David J Wald

List of Publications by Year
in descending order

120 papers	13,342 citations	36203 51 h-index	26548 107 g-index
151 all docs	151 docs citations	151 times ranked	6926 citing authors

#	Article	IF	Citations
1	Slab1.0: A threeâ€dimensional model of global subduction zone geometries. Journal of Geophysical Research, 2012, 117, .	3.3	831
2	Characterizing Crustal Earthquake Slip Models for the Prediction of Strong Ground Motion. Seismological Research Letters, 1999, 70, 59-80.	0.8	784
3	Spatial and temporal distribution of slip for the 1992 Landers, California, earthquake. Bulletin of the Seismological Society of America, 1994, 84, 668-691.	1.1	672
4	Relationships between Peak Ground Acceleration, Peak Ground Velocity, and Modified Mercalli Intensity in California. Earthquake Spectra, 1999, 15, 557-564.	1.6	651
5	Near-Source Ground Motion and its Effects on Flexible Buildings. Earthquake Spectra, 1995, 11, 569-605.	1.6	647
6	Rupture Process of the 2004 Sumatra-Andaman Earthquake. Science, 2005, 308, 1133-1139.	6.0	637
7	Topographic Slope as a Proxy for Seismic Site Conditions and Amplification. Bulletin of the Seismological Society of America, 2007, 97, 1379-1395.	1.1	632
8	SIGIRR, a negative regulator of Toll-like receptorâ€"interleukin 1 receptor signaling. Nature Immunology, 2003, 4, 920-927.	7.0	540
9	TriNet â€œShakeMapsâ€: Rapid Generation of Peak Ground Motion and Intensity Maps for Earthquakes in Southern California. Earthquake Spectra, 1999, 15, 537-555.	1.6	518
10	Source Description of the 1999 Hector Mine, California, Earthquake, Part I: Wavelet Domain Inversion Theory and Resolution Analysis. Bulletin of the Seismological Society of America, 2002, 92, 1192-1207.	1.1	455
11	The slip history of the 1994 Northridge, California, earthquake determined from strong-motion, teleseismic,<scp>GPS</scp>, and leveling data. Bulletin of the Seismological Society of America, 1996, 86, S49-S70.	1.1	367
12	Response of High-Rise and Base-Isolated Buildings to a Hypothetical Mw 7.0 Blind Thrust Earthquake. Science, 1995, 267, 206-211.	6.0	290
13	Probabilistic Relationships between Ground-Motion Parameters and Modified Mercalli Intensity in California. Bulletin of the Seismological Society of America, 2012, 102, 204-221.	1.1	289
14	Rupture model of the 1989 Loma Prieta earthquake from the inversion of strong-motion and broadband teleseismic data. Bulletin of the Seismological Society of America, 1991, 81, 1540-1572.	1.1	278
15	On the Use of High-Resolution Topographic Data as a Proxy for Seismic Site Conditions (VS30). Bulletin of the Seismological Society of America, 2009, 99, 935-943.	1.1	273
16	"Did You Feel It?" Intensity Data: A Surprisingly Good Measure of Earthquake Ground Motion. Seismological Research Letters, 2007, 78, 362-368.	0.8	232
17	Utilization of the Internet for Rapid Community Intensity Maps. Seismological Research Letters, 1999, 70, 680-697.	0.8	192
18	Slip history and dynamic implications of the 1999 Chi-Chi, Taiwan, earthquake. Journal of Geophysical Research, 2003, 108, .	3.3	168

