Douglas A Wiens

List of Publications by Year in Descending Order

198 papers	8,192 citations	52 h-index	79 g-index
215 ext. papers	9,165 ext. citations	7.8 avg, IF	5.99 L-index

#	Paper	IF	Citations
198	Lithospheric Erosion in the Patagonian Slab Window, and Implications for Glacial Isostasy. *Geophysical Research Letters*, **2022**, 49,	4.9	2
197	Swell-Triggered Seismicity at the Near-Front Damage Zone of the Ross Ice Shelf. *Seismological Research Letters*, **2021**, 92, 2768-2792	3	4
196	Diamonds Hold Clues About the Cause of Deep Earthquakes. *AGU Advances*, **2021**, 2, e2021AV000434	5.4	1
195	Teleseismic earthquake wavefields observed on the Ross Ice Shelf. *Journal of Glaciology*, **2021**, 67, 58-74	3.4	3
194	Seismicity and Pn Velocity Structure of Central West Antarctica. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2020GC009471	3.6	1
193	Upper Mantle Hydration Indicated by Decreased Shear Velocity Near the Southern Mariana Trench From Rayleigh Wave Tomography. *Geophysical Research Letters*, **2021**, 48, e2021GL093309	4.9	0
192	Prominent thermal anomalies in the mantle transition zone beneath the Transantarctic Mountains. *Geology*, **2020**, 48, 748-752	5	2
191	A Geothermal Heat Flux Map of Antarctica Empirically Constrained by Seismic Structure. *Geophysical Research Letters*, **2020**, 47, e2020GL086955	4.9	24
190	High Rates of Deep Earthquake Dynamic Triggering in the Thermal Halos of Subducting Slabs. *Geophysical Research Letters*, **2020**, 47, e2019GL086125	4.9	1
189	Seismicity of the Incoming Plate and Forearc Near the Mariana Trench Recorded by Ocean Bottom Seismographs. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC008953	3.6	4
188	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	5.3	4
187	High Bulk and Shear Attenuation Due to Partial Melt in the Tonga-Lau Back-arc Mantle. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB017527	3.6	7
186	Glacial Earthquakes and Precursory Seismicity Associated With Thwaites Glacier Calving. *Geophysical Research Letters*, **2020**, 47, e2019GL086178	4.9	5
185	Seismic Structure of the Antarctic Upper Mantle Imaged with Adjoint Tomography. *Journal of Geophysical Research: Solid Earth*, **2020**, 125,	3.6	30
184	The Alaska Amphibious Community Seismic Experiment. *Seismological Research Letters*, **2020**, 91, 3054-3063	3	6
183	A joint inversion of receiver function and Rayleigh wave phase velocity dispersion data to estimate crustal structure in West Antarctica. *Geophysical Journal International*, **2020**, 223, 1644-1657	2.6	1
182	Mapping Crustal Shear Wave Velocity Structure and Radial Anisotropy Beneath West Antarctica Using Seismic Ambient Noise. *Geochemistry, Geophysics, Geosystems*, **2019**, 20, 5014-5037	3.6	4

