

Tom Parsons

List of Publications by Year in descending order

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131
papers

6,638
citations

76196

40
h-index

66788

78
g-index

134
all docs

134
docs citations

134
times ranked

4578
citing authors

#	ARTICLE	IF	CITATIONS
1	Heightened Odds of Large Earthquakes Near Istanbul: An Interaction-Based Probability Calculation. <i>Science</i> , 2000, 288, 661-665.	6.0	453
2	Uniform California Earthquake Rupture Forecast, Version 3 (UCERF3)–The Time-Independent Model. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1122-1180.	1.1	424
3	Stress changes from the 2008 Wenchuan earthquake and increased hazard in the Sichuan basin. <i>Nature</i> , 2008, 454, 509-510.	13.7	376
4	Probabilistic Analysis of Tsunami Hazards*. <i>Natural Hazards</i> , 2006, 37, 277-314.	1.6	285
5	Recalculated probability of M ₇ earthquakes beneath the Sea of Marmara, Turkey. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	249
6	Uniform California Earthquake Rupture Forecast, Version 2 (UCERF 2). <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 2053-2107.	1.1	239
7	Probabilistic tsunami hazard assessment at Seaside, Oregon, for near- and far-field seismic sources. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	211
8	Stress sensitivity of fault seismicity: A comparison between limited-offset oblique and major strike-slip faults. <i>Journal of Geophysical Research</i> , 1999, 104, 20183-20202.	3.3	192
9	Long-Term Time-Dependent Probabilities for the Third Uniform California Earthquake Rupture Forecast (UCERF3). <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 511-543.	1.1	184
10	Probabilistic Tsunami Hazard Analysis: Multiple Sources and Global Applications. <i>Reviews of Geophysics</i> , 2017, 55, 1158-1198.	9.0	170
11	Seismic evidence for widespread serpentinized forearc upper mantle along the Cascadia margin. <i>Geology</i> , 2003, 31, 267.	2.0	157
12	Global ubiquity of dynamic earthquake triggering. <i>Nature Geoscience</i> , 2008, 1, 375-379.	5.4	157
13	Global Omori law decay of triggered earthquakes: Large aftershocks outside the classical aftershock zone. <i>Journal of Geophysical Research</i> , 2002, 107, ESE 9-1-ESE 9-20.	3.3	142
14	Tectonic implications of post-30 Ma Pacific and North American relative plate motions. <i>Bulletin of the Geological Society of America</i> , 1995, 107, 937-959.	1.6	138
15	Does magmatism influence low-angle normal faulting?. <i>Geology</i> , 1993, 21, 247.	2.0	134
16	Mantle plume influence on the Neogene uplift and extension of the U.S. western Cordillera?. <i>Geology</i> , 1994, 22, 83.	2.0	111
17	The Role of Magma Overpressure in Suppressing Earthquakes and Topography: Worldwide Examples. <i>Science</i> , 1991, 253, 1399-1402.	6.0	104
18	Upper crustal structure in Puget Lowland, Washington: Results from the 1998 Seismic Hazards Investigation in Puget Sound. <i>Journal of Geophysical Research</i> , 2001, 106, 13541-13564.	3.3	103