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19	Source Description of the 1999 Hector Mine, California, Earthquake, Part II: Complexity of Slip History. Bulletin of the Seismological Society of America, 2002, 92, 1208-1226.	1.1	157
20	Slip History of the 1995 Kobe, Japan, Earthquake Determined from Strong Motion, Teleseismic, and Geodetic Data.. Journal of Physics of the Earth, 1996, 44, 489-503.	1.4	136
21	A Global Empirical Model for Nearâ€Realâ€Time Assessment of Seismically Induced Landslides. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1835-1859.	1.0	135
22	Dynamic stress changes during earthquake rupture. Bulletin of the Seismological Society of America, 1998, 88, 512-522.	1.1	133
23	Global earthquake casualties due to secondary effects: a quantitative analysis for improving rapid loss analyses. Natural Hazards, 2010, 52, 319-328.	1.6	124
24	The Magnitude 6.7 Northridge, California, Earthquake of 17 January 1994. Science, 1994, 266, 389-397.	6.0	117
25	New Mesozoic apparent polar wander path for south China: Tectonic consequences. Journal of Geophysical Research, 2001, 106, 8493-8520.	3.3	112
26	A Revised Ground-Motion and Intensity Interpolation Scheme for ShakeMap. Bulletin of the Seismological Society of America, 2010, 100, 3083-3096.	1.1	110
27	Resolution analysis of finite fault source inversion using one- and three-dimensional Green's functions: 1. Strong motions. Journal of Geophysical Research, 2001, 106, 8745-8766.	3.3	104
28	Developing Empirical Collapse Fragility Functions for Global Building Types. Earthquake Spectra, 2011, 27, 775-795.	1.6	99
29	Resolution analysis of finite fault source inversion using one- and three-dimensional Green's functions: 2. Combining seismic and geodetic data. Journal of Geophysical Research, 2001, 106, 8767-8788.	3.3	94
30	Preliminary Report on the 16 October 1999 M 7.1 Hector Mine, California, Earthquake. Seismological Research Letters, 2000, 71, 11-23.	0.8	91
31	An Empirical Model for Global Earthquake Fatality Estimation. Earthquake Spectra, 2010, 26, 1017-1037.	1.6	91
32	A Global Building Inventory for Earthquake Loss Estimation and Risk Management. Earthquake Spectra, 2010, 26, 731-748.	1.6	89
33	Development of a globally applicable model for near real-time prediction of seismically induced landslides. Engineering Geology, 2014, 173, 54-65.	2.9	88
34	Source study of the 1906 San Francisco earthquake. Bulletin of the Seismological Society of America, 1993, 83, 981-1019.	1.1	87
35	A VS30 Map for California with Geologic and Topographic Constraints. Bulletin of the Seismological Society of America, 2014, 104, 2313-2321.	1.1	85
36	PAGER-CAT: A Composite Earthquake Catalog for Calibrating Global Fatality Models. Seismological Research Letters, 2009, 80, 57-62.	0.8	84

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37	A global hybrid <i>V_S</i>₃₀ map with a topographic slopeâ€“based default and regional map insets. Earthquake Spectra, 2020, 36, 1570-1584.	1.6	82
38	Ground Motion to Intensity Conversion Equations (GMICEs): A Global Relationship and Evaluation of Regional Dependency. Bulletin of the Seismological Society of America, 2015, 105, 1476-1490.	1.1	81
39	Spatial and Spectral Interpolation of Groundâ€Motion Intensity Measure Observations. Bulletin of the Seismological Society of America, 2018, 108, 866-875.	1.1	81
40	Rapid Characterization of the 2015<i>M</i>_wÂ7.8 Gorkha, Nepal, Earthquake Sequence and Its Seismotectonic Context. Seismological Research Letters, 2015, 86, 1557-1567.	0.8	80
41	Rupture process of the 1987 Superstition Hills earthquake from the inversion of strong-motion data. Bulletin of the Seismological Society of America, 1990, 80, 1079-1098.	1.1	78
42	USGS â€œDid You Feel It?â€•Internet-based macroseismic intensity maps. Annals of Geophysics, 2012, 54, .	0.5	76
43	Intensity attenuation for active crustal regions. Journal of Seismology, 2012, 16, 409-433.	0.6	71
44	88 Hours: The U.S. Geological Survey National Earthquake Information Center Response to the 11 March 2011 Mw 9.0 Tohoku Earthquake. Seismological Research Letters, 2011, 82, 481-493.	0.8	70
45	The Mw 6.0 24 August 2014 South Napa Earthquake. Seismological Research Letters, 2015, 86, 309-326.	0.8	70
46	ShakeCast: Automating and Improving the Use of ShakeMap for Post-Earthquake Decision-Making and Response. Earthquake Spectra, 2008, 24, 533-553.	1.6	65
47	Overlapping fault planes of the 1971 San Fernando and 1994 Northridge, California earthquakes. Geophysical Research Letters, 1995, 22, 1033-1036.	1.5	60
48	A Geospatial Liquefaction Model for Rapid Response and Loss Estimation. Earthquake Spectra, 2015, 31, 1813-1837.	1.6	59
49	Practical limitations of earthquake early warning. Earthquake Spectra, 2020, 36, 1412-1447.	1.6	59
50	An Atlas of ShakeMaps and population exposure catalog for earthquake loss modeling. Bulletin of Earthquake Engineering, 2009, 7, 701-718.	2.3	56
51	Earthquake Casualty Models Within the USGS Prompt Assessment of Global Earthquakes for Response (PAGER) System. Advances in Natural and Technological Hazards Research, 2011, , 83-94.	1.1	56
52	Slip distribution and tectonic implication of the 1999 Chi-Chi, Taiwan, Earthquake. Geophysical Research Letters, 2001, 28, 4379-4382.	1.5	53
53	Seismicity Associated with the Sumatra-Andaman Islands Earthquake of 26 December 2004. Bulletin of the Seismological Society of America, 2007, 97, S25-S42.	1.1	52
54	Intensity Prediction Equations for North America. Bulletin of the Seismological Society of America, 2014, 104, 3084-3093.	1.1	51

