Donna Eberhart-Phillips

List of Publications by Year
in descending order

88 papers	7,470 citations	71004 43 h-index	62345 84 g-index
90 all docs	90 docs citations	90 times ranked	4317 citing authors

#	Article	IF	Citations
1	Catalogue of 2001â€“2011 New Zealand earthquakes relocated with 3-D seismic velocity model and comparison to 2019â€“2020 auto-detected earthquakes in the sparsely instrumented southern South Island. New Zealand Journal of Geology, and Geophysics, 2023, 66, 646-653.	1.0	4
2	The Influence of Basement Terranes on Tectonic Deformation: Joint Earthquake Travelâ€Time and Ambient Noise Tomography of the Southern South Island, New Zealand. Tectonics, 2022, 41, .	1.3	5
3	Fracturing and pore-fluid distribution in the Marlborough region, New Zealand from body-wave tomography: Implications for regional understanding of the KaikÅura area. Earth and Planetary Science Letters, 2022, 593, 117666.	1.8	3
4	A Geology and Geodesy Based Model of Dynamic Earthquake Rupture on the Rodgers Creekâ€Haywardâ€Calaveras Fault System, California. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020577.	1.4	24
5	Near Trench 3D Seismic Attenuation Offshore Northern Hikurangi Subduction Margin, North Island, New Zealand. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020810.	1.4	6
6	Heterogeneous material propertiesâ€”as inferred from seismic attenuationâ€”influenced multiple fault rupture and ductile creep of the KaikouraMw 7.8 earthquake, New Zealand. Geophysical Journal International, 2021, 227, 1204-1227.	1.0	7
7	Attenuation in the mantle wedge beneath super-volcanoes of the Taupo Volcanic Zone, New Zealand. Geophysical Journal International, 2020, 220, 703-723.	1.0	24
8	3D Seismic Velocity Models for Alaska from Joint Tomographic Inversion of Body-Wave and Surface-Wave Data. Seismological Research Letters, 2020, 91, 3106-3119.	0.8	21
9	Upper Plate Heterogeneity Along the Southern Hikurangi Margin, New Zealand. Geophysical Research Letters, 2020, 47, e2019GL085511.	1.5	11
10	Crustal Fault Connectivity of the M_w 7.8 2016 KaikÅura Earthquake Constrained by Aftershock Relocations. Geophysical Research Letters, 2019, 46, 6487-6496.	1.5	29
11	Insights into the structure and tectonic history of the southern South Island, New Zealand, from the 3-D distribution of P- and S-wave attenuation. Geophysical Journal International, 2018, 214, 1479-1505.	1.0	7
12	Joint local earthquake and teleseismic inversion for 3-D velocity and Q in New Zealand. Physics of the Earth and Planetary Interiors, 2018, 283, 48-66.	0.7	10
13	Detecting hazardous New Zealand faults at depth using seismic velocity gradients. Earth and Planetary Science Letters, 2017, 463, 333-343.	1.8	13
14	Subducting an old subduction zone sideways provides insights into what controls plate coupling. Earth and Planetary Science Letters, 2017, 466, 53-61.	1.8	22
15	Three-dimensional imaging of impact of a large igneous province with a subduction zone. Earth and Planetary Science Letters, 2017, 460, 143-151.	1.8	30
16	Deciphering the 3-D distribution of fluid along the shallow Hikurangi subduction zone using P- and S-wave attenuation. Geophysical Journal International, 2017, 211, 1032-1045.	1.0	34
17	A new scheme for joint surface wave and earthquake travel-time inversion and resulting 3-D velocity model for the western North Island, New Zealand. Physics of the Earth and Planetary Interiors, 2017, 269, 98-111.	0.7	6
18	Northern California Seismic Attenuation: 3DQ_PandQ_SModels. Bulletin of the Seismological Society of America, 2016, 106, 2558-2573.	1.1	18

