

Aditya Gusman

List of Publications by Year in descending order

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66
papers

1,886
citations

257101

24
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276539

41
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71
all docs

71
docs citations

71
times ranked

1417
citing authors

#	ARTICLE	IF	CITATIONS
1	Fault slip distribution of the 2014 Iquique, Chile, earthquake estimated from ocean-wide tsunami waveforms and GPS data. <i>Geophysical Research Letters</i> , 2015, 42, 1053-1060.	1.5	121
2	Extreme runup from the 17 July 2006 Java tsunami. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	120
3	Source model of the 16 September 2015 Illapel, Chile, <i>M_w</i> 8.4 earthquake based on teleseismic and tsunami data. <i>Geophysical Research Letters</i> , 2016, 43, 643-650.	1.5	111
4	Source model of the great 2011 Tohoku earthquake estimated from tsunami waveforms and crustal deformation data. <i>Earth and Planetary Science Letters</i> , 2012, 341-344, 234-242.	1.8	93
5	Tsunami Source of the 2010 Mentawai, Indonesia Earthquake Inferred from Tsunami Field Survey and Waveform Modeling. <i>Pure and Applied Geophysics</i> , 2013, 170, 1567-1582.	0.8	90
6	Tsunamigenic ionospheric hole. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	78
7	Sedimentary Deposits from the 17 July 2006 Western Java Tsunami, Indonesia: Use of Grain Size Analyses to Assess Tsunami Flow Depth, Speed, and Traction Carpet Characteristics. <i>Pure and Applied Geophysics</i> , 2011, 168, 1951-1961.	0.8	67
8	Comparison of Earthquake Source Models for the 2011 Tohoku Event Using Tsunami Simulations and Near-Field Observations. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 1256-1274.	1.1	64
9	A methodology for near-field tsunami inundation forecasting: Application to the 2011 Tohoku tsunami. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8186-8206.	1.4	63
10	Tsunami data assimilation of Cascadia seafloor pressure gauge records from the 2012 Haida Gwaii earthquake. <i>Geophysical Research Letters</i> , 2016, 43, 4189-4196.	1.5	61
11	Source Model for the Tsunami Inside Palu Bay Following the 2018 Palu Earthquake, Indonesia. <i>Geophysical Research Letters</i> , 2019, 46, 8721-8730.	1.5	55
12	Slip distribution of the 2007 Bengkulu earthquake inferred from tsunami waveforms and InSAR data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	52
13	Tsunami Hazard and Built Environment Damage Observations from Palu City after the September 28 2018 Sulawesi Earthquake and Tsunami. <i>Pure and Applied Geophysics</i> , 2019, 176, 3305-3321.	0.8	52
14	Green's Function-Based Tsunami Data Assimilation: A Fast Data Assimilation Approach Toward Tsunami Early Warning. <i>Geophysical Research Letters</i> , 2017, 44, 10,282.	1.5	37
15	Analysis of the Tsunami Generated by the Great 1977 Sumba Earthquake that Occurred in Indonesia. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 2169-2179.	1.1	35
16	Deep-Water Characteristics of the Trans-Pacific Tsunami from the 1 April 2014 <i>M_w</i> 8.2 Iquique, Chile Earthquake. <i>Pure and Applied Geophysics</i> , 2015, 172, 719-730.	0.8	34
17	A possible space-based tsunami early warning system using observations of the tsunami ionospheric hole. <i>Scientific Reports</i> , 2016, 6, 37989.	1.6	33
18	Comparative study of two tsunamigenic earthquakes in the Solomon Islands: 2015 <i>M_w</i> 7.0 normal fault and 2013 Santa Cruz <i>M_w</i> 8.0 megathrust 1.5 earthquakes. <i>Geophysical Research Letters</i> , 2016, 43, 4340-4349.		33

