

John E Vidale

List of Publications by Year in descending order

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144
papers

8,978
citations

34076

52
h-index

43868

91
g-index

146
all docs

146
docs citations

146
times ranked

4412
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite-difference calculation of traveltimes in three dimensions. <i>Geophysics</i> , 1990, 55, 521-526.	1.4	594
2	Extent, duration and speed of the 2004 Sumatra-Andaman earthquake imaged by the Hi-Net array. <i>Nature</i> , 2005, 435, 933-936.	13.7	574
3	Earth Tides Can Trigger Shallow Thrust Fault Earthquakes. <i>Science</i> , 2004, 306, 1164-1166.	6.0	298
4	A survey of 71 earthquake bursts across southern California: Exploring the role of pore fluid pressure fluctuations and aseismic slip as drivers. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	248
5	Tidal Modulation of Nonvolcanic Tremor. <i>Science</i> , 2008, 319, 186-189.	6.0	228
6	Sharpness of upper-mantle discontinuities determined from high-frequency reflections. <i>Nature</i> , 1993, 365, 147-150.	13.7	224
7	Seismic and geodetic evidence for extensive, long-lived fault damage zones. <i>Geology</i> , 2009, 37, 315-318.	2.0	222
8	Non-volcanic tremor driven by large transient shear stresses. <i>Nature</i> , 2007, 448, 579-582.	13.7	221
9	Absence of earthquake correlation with Earth tides: An indication of high preseismic fault stress rate. <i>Journal of Geophysical Research</i> , 1998, 103, 24567-24572.	3.3	208
10	Variations in rupture process with recurrence interval in a repeated small earthquake. <i>Nature</i> , 1994, 368, 624-626.	13.7	198
11	Upper-mantle seismic discontinuities and the thermal structure of subduction zones. <i>Nature</i> , 1992, 356, 678-683.	13.7	193
12	Evidence of Shallow Fault Zone Strengthening After the 1992 M7.5 Landers, California, Earthquake. <i>Science</i> , 1998, 279, 217-219.	6.0	188
13	Fault healing inferred from time dependent variations in source properties of repeating earthquakes. <i>Geophysical Research Letters</i> , 1995, 22, 3095-3098.	1.5	182
14	Damage to the shallow Landers fault from the nearby Hector Mine earthquake. <i>Nature</i> , 2003, 421, 524-526.	13.7	163
15	Seismic Evidence for Rock Damage and Healing on the San Andreas Fault Associated with the 2004 M 6.0 Parkfield Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, S349-S363.	1.1	159
16	Evidence for partial melt at the core-mantle boundary north of Tonga from the strong scattering of seismic waves. <i>Nature</i> , 1998, 391, 682-685.	13.7	158
17	Fine-scale heterogeneity in the Earth's inner core. <i>Nature</i> , 2000, 404, 273-275.	13.7	153
18	Remote triggering of tremor along the San Andreas Fault in central California. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	149

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19	Seismicity rate immediately before and after main shock rupture from high-frequency waveforms in Japan. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	139
20	Widespread Triggering of Nonvolcanic Tremor in California. <i>Science</i> , 2008, 319, 173-173.	6.0	137
21	Broadband Synthetic Seismograms for Magnitude 9 Earthquakes on the Cascadia Megathrust Based on 3D Simulations and Stochastic Synthetics, Part 1: Methodology and Overall Results. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 2347-2369.	1.1	112
22	Teleseismic <i>P</i> wave imaging of the 26 December 2004 Sumatra-Andaman and 28 March 2005 Sumatra earthquake ruptures using the Hi-net array. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	111
23	Slow differential rotation of the Earth's inner core indicated by temporal changes in scattering. <i>Nature</i> , 2000, 405, 445-448.	13.7	107
24	Low-velocity damaged structure of the San Andreas Fault at Parkfield from fault zone trapped waves. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	99
25	Postseismic Fault Healing on the Rupture Zone of the 1999 M 7.1 Hector Mine, California, Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2003, 93, 854-869.	1.1	97
26	Seismic wave triggering of nonvolcanic tremor, episodic tremor and slip, and earthquakes on Vancouver Island. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	97
27	Strongly gliding harmonic tremor during the 2009 eruption of Redoubt Volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 259, 89-99.	0.8	96
28	Depth-dependent structure of the Landers fault zone from trapped waves generated by aftershocks. <i>Journal of Geophysical Research</i> , 2000, 105, 6237-6254.	3.3	95
29	Rapid, continuous streaking of tremor in Cascadia. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	95
30	Fine Structure of the Landers Fault Zone: Segmentation and the Rupture Process. <i>Science</i> , 1994, 265, 367-370.	6.0	94
31	Slow slip: A new kind of earthquake. <i>Physics Today</i> , 2012, 65, 38-43.	0.3	92
32	Anomalous early aftershock decay rate of the 2004 Mw6.0 Parkfield, California, earthquake. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	91
33	Cascadia Tremor Located Near Plate Interface Constrained by <i>S</i> Minus <i>P</i> Wave Times. <i>Science</i> , 2009, 323, 620-623.	6.0	90
34	The depth dependence of earthquake duration and implications for rupture mechanisms. <i>Nature</i> , 1993, 365, 45-47.	13.7	79
35	Near-fault anisotropy following the Hector Mine earthquake. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	78
36	Waveform effects of a high-velocity, subducted slab. <i>Geophysical Research Letters</i> , 1987, 14, 542-545.	1.5	77

