of Geophysical Research, 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. Bulletin of the Seismological Society of America, 2004, 94, 977-987.	1.1	69
49	The Flinn-Engdahl Regionalisation Scheme: The 1995 revision. Physics of the Earth and Planetary Interiors, 1996, 96, 223-297.	0.7	66
50	Motion of an Antarctic glacier by repeated tidally modulated earthquakes. Nature Geoscience, 2012, 5, 623-626.	5.4	66
51	Seismic structure beneath the Tonga arc and Lau back-arc basin determined from joint Vp, Vp/Vs tomography. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	65
52	Remote triggering of deep earthquakes in the 2002 Tonga sequences. Nature, 2003, 424, 921-925.	13.7	63
53	Historical seismicity near Chagos: a complex deformation zone in the equatorial Indian Ocean. Earth and Planetary Science Letters, 1986, 76, 350-360.	1.8	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. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	61

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55	Dynamics of stickâ€“slip motion, Whillans Ice Stream, Antarctica. Earth and Planetary Science Letters, 2011, 305, 283-289.	1.8	60
56	An empirical relationship between seismic attenuation and velocity anomalies in the upper mantle. Geophysical Research Letters, 2000, 27, 601-604.	1.5	59
57	Seismic Structure of the Antarctic Upper Mantle Imaged with Adjoint Tomography. Journal of Geophysical Research: Solid Earth, 2020, 125, .	1.4	59
58	Effects of near source bathymetry on teleseismic P waveforms. Geophysical Research Letters, 1987, 14, 761-764.	1.5	57
59	The March 9, 1994 (Mw7.6), deep Tonga earthquake: Rupture outside the seismically active slab. Journal of Geophysical Research, 1997, 102, 15163-15182.	3.3	57
60	Influence of a West Antarctic mantle plume on ice sheet basal conditions. Journal of Geophysical Research: Solid Earth, 2017, 122, 7127-7155.	1.4	57
61	Seismicity and tectonics of the South Shetland Islands and Bransfield Strait from a regional broadband seismograph deployment. Journal of Geophysical Research, 2003, 108, .	3.3	56
62	Modeling the Tonga slab: Can travel time data resolve a metastable olivine wedge?. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	55
64	Seismic detection of an active subglacial magmatic complex in Marie Byrd Land, Antarctica. Nature Geoscience, 2013, 6, 1031-1035.	5.4	55
65	Seismic and geodetic evidence for groundingâ€line control of Whillans Ice Stream stickâ€slip events. Journal of Geophysical Research F: Earth Surface, 2014, 119, 333-348.	1.0	55
66	State of stress before and after the 1994 Northridge Earthquake. Geophysical Research Letters, 1997, 24, 519-522.	1.5	54
67	Mantle transition zone thickness beneath Cameroon: evidence for an upper mantle origin for the Cameroon Volcanic Line. Geophysical Journal International, 2011, 187, 1146-1150.	1.0	54
68	A seismic transect across West Antarctica: Evidence for mantle thermal anomalies beneath the Bentley Subglacial Trench and the Marie Byrd Land Dome. Journal of Geophysical Research: Solid Earth, 2015, 120, 8439-8460.	1.4	54
69	Ross ice shelf vibrations. Geophysical Research Letters, 2015, 42, 7589-7597.	1.5	52
70	A Geothermal Heat Flux Map of Antarctica Empirically Constrained by Seismic Structure. Geophysical Research Letters, 2020, 47, e2020GL086955.	1.5	51
71	Rayleigh wave constraints on the structure and tectonic history of the Gamburtsev Subglacial Mountains, East Antarctica. Journal of Geophysical Research: Solid Earth, 2013, 118, 2138-2153.	1.4	50
72	The Seismic Noise Environment of Antarctica. Seismological Research Letters, 2015, 86, 89-100.	0.8	50

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73	The November 20,1960 Peru Tsunami Earthquake: Source mechanism of a slow event. Geophysical Research Letters, 1990, 17, 661-664.	1.5	49
74	Evidence from earthquakes for bookshelf faulting at large non-transform ridge offsets. Nature, 1993, 362, 235-237.	13.7	49