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19	New seismic images of the Cascadia subduction zone from cruise SO108 "ORWELL". <i>Tectonophysics</i> , 1998, 293, 69-84.	0.9	100
20	Host rock rheology controls on the emplacement of tabular intrusions: Implications for underplating of extending crust. <i>Tectonics</i> , 1992, 11, 1348-1356.	1.3	87
21	Significance of stress transfer in time-dependent earthquake probability calculations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	86
22	Static-stress impact of the 1992 Landers earthquake sequence on nucleation and slip at the site of the 1999 M=7.1 Hector Mine earthquake, southern California. <i>Geophysical Research Letters</i> , 2000, 27, 1949-1952.	1.5	85
23	Three-dimensional model of Hellenic Arc deformation and origin of the Cretan uplift. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	78
24	A Synoptic View of the Third Uniform California Earthquake Rupture Forecast (UCERF3). <i>Seismological Research Letters</i> , 2017, 88, 1259-1267.	0.8	78
25	A new view into the Cascadia subduction zone and volcanic arc: Implications for earthquake hazards along the Washington margin. <i>Geology</i> , 1998, 26, 199.	2.0	73
26	A hypothesis for delayed dynamic earthquake triggering. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	73
27	Static stress change from the 8 October, 2005 M = 7.6 Kashmir earthquake. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	69
28	Monte Carlo method for determining earthquake recurrence parameters from short paleoseismic catalogs: Example calculations for California. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	65
29	Absence of remotely triggered large earthquakes beyond the mainshock region. <i>Nature Geoscience</i> , 2011, 4, 312-316.	5.4	63
30	Post-1906 stress recovery of the San Andreas fault system calculated from three-dimensional finite element analysis. <i>Journal of Geophysical Research</i> , 2002, 107, ESE 3-1.	3.3	58
31	Tsunami Probability in the Caribbean Region. <i>Pure and Applied Geophysics</i> , 2008, 165, 2089-2116.	0.8	56
32	More than one way to stretch: a tectonic model for extension along the plume track of the Yellowstone hotspot and adjacent Basin and Range Province. <i>Tectonics</i> , 1998, 17, 221-234.	1.3	54
33	Is There a Basis for Preferring Characteristic Earthquakes over a Gutenberg-Richter Distribution in Probabilistic Earthquake Forecasting?. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 2012-2019.	1.1	54
34	Three-dimensional seismic velocity structure of the San Francisco Bay area. <i>Journal of Geophysical Research</i> , 2000, 105, 13859-13874.	3.3	50
35	The Making of the NEAM Tsunami Hazard Model 2018 (NEAMTHM18). <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	50
36	Crustal structure of the Colorado Plateau, Arizona: Application of new long-offset seismic data analysis techniques. <i>Journal of Geophysical Research</i> , 1996, 101, 11173-11194.	3.3	49

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37	Three-dimensional velocity structure of Siletzia and other accreted terranes in the Cascadia forearc of Washington. <i>Journal of Geophysical Research</i> , 1999, 104, 18015-18039.	3.3	48
38	Subsurface Geometry and Evolution of the Seattle Fault Zone and the Seattle Basin, Washington. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1737-1753.	1.1	47
39	The global aftershock zone. <i>Tectonophysics</i> , 2014, 618, 1-34.	0.9	47
40	M7 earthquake rupture forecast and time-dependent probability for the sea of Marmara region, Turkey. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2679-2707.	1.4	46
41	Assessment of source probabilities for potential tsunamis affecting the U.S. Atlantic coast. <i>Marine Geology</i> , 2009, 264, 98-108.	0.9	44
42	Source and progression of a submarine landslide and tsunami: The 1964 Great Alaska earthquake at Valdez. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8502-8516.	1.4	42
43	Crustal and upper mantle velocity structure of the Salton Trough, southeast California. <i>Tectonics</i> , 1996, 15, 456-471.	1.3	40
44	Undersampling power-law size distributions: effect on the assessment of extreme natural hazards. <i>Natural Hazards</i> , 2014, 72, 565-595.	1.6	40
45	On near-source earthquake triggering. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	37
46	Comparison of characteristic and Gutenberg-Richter models for time-dependent M7.9 earthquake probability in the Nankai-Tokai subduction zone, Japan. <i>Geophysical Journal International</i> , 2012, 190, 1673-1688.	1.0	35
47	Tectonic stressing in California modeled from GPS observations. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	34
48	Three-dimensional upper crustal velocity structure beneath San Francisco Peninsula, California. <i>Journal of Geophysical Research</i> , 1997, 102, 5473-5490.	3.3	33
49	Distribution of tsunami interevent times. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	33
50	The active southwest margin of the Colorado Plateau: Uplift of mantle origin. <i>Bulletin of the Geological Society of America</i> , 1995, 107, 139.	1.6	32
51	A new probabilistic seismic hazard assessment for greater Tokyo. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 1965-1988.	1.6	32
52	Seismic survey probes urban earthquake hazards in Pacific Northwest. <i>Eos</i> , 1999, 80, 13.	0.1	31
53	A global search for stress shadows. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
54	Earthquake recurrence on the south Hayward fault is most consistent with a time dependent, renewal process. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	31

