Takeshi Iinuma

List of Publications by Year
in descending order

53	2,511	257101	233125
papers	citations	24 h-index	45 g-index

60	60	60	1634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Episodic slow slip events in the Japan subduction zone before the 2011 Tohoku-Oki earthquake. Tectonophysics, 2013, 600, 14-26.	0.9	303
2	Coseismic slip distribution of the 2011 off the Pacific Coast of Tohoku Earthquake (M9.0) refined by means of seafloor geodetic data. Journal of Geophysical Research, 2012, 117, .	3.3	255
3	Prevalence of viscoelastic relaxation after the 2011 Tohoku-oki earthquake. Nature, 2014, 514, 84-87.	13.7	223
4	Quasi realâ€time fault model estimation for nearâ€field tsunami forecasting based on RTKâ€GPS analysis: Application to the 2011 Tohokuâ€Oki earthquake (M_w 9.0). Journal of Geophysical Research, 2012, 117, .	3.3	192
5	Change in stress field after the 2011 great Tohoku-Oki earthquake. Earth and Planetary Science Letters, 2012, 355-356, 231-243.	1.8	136
6	Periodic slow slip triggers megathrust zone earthquakes in northeastern Japan. Science, 2016, 351, 488-492.	6.0	122
7	Stress before and after the 2011 great Tohokuâ€oki earthquake and induced earthquakes in inland areas of eastern Japan. Geophysical Research Letters, 2012, 39, .	1.5	113
8	Coseismic slip distribution of the 2011 off the Pacific coast of Tohoku Earthquake (M 9.0) estimated based on GPS dataâ€" Was the asperity in Miyagi-oki ruptured?. Earth, Planets and Space, 2011, 63, 643-648.	0.9	105
9	Seafloor observations indicate spatial separation of coseismic and postseismic slips in the 2011 Tohoku earthquake. Nature Communications, 2016, 7, 13506.	5.8	81
10	Along-trench variation in seafloor displacements after the 2011 Tohoku earthquake. Science Advances, 2017, 3, e1700113.	4.7	74
11	Geodetic constraints on afterslip characteristics following the March 9, 2011, Sanrikuâ€oki earthquake, Japan. Geophysical Research Letters, 2012, 39, .	1.5	68
12	Was the 2011 Tohoku-Oki earthquake preceded by aseismic preslip? Examination of seafloor vertical deformation data near the epicenter. Marine Geophysical Researches, 2014, 35, 181-190.	0.5	67
13	Coseismic fault model of the 2008 Iwate-Miyagi Nairiku earthquake deduced by a dense GPS network. Earth, Planets and Space, 2008, 60, 1197-1201.	0.9	62
14	Rapid mantle flow with power-law creep explains deformation after the 2011 Tohoku mega-quake. Nature Communications, 2019, 10, 1385.	5.8	62
15	Learning from crustal deformation associated with the M9 2011 Tohoku-oki earthquake. , 2018, 14, 552-571.		58
16	tFISH/RAPiD: Rapid improvement of nearâ€field tsunami forecasting based on offshore tsunami data by incorporating onshore GNSS data. Geophysical Research Letters, 2014, 41, 3390-3397.	1.5	48
17	Coupled afterslip and transient mantle flow after the 2011 Tohoku earthquake. Science Advances, 2019, 5, eaaw1164.	4.7	48
18	Co- and post-seismic slip associated with the 2005 Miyagi-oki earthquake (M7.2) as inferred from GPS data. Earth, Planets and Space, 2006, 58, 1567-1572.	0.9	47