75	Rapid mantle flow beneath the Tonga volcanic arc. Earth and Planetary Science Letters, 2007, 264, 299-307.	1.8	49
76	Using S wave receiver functions to estimate crustal structure beneath ice sheets: An application to the Transantarctic Mountains and East Antarctic craton. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	49
77	Source characteristics of large deep earthquakes: Constraint on the faulting mechanism at great depths. Journal of Geophysical Research, 2003, 108, .	3.3	48
78	Slab temperature controls on the Tonga double seismic zone and slab mantle dehydration. Science Advances, 2017, 3, e1601755.	4.7	48
79	Seismic evidence for widespread serpentinized forearc mantle along the Mariana convergence margin. Geophysical Research Letters, 2008, 35, .	1.5	47
80	Seismic rupture associated with subduction of the Cocos Ridge. Tectonics, 1987, 6, 757-774.	1.3	46
81	The 1994 Bolivia and Tonga events: Fundamentally different types of deep earthquakes?. Geophysical Research Letters, 1995, 22, 2245-2248.	1.5	45
82	Seasonal and Diurnal Variations in Longâ€Period Noise at SPREE Stations: The Influence of Soil Characteristics on Shallow Stationsâ€™ Performance. Bulletin of the Seismological Society of America, 2015, 105, 2433-2452.	1.1	45
83	Repeating Deep Earthquakes: Evidence for Fault Reactivation at Great Depth. Science, 2001, 293, 1463-1466.	6.0	44
84	Antarctic icequakes triggered by the 2010 Maule earthquake in Chile. Nature Geoscience, 2014, 7, 677-681.	5.4	44
85	Sea Level Fingerprints in a Region of Complex Earth Structure: The Case of WAIS. Journal of Climate, 2017, 30, 1881-1892.	1.2	44
86	Seismic evidence for lithospheric foundering beneath the southern Transantarctic Mountains, Antarctica. Geology, 2018, 46, 71-74.	2.0	44
87	Attenuation of Broadband P and S Waves in Tonga: Observations of Frequency Dependent Q. Pure and Applied Geophysics, 1998, 153, 345-375.	0.8	43
88	Radial upper mantle attenuation structure of inactive back arc basins from differential shear wave measurements. Journal of Geophysical Research, 1994, 99, 15469.	3.3	42
89	Lithospheric instability and the source of the Cameroon Volcanic Line: Evidence from Rayleigh wave phase velocity tomography. Journal of Geophysical Research: Solid Earth, 2015, 120, 1708-1727.	1.4	42
90	Ice shelf structure derived from dispersion curve analysis of ambient seismic noise, Ross Ice Shelf, Antarctica. Geophysical Journal International, 2016, 205, 785-795.	1.0	40

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91	Shear velocity structure of the crust and upper mantle of Madagascar derived from surface wave tomography. Earth and Planetary Science Letters, 2017, 458, 405-417.	1.8	40
92	Upper mantle structure of the southwest Pacific from regional waveform inversion. Journal of Geophysical Research, 1997, 102, 27439-27451.	3.3	39
93	Seismic evidence of effects of water on melt transport in the Lau back-arc mantle. Nature, 2015, 518, 395-398.	13.7	39
94	Faulting within the Pacific plate at the Mariana Trench: Implications for plate interface coupling and subduction of hydrous minerals. Journal of Geophysical Research: Solid Earth, 2014, 119, 3076-3095.	1.4	38
95	The mantle transition zone beneath <scp>W</scp>est <scp>A</scp>ntarctica: Seismic evidence for hydration and thermal upwellings. Geochemistry, Geophysics, Geosystems, 2015, 16, 40-58.	1.0	38
96	Attenuation structure beneath the Lau Back Arc Spreading Center from teleseismic S phases. Geophysical Research Letters, 1990, 17, 2117-2120.	1.5	36
97	Upper mantle thermal variations beneath the Transantarctic Mountains inferred from teleseismic S-wave attenuation. Geophysical Research Letters, 2006, 33, .	1.5	36
98	The relationship of intermediate- and deep-focus seismicity to the hydration and dehydration of subducting slabs. Earth and Planetary Science Letters, 2012, 349-350, 153-160.	1.8	36