181	Seasonal and spatial variations in the ocean-coupled ambient wavefield of the Ross Ice Shelf. *Journal of Glaciology*, **2019**, 65, 912-925	3.4	8
180	Solid Earth change and the evolution of the Antarctic Ice Sheet. *Nature Communications*, **2019**, 10, 503	17.4	53
179	Tidal and Thermal Stresses Drive Seismicity Along a Major Ross Ice Shelf Rift. *Geophysical Research Letters*, **2019**, 46, 6644-6652	4.9	16
178	P Wave Teleseismic Traveltime Tomography of the North American Midcontinent. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 1725-1742	3.6	10
177	Intermediate-Depth Earthquakes Controlled by Incoming Plate Hydration Along Bending-Related Faults. *Geophysical Research Letters*, **2019**, 46, 3688-3697	4.9	15
176	Complex and Diverse Rupture Processes of the 2018 Mw 8.2 and Mw 7.9 Tonga-Fiji Deep Earthquakes. *Geophysical Research Letters*, **2019**, 46, 2434-2448	4.9	7
175	Crustal and lithospheric structure of inactive volcanic arc terrains in Fiji. *Tectonophysics*, **2019**, 750, 394-403	3.1	3
174	Ross Ice Shelf Icequakes Associated With Ocean Gravity Wave Activity. *Geophysical Research Letters*, **2019**, 46, 8893-8902	4.9	17
173	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	5.3	12
172	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	5.3	15
171	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	3.6	43
170	Reactivation of ancient Antarctic rift zones by intraplate seismicity. *Nature Geoscience*, **2018**, 11, 515-519	18.3	13
169	Observed rapid bedrock uplift in Amundsen Sea Embayment promotes ice-sheet stability. *Science*, **2018**, 360, 1335-1339	33.3	104
168	Seismic evidence for lithospheric foundering beneath the southern Transantarctic Mountains, Antarctica. *Geology*, **2018**, 46, 71-74	5	32
167	Water input into the Mariana subduction zone estimated from ocean-bottom seismic data. *Nature*, **2018**, 563, 389-392	50.4	92
166	Ocean-excited plate waves in the Ross and Pine Island Glacier ice shelves. *Journal of Glaciology*, **2018**, 64, 730-744	3.4	9
165	Near-Surface Environmentally Forced Changes in the Ross Ice Shelf Observed With Ambient Seismic Noise. *Geophysical Research Letters*, **2018**, 45, 11,187	4.9	14
164	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	5.3	14

163	Slab temperature controls on the Tonga double seismic zone and slab mantle dehydration. *Science Advances*, **2017**, 3, e1601755	14.3	30
162	Tsunami and infragravity waves impacting Antarctic ice shelves. *Journal of Geophysical Research: Oceans*, **2017**, 122, 5786-5801	3.3	21
161	The uppermost mantle seismic velocity and viscosity structure of central West Antarctica. *Earth and Planetary Science Letters*, **2017**, 472, 38-49	5.3	25
160	Sea Level Fingerprints in a Region of Complex Earth Structure: The Case of WAIS. *Journal of Climate* , **2017**, 30, 1881-1892	4.4	34
159	Implications of Sea Ice on Southern Ocean Microseisms Detected by a Seismic Array in West Antarctica. *Geophysical Journal International*, **2017**, ggx007	2.6	5
158	Influence of a West Antarctic mantle plume on ice sheet basal conditions. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 7127-7155	3.6	47
157	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	2.6	19
156	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	5.3	33
155	Dynamic triggering of deep earthquakes within a fossil slab. *Geophysical Research Letters*, **2016**, 43, 9492-9499	4.4	9
154	Upper mantle structure of the Tonga-Lau-Fiji region from Rayleigh wave tomography. *Geochemistry, Geophysics, Geosystems*, **2016**, 17, 4705-4724	3.6	8
153	Distinct crustal structure of the North American Midcontinent Rift from P wave receiver functions. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 8136-8153	3.6	23
152	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	3.6	64
151	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	2.6	30
150	Strong seismic scatterers near the core-mantle boundary north of the Pacific Anomaly. *Physics of the Earth and Planetary Interiors*, **2016**, 253, 21-30	2.3	13
149	Ice shelf structure derived from dispersion curve analysis of ambient seismic noise, Ross Ice Shelf, Antarctica. *Geophysical Journal International*, **2016**, 205, 785-795	2.6	33
148	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	5.3	16
147	The Seismic Noise Environment of Antarctica. *Seismological Research Letters*, **2015**, 86, 89-100	3	34
146	Antarctic ice velocities from GPS locations logged by seismic stations. *Antarctic Science*, **2015**, 27, 210-222	2.7	3

