

# Tatsuhiko Saito

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7750091/publications.pdf>

Version: 2024-02-01

56  
papers

1,651  
citations

279487

23  
h-index

301761

39  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1078  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial distribution and focal mechanisms of aftershocks of the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 669-673.	0.9	229
2	Tsunami source of the 2011 Tohoku-Oki earthquake, Japan: Inversion analysis based on dispersive tsunami simulations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	131
3	Global fast-traveling tsunamis driven by atmospheric Lamb waves on the 2022 Tonga eruption. <i>Science</i> , 2022, 377, 91-94.	6.0	113
4	Three-dimensional tsunami generation simulation due to sea-bottom deformation and its interpretation based on the linear theory. <i>Geophysical Journal International</i> , 2009, 178, 877-888.	1.0	81
5	Tsunami waveform inversion including dispersive waves: the 2004 earthquake off Kii Peninsula, Japan. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	66
6	Dynamic tsunami generation due to sea-bottom deformation: Analytical representation based on linear potential theory. <i>Earth, Planets and Space</i> , 2013, 65, 1411-1423.	0.9	59
7	Dispersion and nonlinear effects in the 2011 Tohoku-Oki earthquake tsunami. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5160-5180.	1.0	54
8	Love-wave excitation due to the interaction between a propagating ocean wave and the sea-bottom topography. <i>Geophysical Journal International</i> , 2010, 182, 1515-1523.	1.0	51
9	Temporal Changes in Stress Drop, Frictional Strength, and Earthquake Size Distribution in the 2011 Yamagata-Fukushima, NE Japan, Earthquake Swarm, Caused by Fluid Migration. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,379.	1.4	48
10	Three-dimensional simulation of tsunami generation and propagation: Application to intraplate events. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	46
11	Slip-Deficit Rate Distribution Along the Nankai Trough, Southwest Japan, With Elastic Lithosphere and Viscoelastic Asthenosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8125-8142.	1.4	46
12	Dispersive tsunami of the 2010 Chile earthquake recorded by the high-sampling-rate ocean-bottom pressure gauges. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	40
13	Synthesizing ocean bottom pressure records including seismic wave and tsunami contributions: Toward realistic tests of monitoring systems. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8175-8195.	1.4	36
14	Stress rotations due to the $M=6.5$ foreshock and $M=7.3$ main shock in the 2016 Kumamoto, SW Japan, earthquake sequence. <i>Geophysical Research Letters</i> , 2016, 43, 10,097.	1.5	36
15	Tsunami generation: validity and limitations of conventional theories. <i>Geophysical Journal International</i> , 2017, 210, 1888-1900.	1.0	33
16	Tsunami Generation and Propagation. Springer Geophysics, 2019, , .	0.9	31
17	Millimeter-scale Tsunami Detected by a Wide and Dense Observation Array in the Deep Ocean: Fault Modeling of an $M=6.0$ Interplate Earthquake off Sanriku, NE Japan. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085842.	1.5	30
18	Simulation of distant tsunami propagation with a radial loading deformation effect. <i>Earth, Planets and Space</i> , 2013, 65, 835-842.	0.9	28

#	ARTICLE	IF	CITATIONS
19	Fault size and depth extent of the Ecuador earthquake ( $M_w$ 7.8) of 16 April 2016 from teleseismic and tsunami data. <i>Geophysical Research Letters</i> , 2017, 44, 2211-2219.	1.5	26
20	Tsunami Coda across the Pacific Ocean Following the 2011 Tohoku-Oki Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 1429-1443.	1.1	25
21	Tsunami Modeling for the Deep Sea and Inside Focal Areas. <i>Annual Review of Earth and Planetary Sciences</i> , 2020, 48, 121-145.	4.6	25
22	Fractional seismic velocity change related to magma intrusions during earthquake swarms in the eastern Izu peninsula, central Japan. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
23	Estimation of Seismic Centroid Moment Tensor Using Ocean Bottom Pressure Gauges as Seismometers. <i>Geophysical Research Letters</i> , 2017, 44, 10,907.	1.5	23
24	Moment tensor inversion of the 2016 southeast offshore Mie earthquake in the Tonankai region using a three-dimensional velocity structure model: effects of the accretionary prism and subducting oceanic plate. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	21
25	Meteorological Tsunami Generation Due to Sea Surface Pressure Change: Three-Dimensional Theory and Synthetics of Ocean Bottom Pressure Change. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017011.	1.0	21
26	Synthesizing sea surface height change including seismic waves and tsunami using a dynamic rupture scenario of anticipated Nankai trough earthquakes. <i>Tectonophysics</i> , 2019, 769, 228166.	0.9	18
27	Scattering of linear long-wave tsunamis due to randomly fluctuating sea-bottom topography: coda excitation and scattering attenuation. <i>Geophysical Journal International</i> , 2009, 177, 958-965.	1.0	17
28	Two subevents across the Japan Trench during the 7 December 2012 off Tohoku earthquake ( $M_w$ 7.3) inferred from offshore tsunami records. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5800-5813.	1.4	16
29	Using Tsunami Waves Reflected at the Coast to Improve Offshore Earthquake Source Parameters: Application to the 2016 Mw 7.1 Te Araroa Earthquake, New Zealand. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8767-8779.	1.4	16
30	Meteotsunami Observed by the Deep Ocean Seafloor Pressure Gauge Network Off Northeastern Japan. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094255.	1.5	16
31	Energy-Based Scenarios for Great Thrust-Type Earthquakes in the Nankai Trough Subduction Zone, Southwest Japan, Using an Interseismic Slip Deficit Model. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020417.	1.4	15
32	Modeling of Long-Period Ground Motions in the Nankai Subduction Zone: Model Simulation Using the Accretionary Prism Derived from Oceanfloor Local S-Wave Velocity Structures. <i>Pure and Applied Geophysics</i> , 2019, 176, 627-647.	0.8	14
33	Estimation of seismic velocity changes at different depths associated with the 2014 Northern Nagano Prefecture earthquake, Japan ( $M_w$ 6.2) by joint interferometric analysis of NIED Hi-net and KIK-net records. <i>Progress in Earth and Planetary Science</i> , 2016, 3, .	1.1	13
34	Near-field tsunami forecast system based on near real-time seismic moment tensor estimation in the regions of Indonesia, the Philippines, and Chile. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	13
35	The Nankai Trough earthquake tsunamis in Korea: numerical studies of the 1707 Hoei earthquake and physics-based scenarios. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	13
36	Shallow Temporal Changes in $S$ Wave Velocity and Polarization Anisotropy Associated With the 2016 Kumamoto Earthquake Sequence, Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9899-9913.	1.4	13