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55	Improving Nearâ€Realâ€Time Coseismic Landslide Models: Lessons Learned from the 2016 KaikÅura, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2018, 108, 1649-1664.	1.1	48
56	Developing framework to constrain the geometry of the seismic rupture plane on subduction interfaces<i>a priori</i>- a probabilistic approach. Geophysical Journal International, 2009, 176, 951-964.	1.0	41
57	A Global Earthquake Discrimination Scheme to Optimize Ground-Motion Prediction Equation Selection. Bulletin of the Seismological Society of America, 2012, 102, 185-203.	1.1	41
58	Southern California Seismic Network: Caltech/USGS Element of TriNet 1997-2001. Seismological Research Letters, 2001, 72, 690-704.	0.8	40
59	Observed and Simulated Ground Motions in the San Bernardino Basin Region for the Hector Mine, California, Earthquake. Bulletin of the Seismological Society of America, 2004, 94, 131-146.	1.1	39
60	Estimating Economic Losses from Earthquakes Using an Empirical Approach. Earthquake Spectra, 2013, 29, 309-324.	1.6	39
61	Nonlinear Site Response: Where We're At (A report from a SCEC/PEER seminar and workshop). Seismological Research Letters, 1998, 69, 230-234.	0.8	38
62	Strong motion and broadband teleseismic analysis of the 1991 Sierra Madre, California, earthquake. Journal of Geophysical Research, 1992, 97, 11033-11046.	3.3	37
63	Advancing techniques to constrain the geometry of the seismic rupture plane on subduction interfaces a priori: Higherâ€order functional fits. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	35
64	The Effects of Earthquake Measurement Concepts and Magnitude Anchoring on Individualsâ€™ Perceptions of Earthquake Risk. Earthquake Spectra, 2005, 21, 987-1008.	1.6	33
65	USGS â€œDid You Feel It?â€â€"Science and Lessons From 20 Years of Citizen Science-Based Macroseismology. Frontiers in Earth Science, 2020, 8, .	0.8	33
66	ShakeMap operations, policies, and procedures. Earthquake Spectra, 2022, 38, 756-777.	1.6	31
67	A Teleseismic Study of the 2002 Denali Fault, Alaska, Earthquake and Implications for Rapid Strong-Motion Estimation. Earthquake Spectra, 2004, 20, 617-637.	1.6	29
68	Value at Induced Risk: Injectionâ€Induced Seismic Risk From Lowâ€Probability, Highâ€Impact Events. Geophysical Research Letters, 2020, 47, e2019GL085878.	1.5	29
69	Foreshocks and aftershocks of the great 1857 California earthquake. Bulletin of the Seismological Society of America, 1999, 89, 1109-1120.	1.1	29
70	Aftershocks and Triggered Events of the Great 1906 California Earthquake. Bulletin of the Seismological Society of America, 2003, 93, 2160-2186.	1.1	28
71	Global Earthquake Response with Imaging Geodesy: Recent Examples from the USGS NEIC. Remote Sensing, 2019, 11, 1357.	1.8	28
72	Computing spatial correlation of ground motion intensities for ShakeMap. Computers and Geosciences, 2017, 99, 145-154.	2.0	27