145	S-velocity model and inferred Moho topography beneath the Antarctic Plate from Rayleigh waves. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 359-383	3.6	103
144	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	3.6	91
143	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	3.6	39
142	The 3 May 2006 (Mw 8.0) and 19 March 2009 (Mw 7.6) Tonga earthquakes: Intraslab compressional faulting below the megathrust. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 6297-6316	3.6	9
141	Ross ice shelf vibrations. *Geophysical Research Letters*, **2015**, 42, 7589-7597	4.9	40
140	The mantle transition zone beneath West Antarctica: Seismic evidence for hydration and thermal upwellings. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 40-58	3.6	33
139	P and S velocity tomography of the Mariana subduction system from a combined land-sea seismic deployment. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 681-704	3.6	22
138	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	3.6	32
137	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	3.8	10
136	Seasonal and Diurnal Variations in Long-Period Noise at SPREE Stations: The Influence of Soil Characteristics on Shallow Stations Performance. *Bulletin of the Seismological Society of America*, **2015**, 105, 2433-2452	2.3	38
135	Seismic evidence of effects of water on melt transport in the Lau back-arc mantle. *Nature*, **2015**, 518, 395-8	50.4	31
134	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	5.3	27
133	Seismological imaging of ridge arc interaction beneath the Eastern Lau Spreading Center from OBS ambient noise tomography. *Earth and Planetary Science Letters*, **2014**, 408, 194-206	5.3	20
132	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	5.3	65
131	Antarctic icequakes triggered by the 2010 Maule earthquake in Chile. *Nature Geoscience*, **2014**, 7, 677-681	18.3	35
130	Reconciling mantle attenuation-temperature relationships from seismology, petrology, and laboratory measurements. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 3521-3542	3.6	53
129	Seismic and geodetic evidence for grounding-line control of Whillans Ice Stream stick-slip events. *Journal of Geophysical Research F: Earth Surface*, **2014**, 119, 333-348	3.8	45
128	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	3.6	27

127	Tidal pacing, skipped slips and the slowdown of Whillans Ice Stream, Antarctica. *Journal of Glaciology*, **2014**, 60, 795-807	3.4	67
126	Eruption of South Sarigan Seamount, Northern Mariana Islands: Insights into Hazards from Submarine Volcanic Eruptions. *Oceanography*, **2014**, 27, 24-31	2.3	12
125	The crustal thickness of West Antarctica. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 378-395	3.6	82
124	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	2.6	23
123	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	2.6	24
122	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	3.6	31
121	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	3.6	18
120	Seismological Constraints on Earth's Deep Water Cycle. *Geophysical Monograph Series*, **2013**, 13-27	1.1	5
119	Seismic detection of an active subglacial magmatic complex in Marie Byrd Land, Antarctica. *Nature Geoscience*, **2013**, 6, 1031-1035	18.3	44
118	Improving Models of Earth's Response to Ice and Ocean Loading Changes. *Eos*, **2013**, 94, 353-353	1.5	
117	Nucleation and seismic tremor associated with the glacial earthquakes of Whillans Ice Stream, Antarctica. *Geophysical Research Letters*, **2013**, 40, 312-315	4.9	53
116	Upper-mantle anisotropy beneath the Cameroon Volcanic Line and Congo Craton from shear wave splitting measurements. *Geophysical Journal International*, **2012**, 190, 75-86	2.6	27
115	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	5.3	29
114	Motion of an Antarctic glacier by repeated tidally modulated earthquakes. *Nature Geoscience*, **2012**, 5, 623-626	18.3	57
113	Crustal structure from the Lützow-Holm Bay to the inland plateau of East Antarctica, based on onshore gravity surveys and broadband seismic deployments. *Tectonophysics*, **2012**, 572-573, 100-110	3.1	2
112	Comparison of global synthetic seismograms calculated using the spherical 2.5-D finite-difference method with observed long-period waveforms including data from the intra-Antarctic region. *Polar Science*, **2012**, 6, 155-164	2.3	2
111	Seismogenic characteristics of the Northern Mariana shallow thrust zone from local array data. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	12
110	Shallow seismicity and tectonics of the central and northern Lau Basin. *Earth and Planetary Science Letters*, **2011**, 304, 538-546	5.3	15