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37	Seismological mapping of fine structure near the base of the Earth's mantle. <i>Nature</i> , 1993, 361, 529-532.	13.7	77
38	Complex nonvolcanic tremor near Parkfield, California, triggered by the great 2004 Sumatra earthquake. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	74
39	Demonstration of the Cascadia Gâ€FAST Geodetic Earthquake Early Warning System for the Nisqually, Washington, Earthquake. <i>Seismological Research Letters</i> , 2016, 87, 930-943.	0.8	72
40	Time functions of deep earthquakes from broadband and short-period stacks. <i>Journal of Geophysical Research</i> , 1998, 103, 29895-29913.	3.3	71
41	A sharp and flat section of the coreâ€mantle boundary. <i>Nature</i> , 1992, 359, 627-629.	13.7	70
42	Deep long-period earthquakes beneath Washington and Oregon volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 200, 116-128.	0.8	69
43	Tremor patches in Cascadia revealed by seismic array analysis. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	68
44	Tomography without rays. <i>Bulletin of the Seismological Society of America</i> , 1993, 83, 509-528.	1.1	64
45	Healing of the shallow fault zone from 1994-1998 After the 1992M7.5 Landers, California, Earthquake. <i>Geophysical Research Letters</i> , 2001, 28, 2999-3002.	1.5	62
46	Broadband Synthetic Seismograms for Magnitude 9 Earthquakes on the Cascadia Megathrust Based on 3D Simulations and Stochastic Synthetics, Part 2: Rupture Parameters and Variability. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 2370-2388.	1.1	62
47	Strong tremor near Parkfield, CA, excited by the 2002 Denali Fault earthquake. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	61
48	A delineation of the Nojima fault ruptured in theM7.2 Kobe, Japan, earthquake of 1995 using fault zone trapped waves. <i>Journal of Geophysical Research</i> , 1998, 103, 7247-7263.	3.3	60
49	Tremor asperities in the transition zone control evolution of slow earthquakes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	60
50	Systematic variations in recurrence interval and moment of repeating aftershocks. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	59
51	Anisotropy in the Shallow Crust Observed around the San Andreas Fault Before and After the 2004 M 6.0 Parkfield Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, S364-S375.	1.1	59
52	Crustal earthquake bursts in California and Japan: Their patterns and relation to volcanoes. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	58
53	The 1999 Hector Mine Earthquake: The Dynamics of a Branched Fault System. <i>Bulletin of the Seismological Society of America</i> , 2003, 93, 2459-2476.	1.1	53
54	A stable freeâ€surface boundary condition for twoâ€dimensional elastic finiteâ€difference wave simulation. <i>Geophysics</i> , 1986, 51, 2247-2249.	1.4	51

