

Takeshi Iinuma

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,511
citations

257101

24
h-index

233125

45
g-index

60
all docs

60
docs citations

60
times ranked

1634
citing authors

#	ARTICLE	IF	CITATIONS
1	Along-arc heterogeneous rheology inferred from post-seismic deformation of the 2011 Tohoku-oki earthquake. <i>Geophysical Journal International</i> , 2022, 230, 202-215.	1.0	11
2	Characteristics of Slow Slip Event in March 2020 Revealed From Borehole and DONET Observatories. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	17
3	High-fidelity elastic Greenâ€™s functions for subduction zone models consistent with the global standard geodetic reference system. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	11
4	Investigating a tsunamigenic megathrust earthquake in the Japan Trench. <i>Science</i> , 2021, 371, .	6.0	9
5	GNSS-Acoustic Observations of Seafloor Crustal Deformation Using a Wave Glider. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	14
6	Correction to: High-fidelity elastic Greenâ€™s functions for subduction zone models consistent with the global standard geodetic reference system. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	0
7	Development of a Transâ€­Dimensional Fault Slip Inversion for Geodetic Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020991.	1.4	5
8	Precise Monitoring of Pore Pressure at Boreholes Around Nankai Trough Toward Early Detecting Crustal Deformation. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
9	Improvement on spatial resolution of a coseismic slip distribution using postseismic geodetic data through a viscoelastic inversion. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	17
10	Coupled afterslip and transient mantle flow after the 2011 Tohoku earthquake. <i>Science Advances</i> , 2019, 5, eaaw1164.	4.7	48
11	Rapid mantle flow with power-law creep explains deformation after the 2011 Tohoku mega-quake. <i>Nature Communications</i> , 2019, 10, 1385.	5.8	62
12	Monitoring of the spatio-temporal change in the interplate coupling at northeastern Japan subduction zone based on the spatial gradients of surface velocity field. <i>Geophysical Journal International</i> , 2018, 213, 30-47.	1.0	6
13	Learning from crustal deformation associated with the M9 2011 Tohoku-oki earthquake. , 2018, 14, 552-571.		58
14	Seafloor Geodetic Observations to Reveal Co- and Post-Seismic Slip Distributions of the 2011 Tohoku-Oki Earthquake. , 2018, , .		0
15	A Total Station Plan Combined with â€œD/V Chikyûâ€­and DONET:Simultaneous Observation from Seafloor to Atmosphere. , 2018, , .		0
16	Postseismic Uplift Along the Pacific Coast of Tohoku and Kanto Districts Associated with the 2011 off the Pacific Coast of Tohoku Earthquake. <i>Journal of Disaster Research</i> , 2018, 13, 496-502.	0.4	2
17	Coseismic slip model of offshore moderate interplate earthquakes on March 9, 2011 in Tohoku using tsunami waveforms. <i>Earth and Planetary Science Letters</i> , 2017, 458, 241-251.	1.8	12
18	Along-trench variation in seafloor displacements after the 2011 Tohoku earthquake. <i>Science Advances</i> , 2017, 3, e1700113.	4.7	74

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19	Heterogeneous rheology controlled postseismic deformation of the 2011 Tohoku-Oki earthquake. <i>Geophysical Research Letters</i> , 2016, 43, 4971-4978.	1.5	38
20	Extraction of crustal deformations and oceanic fluctuations from ocean bottom pressures. , 2016, , .		2
21	Development and examination of new algorithms of traveltime detection in GPS/acoustic geodetic data for precise and automated analysis. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	4
22	Seafloor observations indicate spatial separation of coseismic and postseismic slips in the 2011 Tohoku earthquake. <i>Nature Communications</i> , 2016, 7, 13506.	5.8	81
23	Periodic slow slip triggers megathrust zone earthquakes in northeastern Japan. <i>Science</i> , 2016, 351, 488-492.	6.0	122
24	First measurement of the displacement rate of the Pacific Plate near the Japan Trench after the 2011 Tohoku-Oki earthquake using GPS/acoustic technique. <i>Geophysical Research Letters</i> , 2015, 42, 8391-8397.	1.5	41
25	Complicated rupture process of the M_w 7.0 intraslab strike-slip earthquake in the Tohoku region on 10 July 2011 revealed by near-field pressure records. <i>Geophysical Research Letters</i> , 2015, 42, 9733-9739.	1.5	8
26	Rheological Structure Beneath NE Japan Inferred from Coseismic Strain Anomalies Associated with the 2011 Tohoku-oki Earthquake (Mw9.0). <i>International Association of Geodesy Symposia</i> , 2015, , 63-71.	0.2	0
27	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. <i>International Association of Geodesy Symposia</i> , 2015, , 11-19.	0.2	1
28	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. <i>International Association of Geodesy Symposia</i> , 2015, , 459-466.	0.2	3
29	Progress in the Project for Development of GPS/Acoustic Technique Over the Last 4 Years. <i>International Association of Geodesy Symposia</i> , 2015, , 3-10.	0.2	19
30	Changes in the stress field after the 2008 M_w 7.2 Iwate-Miyagi Nairiku earthquake in northeastern Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 9016-9030.	1.4	40
31	Was the 2011 Tohoku-Oki earthquake preceded by aseismic preslip? Examination of seafloor vertical deformation data near the epicenter. <i>Marine Geophysical Researches</i> , 2014, 35, 181-190.	0.5	67
32	Prevalence of viscoelastic relaxation after the 2011 Tohoku-oki earthquake. <i>Nature</i> , 2014, 514, 84-87.	13.7	223
33	tFISH/RAPiD: Rapid improvement of near-field tsunami forecasting based on offshore tsunami data by incorporating onshore GNSS data. <i>Geophysical Research Letters</i> , 2014, 41, 3390-3397.	1.5	48
34	Episodic slow slip events in the Japan subduction zone before the 2011 Tohoku-Oki earthquake. <i>Tectonophysics</i> , 2013, 600, 14-26.	0.9	303
35	Extended GPS/Acoustic geodetic observation near the Japan trench axis for the study of the giant 2011 Tohoku-oki earthquake. , 2013, , .		1
36	Two-dimensional viscosity structure of the northeastern Japan islands arc-trench system. <i>Geophysical Research Letters</i> , 2013, 40, 4604-4608.	1.5	26

