Gavin Hayes

List of Publications by Year in descending order

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50 papers	3,832 citations	236833 25 h-index	214721 47 g-index
54 all docs	54 docs citations	54 times ranked	3308 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	Slab2, a comprehensive subduction zone geometry model. Science, 2018, 362, 58-61.	6.0	760
3	W phase source inversion for moderate to large earthquakes (1990-2010). Geophysical Journal International, 2012, 189, 1125-1147.	1.0	177
4	Continuing megathrust earthquake potential in Chile after the 2014 Iquique earthquake. Nature, 2014, 512, 295-298.	13.7	158
5	Rapid source characterization of the 2011 M w 9.0 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 529-534.	0.9	152
6	Oklahoma experiences largest earthquake during ongoing regional wastewater injection hazard mitigation efforts. Geophysical Research Letters, 2017, 44, 711-717.	1.5	145
7	The finite, kinematic rupture properties of great-sized earthquakes since 1990. Earth and Planetary Science Letters, 2017, 468, 94-100.	1.8	132
8	The 25 October 2010 Mentawai tsunami earthquake, from real-time discriminants, finite-fault rupture, and tsunami excitation. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	120
9	The July 2019 Ridgecrest, California, Earthquake Sequence: Kinematics of Slip and Stressing in Crossâ€Fault Ruptures. Geophysical Research Letters, 2019, 46, 11859-11867.	1.5	114
10	Real-time W phase inversion during the 2011 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 535-539.	0.9	92
11	On- and off-fault deformation associated with the September 2013 Mw 7.7 Balochistan earthquake: Implications for geologic slip rate measurements. Tectonophysics, 2015, 660, 65-78.	0.9	82
12	Rapid Characterization of the 2015M_wÂ7.8 Gorkha, Nepal, Earthquake Sequence and Its Seismotectonic Context. Seismological Research Letters, 2015, 86, 1557-1567.	0.8	80
13	Alternative Ruptureâ€Scaling Relationships for Subduction Interface and Other Offshore Environments. Bulletin of the Seismological Society of America, 2017, 107, 1240-1253.	1.1	72
14	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
15	Seismotectonic framework of the 2010 February 27 Mw 8.8 Maule, Chile earthquake sequence. Geophysical Journal International, 2013, 195, 1034-1051.	1.0	66
16	Reactivated faulting near Cushing, Oklahoma: Increased potential for a triggered earthquake in an area of United States strategic infrastructure. Geophysical Research Letters, 2015, 42, 8328-8332.	1.5	59
17	The 12 November 2017 M_w 7.3 Ezgelehâ€Sarpolzahab (Iran) Earthquake and Active Tectonics of the Lurestan Arc. Journal of Geophysical Research: Solid Earth, 2019, 124, 2124-2152.	1.4	57
18	Systematic Observations of the Slip Pulse Properties of Large Earthquake Ruptures. Geophysical Research Letters, 2017, 44, 9691-9698.	1.5	51