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55	Influence of focal mechanism on peak accelerations of strong motions of the Whittier Narrows, California, earthquake and an aftershock. <i>Journal of Geophysical Research</i> , 1989, 94, 9607-9613.	3.3	51
56	The 410-km-depth discontinuity: A sharpness estimate from near-critical reflections. <i>Geophysical Research Letters</i> , 1995, 22, 2557-2560.	1.5	49
57	Study of the 1999 M 7.1 Hector Mine, California, Earthquake Fault Plane by Trapped Waves. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1318-1332.	1.1	49
58	Tremor bands sweep Cascadia. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	49
59	Source-Dependent Amplification of Earthquake Ground Motions in Deep Sedimentary Basins. <i>Geophysical Research Letters</i> , 2019, 46, 6443-6450.	1.5	47
60	Unsuccessful initial search for a midmantle chemical boundary with seismic arrays. <i>Geophysical Research Letters</i> , 2001, 28, 859-862.	1.5	45
61	Perceptions of earthquake early warnings on the U.S. West Coast. <i>International Journal of Disaster Risk Reduction</i> , 2016, 20, 112-122.	1.8	45
62	Rapid calculation of seismic amplitudes. <i>Geophysics</i> , 1990, 55, 1504-1507.	1.4	44
63	An earthquake-like magnitude-frequency distribution of slow slip in northern Cascadia. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	43
64	Seismic evidence for a cold serpentinized mantle wedge beneath Mount St Helens. <i>Nature Communications</i> , 2016, 7, 13242.	5.8	42
65	Shallow structure of the Landers Fault Zone from explosion-generated trapped waves. <i>Journal of Geophysical Research</i> , 1999, 104, 20257-20275.	3.3	41
66	ScP; A probe of ultralow velocity zones at the base of the mantle. <i>Geophysical Research Letters</i> , 1999, 26, 377-380.	1.5	40
67	Absence of Short-Period ULVZ Precursors to PcP and ScP from two Regions of the CMB. <i>Geophysical Research Letters</i> , 2001, 28, 387-390.	1.5	36
68	A continuous record of intereruption velocity change at Mount St. Helens from coda wave interferometry. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2199-2214.	1.4	36
69	Seismic velocity variations on the San Andreas fault caused by the 2004 M6 Parkfield Earthquake and their implications. <i>Earth, Planets and Space</i> , 2007, 59, 21-31.	0.9	35
70	FAST Earthquake Early Warning Potential for Great Earthquakes in Chile. <i>Seismological Research Letters</i> , 2018, 89, 542-556.	0.8	35
71	Seismic observation of a high-velocity slab 1200-1600 km in depth. <i>Geophysical Research Letters</i> , 1988, 15, 369-372.	1.5	32
72	Survey of precursors to P ₂ : Fine structure of mantle discontinuities. <i>Journal of Geophysical Research</i> , 2003, 108, ETG 7-1-ETG 7-10.	3.3	32

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73	The Temporal Distribution of Seismic Radiation During Deep Earthquake Rupture. <i>Science</i> , 1994, 265, 771-774.	6.0	30
74	Near-field deformation seen on distant broadband seismograms. <i>Geophysical Research Letters</i> , 1995, 22, 1-4.	1.5	29
75	Mantle discontinuities under southern Africa from precursors to P ₂ and S ₂ . <i>Geophysical Research Letters</i> , 1998, 25, 571-574.	1.5	29
76	Evidence for tidal triggering of high-amplitude rapid tremor reversals and tremor streaks in northern Cascadia. <i>Geophysical Research Letters</i> , 2013, 40, 4254-4259.	1.5	29
77	Investigation of deep slab structure using long-period S waves. <i>Journal of Geophysical Research</i> , 1991, 96, 16349-16367.	3.3	28
78	Waveform effects of a metastable olivine tongue in subducting slabs. <i>Geophysical Research Letters</i> , 1991, 18, 2201-2204.	1.5	27
79	Thermal and chemical variations in subcrustal cratonic lithosphere: evidence from crustal isostasy. <i>Lithos</i> , 2003, 71, 185-193.	0.6	27
80	Shallow repeating seismic events under an alpine glacier at Mount Rainier, Washington, USA. <i>Journal of Glaciology</i> , 2013, 59, 345-356.	1.1	26
81	Directional Site Resonances Observed from the 1 October 1987 Whittier Narrows, California, Earthquake and the 4 October Aftershock. <i>Earthquake Spectra</i> , 1991, 7, 107-125.	1.6	25
82	Evidence for inner-core rotation from possible changes with time in PKP coda. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	25
83	Inner-core fine-scale structure from scattered waves recorded by LASA. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25
84	Tiny intraplate earthquakes triggered by nearby episodic tremor and slip in Cascadia. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	25
85	Catalog of Offshore Seismicity in Cascadia: Insights Into the Regional Distribution of Microseismicity and its Relation to Subduction Processes. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 641-652.	1.4	25
86	The October 1980 earthquake sequence near the New Hebrides. <i>Geophysical Research Letters</i> , 1983, 10, 1137-1140.	1.5	24
87	Cascadia tremor spectra: Low corner frequencies and earthquake-like high-frequency falloff. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	24
88	Triggering of tremor and inferred slow slip by small earthquakes at the Nankai subduction zone in southwest Japan. <i>Geophysical Research Letters</i> , 2014, 41, 8053-8060.	1.5	24
89	Basin Shear-Wave Velocities beneath Seattle, Washington, from Noise-Correlation Rayleigh Waves. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 2162-2175.	1.1	22
90	Changes in seismic velocity during the first 14 months of the 2004-2008 eruption of Mount St. Helens, Washington. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6226-6240.	1.4	22