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37	Geodetic evidence of viscoelastic relaxation after the 2008 Iwate-Miyagi Nairiku earthquake. <i>Earth, Planets and Space</i> , 2012, 64, 759-764.	0.9	25
38	Strain anomalies induced by the 2011 Tohoku Earthquake (M w 9.0) as observed by a dense GPS network in northeastern Japan. <i>Earth, Planets and Space</i> , 2012, 64, 1231-1238.	0.9	25
39	Quasi real-time fault model estimation for near-field tsunami forecasting based on RTK-GPS analysis: Application to the 2011 Tohoku-Oki earthquake (M 9.0). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	192
40	Coseismic slip distribution of the 2011 off the Pacific Coast of Tohoku Earthquake (M9.0) refined by means of seafloor geodetic data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	255
41	Stress before and after the 2011 great Tohoku-Oki earthquake and induced earthquakes in inland areas of eastern Japan. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	113
42	Geodetic constraints on afterslip characteristics following the March 9, 2011, Sanriku-Oki earthquake, Japan. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	68
43	Change in stress field after the 2011 great Tohoku-Oki earthquake. <i>Earth and Planetary Science Letters</i> , 2012, 355-356, 231-243.	1.8	136
44	Coseismic slip distribution of the 2011 off the Pacific coast of Tohoku Earthquake (M 9.0) estimated based on GPS data— Was the asperity in Miyagi-oki ruptured?. <i>Earth, Planets and Space</i> , 2011, 63, 643-648.	0.9	105
45	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. <i>Earth, Planets and Space</i> , 2011, 63, 1207-1211.	0.9	25
46	Aseismic slow slip on an inland active fault triggered by a nearby shallow event, the 2008 Iwate-Miyagi Nairiku earthquake (Mw6.8). <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	24
47	Stress inversion method and analysis of GPS array data. <i>Comptes Rendus - Mecanique</i> , 2008, 336, 132-148.	2.1	0
48	Coseismic fault model of the 2008 Iwate-Miyagi Nairiku earthquake deduced by a dense GPS network. <i>Earth, Planets and Space</i> , 2008, 60, 1197-1201.	0.9	62
49	Coseismic and postseismic deformation related to the 2007 Chuetsu-oki, Niigata Earthquake. <i>Earth, Planets and Space</i> , 2008, 60, 1081-1086.	0.9	18
50	Postseismic slip associated with the 2007 Chuetsu-oki, Niigata, Japan, Earthquake (M 6.8 on 16 July 2007) as inferred from GPS data. <i>Earth, Planets and Space</i> , 2008, 60, 1087-1091.	0.9	7
51	Co- and post-seismic slip associated with the 2005 Miyagi-oki earthquake (M7.2) as inferred from GPS data. <i>Earth, Planets and Space</i> , 2006, 58, 1567-1572.	0.9	47
52	Inversion of GPS velocity and seismicity data to yield changes in stress in the Japanese Islands. <i>Geophysical Journal International</i> , 2005, 160, 417-434.	1.0	6
53	Inter-plate coupling in the Nicoya Peninsula, Costa Rica, as deduced from a trans-peninsula GPS experiment. <i>Earth and Planetary Science Letters</i> , 2004, 223, 203-212.	1.8	27