109	Dynamics of stick‐slip motion, Whillans Ice Stream, Antarctica. *Earth and Planetary Science Letters*, **2011**, 305, 283-289	5.3	51
108	Crustal Vp-Vs ratios and thickness for Ross Island and the Transantarctic Mountain front, Antarctica. *Geophysical Journal International*, **2011**, 185, 85-92	2.6	24
107	Mantle transition zone thickness beneath Cameroon: evidence for an upper mantle origin for the Cameroon Volcanic Line. *Geophysical Journal International*, **2011**, 187, 1146-1150	2.6	46
106	Learning from failure: The SPREE Mid-Continent Rift Experiment. *GSA Today*, **2011**, 21, 5-7	2.8	17
105	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	2.6	96
104	Shear velocity structure of the Mariana mantle wedge from Rayleigh wave phase velocities. *Journal of Geophysical Research*, **2010**, 115,		11
103	Crustal structure of the Transantarctic Mountains near the Ross Sea from ambient seismic noise tomography. *Journal of Geophysical Research*, **2010**, 115,		16
102	Upper mantle structure beneath Cameroon from body wave tomography and the origin of the Cameroon Volcanic Line. *Geochemistry, Geophysics, Geosystems*, **2010**, 11, n/a-n/a	3.6	71
101	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	5.3	56
100	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	2.6	17
99	Seismic attenuation tomography of the Mariana subduction system: Implications for thermal structure, volatile distribution, and slow spreading dynamics. *Geochemistry, Geophysics, Geosystems*, **2009**, 10, n/a-n/a	3.6	70
98	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, n/a-n/a	3.6	42
97	Performance Characteristics of a Rotational Seismometer for Near-Field and Engineering Applications. *Bulletin of the Seismological Society of America*, **2009**, 99, 1181-1189	2.3	11
96	Simultaneous teleseismic and geodetic observations of the stick-slip motion of an Antarctic ice stream. *Nature*, **2008**, 453, 770-4	50.4	122
95	The Seismic Structure and Dynamics of the Mantle Wedge. *Annual Review of Earth and Planetary Sciences*, **2008**, 36, 421-455	15.3	105
94	Earthquake evidence for along-arc extension in the Mariana Islands. *Geochemistry, Geophysics, Geosystems*, **2008**, 9, n/a-n/a	3.6	18
93	Mantle transition zone thickness beneath Ross Island, the Transantarctic Mountains, and East Antarctica. *Geophysical Research Letters*, **2008**, 35, n/a-n/a	4.9	13
92	Seismic evidence for widespread serpentinized forearc mantle along the Mariana convergence margin. *Geophysical Research Letters*, **2008**, 35,	4.9	41

91	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. *Geophysical Research Letters*, **2007**, 34,	4.9	14
90	Complex mantle flow in the Mariana subduction system: evidence from shear wave splitting. *Geophysical Journal International*, **2007**, 170, 371-386	2.6	79
89	Rapid mantle flow beneath the Tonga volcanic arc. *Earth and Planetary Science Letters*, **2007**, 264, 299-307	5.3	47
88	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	3.6	58
87	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	3.6	54
86	Upper mantle thermal variations beneath the Transantarctic Mountains inferred from teleseismic S-wave attenuation. *Geophysical Research Letters*, **2006**, 33,	4.9	27
85	Depth of the 660-km discontinuity near the Mariana slab from an array of ocean bottom seismographs. *Geophysical Research Letters*, **2006**, 33,	4.9	12
84	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		43
83	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	3.6	57
82	Mantle Structure and Flow Patterns Beneath Active Back-Arc Basins Inferred from Passive Seismic and Electromagnetic Methods. *Geophysical Monograph Series*, **2006**, 43-62	1.1	2
81	Mantle temperature variations beneath back-arc spreading centers inferred from seismology, petrology, and bathymetry. *Earth and Planetary Science Letters*, **2006**, 248, 30-42	5.3	67
80	Long-term eruptive activity at a submarine arc volcano. *Nature*, **2006**, 441, 494-7	50.4	101
79	Crustal and upper mantle S-wave velocity structure beneath the Bransfield Strait (West Antarctica) from regional surface wave tomography. *Tectonophysics*, **2005**, 397, 241-259	3.1	29
78	Detailed structure and sharpness of upper mantle discontinuities in the Tonga subduction zone from regional broadband arrays. *Journal of Geophysical Research*, **2005**, 110,		23
77	Tilt recorded by a portable broadband seismograph: The 2003 eruption of Anatahan Volcano, Mariana Islands. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	26
76	Seismicity and tilt associated with the 2003 Anatahan eruption sequence. *Journal of Volcanology and Geothermal Research*, **2005**, 146, 60-76	2.8	20
75	Observing the historic eruption of northern Mariana Islands volcano. *Eos*, **2004**, 85, 2	1.5	3
74	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	2.3	59