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19	Fault Slip Distribution of the 2016 Fukushima Earthquake Estimated from Tsunami Waveforms. Pure and Applied Geophysics, 2017, 174, 2925-2943.	0.8	33
20	Optimum Sea Surface Displacement and Fault Slip Distribution of the 2017 Tehuantepec Earthquake (M) Tj ETQq0,0,0 rgBT /Overlock 1	1.5	33
21	Numerical experiment and a case study of sediment transport simulation of the 2004 Indian Ocean tsunami in Lhok Nga, Banda Aceh, Indonesia. Earth, Planets and Space, 2012, 64, 817-827.	0.9	31
22	W Phase Inversion and Tsunami Inundation Modeling for Tsunami Early Warning: Case Study for the 2011 Tohoku Event. Pure and Applied Geophysics, 2014, 171, 1409-1422.	0.8	29
23	Regional probabilistic tsunami hazard assessment associated with active faults along the eastern margin of the Sea of Japan. Earth, Planets and Space, 2020, 72, .	0.9	28
24	Preparing for the Future Nankai Trough Tsunami: A Data Assimilation and Inversion Analysis From Various Observational Systems. Journal of Geophysical Research: Oceans, 2017, 122, 7924-7937.	1.0	26
25	Optimal Design for Placements of Tsunami Observing Systems to Accurately Characterize the Inducing Earthquake. Geophysical Research Letters, 2017, 44, 12,106.	1.5	24
26	Fault source of the 2 September 2009 Mw 6.8 Tasikmalaya intraslab earthquake, Indonesia: Analysis from GPS data inversion, tsunami height simulation, and stress transfer. Physics of the Earth and Planetary Interiors, 2019, 291, 54-61.	0.7	23
27	An Adjoint Sensitivity Method Applied to Time Reverse Imaging of Tsunami Source for the 2009 Samoa Earthquake. Geophysical Research Letters, 2018, 45, 627-636.	1.5	22
28	Rupture process of the 2016 Wharton Basin strike-slip faulting earthquake estimated from joint inversion of teleseismic and tsunami waveforms. Geophysical Research Letters, 2017, 44, 4082-4089.	1.5	20
29	A 1000-yr-old tsunami in the Indian Ocean points to greater risk for East Africa. Geology, 2020, 48, 808-813.	2.0	20
30	Array Observations of the 2012 Haida Gwaii Tsunami Using Cascadia Initiative Absolute and Differential Seafloor Pressure Gauges. Seismological Research Letters, 2015, 86, 1278-1286.	0.8	19
31	Estimate of tsunami source using optimized unit sources and including dispersion effects during tsunami propagation: The 2012 Haida Gwaii earthquake. Geophysical Research Letters, 2016, 43, 9819-9828.	1.5	19
32	Pre-computed tsunami inundation database and forecast simulation in Pelabuhan Ratu, Indonesia. Pure and Applied Geophysics, 2017, 174, 3219-3235.	0.8	19
33	Alternative to non-linear model for simulating tsunami inundation in real-time. Geophysical Journal International, 2018, 214, 2002-2013.	1.0	19
34	Tsunami Data Assimilation Without a Dense Observation Network. Geophysical Research Letters, 2019, 46, 2045-2053.	1.5	19
35	Contribution from Multiple Fault Ruptures to Tsunami Generation During the 2016 Kaikoura Earthquake. Pure and Applied Geophysics, 2018, 175, 2557-2574.	0.8	18
36	An Optimized Array Configuration of Tsunami Observation Network Off Southern Java, Indonesia. Journal of Geophysical Research: Solid Earth, 2019, 124, 9622-9637.	1.4	18