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91	Path Effects in Strong Motion Seismology. , 1987, , 267-319.		21
92	Multiple-fault rupture of the M7.1 Hector Mine, California, earthquake from fault zone trapped waves. Journal of Geophysical Research, 2003, 108, .	3.3	20
93	Earthquake spectra and near-source attenuation in the Cascadia subduction zone. Journal of Geophysical Research, 2012, 117, .	3.3	20
94	Earthquake Early Warning: ShakeAlert in the Pacific Northwest. Bulletin of the Seismological Society of America, 2016, 106, 1875-1886.	1.1	20
95	Deep long-period earthquakes west of the volcanic arc in Oregon: Evidence of serpentine dehydration in the fore-arc mantle wedge. Geophysical Research Letters, 2014, 41, 370-376.	1.5	19
96	Complex scattering within D ³ observed on the very dense Los Angeles Region Seismic Experiment Passive Array. Geophysical Research Letters, 1997, 24, 1855-1858.	1.5	17
97	Duration of deep earthquakes determined by stacking of Global Seismograph Network seismograms. Journal of Geophysical Research, 1998, 103, 21059-21065.	3.3	16
98	Very Slow Rotation of Earth's Inner Core From 1971 to 1974. Geophysical Research Letters, 2019, 46, 9483-9488.	1.5	16
99	Comment on "A comparison of finite-difference and fourier method calculations of synthetic seismograms". Bulletin of the Seismological Society of America, 1990, 80, 493-495.	1.1	16
100	Something wicked this way comes: Clues from foreshocks and earthquake nucleation. Eos, 2001, 82, 68-68.	0.1	15
101	Broadband Sensor Nonlinearity during Moderate Shaking. Bulletin of the Seismological Society of America, 2008, 98, 1595-1601.	1.1	15
102	Deep Long-Period Earthquakes Beneath Mount St. Helens: Their Relationship to Tidal Stress, Episodic Tremor and Slip, and Regular Earthquakes. Geophysical Research Letters, 2018, 45, 2241-2247.	1.5	15
103	Basin Amplification Effects in the Puget Lowland, Washington, from Strong-Motion Recordings and 3D Simulations. Bulletin of the Seismological Society of America, 2020, 110, 534-555.	1.1	14
104	Transient and Long-Term Changes in Seismic Response of the Natural Resources Building, Olympia, Washington, due to Earthquake Shaking. Journal of Earthquake Engineering, 2012, 16, 607-622.	1.4	12
105	Benefit-Cost Analysis for Earthquake Early Warning in Washington State. Natural Hazards Review, 2020, 21, .	0.8	12
106	Waveform analysis of the 1999 Hector Mine foreshock sequence. Geophysical Research Letters, 2003, 30, .	1.5	11
107	Earthquakes and the Moon: Syzygy Predictions Fail the Test. Seismological Research Letters, 2004, 75, 607-612.	0.8	11
108	Tidal modulation of seismicity at the Coso geothermal field. Earth and Planetary Science Letters, 2022, 579, 117335.	1.8	11