#	Article	IF	Citations
19	Calculating regional stresses for northern Canterbury: the effect of the 2010 Darfield earthquake. New Zealand Journal of Geology, and Geophysics, 2016, 59, 202-212.	1.0	5
20	Microseismicity and Pâ€“wave tomography of the central Alpine Fault, New Zealand. New Zealand Journal of Geology, and Geophysics, 2016, 59, 483-495.	1.0	13
21	3-D imaging of the northern Hikurangi subduction zone, New Zealand: variations in subducted sediment, slab fluids and slow slip. Geophysical Journal International, 2015, 201, 838-855.	1.0	50
22	A 3DQ_PAttenuation Model for All of New Zealand. Seismological Research Letters, 2015, 86, 1655-1663.	0.8	17
23	Prolonged Canterbury earthquake sequence linked to widespread weakening of strong crust. Nature Geoscience, 2014, 7, 34-37.	5.4	29
24	Mantle accommodation of lithospheric shortening as seen by combined surface wave and teleseismic imaging in the South Island, New Zealand. Geophysical Journal International, 2014, 199, 499-513.	1.0	13
25	Imaging P and S attenuation in the termination region of the Hikurangi subduction zone, New Zealand. Geophysical Journal International, 2014, 198, 516-536.	1.0	23
26	Depth variable crustal anisotropy, patterns of crustal weakness, and destructive earthquakes in Canterbury, New Zealand. Earth and Planetary Science Letters, 2014, 392, 50-57.	1.8	7
27	Imaging P and S Attenuation in the Sacramento-San Joaquin Delta Region, Northern California. Bulletin of the Seismological Society of America, 2014, 104, 2322-2336.	1.1	14
28	Along-strike variation in subducting plate seismicity and mantle wedge attenuation related to fluid release beneath the North Island, New Zealand. Physics of the Earth and Planetary Interiors, 2013, 225, 12-27.	0.7	21
29	Revised Interface Geometry for the Hikurangi Subduction Zone, New Zealand. Seismological Research Letters, 2013, 84, 1066-1073.	0.8	163
30	Newly observed, deep slow slip events at the central Hikurangi margin, New Zealand: Implications for downdip variability of slow slip and tremor, and relationship to seismic structure. Geophysical Research Letters, 2013, 40, 5393-5398.	1.5	66
31	Imaging the Hikurangi Plate interface region, with improved local-earthquake tomography. Geophysical Journal International, 2012, 190, 1221-1242.	1.0	43
32	Tracking repeated subduction of the Hikurangi Plateau beneath New Zealand. Earth and Planetary Science Letters, 2011, 311, 165-171.	1.8	107
33	Influence of the 3D Distribution of Q and Crustal Structure on Ground Motions from the 2003 Mw 7.2 Fiordland, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2010, 100, 1225-1240.	1.1	13
34	Three-dimensionalQp- andQs-tomography beneath Taiwan orogenic belt: implications for tectonic and thermal structure. Geophysical Journal International, 2010, 180, 891-910.	1.0	44
35	3-D imaging of Marlborough, New Zealand, subducted plate and strike-slip fault systems. Geophysical Journal International, 2010, , no-no.	1.0	21
36	Crustal heterogeneity highlighted by spatial b-value map in the Wellington region of New Zealand. Geophysical Journal International, 2010, 183, 451-460.	1.0	18