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19	Realâ€time forecasting of the April 11, 2012 Sumatra tsunami. Geophysical Research Letters, 2012, 39, .	1.5	44
20	Developing framework to constrain the geometry of the seismic rupture plane on subduction interfacesa priori- a probabilistic approach. Geophysical Journal International, 2009, 176, 951-964.	1.0	41
21	Tsunami Forecast by Joint Inversion of Real-Time Tsunami Waveforms and Seismic or GPS Data: Application to the Tohoku 2011 Tsunami. Pure and Applied Geophysics, 2014, 171, 3281-3305.	0.8	40
22	Seismological and geodetic constraints on the 2011 M_w5.3 Trinidad, Colorado earthquake and induced deformation in the Raton Basin. Journal of Geophysical Research: Solid Earth, 2014, 119, 7923-7933.	1.4	38
23	Characterizing large earthquakes before rupture is complete. Science Advances, 2019, 5, eaav2032.	4.7	37
24	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
25	Intraplate deformation adjacent to the Macquarie Ridge south of New Zealandâ€”The tectonic evolution of a complex plate boundary. Tectonophysics, 2009, 463, 1-14.	0.9	31
26	The Correlation Lengths and Hypocentral Positions of Great Earthquakes. Bulletin of the Seismological Society of America, 2019, 109, 2582-2593.	1.1	29
27	Global Earthquake Response with Imaging Geodesy: Recent Examples from the USGS NEIC. Remote Sensing, 2019, 11, 1357.	1.8	28
28	Breaking the oceanic lithosphere of a subducting slab: The 2013 Khash, Iran earthquake. Geophysical Research Letters, 2014, 41, 32-36.	1.5	26
29	Triggered aseismic slip adjacent to the 6 February 2013 Mw 8.0 Santa Cruz Islands megathrust earthquake. Earth and Planetary Science Letters, 2014, 388, 265-272.	1.8	24
30	Constraints on the long-period moment-dip tradeoff for the Tohoku earthquake. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	23
31	Foreshock triggering of the 1 April 2014 Mw 8.2 Iquique, Chile, earthquake. Earth and Planetary Science Letters, 2016, 447, 119-129.	1.8	21
32	Development of the Global Earthquake Modelâ€™s neotectonic fault database. Natural Hazards, 2015, 79, 111-135.	1.6	20
33	USGS Nearâ€Realâ€Time Productsâ€”and Their Useâ€”for the 2018 Anchorage Earthquake. Seismological Research Letters, 2020, 91, 94-113.	0.8	19
34	Quantifying potential tsunami hazard in the Puysegur subduction zone, south of New Zealand. Geophysical Journal International, 2010, 183, 1512-1524.	1.0	18
35	A rapid estimation of nearâ€field tsunami runup. Journal of Geophysical Research: Solid Earth, 2015, 120, 6487-6500.	1.4	16
36	The 2008 Wells, Nevada, Earthquake Sequence: Source Constraints Using Calibrated Multipleâ€Event Relocation and InSAR. Bulletin of the Seismological Society of America, 2017, 107, 1107-1117.	1.1	15

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37	Seismological analyses of the 2010 March 11, Pichilemu, Chile Mw 7.0 and Mw 6.9 coastal intraplate earthquakes. Geophysical Journal International, 2014, 197, 414-434.	1.0	14
38	Structural Control on Megathrust Rupture and Slip Behavior: Insights From the 2016 Mw 7.8 Pedernales Ecuador Earthquake. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018001.	1.4	14
39	Integrated geophysical characteristics of the 2015 Illapel, Chile, earthquake. Journal of Geophysical Research: Solid Earth, 2017, 122, 4691-4711.	1.4	13
40	Incorporating teleseismic tomography data into models of upper mantle slab geometry. Geophysical Journal International, 2018, 215, 325-332.	1.0	13
41	2017 ValparaÃso earthquake sequence and the megathrust patchwork of central Chile. Geophysical Research Letters, 2017, 44, 8865-8872.	1.5	11
42	A Ground-Motion Model for GNSS Peak Ground Displacement. Bulletin of the Seismological Society of America, 2021, 111, 2393-2407.	1.1	10
43	Double point source W-phase inversion: Real-time implementation and automated model selection. Physics of the Earth and Planetary Interiors, 2015, 249, 68-81.	0.7	7
44	Geometric controls on megathrust earthquakes. Geophysical Journal International, 2020, 222, 1270-1282.	1.0	6
45	RMT focal plane sensitivity to seismic network geometry and faulting style. Geophysical Journal International, 2016, 206, 525-556.	1.0	4
46	Tensor-Guided Fitting of Subducting Slab Depths. Bulletin of the Seismological Society of America, 2013, 103, 2657-2669.	1.1	3
47	Seismic Monitoring during Crises at the NEIC in Support of the ANSS. Seismological Research Letters, 2021, 92, 2905-2914.	0.8	2
48	Thank You to Our 2018 Peer Reviewers. Geophysical Research Letters, 2019, 46, 12608-12636.	1.5	0
49	Thank You to Our 2019 Peer Reviewers. Geophysical Research Letters, 2020, 47, e2020GL088048.	1.5	0
50	Thank You to Our 2020 Peer Reviewers. Geophysical Research Letters, 2021, 48, e2021GL093126.	1.5	0