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37	Tsunami history over the past 2000 years on the Sanriku coast, Japan, determined using gravel deposits to estimate tsunami inundation behavior. <i>Sedimentary Geology</i> , 2019, 382, 85-102.	1.0	17
38	Source modeling and spectral analysis of the Crete tsunami of 2nd May 2020 along the Hellenic Subduction Zone, offshore Greece. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	17
39	Data assimilation with dispersive tsunami model: a test for the Nankai Trough. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	16
40	Improving Forecast Accuracy With Tsunami Data Assimilation: The 2009 Dusky Sound, New Zealand, Tsunami. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 566-577.	1.4	15
41	Sediment transport modeling of multiple grain sizes for the 2011 Tohoku tsunami on a steep coastal valley of Numanohama, northeast Japan. <i>Marine Geology</i> , 2018, 405, 77-91.	0.9	14
42	Tsunami Source of the 2021 <i>M</i>_W 8.1 Raoul Island Earthquake From DART and Tideâ€Gauge Data Inversion. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094449.	1.5	14
43	Near-field tsunami inundation forecast method assimilating ocean bottom pressure data: A synthetic test for the 2011 Tohoku-oki tsunami. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 283, 82-91.	0.7	13
44	Tsunami Hazard Mitigation at Palabuhanratu, Indonesia. <i>Journal of Disaster Research</i> , 2012, 7, 19-25.	0.4	13
45	Effects of topography on particle composition of 2011 tsunami deposits on the ria-type Sanriku coast, Japan. <i>Quaternary International</i> , 2017, 456, 17-27.	0.7	12
46	Applying a Deep Learning Algorithm to Tsunami Inundation Database of Megathrust Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019690.	1.4	12
47	Advanced tsunami detection and forecasting by radar on unconventional airborne observing platforms. <i>Scientific Reports</i> , 2020, 10, 2412.	1.6	12
48	Method to Determine Appropriate Source Models of Large Earthquakes Including Tsunami Earthquakes for Tsunami Early Warning in Central America. <i>Pure and Applied Geophysics</i> , 2017, 174, 3237-3248.	0.8	11
49	Real-Time Tsunami Inundation Forecast for a Recurrence of 17thCentury Great Hokkaido Earthquake in Japan. <i>Journal of Disaster Research</i> , 2014, 9, 358-364.	0.4	10
50	In situ Measurements of Tide Gauge Response and Corrections of Tsunami Waveforms from the Niigataken Chuetsu-oki Earthquake in 2007. <i>Pure and Applied Geophysics</i> , 2009, 166, 97-116.	0.8	9
51	Effect of the largest foreshock (Mw 7.3) on triggering the 2011 Tohoku earthquake (Mw 9.0). <i>Geophysical Research Letters</i> , 2013, 40, 497-500.	1.5	9
52	Adaptive Tsunami Source Inversion Using Optimizations and the Reciprocity Principle. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 10,749.	1.4	9
53	Generation mechanism of large later phases of the 2011 Tohoku-oki tsunami causing damages in Hakodate, Hokkaido, Japan. <i>Progress in Earth and Planetary Science</i> , 2019, 6, .	1.1	9
54	Determination of Source Models Appropriate for Tsunami Forecasting: Application to Tsunami Earthquakes in Central Sumatra, Indonesia. <i>Pure and Applied Geophysics</i> , 2020, 177, 2551-2562.	0.8	8

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55	Sensitivity of Tsunami Data to the Up-Dip Extent of the July 2011 Mw 8.2 Alaska Earthquake. <i>Seismological Research Letters</i> , 2022, 93, 1992-2003.	0.8	8
56	Tsunamis from the 29 March and 5 May 2015 Papua New Guinea earthquake doublet ($M_w = 7.5$) and tsunamigenic potential of the New Britain trench. <i>Geophysical Research Letters</i> , 2015, 42, 5958-5965.	1.5	7
57	Effectiveness of Real-Time Near-Field Tsunami Inundation Forecasts for Tsunami Evacuation in Kushiro City, Hokkaido, Japan. <i>Advances in Natural and Technological Hazards Research</i> , 2015, , 157-177.	1.1	7
58	Reduction effect of tsunami sediment transport by a coastal forest: Numerical simulation of the 2011 Tohoku tsunami on the Sendai Plain, Japan. <i>Sedimentary Geology</i> , 2020, 407, 105740.	1.0	5
59	Tsunami Induced by the Strike-Slip Fault of the 2018 Palu Earthquake ($M_w = 7.5$), Sulawesi Island, Indonesia. <i>Earth and Space Science</i> , 2021, 8, e2020EA001400.	1.1	5
60	Source Process for Two Enigmatic Repeating Vertical-CLVD Tsunami Earthquakes in the Kermadec Ridge. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087805.	1.5	4
61	Application of Dense Offshore Tsunami Observations from Ocean Bottom Pressure Gauges (OBPGs) for Tsunami Research and Early Warnings. <i>Springer Natural Hazards</i> , 2019, , 7-22.	0.1	3
62	Five years after the 14 November 2016 Kaikōura Tsunami in Aotearoa-New Zealand: insights from recent research. <i>New Zealand Journal of Geology, and Geophysics</i> , 2023, 66, 147-161.	1.0	3
63	Re-evaluation of Earthquake and Tsunami Magnitudes of the 1906 Great Ecuador-Colombia Earthquake. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , 2017, 69, 87-98.	0.0	3
64	Reexamination of Occurrence of Large Tsunamis after the Analysis of the 2011 Great Tohoku-oki Earthquake. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , 2012, 64, 265-270.	0.0	2
65	A 1000-yr-old tsunami in the Indian Ocean points to greater risk for East Africa: REPLY. <i>Geology</i> , 2021, 49, e516-e516.	2.0	0
66	In situ Measurements of Tide Gauge Response and Corrections of Tsunami Waveforms from the Niigataken Chuetsu-oki Earthquake in 2007. , 2009, , 97-116.		0