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73	A Preliminary Dislocation Model for the 1995 Kobe (Hyogo-ken Nanbu), Japan, Earthquake Determined from Strong Motion and Teleseismic Waveforms. Seismological Research Letters, 1995, 66, 22-28.	0.8	23
74	Fault Extent Estimation for Near-Real-Time Ground-Shaking Map Computation Purposes. Bulletin of the Seismological Society of America, 2012, 102, 661-679.	1.1	23
75	Earthquake Impact Scale. Natural Hazards Review, 2011, 12, 125-139.	0.8	22
76	Uncertainty in<i>V</i>_{<i>S</i>30}â€Based Site Response. Bulletin of the Seismological Society of America, 2016, 106, 453-463.	1.1	20
77	Basin Structure Estimation by Waveform Modeling: Forward and Inverse Methods. Bulletin of the Seismological Society of America, 2000, 90, 964-976.	1.1	19
78	Instrumental Intensity Distribution for the Hector Mine, California, and the Chi-Chi, Taiwan, Earthquakes: Comparison of Two Methods. Bulletin of the Seismological Society of America, 2002, 92, 2145-2162.	1.1	19
79	Using structural damage statistics to derive macroseismic intensity within the Kathmandu valley for the 2015 M7.8 Gorkha, Nepal earthquake. Tectonophysics, 2017, 714-715, 158-172.	0.9	19
80	USGS Nearâ€Realâ€Time Productsâ€"and Their Useâ€"for the 2018 Anchorage Earthquake. Seismological Research Letters, 2020, 91, 94-113.	0.8	19
81	Traveltime Tables for iasp91 and ak135. Seismological Research Letters, 2009, 80, 260-262.	0.8	17
82	Trauma Signature Analysis of the Great East Japan Disaster: Guidance for Psychological Consequences. Disaster Medicine and Public Health Preparedness, 2013, 7, 201-214.	0.7	17
83	The US Geological Survey ground failure product: Near-real-time estimates of earthquake-triggered landslides and liquefaction. Earthquake Spectra, 2022, 38, 5-36.	1.6	16
84	The Intensity Signature of Induced Seismicity. Bulletin of the Seismological Society of America, 2018, 108, 1080-1086.	1.1	15
85	A seismically active section of the Southwest Indian Ridge. Geophysical Research Letters, 1986, 13, 1003-1006.	1.5	14
86	Comment on â€œThe 1946 Hispaniola earthquake and the tectonics of the North America-Caribbean Plate Boundary Zone, northeastern Hispaniolaâ€•by R. M. Russo and A. Villasenor. Journal of Geophysical Research, 1997, 102, 785-792.	3.3	14
87	The USGS Earthquake Notification Service (ENS): Customizable Notifications of Earthquakes around the Globe. Seismological Research Letters, 2008, 79, 103-110.	0.8	14
88	Bayesian Estimations of Peak Ground Acceleration and 5% Damped Spectral Acceleration from Modified Mercalli Intensity Data. Earthquake Spectra, 2003, 19, 511-529.	1.6	12
89	A domestic earthquake impact alert protocol based on the combined USGS PAGER and FEMA Hazus loss estimation systems. Earthquake Spectra, 2020, 36, 164-182.	1.6	12
90	Recorded Ground and Structure Motions. Earthquake Spectra, 1995, 11, 13-96.	1.6	11

