Takuya Nishimura

List of Publications by Year
in descending order

85 papers	3,416 citations	218677 26 h-index	149698 56 g-index
95 all docs	95 docs citations	95 times ranked	2172 citing authors

#	Article	IF	Citations
1	Coseismic and postseismic slip of the 2011 magnitude-9 Tohoku-Oki earthquake. Nature, 2011, 475, 373-376.	27.8	650
2	Detection and Monitoring of Ongoing Aseismic Slip in the Tokai Region, Central Japan. Science, 2002, 298, 1009-1012.	12.6	286
3	Preceding, coseismic, and postseismic slips of the 2011 Tohoku earthquake, Japan. Journal of Geophysical Research, 2012, 117, .	3.3	233
4	Temporal change of interplate coupling in northeastern Japan during 1995-2002 estimated from continuous GPS observations. Geophysical Journal International, 2004, 157, 901-916.	2.4	158
5	The slow earthquake spectrum in the Japan Trench illuminated by the S-net seafloor observatories. Science, 2019, 365, 808-813.	12.6	127
6	Crustal deformation caused by magma migration in the northern Izu Islands, Japan. Geophysical Research Letters, 2001, 28, 3745-3748.	4.0	109
7	2.5-D surface deformation of M6.1 earthquake near Mt Iwate detected by SAR interferometry. Geophysical Research Letters, 2000, 27, 2049-2052.	4.0	106
8	Distribution of seismic coupling on the subducting plate boundary in northeastern Japan inferred from GPS observations. Tectonophysics, 2000, 323, 217-238.	2.2	96
9	Rheology of the lithosphere inferred from postseismic uplift following the 1959 Hebgen Lake earthquake. Journal of Geophysical Research, 2003, 108, .	3.3	89
10	Detection of shortâ€term slow slip events along the Nankai Trough, southwest Japan, using GNSS data. Journal of Geophysical Research: Solid Earth, 2013, 118, 3112-3125.	3.4	88
11	Interplate fault slip along the Japan Trench before the occurrence of the 2011 off the Pacific coast of Tohoku Earthquake as inferred from GPS data. Earth, Planets and Space, 2011, 63, 615-619.	2.5	70
12	Short-term slow slip events along the Ryukyu Trench, southwestern Japan, observed by continuous GNSS. Progress in Earth and Planetary Science, 2014, 1, .	3.0	67
13	Co-seismic slip, post-seismic slip, and largest aftershock associated with the 1994 Sanriku-haruka-oki, Japan, earthquake. Geophysical Research Letters, 2003, 30, .	4.0	66
14	The 2011 off the Pacific coast of Tohoku Earthquake and its aftershocks observed by GEONET. Earth, Planets and Space, 2011, 63, 631-363.	2.5	66
15	Strain partitioning and interplate coupling along the northern margin of the Philippine Sea plate, estimated from Global Navigation Satellite System and Global Positioning System-Acoustic data. , 2018, 14, 535-551.		65
16	Development of a Slow Earthquake Database. Seismological Research Letters, 2018, 89, 1566-1575.	1.9	58
17	REGARD: A new GNSSâ€based realâ€time finite fault modeling system for GEONET. Journal of Geophysical Research: Solid Earth, 2017, 122, 1324-1349.	3.4	56
18	Crustal block kinematics and seismic potential of the northernmost Philippine Sea plate and Izu microplate, central Japan, inferred from GPS and leveling data. Journal of Geophysical Research, 2007, 112, .	3.3	53