#	Article	IF	Citations
19	First measurement of the displacement rate of the Pacific Plate near the Japan Trench after the 2011 Tohoku-Oki earthquake using GPS/acoustic technique. Geophysical Research Letters, 2015, 42, 8391-8397.	1.5	41
20	Changes in the stress field after the 2008 M7.2 Iwateâ€Miyagi Nairiku earthquake in northeastern Japan. Journal of Geophysical Research: Solid Earth, 2014, 119, 9016-9030.	1.4	40
21	Heterogeneous rheology controlled postseismic deformation of the 2011 Tohokuâ€Oki earthquake. Geophysical Research Letters, 2016, 43, 4971-4978.	1.5	38
22	Inter-plate coupling in the Nicoya Peninsula, Costa Rica, as deduced from a trans-peninsula GPS experiment. Earth and Planetary Science Letters, 2004, 223, 203-212.	1.8	27
23	Twoâ€dimensional viscosity structure of the northeastern Japan islands arcâ€trench system. Geophysical Research Letters, 2013, 40, 4604-4608.	1.5	26
24	Large intraslab earthquake (2011 April 7, M 7.1) after the 2011 off the Pacific coast of Tohoku Earthquake (M 9.0): Coseismic fault model based on the dense GPS network data. Earth, Planets and Space, 2011, 63, 1207-1211.	0.9	25
25	Geodetic evidence of viscoelastic relaxation after the 2008 Iwate-Miyagi Nairiku earthquake. Earth, Planets and Space, 2012, 64, 759-764.	0.9	25
26	Strain anomalies induced by the 2011 Tohoku Earthquake (M w 9.0) as observed by a dense GPS network in northeastern Japan. Earth, Planets and Space, 2012, 64, 1231-1238.	0.9	25
27	Aseismic slow slip on an inland active fault triggered by a nearby shallow event, the 2008 Iwateâ€Miyagi Nairiku earthquake (Mw6.8). Geophysical Research Letters, 2009, 36, .	1.5	24
28	Progress in the Project for Development of GPS/Acoustic Technique Over the Last 4 Years. International Association of Geodesy Symposia, 2015, , 3-10.	0.2	19
29	Coseismic and postseismic deformation related to the 2007 Chuetsu-oki, Niigata Earthquake. Earth, Planets and Space, 2008, 60, 1081-1086.	0.9	18
30	Characteristics of Slow Slip Event in March 2020 Revealed From Borehole and DONET Observatories. Frontiers in Earth Science, 2021, 8, .	0.8	17
31	Improvement on spatial resolution of a coseismic slip distribution using postseismic geodetic data through a viscoelastic inversion. Earth, Planets and Space, 2020, 72, .	0.9	17
32	GNSS-Acoustic Observations of Seafloor Crustal Deformation Using a Wave Glider. Frontiers in Earth Science, 2021, 9, .	0.8	14
33	Coseismic slip model of offshore moderate interplate earthquakes on March 9, 2011 in Tohoku using tsunami waveforms. Earth and Planetary Science Letters, 2017, 458, 241-251.	1.8	12
34	High-fidelity elastic Greenâ€™s functions for subduction zone models consistent with the global standard geodetic reference system. Earth, Planets and Space, 2021, 73, .	0.9	11
35	Along-arc heterogeneous rheology inferred from post-seismic deformation of the 2011 Tohoku-oki earthquake. Geophysical Journal International, 2022, 230, 202-215.	1.0	11
36	Investigating a tsunamigenic megathrust earthquake in the Japan Trench. Science, 2021, 371, .	6.0	9

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37	Complicated rupture process of the M_w 7.0 intraslab strikeâ€slip earthquake in the Tohoku region on 10 July 2011 revealed by nearâ€field pressure records. Geophysical Research Letters, 2015, 42, 9733-9739.	1.5	8
38	Postseismic slip associated with the 2007 Chuetsu-oki, Niigata, Japan, Earthquake (M 6.8 on 16 July 2007) as inferred from GPS data. Earth, Planets and Space, 2008, 60, 1087-1091.	0.9	7
39	Inversion of GPS velocity and seismicity data to yield changes in stress in the Japanese Islands. Geophysical Journal International, 2005, 160, 417-434.	1.0	6
40	Monitoring of the spatio-temporal change in the interplate coupling at northeastern Japan subduction zone based on the spatial gradients of surface velocity field. Geophysical Journal International, 2018, 213, 30-47.	1.0	6
41	Development of a Transâ€Dimensional Fault Slip Inversion for Geodetic Data. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020991.	1.4	5
42	Development and examination of new algorithms of traveltime detection in GPS/acoustic geodetic data for precise and automated analysis. Earth, Planets and Space, 2016, 68, .	0.9	4
43	Investigation on the Postseismic Deformation Associated with the 2011 Tohoku Earthquake Based on Terrestrial and Seafloor Geodetic Observations: To Evaluate the Further Seismic Hazard Potential on the Plate Interface Beneath the Northeastern Japanese Islands. International Association of Geodesy Symposia, 2015, , 459-466.	0.2	3
44	Precise Monitoring of Pore Pressure at Boreholes Around Nankai Trough Toward Early Detecting Crustal Deformation. Frontiers in Earth Science, 2021, 9, .	0.8	3
45	Extraction of crustal deformations and oceanic fluctuations from ocean bottom pressures. , 2016, , .		2
46	Postseismic Uplift Along the Pacific Coast of Tohoku and Kanto Districts Associated with the 2011 off the Pacific Coast of Tohoku Earthquake. Journal of Disaster Research, 2018, 13, 496-502.	0.4	2
47	Extended GPS/Acoustic geodetic observation near the Japan trench axis for the study of the giant 2011 Tohoku-oki earthquake. , 2013, , .		1
48	Interplate Coupling in and Around the Rupture Area of the 2011 Tohoku Earthquake (M9.0) Before Its Occurrence Based on Terrestrial and Seafloor Geodetic Observations. International Association of Geodesy Symposia, 2015, , 11-19.	0.2	1
49	Stress inversion method and analysis of GPS array data. Comptes Rendus - Mecanique, 2008, 336, 132-148.	2.1	0
50	Rheological Structure Beneath NE Japan Inferred from Coseismic Strain Anomalies Associated with the 2011 Tohoku-oki Earthquake (Mw9.0). International Association of Geodesy Symposia, 2015, , 63-71.	0.2	0
51	Seafloor Geodetic Observations to Reveal Co- and Post-Seismic Slip Distributions of the 2011 Tohoku-Oki Earthquake. , 2018, , .		0
52	A Total Station Plan Combined with â€œD/V Chikyuâ€•and DONET:Simultaneous Observation from Seafloor to Atmosphere. , 2018, , .		0
53	Correction to: High-fidelity elastic Greenâ€™s functions for subduction zone models consistent with the global standard geodetic reference system. Earth, Planets and Space, 2021, 73, .	0.9	0