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91	Estimating Rupture Dimensions of Three Major Earthquakes in Sichuan, China, for Early Warning and Rapid Loss Estimates. Bulletin of the Seismological Society of America, 2020, 110, 920-936.	1.1	11
92	Stronger Peak Ground Motion, Beyond the Threshold to Initiate a Response, Does Not Lead to Larger Stream Discharge Responses to Earthquakes. Geophysical Research Letters, 2018, 45, 6523-6531.	1.5	9
93	ShakeMap-based prediction of earthquake-induced mass movements in Switzerland calibrated on historical observations. Natural Hazards, 2018, 92, 1211-1235.	1.6	9
94	Human Behavioral Response in the 2019 Ridgecrest, California, Earthquakes: Assessing Immediate Actions Based on Data from â€œDid You Feel It?â€• Bulletin of the Seismological Society of America, 2020, , .	1.1	8
95	Quantifying nuisance ground motion thresholds for induced earthquakes. Earthquake Spectra, 2021, 37, 789-802.	1.6	7
96	An efficient Bayesian framework for updating PAGER loss estimates. Earthquake Spectra, 2020, 36, 1719-1742.	1.6	6
97	Surfing the Internet for Strong-Motion Data. Seismological Research Letters, 1997, 68, 766-769.	0.8	5
98	Integrate Urbanâ€Scale Seismic Hazard Analyses with the U.S. National Seismic Hazard Model. Seismological Research Letters, 2018, 89, 967-970.	0.8	5
99	Advanced National Seismic System delivers improved information. Eos, 2006, 87, 365.	0.1	4
100	Using ShakeMap and ShakeCast to Prioritize Post-Earthquake Dam Inspections. , 2008, , .		4
101	Reply to Arthur Frankel's â€œComment on â€˜Rupture process of the 1987 Superstition Hills earthquake from the inversion of strong-motion dataâ€™â€• Bulletin of the Seismological Society of America, 1992, 82, 1519-1533.	1.1	4
102	Comment on â€œWhich Earthquake Accounts Matter?â€•by Susan E. Hough and Stacey S. Martin. Seismological Research Letters, 2022, 93, 500-505.	0.8	4
103	Earthquakes, ShakeCast. Encyclopedia of Earth Sciences Series, 2020, , 1-5.	0.1	3
104	The 1996 Southern California Network Bulletin. Seismological Research Letters, 1997, 68, 923-929.	0.8	2
105	Development of a Shakemap-Based, Earthquake Response System within Caltrans. , 2003, , 113.		2
106	Macroseismic Intensity in the Internet Age. Computational Seismology and Geodynamics, 0, , 60-65.	0.0	2
107	Geophysical Advances Triggered by 1964 Great Alaska Earthquake. Eos, 2014, 95, 141-142.	0.1	2
108	The 1998 Southern California Seismic Network Bulletin. Seismological Research Letters, 1999, 70, 404-416.	0.8	1

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109	Using ShakeCast and ShakeMap for Lifeline Post-Earthquake Response and Earthquake Scenario Planning. , 2009, , .		1
110	Earthquakes, PAGER. Encyclopedia of Earth Sciences Series, 2019, , 1-5.	0.1	1
111	Active tectonics around the Mediterranean region: site studies and application of new methodologies. Annals of Geophysics, 2013, 55, .	0.5	1
112	Earthquakes, ShakeMap. Encyclopedia of Earth Sciences Series, 2019, , 1-6.	0.1	1
113	Evaluation of Intensity Prediction Equations (IPEs) for Small-Magnitude Earthquakes. Bulletin of the Seismological Society of America, 0, , .	1.1	1
114	Earthquakes, ShakeCast. Encyclopedia of Earth Sciences Series, 2021, , 312-316.	0.1	0
115	Earthquakes, Did You Feel It?. Encyclopedia of Earth Sciences Series, 2021, , 278-282.	0.1	0
116	Earthquakes, PAGER. Encyclopedia of Earth Sciences Series, 2021, , 308-312.	0.1	0
117	Earthquakes, ShakeMap. Encyclopedia of Earth Sciences Series, 2021, , 316-321.	0.1	0
118	Earthquakes, PAGER. Encyclopedia of Earth Sciences Series, 2011, , 243-245.	0.1	0
119	Earthquakes, Shake Map. Encyclopedia of Earth Sciences Series, 2011, , 245-248.	0.1	0
120	Earthquakes, Did You Feel It?. Encyclopedia of Earth Sciences Series, 2020, , 1-5.	0.1	0