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19	The M6.1 earthquake triggered by volcanic inflation of Iwate Volcano, northern Japan, observed by satellite radar interferometry. Geophysical Research Letters, 2001, 28, 635-638.	4.0	42
20	Estimation of coseismic deformation and a fault model of the 2010 Yushu earthquake using PALSAR interferometry data. Earth and Planetary Science Letters, 2011, 307, 430-438.	4.4	42
21	Satellite data gives snapshot of the 2005 Pakistan earthquake. Eos, 2006, 87, 73.	0.1	40
22	First result from the GEONET real-time analysis system (REGARD): the case of the 2016 Kumamoto earthquakes. Earth, Planets and Space, 2016, 68, .	2.5	39
23	Crustal deformation around the northern and central Itoigawa-Shizuoka Tectonic Line. Earth, Planets and Space, 2002, 54, 1059-1063.	2.5	37
24	Pre-, Co-, and Post-Seismic Deformation of the 2011 Tohoku-Oki Earthquake and its Implication to a Paradox in Short-Term and Long-Term Deformation. Journal of Disaster Research, 2014, 9, 294-302.	0.7	33
25	The 2003 M8.0 Tokachi-Oki earthquake - How much has the great event paid back slip debts?. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	32
26	Crustal deformation map for the 2011 off the Pacific coast of Tohoku Earthquake, detected by InSAR analysis combined with GEONET data. Earth, Planets and Space, 2011, 63, 621-625.	2.5	32
27	Creep, dike intrusion, and magma chamber deflation model for the 2000 Miyake eruption and the Izu islands earthquakes. Journal of Geophysical Research, 2004, 109, .	3.3	31
28	Back-arc spreading of the northern Izuâ€“Ogasawara (Bonin) Islands arc clarified by GPS data. Tectonophysics, 2011, 512, 60-67.	2.2	27
29	Episodic growth of faultâ€related fold in northern Japan observed by SAR interferometry. Geophysical Research Letters, 2008, 35, .	4.0	26
30	San-in shear zone in southwest Japan, revealed by GNSS observations. Earth, Planets and Space, 2017, 69, .	2.5	26
31	Crustal deformation associated with the Noto Hanto Earthquake in 2007 in Japan. Earth, Planets and Space, 2008, 60, 95-98.	2.5	24
32	The 1923 Kanto earthquake reevaluated using a newly augmented geodetic data set. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	22
33	Short-term interaction between silent and devastating earthquakes in Mexico. Nature Communications, 2021, 12, 2171.	12.8	22
34	Heterogeneous crustal deformation along the central-northern Itoigawa-Shizuoka Tectonic Line Fault system, Central Japan. Earth, Planets and Space, 2004, 56, 1247-1252.	2.5	21
35	Fault model of the 2005 Fukuoka-ken Seiho-oki earthquake estimated from coseismic deformation observed by GPS and InSAR. Earth, Planets and Space, 2006, 58, 51-56.	2.5	21
36	Crustal deformation and a preliminary fault model of the 2007 Chuetsu-oki earthquake observed by GPS, InSAR, and leveling. Earth, Planets and Space, 2008, 60, 1093-1098.	2.5	21