99	Incoming plate faulting in the Northern and Western Pacific and implications for subduction zone water budgets. Earth and Planetary Science Letters, 2015, 414, 176-186.	1.8	36
100	Crustal and upper-mantle structure beneath ice-covered regions in Antarctica fromS-wave receiver functions and implications for heat flow. Geophysical Journal International, 2016, 204, 1636-1648.	1.0	36
101	The Nazcaâ€South America convergence rate and the recurrence of the Great 1960 Chilean Earthquake. Geophysical Research Letters, 1986, 13, 713-716.	1.5	35
102	Tilt recorded by a portable broadband seismograph: The 2003 eruption of Anatahan Volcano, Mariana Islands. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	35
103	Upper-mantle anisotropy beneath the Cameroon Volcanic Line and Congo Craton from shear wave splitting measurements. Geophysical Journal International, 2012, 190, 75-86.	1.0	35
104	Tsunami and infragravity waves impacting <scp>A</scp>ntarctic ice shelves. Journal of Geophysical Research: Oceans, 2017, 122, 5786-5801.	1.0	35
105	A teleseismic shear-wave splitting study to investigate mantle flow around South America and implications for plate-driving forces. Geophysical Journal International, 2002, 149, F1-F7.	1.0	33
106	Distinct crustal structure of the North American Midcontinent Rift from P wave receiver functions. Journal of Geophysical Research: Solid Earth, 2016, 121, 8136-8153.	1.4	32
107	A double seismic zone in New Britain and the morphology of the Solomon Plate at intermediate depths. Geophysical Research Letters, 1995, 22, 1965-1968.	1.5	30
108	Seismological constraints on structure and flow patterns within the mantle wedge. Geophysical Monograph Series, 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. Tectonophysics, 2005, 397, 241-259.	0.9	30
110	Intermediateâ€Depth Earthquakes Controlled by Incoming Plate Hydration Along Bendingâ€Related Faults. Geophysical Research Letters, 2019, 46, 3688-3697.	1.5	30
111	Aftershocks of the March 9, 1994, Tonga earthquake: The strongest known deep aftershock sequence. Journal of Geophysical Research, 2000, 105, 19067-19083.	3.3	29
112	Upper mantle discontinuity structure in the region of the Tonga Subduction Zone. Geophysical Research Letters, 2001, 28, 1855-1858.	1.5	29
113	Evidence for bathymetric control on the distribution of body wave microseism sources from temporary seismic arrays in Africa. Geophysical Journal International, 2014, 197, 1869-1883.	1.0	29
114	PandSvelocity tomography of the Mariana subduction system from a combined land-sea seismic deployment. Geochemistry, Geophysics, Geosystems, 2015, 16, 681-704.	1.0	29
115	The uppermost mantle seismic velocity and viscosity structure of central West Antarctica. Earth and Planetary Science Letters, 2017, 472, 38-49.	1.8	29
116	Tidal and Thermal Stresses Drive Seismicity Along a Major Ross Ice Shelf Rift. Geophysical Research Letters, 2019, 46, 6644-6652.	1.5	29
117	Detailed structure and sharpness of upper mantle discontinuities in the Tonga subduction zone from regional broadband arrays. Journal of Geophysical Research, 2005, 110, .	3.3	28
118	The Alaska Amphibious Community Seismic Experiment. Seismological Research Letters, 2020, 91, 3054-3063.	0.8	28
119	Upper mantle seismic anisotropy beneath the West Antarctic Rift System and surrounding region from shear wave splitting analysis. Geophysical Journal International, 2014, 198, 414-429.	1.0	27
120	P-wave attenuation structure of the Lau back-arc basin and implications for mantle wedge processes. Earth and Planetary Science Letters, 2018, 502, 187-199.	1.8	27
121	Crustal Vp-Vs ratios and thickness for Ross Island and the Transantarctic Mountain front, Antarctica. Geophysical Journal International, 2011, 185, 85-92.	1.0	26
122	Upper mantle seismic structure beneath central East Antarctica from body wave tomography: Implications for the origin of the Gamburtsev Subglacial Mountains. Geochemistry, Geophysics, Geosystems, 2013, 14, 902-920.	1.0	25
