

Douglas A Wiens

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198
papers

8,192
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215
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9,165
ext. citations

7.8
avg, IF

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L-index

#	Paper	IF	Citations
198	Tomography of the Source Area of the 1995 Kobe Earthquake: Evidence for Fluids at the Hypocenter?. <i>Science</i> , 1996 , 274, 1891-4	33.3	291
197	Depth Extent of the Lau Back-Arc Spreading Center and Its Relation to Subduction Processes. <i>Science</i> , 1997 , 278, 254-257	33.3	277
196	Age dependence of oceanic intraplate seismicity and implications for lithospheric evolution. <i>Journal of Geophysical Research</i> , 1983 , 88, 6455		273
195	A complex pattern of mantle flow in the Lau backarc. <i>Science</i> , 2001 , 292, 713-6	33.3	235
194	Seismotectonics and relative plate motions in the Scotia Sea region. <i>Journal of Geophysical Research</i> , 1989 , 94, 7293		223
193	A diffuse plate boundary model for Indian Ocean tectonics. <i>Geophysical Research Letters</i> , 1985 , 12, 429-433	4.9	182
192	Intraplate seismicity and stresses in young oceanic lithosphere. <i>Journal of Geophysical Research</i> , 1984 , 89, 11442-11464		170
191	Tsunami earthquakes: Slow thrust-faulting events in the accretionary wedge. <i>Journal of Geophysical Research</i> , 1992 , 97, 15321		134
190	Simultaneous teleseismic and geodetic observations of the stick-slip motion of an Antarctic ice stream. <i>Nature</i> , 2008 , 453, 770-4	50.4	122
189	The Seismic Structure and Dynamics of the Mantle Wedge. <i>Annual Review of Earth and Planetary Sciences</i> , 2008 , 36, 421-455	15.3	105
188	The depth distribution of mantle anisotropy beneath the Tonga subduction zone. <i>Earth and Planetary Science Letters</i> , 1996 , 142, 253-260	5.3	105
187	Observed rapid bedrock uplift in Amundsen Sea Embayment promotes ice-sheet stability. <i>Science</i> , 2018 , 360, 1335-1339	33.3	104
186	S-velocity model and inferred Moho topography beneath the Antarctic Plate from Rayleigh waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 359-383	3.6	103
185	Mechanisms and depths of Atlantic transform earthquakes. <i>Journal of Geophysical Research</i> , 1986 , 91, 548		102
184	Long-term eruptive activity at a submarine arc volcano. <i>Nature</i> , 2006 , 441, 494-7	50.4	101
183	Subduction seismicity and tectonics in the Lesser Antilles Arc. <i>Journal of Geophysical Research</i> , 1982 , 87, 8642		97
182	Structure of the crust beneath Cameroon, West Africa, from the joint inversion of Rayleigh wave group velocities and receiver functions. <i>Geophysical Journal International</i> , 2010 , 183, 1061-1076	2.6	96

181	On the decompression melting structure at volcanic arcs and back-arc spreading centers. <i>Geophysical Research Letters</i> , 2002 , 29, 17-1-17-4	4.9	92
180	Water input into the Mariana subduction zone estimated from ocean-bottom seismic data. <i>Nature</i> , 2018 , 563, 389-392	50.4	92
179	Temperature, lithosphere-asthenosphere boundary, and heat flux beneath the Antarctic Plate inferred from seismic velocities. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 8720-8742	3.6	91
178	Seismic attenuation tomography of the Tonga-Fiji region using phase pair methods. <i>Journal of Geophysical Research</i> , 1999 , 104, 4795-4809		91
177	Evidence for transformational faulting from a deep double seismic zone in Tonga. <i>Nature</i> , 1993 , 364, 790-793	50.4	88
176	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	2.3	85
175	Implications of oceanic intraplate seismicity for plate stresses, driving forces and rheology. <i>Tectonophysics</i> , 1985 , 116, 143-162	3.1	83
174	The crustal thickness of West Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 378-395	3.6	82
173	Historical seismicity and implications for diffuse plate convergence in the northeast Indian Ocean. <i>Journal of Geophysical Research</i> , 1989 , 94, 12301		82
172	A test of alternative Caribbean Plate relative motion models. <i>Journal of Geophysical Research</i> , 1988 , 93, 3041		82
171	Complex mantle flow in the Mariana subduction system: evidence from shear wave splitting. <i>Geophysical Journal International</i> , 2007 , 170, 371-386	2.6	79
170	Tonga Ridge and Lau Basin crustal structure from seismic refraction data. <i>Journal of Geophysical Research</i> , 2003 , 108,		79
169	A deep earthquake aftershock sequence and implications for the rupture mechanism of deep earthquakes. <i>Nature</i> , 1994 , 372, 540-543	50.4	78
168	Upper mantle structure beneath Cameroon from body wave tomography and the origin of the Cameroon Volcanic Line. <i>Geochemistry, Geophysics, Geosystems</i> , 2010 , 11, n/a-n/a	3.6	71
167	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, n/a-n/a	3.6	70
166	Tidal pacing, skipped slips and the slowdown of Whillans Ice Stream, Antarctica. <i>Journal of Glaciology</i> , 2014 , 60, 795-807	3.4	67
165	Anisotropy and Flow in Pacific Subduction Zone Back-arcs. <i>Pure and Applied Geophysics</i> , 1998 , 151, 463-475		67
164	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	5.3	67

