

# Gavin Hayes

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Thank You to Our 2020 Peer Reviewers. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093126.	1.5	0
2	Seismic Monitoring during Crises at the NEIC in Support of the ANSS. <i>Seismological Research Letters</i> , 2021, 92, 2905-2914.	0.8	2
3	A Ground-Motion Model for GNSS Peak Ground Displacement. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2393-2407.	1.1	10
4	USGS Near-Real-Time Products and Their Use for the 2018 Anchorage Earthquake. <i>Seismological Research Letters</i> , 2020, 91, 94-113.	0.8	19
5	Thank You to Our 2019 Peer Reviewers. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088048.	1.5	0
6	Geometric controls on megathrust earthquakes. <i>Geophysical Journal International</i> , 2020, 222, 1270-1282.	1.0	6
7	Structural Control on Megathrust Rupture and Slip Behavior: Insights From the 2016 Mw 7.8 Pedernales Ecuador Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018001.	1.4	14
8	The Correlation Lengths and Hypocentral Positions of Great Earthquakes. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 2582-2593.	1.1	29
9	Thank You to Our 2018 Peer Reviewers. <i>Geophysical Research Letters</i> , 2019, 46, 12608-12636.	1.5	0
10	The July 2019 Ridgecrest, California, Earthquake Sequence: Kinematics of Slip and Stressing in Cross-Fault Ruptures. <i>Geophysical Research Letters</i> , 2019, 46, 11859-11867.	1.5	114
11	Characterizing large earthquakes before rupture is complete. <i>Science Advances</i> , 2019, 5, eaav2032.	4.7	37
12	Global Earthquake Response with Imaging Geodesy: Recent Examples from the USGS NEIC. <i>Remote Sensing</i> , 2019, 11, 1357.	1.8	28
13	The 12 November 2017 <i>M</i> <sub>w</sub> 7.3 Ezgeleh-Sarpolzahab (Iran) Earthquake and Active Tectonics of the Lurestan Arc. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2124-2152.	1.4	57
14	Incorporating teleseismic tomography data into models of upper mantle slab geometry. <i>Geophysical Journal International</i> , 2018, 215, 325-332.	1.0	13
15	Slab2, a comprehensive subduction zone geometry model. <i>Science</i> , 2018, 362, 58-61.	6.0	760
16	Oklahoma experiences largest earthquake during ongoing regional wastewater injection hazard mitigation efforts. <i>Geophysical Research Letters</i> , 2017, 44, 711-717.	1.5	145
17	The finite, kinematic rupture properties of great-sized earthquakes since 1990. <i>Earth and Planetary Science Letters</i> , 2017, 468, 94-100.	1.8	132
18	Integrated geophysical characteristics of the 2015 Illapel, Chile, earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4691-4711.	1.4	13

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19	The 2008 Wells, Nevada, Earthquake Sequence: Source Constraints Using Calibrated Multiple-Event Relocation and InSAR. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 1107-1117.	1.1	15
20	Alternative Rupture-Scaling Relationships for Subduction Interface and Other Offshore Environments. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 1240-1253.	1.1	72
21	Systematic Observations of the Slip Pulse Properties of Large Earthquake Ruptures. <i>Geophysical Research Letters</i> , 2017, 44, 9691-9698.	1.5	51
22	2017 Valparaíso earthquake sequence and the megathrust patchwork of central Chile. <i>Geophysical Research Letters</i> , 2017, 44, 8865-8872.	1.5	11
23	Foreshock triggering of the 1 April 2014 Mw 8.2 Iquique, Chile, earthquake. <i>Earth and Planetary Science Letters</i> , 2016, 447, 119-129.	1.8	21
24	RMT focal plane sensitivity to seismic network geometry and faulting style. <i>Geophysical Journal International</i> , 2016, 206, 525-556.	1.0	4
25	A rapid estimation of near-field tsunami runup. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6487-6500.	1.4	16
26	Reactivated faulting near Cushing, Oklahoma: Increased potential for a triggered earthquake in an area of United States strategic infrastructure. <i>Geophysical Research Letters</i> , 2015, 42, 8328-8332.	1.5	59
27	Development of the Global Earthquake Model's neotectonic fault database. <i>Natural Hazards</i> , 2015, 79, 111-135.	1.6	20
28	Rapid Characterization of the 2015 $M_w 7.8$ Gorkha, Nepal, Earthquake Sequence and Its Seismotectonic Context. <i>Seismological Research Letters</i> , 2015, 86, 1557-1567.	0.8	80
29	Double point source <i>W</i> -phase inversion: Real-time implementation and automated model selection. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 249, 68-81.	0.7	7
30	On- and off-fault deformation associated with the September 2013 Mw 7.7 Balochistan earthquake: Implications for geologic slip rate measurements. <i>Tectonophysics</i> , 2015, 660, 65-78.	0.9	82
31	Triggered aseismic slip adjacent to the 6 February 2013 Mw 8.0 Santa Cruz Islands megathrust earthquake. <i>Earth and Planetary Science Letters</i> , 2014, 388, 265-272.	1.8	24
32	Breaking the oceanic lithosphere of a subducting slab: The 2013 Khash, Iran earthquake. <i>Geophysical Research Letters</i> , 2014, 41, 32-36.	1.5	26
33	Continuing megathrust earthquake potential in Chile after the 2014 Iquique earthquake. <i>Nature</i> , 2014, 512, 295-298.	13.7	158
34	Tsunami Forecast by Joint Inversion of Real-Time Tsunami Waveforms and Seismic or GPS Data: Application to the Tohoku 2011 Tsunami. <i>Pure and Applied Geophysics</i> , 2014, 171, 3281-3305.	0.8	40
35	Seismological analyses of the 2010 March 11, Pichilemu, Chile Mw 7.0 and Mw 6.9 coastal intraplate earthquakes. <i>Geophysical Journal International</i> , 2014, 197, 414-434.	1.0	14
36	Seismological and geodetic constraints on the 2011 $M_w 5.3$ Trinidad, Colorado earthquake and induced deformation in the Raton Basin. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7923-7933.	1.4	38

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37	Tensor-Guided Fitting of Subducting Slab Depths. Bulletin of the Seismological Society of America, 2013, 103, 2657-2669.	1.1	3
38	Seismotectonic framework of the 2010 February 27 Mw 8.8 Maule, Chile earthquake sequence. Geophysical Journal International, 2013, 195, 1034-1051.	1.0	66
39	Real-time forecasting of the April 11, 2012 Sumatra tsunami. Geophysical Research Letters, 2012, 39, .	1.5	44
40	Slab1.0: A three-dimensional model of global subduction zone geometries. Journal of Geophysical Research, 2012, 117, .	3.3	831
41	W phase source inversion for moderate to large earthquakes (1990-2010). Geophysical Journal International, 2012, 189, 1125-1147.	1.0	177
42	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
43	Constraints on the long-period moment-dip tradeoff for the Tohoku earthquake. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	23
44	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
45	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
46	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
47	Quantifying potential tsunami hazard in the Puysegur subduction zone, south of New Zealand. Geophysical Journal International, 2010, 183, 1512-1524.	1.0	18
48	Developing framework to constrain the geometry of the seismic rupture plane on subduction interfaces a priori - a probabilistic approach. Geophysical Journal International, 2009, 176, 951-964.	1.0	41
49	Intraplate deformation adjacent to the Macquarie Ridge south of New Zealand - The tectonic evolution of a complex plate boundary. Tectonophysics, 2009, 463, 1-14.	0.9	31
50	Advancing techniques to constrain the geometry of the seismic rupture plane on subduction interfaces a priori: Higher-order functional fits. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	35