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109	Directional site resonances and the influence of near-surface geology on ground motion. Geophysical Research Letters, 1991, 18, 901-904.	1.5	10
110	Shallow Seismic Profiling of the Exhumed Punchbowl Fault Zone, Southern California. Bulletin of the Seismological Society of America, 2001, 91, 1820-1830.	1.1	10
111	A Scenario Study of Seismically Induced Landsliding in Seattle Using Broadband Synthetic Seismograms. Bulletin of the Seismological Society of America, 2013, 103, 2971-2992.	1.1	9
112	Evaluating a Kinematic Method for Generating Broadband Ground Motions for Great Subduction Zone Earthquakes: Application to the 2003 Mw 8.3 Tokachi-Oki Earthquake. Bulletin of the Seismological Society of America, 0, , .	1.1	9
113	Seismological observation of Earth's oscillating inner core. Science Advances, 2022, 8, .	4.7	9
114	Comment on "Tidal synchronicity of the 26 December 2004 Sumatran earthquake and its aftershocks" by R. G. M. Crockett et al.. Geophysical Research Letters, 2007, 34, .	1.5	8
115	Earth's inner core rotation, 1971 to 1974, illuminated by inner-core scattered waves. Earth and Planetary Science Letters, 2022, 577, 117214.	1.8	8
116	An initial map of fine-scale heterogeneity in the Earth's inner core. Nature Geoscience, 2022, 15, 240-244.	5.4	7
117	Reflection properties of the core-mantle boundary from global stacks of PcP and ScP. Journal of Geophysical Research, 2004, 109, .	3.3	6
118	Wave Propagation in Subducted Lithospheric Slabs. , 1989, , 139-155.		6
119	GEOPHYSICS: Peeling Back the Layers in Earth's Mantle. Science, 2001, 294, 313-313.	6.0	5
120	Relationships in a slow slip. Nature, 2007, 447, 49-50.	13.7	5
121	Accurate finite-difference calculation of WKBJ traveltimes and amplitudes. , 1991, , .		4
122	Phase Boundaries and Mantle Convection. Science, 1993, 261, 1401-1402.	6.0	4
123	Do Big and Little Earthquakes Start Differently?. Science, 1996, 271, 953-954.	6.0	4
124	How to Recognize a "Beast Quake" and a "Dance Quake". Seismological Research Letters, 2015, 86, 1006-1008.	0.8	4
125	Using regional seismic networks to study the Earth's deep interior. Eos, 1994, 75, 225.	0.1	3
126	A snapshot of whole mantle flow. Nature, 1994, 370, 16-17.	13.7	2

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127	A mystery in the mantle. <i>Nature</i> , 1994, 371, 288-288.	13.7	2
128	Converting advances in seismology into earthquake science. <i>Eos</i> , 2004, 85, 3.	0.1	2
129	Developing a Warning System for Inbound Tsunamis from the Cascadia Subduction Zone. , 2018, , .		2
130	Planning for a Subduction Zone Observatory. <i>Eos</i> , 2016, 97, .	0.1	2
131	"Seismic Raves" raises a question. <i>Seismological Research Letters</i> , 2008, 79, 769-769.	0.8	1
132	Italian quake: critics' logic is questionable. <i>Nature</i> , 2011, 478, 324-324.	13.7	1
133	Designing an offshore geophysical network in the Pacific Northwest for earthquake and tsunami early warning and hazard research. , 2016, , .		1
134	Improving the Hawaiian Seismic Network for Earthquake Early Warning. <i>Seismological Research Letters</i> , 2017, 88, 326-334.	0.8	1
135	Finite-difference calculation of traveltimes in 3D. , 1989, , .		1
136	Array analysis of reflector heterogeneity. <i>Geophysics</i> , 1991, 56, 565-571.	1.4	0
137	Reply [to a discussion on "The 410-km-depth Discontinuity: A sharpness estimate from near-critical reflections" by Vidale et al.]. <i>Geophysical Research Letters</i> , 1996, 23, 2575-2575.	1.5	0
138	Shadowed by the Glare of 1906 are Faceless Future Dangers. <i>Seismological Research Letters</i> , 2006, 77, 419-420.	0.8	0
139	[Comment on "Natural radioactivity, earthquakes, and the ionosphere" by S.A. Pulinets] Earthquake prediction: Facts versus hypotheses. <i>Eos</i> , 2007, 88, 255-255.	0.1	0
140	<i>Erratum to</i> Broadband Synthetic Seismograms for Magnitude 9 Earthquakes on the Cascadia Megathrust Based on 3D Simulations and Stochastic Synthetics, Part 1: Methodology and Overall Results. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 487-487.	1.1	0
141	Array analysis of reflector heterogeneity. , 1988, , .		0
142	FOCUSING THE LENS OFFSHORE CASCADIA " RECENT AND EMERGING EFFORTS TO EXPLORE PLATE BOUNDARY BEHAVIOR AND UNDERSTAND OFFSHORE HAZARDS. , 2017, , .		0
143	3-D SIMULATIONS OF M9 EARTHQUAKES ON THE CASCADIA MEGATHRUST: KEY PARAMETERS AND CONSTRAINTS FROM PALEOSEISMIC EVIDENCE. , 2017, , .		0
144	Graduate studies with Donald V. Helmberger. <i>Earthquake Science</i> , 2022, 35, 17-18.	0.4	0