163	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	5.3	65
162	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	3.6	64
161	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		63
160	Effect of slab temperature on deep-earthquake aftershock productivity and magnitude-frequency relations. <i>Nature</i> , 1996 , 384, 153-156	50.4	62
159	Depth determination for shallow teleseismic earthquakes: Methods and results. <i>Reviews of Geophysics</i> , 1986 , 24, 806	23.1	61
158	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	59
157	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	3.6	58
156	Plate tectonic models for Indian Ocean Intraplate Deformation. <i>Tectonophysics</i> , 1986 , 132, 37-48	3.1	58
155	Motion of an Antarctic glacier by repeated tidally modulated earthquakes. <i>Nature Geoscience</i> , 2012 , 5, 623-626	18.3	57
154	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	3.6	57
153	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	5.3	56
152	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	3.6	54
151	Remote triggering of deep earthquakes in the 2002 Tonga sequences. <i>Nature</i> , 2003 , 424, 921-5	50.4	54
150	Historical seismicity near Chagos: a complex deformation zone in the equatorial Indian Ocean. <i>Earth and Planetary Science Letters</i> , 1986 , 76, 350-360	5.3	54
149	Solid Earth change and the evolution of the Antarctic Ice Sheet. <i>Nature Communications</i> , 2019 , 10, 503	17.4	53
148	Reconciling mantle attenuation-temperature relationships from seismology, petrology, and laboratory measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 3521-3542	3.6	53
147	Nucleation and seismic tremor associated with the glacial earthquakes of Whillans Ice Stream, Antarctica. <i>Geophysical Research Letters</i> , 2013 , 40, 312-315	4.9	53
146	Dynamics of stick-slip motion, Whillans Ice Stream, Antarctica. <i>Earth and Planetary Science Letters</i> , 2011 , 305, 283-289	5.3	51

145	Modeling the Tonga slab: Can travel time data resolve a metastable olivine wedge?. <i>Journal of Geophysical Research</i> , 1998 , 103, 30079-30100		51
144	An empirical relationship between seismic attenuation and velocity anomalies in the upper mantle. <i>Geophysical Research Letters</i> , 2000 , 27, 601-604	4.9	48
143	Influence of a West Antarctic mantle plume on ice sheet basal conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 7127-7155	3.6	47
142	Rapid mantle flow beneath the Tonga volcanic arc. <i>Earth and Planetary Science Letters</i> , 2007 , 264, 299-307	3.3	47
141	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	2.6	46
140	State of stress before and after the 1994 Northridge Earthquake. <i>Geophysical Research Letters</i> , 1997 , 24, 519-522	4.9	46
139	Effects of near source bathymetry on teleseismic P waveforms. <i>Geophysical Research Letters</i> , 1987 , 14, 761-764	4.9	46
138	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	3.8	45
137	The Flinn-Engdahl Regionalisation Scheme: The 1995 revision. <i>Physics of the Earth and Planetary Interiors</i> , 1996 , 96, 223-297	2.3	45
136	Evidence from earthquakes for bookshelf faulting at large non-transform ridge offsets. <i>Nature</i> , 1993 , 362, 235-237	50.4	45
135	Seismic detection of an active subglacial magmatic complex in Marie Byrd Land, Antarctica. <i>Nature Geoscience</i> , 2013 , 6, 1031-1035	18.3	44
134	The March 9, 1994 (M w 7.6), deep Tonga earthquake: Rupture outside the seismically active slab. <i>Journal of Geophysical Research</i> , 1997 , 102, 15163-15182		44
133	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,		44
132	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	2.6	43
131	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		43
130	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, n/a-n/a	3.6	42
129	Attenuation of Broadband P and S Waves in Tonga: Observations of Frequency Dependent Q. <i>Pure and Applied Geophysics</i> , 1998 , 153, 345-375	2.2	41
128	Seismic evidence for widespread serpentinized forearc mantle along the Mariana convergence margin. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	41