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55	Assessing historical rate changes in global tsunami occurrence. <i>Geophysical Journal International</i> , 2011, 187, 497-509.	1.0	31
56	Insights into the kinematic Cenozoic evolution of the Basin and Range-Colorado Plateau transition from coincident seismic refraction and reflection data. <i>Bulletin of the Geological Society of America</i> , 1994, 106, 747-759.	1.6	29
57	Dipping San Andreas and Hayward faults revealed beneath San Francisco Bay, California. <i>Geology</i> , 1999, 27, 839.	2.0	29
58	Seismic constraints on the nature of lower crustal reflectors beneath the extending Southern Transition Zone of the Colorado Plateau, Arizona. <i>Journal of Geophysical Research</i> , 1992, 97, 12391-12407.	3.3	28
59	Structure and Mechanics of the Hayward-Rodgers Creek Fault Step-Over, San Francisco Bay, California. <i>Bulletin of the Seismological Society of America</i> , 2003, 93, 2187-2200.	1.1	28
60	Evaluation of static stress change forecasting with prospective and blind tests. <i>Geophysical Journal International</i> , 2012, 188, 1425-1440.	1.0	28
61	Nucleation speed limit on remote fluid-induced earthquakes. <i>Science Advances</i> , 2017, 3, e1700660.	4.7	28
62	Persistent earthquake clusters and gaps from slip on irregular faults. <i>Nature Geoscience</i> , 2008, 1, 59-63.	5.4	27
63	Comparative evaluation of physics-based and statistical forecasts in Northern California. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 6219-6240.	1.4	27
64	Were Global $M > 8.3$ Earthquake Time Intervals Random between 1900 and 2011?. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 1583-1592.	1.1	26
65	Stress, Distance, Magnitude, and Clustering Influences on the Success or Failure of an Aftershock Forecast: The 2013 $M 6.6$ Lushan Earthquake and Other Examples. <i>Seismological Research Letters</i> , 2014, 85, 44-51.	0.8	26
66	A Simple Algorithm for Sequentially Incorporating Gravity Observations in Seismic Traveltime Tomography. <i>International Geology Review</i> , 2001, 43, 1073-1086.	1.1	25
67	The Predictive Skills of Elastic Coulomb Rate-and-State Aftershock Forecasts during the 2019 Ridgecrest, California, Earthquake Sequence. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 1736-1751.	1.1	25
68	Triggering of tsunamigenic aftershocks from large strike-slip earthquakes: Analysis of the November 2000 New Ireland earthquake sequence. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	23
69	Characteristic Earthquake Magnitude Frequency Distributions on Faults Calculated From Consensus Data in California. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 10,761.	1.4	23
70	Chapter 7 The basin and range province. <i>Developments in Geotectonics</i> , 2006, 25, 277-XV.	0.3	20
71	A physics-based earthquake simulator and its application to seismic hazard assessment in Calabria (Southern Italy) region. <i>Acta Geophysica</i> , 2017, 65, 243-257.	1.0	20
72	Vertical deformation associated with normal fault systems evolved over coseismic, postseismic, and multiseismic periods. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2153-2173.	1.4	19