#	Article	IF	Citations
37	Establishing a Versatile 3-D Seismic Velocity Model for New Zealand. Seismological Research Letters, 2010, 81, 992-1000.	0.8	115
38	Small earthquakes provide insight into plate coupling and fluid distribution in the Hikurangi subduction zone, New Zealand. Earth and Planetary Science Letters, 2009, 282, 299-305.	1.8	67
39	Characterizing the seismogenic zone of a major plate boundary subduction thrust: Hikurangi Margin, New Zealand. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	142
40	Threeâ€dimensional distribution of seismic anisotropy in the Hikurangi subduction zone beneath the central North Island, New Zealand. Journal of Geophysical Research, 2009, 114, .	3.3	58
41	Three-dimensional attenuation structure of the Hikurangi subduction zone in the central North Island, New Zealand. Geophysical Journal International, 2008, 174, 418-434.	1.0	80
42	Threeâ€dimensional attenuation structure of central and southern South Island, New Zealand, from local earthquakes. Journal of Geophysical Research, 2008, 113, .	3.3	50
43	Geophysical structure of the Southern Alps Orogen, South Island, New Zealand. Geophysical Monograph Series, 2007, , 47-72.	0.1	14
44	Do great earthquakes occur on the Alpine Fault in central South Island, New Zealand?. Geophysical Monograph Series, 2007, , 235-251.	0.1	84
45	The role of fluids in lower-crustal earthquakes near continental rifts. Nature, 2007, 446, 1075-1078.	13.7	102
46	Imaging the transition from Aleutian subduction to Yakutat collision in central Alaska, with local earthquakes and active source data. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	228
47	Imaging subduction from the trench to 300 km depth beneath the central North Island, New Zealand, withVpandVp/Vs. Geophysical Journal International, 2006, 165, 565-583.	1.0	196
48	Simplified models of the Alpine Fault seismic cycle: stress transfer in the mid-crust. Geophysical Journal International, 2006, 166, 386-402.	1.0	54
49	Bounds on the width of mantle lithosphere flow derived from surface geodetic measurements: application to the central Southern Alps, New Zealand. Geophysical Journal International, 2006, 166, 403-417.	1.0	18
50	Three-Dimensional Compressional Wavespeed Model, Earthquake Relocations, and Focal Mechanisms for the Parkfield, California, Region. Bulletin of the Seismological Society of America, 2006, 96, S38-S49.	1.1	202
51	Crustal heterogeneity and subduction processes: 3-DVp, Vp/VsandQin the southern North Island, New Zealand. Geophysical Journal International, 2005, 162, 270-288.	1.0	79
52	Including anisotropy in 3-D velocity inversion and application to Marlborough, New Zealand. Geophysical Journal International, 2004, 156, 237-254.	1.0	107
53	New constraints on seismicity in the Wellington region of New Zealand from relocated earthquake hypocentres. Geophysical Journal International, 2004, 158, 1088-1102.	1.0	31
54	Earthquake Relocation Using Cross-Correlation Time Delay Estimates Verified with the Bispectrum Method. Bulletin of the Seismological Society of America, 2004, 94, 856-866.	1.1	64

#	Article	IF	Citations
55	Extension and partitioning in an oblique subduction zone, New Zealand: Constraints from three-dimensional numerical modeling. Tectonics, 2003, 22, n/a-n/a.	1.3	43
56	The 2000 Thompson Sound earthquake, New Zealand. New Zealand Journal of Geology, and Geophysics, 2003, 46, 331-341.	1.0	14
57	The 2002 Denali Fault Earthquake, Alaska: A Large Magnitude, Slip-Partitioned Event. Science, 2003, 300, 1113-1118.	6.0	359
58	Estimating Slab Earthquake Response Spectra from a 3D Q Model. Bulletin of the Seismological Society of America, 2003, 93, 2649-2663.	1.1	24
59	Intermediate-Depth Earthquakes in a Region of Continental Convergence: South Island, New Zealand. Bulletin of the Seismological Society of America, 2003, 93, 85-93.	1.1	17
60	Three-dimensional lithospheric structure below the New Zealand Southern Alps. Journal of Geophysical Research, 2002, 107, ESE 6-1-ESE 6-16.	3.3	36
61	Three-dimensional crustal structure in the Southern Alps region of New Zealand from inversion of local earthquake and active source data. Journal of Geophysical Research, 2002, 107, ESE 15-1-ESE 15-20.	3.3	80
62	Three-dimensional attenuation model of the shallow Hikurangi subduction zone in the Raukumara Peninsula, New Zealand. Journal of Geophysical Research, 2002, 107, ESE 3-1.	3.3	114
63	A focused look at the Alpine fault, New Zealand: Seismicity, focal mechanisms, and stress observations. Journal of Geophysical Research, 2001, 106, 2193-2220.	3.3	132
64	A complex, young subduction zone imaged by three-dimensional seismic velocity, Fiordland, New Zealand. Geophysical Journal International, 2001, 146, 731-746.	1.0	73
65	TeleseismicPwave delays and modes of shortening the mantle lithosphere beneath South Island, New Zealand. Journal of Geophysical Research, 2000, 105, 21615-21631.	3.3	89
66	TheM_W6.2 Cass, New Zealand, earthquake of 24 November 1995: Reverse faulting in a strikeâ€slip region. New Zealand Journal of Geology, and Geophysics, 2000, 43, 255-269.	1.0	21
67	A three-dimensional image of shallow subduction: crustal structure of the Raukumara Peninsula, New Zealand. Geophysical Journal International, 1999, 137, 873-890.	1.0	119
68	Local earthquake tomography with flexible gridding. Computers and Geosciences, 1999, 25, 809-818.	2.0	283
69	Continuous Deformation Versus Faulting Through the Continental Lithosphere of New Zealand. Science, 1999, 286, 516-519.	6.0	131
70	Upper mantle anisotropy in the New Zealand Region. Geophysical Research Letters, 1999, 26, 1497-1500.	1.5	73
71	Plate interface properties in the Northeast Hikurangi Subduction Zone, New Zealand, from converted seismic waves. Geophysical Research Letters, 1999, 26, 2565-2568.	1.5	71
72	Preliminary results from a geophysical study across a modern, continent-continent collisional plate boundary â€" the Southern Alps, New Zealand. Tectonophysics, 1998, 288, 221-235.	0.9	97