127	Source characteristics of large deep earthquakes: Constraint on the faulting mechanism at great depths. <i>Journal of Geophysical Research</i> , 2003 , 108,		41
126	Ross ice shelf vibrations. <i>Geophysical Research Letters</i> , 2015 , 42, 7589-7597	4.9	40
125	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	3.6	39
124	Radial upper mantle attenuation structure of inactive back arc basins from differential shear wave measurements. <i>Journal of Geophysical Research</i> , 1994 , 99, 15469		39
123	The November 20,1960 Peru Tsunami Earthquake: Source mechanism of a slow event. <i>Geophysical Research Letters</i> , 1990 , 17, 661-664	4.9	39
122	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	38
121	Seismic rupture associated with subduction of the Cocos Ridge. <i>Tectonics</i> , 1987 , 6, 757-774	4.3	38
120	Upper mantle structure of the southwest Pacific from regional waveform inversion. <i>Journal of Geophysical Research</i> , 1997 , 102, 27439-27451		36
119	Antarctic icequakes triggered by the 2010 Maule earthquake in Chile. <i>Nature Geoscience</i> , 2014 , 7, 677-681	18.3	35
118	Repeating deep earthquakes: evidence for fault reactivation at great depth. <i>Science</i> , 2001 , 293, 1463-6	33.3	35
117	Sea Level Fingerprints in a Region of Complex Earth Structure: The Case of WAIS. <i>Journal of Climate</i> , 2017 , 30, 1881-1892	4.4	34
116	The Seismic Noise Environment of Antarctica. <i>Seismological Research Letters</i> , 2015 , 86, 89-100	3	34
115	Attenuation structure beneath the Lau Back Arc Spreading Center from teleseismic S phases. <i>Geophysical Research Letters</i> , 1990 , 17, 2117-2120	4.9	34
114	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	2.6	33
113	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	5.3	33
112	The mantle transition zone beneath West Antarctica: Seismic evidence for hydration and thermal upwellings. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 40-58	3.6	33
111	The 1994 Bolivia and Tonga events: Fundamentally different types of deep earthquakes?. <i>Geophysical Research Letters</i> , 1995 , 22, 2245-2248	4.9	33
110	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	3.6	32

109	Seismic evidence for lithospheric foundering beneath the southern Transantarctic Mountains, Antarctica. <i>Geology</i> , 2018 , 46, 71-74	5	32
108	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	3.6	31
107	Seismic evidence of effects of water on melt transport in the Lau back-arc mantle. <i>Nature</i> , 2015 , 518, 395-8	50.4	31
106	Slab temperature controls on the Tonga double seismic zone and slab mantle dehydration. <i>Science Advances</i> , 2017 , 3, e1601755	14.3	30
105	Crustal and upper-mantle structure beneath ice-covered regions in Antarctica from S-wave receiver functions and implications for heat flow. <i>Geophysical Journal International</i> , 2016 , 204, 1636-1648	2.6	30
104	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	2.6	30
103	The Nazca-South America convergence rate and the recurrence of the Great 1960 Chilean Earthquake. <i>Geophysical Research Letters</i> , 1986 , 13, 713-716	4.9	30
102	Seismic Structure of the Antarctic Upper Mantle Imaged with Adjoint Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125,	3.6	30
101	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	5.3	29
100	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	3.1	29
99	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	3.6	27
98	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	2.6	27
97	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	5.3	27
96	Upper mantle thermal variations beneath the Transantarctic Mountains inferred from teleseismic S-wave attenuation. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	27
95	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	4.9	26
94	Seismological Constraints on Structure and Flow Patterns within the Mantle Wedge. <i>Geophysical Monograph Series</i> , 2003 , 59-81	1.1	26
93	Upper mantle discontinuity structure in the region of the Tonga Subduction Zone. <i>Geophysical Research Letters</i> , 2001 , 28, 1855-1858	4.9	26
92	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	4.9	26

91	The uppermost mantle seismic velocity and viscosity structure of central West Antarctica. <i>Earth and Planetary Science Letters</i> , 2017 , 472, 38-49	5.3	25
90	A Geothermal Heat Flux Map of Antarctica Empirically Constrained by Seismic Structure. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL086955	4.9	24
89	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	2.6	24
88	Crustal Vp-Vs ratios and thickness for Ross Island and the Transantarctic Mountain front, Antarctica. <i>Geophysical Journal International</i> , 2011 , 185, 85-92	2.6	24
87	Distinct crustal structure of the North American Midcontinent Rift from P wave receiver functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 8136-8153	3.6	23
86	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	2.6	23
85	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,		23
84	P and S velocity tomography of the Mariana subduction system from a combined land-sea seismic deployment. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 681-704	3.6	22
83	Tsunami and infragravity waves impacting Antarctic ice shelves. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 5786-5801	3.3	21
82	The waveguide effect of metastable olivine in slabs. <i>Geophysical Research Letters</i> , 2000 , 27, 581-584	4.9	21
81	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	5.3	20
80	Crustal and upper mantle structure of southernmost South America inferred from regional waveform inversion. <i>Journal of Geophysical Research</i> , 2003 , 108,		20
79	Seismicity and tilt associated with the 2003 Anatahan eruption sequence. <i>Journal of Volcanology and Geothermal Research</i> , 2005 , 146, 60-76	2.8	20
78	Aftershocks of the March 9, 1994, Tonga earthquake: The strongest known deep aftershock sequence. <i>Journal of Geophysical Research</i> , 2000 , 105, 19067-19083		20
77	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		20
76	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	2.6	19
75	Rupture characteristics of the 1982 Tonga and 1986 Kermadec earthquakes. <i>Journal of Geophysical Research</i> , 1989 , 94, 15521-15539		19
74	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	3.6	18