73	Seismological Constraints on Structure and Flow Patterns within the Mantle Wedge. *Geophysical Monograph Series*, **2003**, 59-81	1.1	26
72	Remote triggering of deep earthquakes in the 2002 Tonga sequences. *Nature*, **2003**, 424, 921-5	50.4	54
71	Tonga Ridge and Lau Basin crustal structure from seismic refraction data. *Journal of Geophysical Research*, **2003**, 108,		79
70	Crustal and upper mantle structure of southernmost South America inferred from regional waveform inversion. *Journal of Geophysical Research*, **2003**, 108,		20
69	Source characteristics of large deep earthquakes: Constraint on the faulting mechanism at great depths. *Journal of Geophysical Research*, **2003**, 108,		41
68	Seismicity and tectonics of the South Shetland Islands and Bransfield Strait from a regional broadband seismograph deployment. *Journal of Geophysical Research*, **2003**, 108,		44
67	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	2.6	30
66	On the decompression melting structure at volcanic arcs and back-arc spreading centers. *Geophysical Research Letters*, **2002**, 29, 17-1-17-4	4.9	92
65	A complex pattern of mantle flow in the Lau backarc. *Science*, **2001**, 292, 713-6	33.3	235
64	Repeating deep earthquakes: evidence for fault reactivation at great depth. *Science*, **2001**, 293, 1463-6	33.3	35
63	Upper mantle discontinuity structure in the region of the Tonga Subduction Zone. *Geophysical Research Letters*, **2001**, 28, 1855-1858	4.9	26
62	Aftershock locations and rupture characteristics of the 1995 Mariana Deep Earthquake. *Geophysical Research Letters*, **2001**, 28, 4311-4314	4.9	9
61	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	2.3	85
60	Aftershocks of the March 9, 1994, Tonga earthquake: The strongest known deep aftershock sequence. *Journal of Geophysical Research*, **2000**, 105, 19067-19083		20
59	An empirical relationship between seismic attenuation and velocity anomalies in the upper mantle. *Geophysical Research Letters*, **2000**, 27, 601-604	4.9	48
58	The waveguide effect of metastable olivine in slabs. *Geophysical Research Letters*, **2000**, 27, 581-584	4.9	21
57	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	2.3	15
56	Seismic attenuation tomography of the Tonga-Fiji region using phase pair methods. *Journal of Geophysical Research*, **1999**, 104, 4795-4809		91