#	Article	IF	Citations
73	Seismotectonics of the Loma Prieta, California, region determined from three-dimensionalVp,Vp/Vs, and seismicity. Journal of Geophysical Research, 1998, 103, 21099-21120.	3.3	125
74	Aftershock sequence parameters in New Zealand. Bulletin of the Seismological Society of America, 1998, 88, 1095-1097.	1.1	19
75	Continental subduction and three-dimensional crustal structure: The northern South Island, New Zealand. Journal of Geophysical Research, 1997, 102, 11843-11861.	3.3	161
76	Examination of seismicity in the central Alpine Fault region, South Island, New Zealand. New Zealand Journal of Geology, and Geophysics, 1995, 38, 571-578.	1.0	34
77	Surface seismic and electrical methods to detect fluids related to faulting. Journal of Geophysical Research, 1995, 100, 12919-12936.	3.3	153
78	Three-dimensional Vp and Vp/Vs structure at Loma Prieta, California, from local earthquake tomography. Geophysical Research Letters, 1995, 22, 3079-3082.	1.5	45
79	Initial reference models in local earthquake tomography. Journal of Geophysical Research, 1994, 99, 19635-19646.	3.3	822
80	Near-Field Investigations of the Landers Earthquake Sequence, April to July 1992. Science, 1993, 260, 171-176.	6.0	392
81	Threeâ€dimensional velocity structure, seismicity, and fault structure in the Parkfield Region, central California. Journal of Geophysical Research, 1993, 98, 15737-15758.	3.3	248
82	Material heterogeneity simplifies the picture: Loma prieta. Bulletin of the Seismological Society of America, 1992, 82, 1964-1968.	1.1	23
83	Relations Among Fault Behavior, Subsurface Geology, and Three-Dimensional Velocity Models. Science, 1991, 253, 651-654.	6.0	148
84	Preliminary velocity and resistivity models of the Loma Prieta Earthquake region. Geophysical Research Letters, 1990, 17, 1235-1238.	1.5	43
85	Crustal strain near the Big Bend of the San Andreas Fault: Analysis of the Los Padresâ€Tehachapi Trilateration Networks, California. Journal of Geophysical Research, 1990, 95, 1139-1153.	3.3	41
86	Threeâ€dimensional P and S velocity structure in the Coalinga Region, California. Journal of Geophysical Research, 1990, 95, 15343-15363.	3.3	223
87	Empirical relationships among seismic velocity, effective pressure, porosity, and clay content in sandstone. Geophysics, 1989, 54, 82-89.	1.4	404
88	Seismicity in the Clear Lake area, California, 1975â€“1983. Special Paper of the Geological Society of America, 1988, , 195-206.	0.5	2