73	Earthquake evidence for along-arc extension in the Mariana Islands. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	18
72	Ross Ice Shelf Icequakes Associated With Ocean Gravity Wave Activity. <i>Geophysical Research Letters</i> , 2019 , 46, 8893-8902	4.9	17
71	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	2.6	17
70	Learning from failure: The SPREE Mid-Continent Rift Experiment. <i>GSA Today</i> , 2011 , 21, 5-7	2.8	17
69	Tidal and Thermal Stresses Drive Seismicity Along a Major Ross Ice Shelf Rift. <i>Geophysical Research Letters</i> , 2019 , 46, 6644-6652	4.9	16
68	Crustal structure of the Transantarctic Mountains near the Ross Sea from ambient seismic noise tomography. <i>Journal of Geophysical Research</i> , 2010 , 115,		16
67	The 1966 Kremasta reservoir earthquake sequence. <i>Earth and Planetary Science Letters</i> , 1982 , 59, 49-60	5.3	16
66	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	5.3	16
65	Intermediate-Depth Earthquakes Controlled by Incoming Plate Hydration Along Bending-Related Faults. <i>Geophysical Research Letters</i> , 2019 , 46, 3688-3697	4.9	15
64	Shallow seismicity and tectonics of the central and northern Lau Basin. <i>Earth and Planetary Science Letters</i> , 2011 , 304, 538-546	5.3	15
63	Aftershock sequences of moderate-sized intermediate and deep earthquakes in the Tonga Subduction Zone. <i>Geophysical Research Letters</i> , 1997 , 24, 2059-2062	4.9	15
62	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	2.3	15
61	Slow subduction of old lithosphere in the lesser antilles. <i>Tectonophysics</i> , 1983 , 99, 139-148	3.1	15
60	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	5.3	15
59	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	14
58	Why does near ridge extensional seismicity occur primarily in the Indian Ocean?. <i>Earth and Planetary Science Letters</i> , 1987 , 82, 107-113	5.3	14
57	Near-Surface Environmentally Forced Changes in the Ross Ice Shelf Observed With Ambient Seismic Noise. <i>Geophysical Research Letters</i> , 2018 , 45, 11,187	4.9	14
56	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	5.3	14

55	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	2.3	13
54	Reactivation of ancient Antarctic rift zones by intraplate seismicity. <i>Nature Geoscience</i> , 2018 , 11, 515-519	4.3	13
53	Mantle transition zone thickness beneath Ross Island, the Transantarctic Mountains, and East Antarctica. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4.9	13
52	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	5.3	12
51	Eruption of South Sarigan Seamount, Northern Mariana Islands: Insights into Hazards from Submarine Volcanic Eruptions. <i>Oceanography</i> , 2014 , 27, 24-31	2.3	12
50	Seismogenic characteristics of the Northern Mariana shallow thrust zone from local array data. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	12
49	Depth of the 660-km discontinuity near the Mariana slab from an array of ocean bottom seismographs. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	12
48	Depression of the 660 km discontinuity beneath the Tonga Slab determined from near-vertical ScS reverberations. <i>Geophysical Research Letters</i> , 1999 , 26, 1223-1226	4.9	12
47	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		12
46	Shear velocity structure of the Mariana mantle wedge from Rayleigh wave phase velocities. <i>Journal of Geophysical Research</i> , 2010 , 115,		11
45	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	11
44	The largest recorded earthquake swarm: Intraplate faulting near the Southwest Indian Ridge. <i>Journal of Geophysical Research</i> , 1990 , 95, 4735		11
43	P Wave Teleseismic Traveltime Tomography of the North American Midcontinent. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 1725-1742	3.6	10
42	A previously unreported type of seismic source in the firn layer of the East Antarctic Ice Sheet. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 2237-2252	3.8	10
41	Dynamic triggering of deep earthquakes within a fossil slab. <i>Geophysical Research Letters</i> , 2016 , 43, 9492-9499	4.9	9
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