#	ARTICLE	IF	CITATIONS
37	Shear Strain Energy Change Caused by the Interplate Coupling Along the Nankai Trough: An Integration Analysis Using Stress Tensor Inversion and Slip Deficit Inversion. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5975-5986.	1.4	13
38	Rupture directivity, stress drop, and hypocenter migration of small earthquakes in the Yamagata-Fukushima border swarm triggered by upward pore-pressure migration after the 2011 Tohoku-Oki earthquake. <i>Tectonophysics</i> , 2019, 769, 228184.	0.9	13
39	Stress Release Process Along an Intraplate Fault Analogous to the Plate Boundary: A Case Study of the 2017 <i>M</i> 5.2 Akita-Daisen Earthquake, NE Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019527.	1.4	13
40	Integrated Ground Motion and Tsunami Simulation for the 1944 Tonankai Earthquake Using High-Performance Supercomputers. <i>Journal of Disaster Research</i> , 2009, 4, 118-126.	0.4	13
41	Velocity shift in two-dimensional anisotropic random media using the Rytov method. <i>Geophysical Journal International</i> , 2006, 166, 293-308.	1.0	12
42	Ground tilt changes in Japan caused by the 2010 Maule, Chile, earthquake tsunami. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 406-415.	1.4	12
43	Monitoring the instrument response of the high-sensitivity seismograph network in Japan (Hi-net): effects of response changes on seismic interferometry analysis. <i>Earth, Planets and Space</i> , 2015, 67, .	0.9	12
44	Ultrabroadband Seismic and Tsunami Wave Observation of High-Sampling Ocean Bottom Pressure Gauge Covering Periods From Seconds to Hours. <i>Earth and Space Science</i> , 2020, 7, e2020EA001197.	1.1	12
45	Detection of Rapid Aseismic Slip at the Izu-Bonin Trench. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022132.	1.4	11
46	Extracting Near-Field Seismograms From Ocean Bottom Pressure Gauge Inside the Focal Area: Application to the 2011 Mw 9.1 Tohoku-Oki Earthquake. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091664.	1.5	8
47	Impulsive Tsunami and Large Runup Along the Sanriku Coast of Japan Produced by an Inelastic Wedge Deformation Model. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022098.	1.4	6
48	Mechanically Coupled Areas on the Plate Interface in the Nankai Trough, Japan and a Possible Seismic and Aseismic Rupture Scenario for Megathrust Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	6
49	Strain energy released by earthquake faulting with random slip components. <i>Geophysical Journal International</i> , 2020, 220, 2009-2020.	1.0	5
50	The 3D Spatial Distribution of Shear Strain Energy Changes Associated With the 2016 Kumamoto Earthquake Sequence, Southwest Japan. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086369.	1.5	5
51	Earthquake Rupture and Tsunami Generation of the 2015 <i>M</i> 5.9 Bonin Event Revealed by In Situ Pressure Gauge Array Observations and Integrated Seismic and Tsunami Wave Simulation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095915.	1.5	5
52	Global tsunami simulation using a grid rotation transformation in a latitude-longitude coordinate system. <i>Natural Hazards</i> , 2016, 80, 759-773.	1.6	4
53	Tsunami modeling from the seismic CMT solution considering the dispersive effect: a case of the 2013 Santa Cruz Islands tsunami. <i>Earth, Planets and Space</i> , 2015, 67, 4.	0.9	3
54	Tsunami Generation. <i>Springer Geophysics</i> , 2019, , 149-203.	0.9	3

#	ARTICLE	IF	CITATIONS
55	Propagation Simulation. Springer Geophysics, 2019, , 205-254.	0.9	1
56	Overview of Tsunami. Springer Geophysics, 2019, , 17-47.	0.9	0