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73	Testing Earthquake Links in Mexico From 1978 to the 2017 M _w 8.1 Chiapas and M _w 7.1 Puebla Shocks. <i>Geophysical Research Letters</i> , 2018, 45, 708-714.	1.5	19
74	Geologic processes of accretion in the Cascadia subduction zone west of Washington State. <i>Journal of Geodynamics</i> , 1999, 27, 277-288.	0.7	17
75	A New Technique to Calculate Earthquake Stress Transfer and to Probe the Physics of Aftershocks. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 863-873.	1.1	17
76	The Weight of Cities: Urbanization Effects on Earth's Subsurface. <i>AGU Advances</i> , 2021, 2, e2020AV000277.	2.3	17
77	Stress-based aftershock forecasts made within 24h postmain shock: Expected north San Francisco Bay area seismicity changes after the 2014 M _w 6.0 West Napa earthquake. <i>Geophysical Research Letters</i> , 2014, 41, 8792-8799.	1.5	16
78	Unraveling the apparent magnitude threshold of remote earthquake triggering using full wavefield surface wave simulation. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	15
79	Estimation of submarine mass failure probability from a sequence of deposits with age dates. , 2013, 9, 287-298.		15
80	Missing link between the Hayward and Rodgers Creek faults. <i>Science Advances</i> , 2016, 2, e1601441.	4.7	15
81	Vertical tectonic deformation associated with the San Andreas fault zone offshore of San Francisco, California. <i>Tectonophysics</i> , 2008, 457, 209-223.	0.9	14
82	Possible Earthquake Rupture Connections on Mapped California Faults Ranked by Calculated Coulomb Linking Stresses. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 2667-2676.	1.1	14
83	Velocities of southern Basin and Range xenoliths: Insights on the nature of lower crustal reflectivity and composition. <i>Geology</i> , 1995, 23, 129.	2.0	13
84	The 2010–2014.3 global earthquake rate increase. <i>Geophysical Research Letters</i> , 2014, 41, 4479-4485.	1.5	13
85	Estimating the Empirical Probability of Submarine Landslide Occurrence. , 2010, , 377-386.		13
86	Can footwall unloading explain late Cenozoic uplift of the Sierra Nevada crest?. <i>International Geology Review</i> , 2009, 51, 986-993.	1.1	12
87	New Imaging of Submarine Landslides from the 1964 Earthquake Near Whittier, Alaska, and a Comparison to Failures in Other Alaskan Fjords. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 361-370.	1.1	12
88	Forecast experiment: Do temporal and spatial value variations along the Calaveras fault portend M _w 4.0 earthquakes?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	11
89	From coseismic offsets to fault-block mountains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9820-9825.	3.3	11
90	Lasting earthquake legacy. <i>Nature</i> , 2009, 462, 42-43.	13.7	10

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91	The 2007 <i>M</i> _s 5.4 Alum Rock, California, earthquake: Implications for future earthquakes on the central and southern Calaveras Fault. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	10
92	Reconstruction of Far-Field Tsunami Amplitude Distributions from Earthquake Sources. <i>Pure and Applied Geophysics</i> , 2016, 173, 3703-3717.	0.8	10
93	On the Use of Receiver Operating Characteristic Tests for Evaluating Spatial Earthquake Forecasts. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088570.	1.5	10
94	Nearly frictionless faulting by unclamping in long-term interaction models. <i>Geology</i> , 2002, 30, 1063.	2.0	9
95	Earthquake and volcano clustering via stress transfer at Yucca Mountain, Nevada. <i>Geology</i> , 2006, 34, 785.	2.0	9
96	The stress shadow problem in physics-based aftershock forecasting: Does incorporation of secondary stress changes help?. <i>Geophysical Research Letters</i> , 2014, 41, 3810-3817.	1.5	9
97	Determining on-fault earthquake magnitude distributions from integer programming. <i>Computers and Geosciences</i> , 2018, 111, 244-259.	2.0	9
98	Scientific teams analyze earthquake hazards of the Cascadia Subduction Zone. <i>Eos</i> , 1997, 78, 153.	0.1	8
99	Diffuse PacificâNorth American plate boundary: 1000 km of dextral shear inferred from modeling geodetic data. <i>Geology</i> , 2011, 39, 943-946.	2.0	8
100	Paleoseismic interevent times interpreted for an unsegmented earthquake rupture forecast. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	8
101	Seismic Attenuation Monitoring of a Critically Stressed San Andreas Fault. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089201.	1.5	8
102	The Role of Seismic and Slow Slip Events in Triggering the 2018 M 7.1 Anchorage Earthquake in the Southcentral Alaska Subduction Zone. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086640.	1.5	8
103	High-resolution P- and S-wave deep crustal imaging across the edge of the Colorado Plateau, USA : Increased reflectivity caused by initiating extension. <i>Geodynamic Series</i> , 1991, , 21-29.	0.1	7
104	Mâ7.0 earthquake recurrence on the San Andreas fault from a stress renewal model. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	7
105	Prospective Earthquake Forecasts at the Himalayan Front after the 25 April 2015 <i>M</i> _s 7.8 Gorkha Mainshock. <i>Seismological Research Letters</i> , 2016, 87, 816-825.	0.8	7
106	Structure and mechanics of the San Andreas-San Gregorio fault junction, San Francisco, California. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	6
107	Earthquake rupture process recreated from a natural fault surface. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7852-7862.	1.4	6
108	A combinatorial approach to determine earthquake magnitude distributions on a variable slip-rate fault. <i>Geophysical Journal International</i> , 2019, 219, 734-752.	1.0	6