123	Seismological imaging of ridgeâ€“arc interaction beneath the Eastern Lau Spreading Center from OBS ambient noise tomography. Earth and Planetary Science Letters, 2014, 408, 194-206.	1.8	25
124	Ross Ice Shelf Icequakes Associated With Ocean Gravity Wave Activity. Geophysical Research Letters, 2019, 46, 8893-8902.	1.5	25
125	Reactivation of ancient Antarctic rift zones by intraplate seismicity. Nature Geoscience, 2018, 11, 515-519.	5.4	24
126	The 1966 Kremasta reservoir earthquake sequence. Earth and Planetary Science Letters, 1982, 59, 49-60.	1.8	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. Earth and Planetary Science Letters, 2016, 449, 48-60.	1.8	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. Geophysical Journal International, 2017, 211, 1328-1340.	1.0	23
129	Heterogeneous upper mantle structure beneath the Ross Sea Embayment and Marie Byrd Land, West Antarctica, revealed by P-wave tomography. Earth and Planetary Science Letters, 2019, 513, 40-50.	1.8	23
130	Crustal and upper mantle structure of southernmost South America inferred from regional waveform inversion. Journal of Geophysical Research, 2003, 108, .	3.3	22
131	Earthquake evidence for alongâ€arc extension in the Mariana Islands. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	22
132	Crustal structure of the Transantarctic Mountains near the Ross Sea from ambient seismic noise tomography. Journal of Geophysical Research, 2010, 115, .	3.3	22
133	Rupture characteristics of the 1982 Tonga and 1986 Kermadec earthquakes. Journal of Geophysical Research, 1989, 94, 15521-15539.	3.3	21
134	Constraints on the origin of slab and mantle wedge anomalies in Tonga from the ratio ofStoPvelocities. Journal of Geophysical Research, 1999, 104, 15089-15104.	3.3	21
135	The waveguide effect of metastable olivine in slabs. Geophysical Research Letters, 2000, 27, 581-584.	1.5	21
136	Seismicity and tilt associated with the 2003 Anatahan eruption sequence. Journal of Volcanology and Geothermal Research, 2005, 146, 60-76.	0.8	21
137	Upper mantle seismic anisotropy of South Victoria Land and the Ross Sea coast, Antarctica from SKS and SKKS splitting analysis. Geophysical Journal International, 2009, 178, 729-741.	1.0	21
138	Shallow seismicity and tectonics of the central and northern Lau Basin. Earth and Planetary Science Letters, 2011, 304, 538-546.	1.8	21
139	Nearâ€Surface Environmentally Forced Changes in the Ross Ice Shelf Observed With Ambient Seismic Noise. Geophysical Research Letters, 2018, 45, 11,187.	1.5	21
140	Performance Characteristics of a Rotational Seismometer for Near-Field and Engineering Applications. Bulletin of the Seismological Society of America, 2009, 99, 1181-1189.	1.1	20
141	High Bulk and Shear Attenuation Due to Partial Melt in the Tongaâ€Lau Backâ€arc Mantle. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB017527.	1.4	19
142	Learning from failure: The SPREE Mid-Continent Rift Experiment. GSA Today, 2011, 21, 5-7.	1.1	19
143	Slow subduction of old lithosphere in the lesser antilles. Tectonophysics, 1983, 99, 139-148.	0.9	18
144	Aftershock sequences of moderate-sized intermediate and deep earthquakes in the Tonga Subduction Zone. Geophysical Research Letters, 1997, 24, 2059-2062.	1.5	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. Earth and Planetary Science Letters, 2019, 522, 219-233.	1.8	18
146	Upper Mantle Hydration Indicated by Decreased Shear Velocity Near the Southern Mariana Trench From Rayleigh Wave Tomography. Geophysical Research Letters, 2021, 48, e2021GL093309.	1.5	17
147	Crust and upper mantle heterogeneities in the southwest Pacific from surface wave phase velocity analysis. Physics of the Earth and Planetary Interiors, 1999, 110, 211-234.	0.7	16
148	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. Geophysical Research Letters, 2007, 34, .	1.5	16