55	Depression of the 660 km discontinuity beneath the Tonga Slab determined from near-vertical ScS reverberations. *Geophysical Research Letters*, **1999**, 26, 1223-1226	4.9	12
54	Constraints on the origin of slab and mantle wedge anomalies in Tonga from the ratio of S to P velocities. *Journal of Geophysical Research*, **1999**, 104, 15089-15104		20
53	Anisotropy and Flow in Pacific Subduction Zone Back-arcs. *Pure and Applied Geophysics*, **1998**, 151, 463-475	2.2	67
52	Attenuation of Broadband P and S Waves in Tonga: Observations of Frequency Dependent Q. *Pure and Applied Geophysics*, **1998**, 153, 345-375	2.2	41
51	Source and aftershock properties of the 1996 Flores Sea Deep Earthquake. *Geophysical Research Letters*, **1998**, 25, 781-784	4.9	6
50	Modeling the Tonga slab: Can travel time data resolve a metastable olivine wedge?. *Journal of Geophysical Research*, **1998**, 103, 30079-30100		51
49	GEOSCIENCE: Enhanced: Sliding Skis and Slipping Faults. *Science*, **1998**, 279, 824-825	33.3	4
48	Attenuation of Broadband P and S Waves in Tonga: Observations of Frequency Dependent Q **1998**, 345-375		1
47	Anisotropy and Flow in Pacific Subduction Zone Back-arcs **1998**, 463-475		
46	Upper mantle structure of the southwest Pacific from regional waveform inversion. *Journal of Geophysical Research*, **1997**, 102, 27439-27451		36
45	State of stress before and after the 1994 Northridge Earthquake. *Geophysical Research Letters*, **1997**, 24, 519-522	4.9	46
44	Aftershock sequences of moderate-sized intermediate and deep earthquakes in the Tonga Subduction Zone. *Geophysical Research Letters*, **1997**, 24, 2059-2062	4.9	15
43	Depth Extent of the Lau Back-Arc Spreading Center and Its Relation to Subduction Processes. *Science*, **1997**, 278, 254-257	33.3	277
42	The March 9, 1994 (M w 7.6), deep Tonga earthquake: Rupture outside the seismically active slab. *Journal of Geophysical Research*, **1997**, 102, 15163-15182		44
41	The Flinn-Engdahl Regionalisation Scheme: The 1995 revision. *Physics of the Earth and Planetary Interiors*, **1996**, 96, 223-297	2.3	45
40	The depth distribution of mantle anisotropy beneath the Tonga subduction zone. *Earth and Planetary Science Letters*, **1996**, 142, 253-260	5.3	105
39	Tomography of the Source Area of the 1995 Kobe Earthquake: Evidence for Fluids at the Hypocenter?. *Science*, **1996**, 274, 1891-4	33.3	291
38	Effect of slab temperature on deep-earthquake aftershock productivity and magnitude–frequency relations. *Nature*, **1996**, 384, 153-156	50.4	62

37	The 1994 Bolivia and Tonga events: Fundamentally different types of deep earthquakes?. *Geophysical Research Letters*, **1995**, 22, 2245-2248	4.9	33
36	A double seismic zone in New Britain and the morphology of the Solomon Plate at intermediate depths. *Geophysical Research Letters*, **1995**, 22, 1965-1968	4.9	26
35	A deep earthquake aftershock sequence and implications for the rupture mechanism of deep earthquakes. *Nature*, **1994**, 372, 540-543	50.4	78
34	Radial upper mantle attenuation structure of inactive back arc basins from differential shear wave measurements. *Journal of Geophysical Research*, **1994**, 99, 15469		39
33	Evidence for transformational faulting from a deep double seismic zone in Tonga. *Nature*, **1993**, 364, 790-793	50.4	88
32	Evidence from earthquakes for bookshelf faulting at large non-transform ridge offsets. *Nature*, **1993**, 362, 235-237	50.4	45
31	Tsunami earthquakes: Slow thrust-faulting events in the accretionary wedge. *Journal of Geophysical Research*, **1992**, 97, 15321		134
30	Thermoelastic stress in oceanic lithosphere due to hotspot reheating. *Journal of Geophysical Research*, **1991**, 96, 18323		8
29	A further proposal for additional regions for the Flinn-Engdahl Regionalization Scheme. *Geophysical Journal International*, **1990**, 103, 759-762	2.6	2
28	The November 20,1960 Peru Tsunami Earthquake: Source mechanism of a slow event. *Geophysical Research Letters*, **1990**, 17, 661-664	4.9	39
27	Attenuation structure beneath the Lau Back Arc Spreading Center from teleseismic S phases. *Geophysical Research Letters*, **1990**, 17, 2117-2120	4.9	34
26	The largest recorded earthquake swarm: Intraplate faulting near the Southwest Indian Ridge. *Journal of Geophysical Research*, **1990**, 95, 4735		11
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