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109	Tsunami Probability in the Caribbean Region. , 2008, , 2089-2116.		5
110	Does magmatism influence low-angle normal faulting?: Comment and Reply. <i>Geology</i> , 1993, 21, 956.	2.0	4
111	Why the Sacramento Delta area differs from other parts of the great valley: Numerical modeling of thermal structure and thermal subsidence of forearc basins. <i>Izvestiya, Physics of the Solid Earth</i> , 2007, 43, 75-90.	0.2	4
112	Distribution of Earthquakes on a Branching Fault System Using Integer Programming and Greedyâ€œSequential Methods. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008964.	1.0	4
113	Correction to â€œForecast experiment: Do temporal and spatial b value variations along the Calaveras fault portend M \approx 4.0 earthquakes?â€œ. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	3
114	No correlation between Anderson Reservoir stage level and underlying Calaveras fault seismicity despite calculated differential stress increases. <i>Lithosphere</i> , 2011, 3, 261-264.	0.6	3
115	Stress Transfer by the 2008 Mw 6.4 Achaia Earthquake to the Western Corinth Gulf and Its Relation with the 2010 Efpalio Sequence, Central Greece. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1723-1734.	1.1	3
116	Comments on â€œWhy is Probabilistic Seismic Hazard Analysis (PSHA) still used?â€™ by F. Mulargia, P.B. Stark and R.J. Geller. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 274, 214-215.	0.7	3
117	Tsunamis: Bayesian Probabilistic Analysis. , 2017, , 1-25.		2
118	Having a Blast in Kenya. <i>Science</i> , 2009, 325, 1623-1623.	6.0	1
119	Confronting Racism to Advance Our Science. <i>AGU Advances</i> , 2021, 2, e2020AV000296.	2.3	1
120	Tsunamis: Bayesian Probabilistic Analysis. , 2022, , 91-115.		1
121	The active southwest margin of the Colorado Plateau: Uplift of mantle origin: Discussion and reply. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 154-154.	1.6	0
122	Correction to â€œA hypothesis for delayed dynamic earthquake triggeringâ€œ. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	0
123	Editorial: Exploring new frontiers withJGRâ€œSolid Earth. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	0
124	Reply to "Comment on 'Is There a Basis for Preferring Characteristic Earthquakes over a Gutenberg-Richter Distribution in Probabilistic Earthquake Forecasting?' by Tom Parsons and Eric L. Geist" by Jens-Uwe Klugel. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 898-899.	1.1	0
125	Thank You to Our 2019 Reviewers. <i>AGU Advances</i> , 2020, 1, e2020AV000181.	2.3	0
126	Submarine Landslide Kinematics Derived From Highâ€œResolution Imaging in Port Valdez, Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018007.	1.4	0

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127	AGU Advances Goes Online. AGU Advances, 2020, 1, e2019AV000105.	2.3	0
128	Thank You to Our 2020 Peer Reviewers. AGU Advances, 2021, 2, e2021AV000426.	2.3	0
129	Reconstruction of Far-Field Tsunami Amplitude Distributions from Earthquake Sources. Pageoph Topical Volumes, 2016, , 3703-3717.	0.2	0
130	Tsunamis: Bayesian Probabilistic Analysis. , 2019, , 1-25.		0
131	Thank You to Our 2021 Peer Reviewers. AGU Advances, 2022, 3, .	2.3	0