149	Strong seismic scatterers near the coreâ€“mantle boundary north of the Pacific Anomaly. Physics of the Earth and Planetary Interiors, 2016, 253, 21-30.	0.7	16
150	Comment on â€œSubduction of aseismic ridges beneath the Caribbean Plate: Implications for the tectonics and seismic potential of the northeastern Caribbeanâ€•by W. R. McCann and L. R. Sykes. Journal of Geophysical Research, 1986, 91, 784-786.	3.3	15
151	Why does near ridge extensional seismicity occur primarily in the Indian Ocean?. Earth and Planetary Science Letters, 1987, 82, 107-113.	1.8	15
152	Mantle transition zone thickness beneath Ross Island, the Transantarctic Mountains, and East Antarctica. Geophysical Research Letters, 2008, 35, .	1.5	15
153	Eruption of South Sarigan Seamount, Northern Mariana Islands: Insights into Hazards from Submarine Volcanic Eruptions. Oceanography, 2014, 27, 24-31.	0.5	15
154	Upper mantle structure of the <scp>T</scp>ongaâ€<scp>L</scp>auâ€<scp>F</scp>iji region from <scp>R</scp>ayleigh wave tomography. Geochemistry, Geophysics, Geosystems, 2016, 17, 4705-4724.	1.0	15
155	Ocean-excited plate waves in the Ross and Pine Island Glacier ice shelves. Journal of Glaciology, 2018, 64, 730-744.	1.1	15
156	P Wave Teleseismic Traveltime Tomography of the North American Midcontinent. Journal of Geophysical Research: Solid Earth, 2019, 124, 1725-1742.	1.4	15
157	P- and S-wave velocity structure of central West Antarctica: Implications for the tectonic evolution of the West Antarctic Rift System. Earth and Planetary Science Letters, 2020, 546, 116437.	1.8	15
158	The seismic structure of the Antarctic upper mantle. Geological Society Memoir, 2023, 56, 195-212.	0.9	15
159	Shear velocity structure of the Mariana mantle wedge from Rayleigh wave phase velocities. Journal of Geophysical Research, 2010, 115, .	3.3	14
160	Seismogenic characteristics of the Northern Mariana shallow thrust zone from local array data. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	14
161	A previously unreported type of seismic source in the firn layer of the East Antarctic Ice Sheet. Journal of Geophysical Research F: Earth Surface, 2015, 120, 2237-2252.	1.0	14
162	Complex and Diverse Rupture Processes of the 2018Mw8.2 andMw7.9 Tongaâ€Fiji Deep Earthquakes. Geophysical Research Letters, 2019, 46, 2434-2448.	1.5	14

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163	Swell-Triggered Seismicity at the Near-Front Damage Zone of the Ross Ice Shelf. Seismological Research Letters, 2021, 92, 2768-2792.	0.8	14
164	Antarctic upper mantle rheology. Geological Society Memoir, 2023, 56, 267-294.	0.9	14
165	The largest recorded earthquake swarm: Intraplate faulting near the Southwest Indian Ridge. Journal of Geophysical Research, 1990, 95, 4735-4750.	3.3	13
166	Depression of the 660 km discontinuity beneath the Tonga Slab determined from near-verticalScSreverberations. Geophysical Research Letters, 1999, 26, 1223-1226.	1.5	13
167	Too hot for earthquakes?. Nature, 1993, 363, 299-300.	13.7	12
168	Depth of the 660-km discontinuity near the Mariana slab from an array of ocean bottom seismographs. Geophysical Research Letters, 2006, 33, .	1.5	12
169	Dynamic triggering of deep earthquakes within a fossil slab. Geophysical Research Letters, 2016, 43, 9492-9499.	1.5	12
170	Seasonal and spatial variations in the ocean-coupled ambient wavefield of the Ross Ice Shelf. Journal of Glaciology, 2019, 65, 912-925.	1.1	12
171	Seismicity of the Incoming Plate and Forearc Near the Mariana Trench Recorded by Ocean Bottom Seismographs. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC008953.	1.0	12
172	Glacial Earthquakes and Precursory Seismicity Associated With Thwaites Glacier Calving. Geophysical Research Letters, 2020, 47, e2019GL086178.	1.5	12
173	Lithospheric Erosion in the Patagonian Slab Window, and Implications for Glacial Isostasy. Geophysical Research Letters, 2022, 49, .	1.5	12
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