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37	Global Positioning System (GPS) and GPS-Acoustic Observations: Insight into Slip Along the Subduction Zones Around Japan. Annual Review of Earth and Planetary Sciences, 2014, 42, 653-674.	11.0	19
38	Interplate Slip Following the 2003 Tokachiâ€oki Earthquake From Ocean Bottom Pressure Gauge and Land GNSS Data. Journal of Geophysical Research: Solid Earth, 2019, 124, 4205-4230.	3.4	19
39	Coseismic slip distribution of the 1923 Kanto earthquake, Japan. Journal of Geophysical Research, 2005, 110, .	3.3	18
40	Fault model of the 2007 Noto Hanto earthquake estimated from coseismic deformation obtained by the distribution of littoral organisms and GPS: Implication for neotectonics in the northwestern Noto Peninsula. Earth, Planets and Space, 2008, 60, 903-913.	2.5	18
41	Volcanic deformation of Atosanupuri volcanic complex in the Kussharo caldera, Japan, from 1993 to 2016 revealed by JERS-1, ALOS, and ALOS-2 radar interferometry. Earth, Planets and Space, 2017, 69, .	2.5	18
42	A Seismogeodetic Amphibious Network in the Guerrero Seismic Gap, Mexico. Seismological Research Letters, 2018, 89, 1435-1449.	1.9	18
43	Inelastic strain rate in the seismogenic layer of Kyushu Island, Japan. Earth, Planets and Space, 2016, 68, .	2.5	16
44	Development of a detection method for short-term slow slip events using GNSS data and its application to the Nankai subduction zone. Earth, Planets and Space, 2022, 74, .	2.5	16
45	Crustal Movements Associated with the 2000 Western Tottori Earthquake and its Fault Models. Zisin (Journal of the Seismological Society of Japan 2nd Ser), 2002, 54, 523-534.	0.2	15
46	Inference of postseismic deformation mechanisms of the 1923 Kanto earthquake. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	15
47	Crustal deformation of northeastern Japan based on geodetic data for recent 120 years. Journal of the Geological Society of Japan, 2012, 118, 278-293.	0.6	14
48	Slip distribution of the 1973 Nemuro-oki earthquake estimated from the re-examined geodetic data. Earth, Planets and Space, 2009, 61, 1203-1214.	2.5	12
49	Special issue â€œ2016 Kumamoto earthquake sequence and its impact on earthquake science and hazard assessmentâ€• Earth, Planets and Space, 2017, 69, .	2.5	12
50	Interseismic crustal deformation in and around the Atotsugawa fault system, central Japan, detected by InSAR and GNSS. Earth, Planets and Space, 2018, 70, .	2.5	12
51	Consistent estimation of strain-rate fields from GNSS velocity data using basis function expansion with ABIC. Earth, Planets and Space, 2021, 73, .	2.5	12
52	A preliminary fault model of the 2003 July 26, M6.4 northern Miyagi earthquake, northeastern Japan, estimated from joint inversion of GPS, leveling, and InSAR data. Earth, Planets and Space, 2003, 55, 751-757.	2.5	11
53	Spatiotemporal Evolution of Longâ€and Shortâ€Term Slow Slip Events in the Tokai Region, Central Japan, Estimated From a Very Dense GNSS Network During 2013â€“2016. Journal of Geophysical Research: Solid Earth, 2019, 124, 13207-13226.	3.4	11
54	Possibility of recovery of slip deficit rate between the North American plate and the Pacific plate off Sanriku, northeast Japan. Geophysical Research Letters, 2007, 34, .	4.0	10

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55	Mechanism of subsidence of the Northeast Japan forearc during the late period of a gigantic earthquake cycle. Scientific Reports, 2019, 9, 5726.	3.3	10
56	Earthquake Swarm Detection Along the Hikurangi Trench, New Zealand: Insights Into the Relationship Between Seismicity and Slow Slip Events. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020618.	3.4	10
57	Development and Assessment of Real-Time Fault Model Estimation Routines in the GEONET Real-Time Processing System. International Association of Geodesy Symposia, 2015, , 89-96.	0.4	9
58	Compliant Volcanic Arc and Backarc Crust in Southern Kurile Suggested by Interseismic Geodetic Deformation. Geophysical Research Letters, 2019, 46, 11790-11798.	4.0	9
59	Detection of small crustal deformation caused by slow slip events in southwest Japan using GNSS and tremor data. Earth, Planets and Space, 2019, 71, .	2.5	9
60	Fault source investigation of the 6 December 2016 MwMw 6.5 Pidie Jaya, Indonesia, earthquake based on GPS and its implications of the geological survey result. Journal of Applied Geodesy, 2020, 14, 405-412.	1.1	9
61	Earthquake Triggering due to Volcanic Deformation Sources in Areas East off Ito and around the Mt. Iwate Volcano. Journal of Geography (Chigaku Zasshi), 2002, 111, 166-174.	0.3	8
62	A comprehensive model of the deformation process in the Nagamachi-Rifu Fault Zone. Earth, Planets and Space, 2004, 56, 1339-1345.	2.5	8
63	Ground uplift related to permeability enhancement following the 2011 Tohoku earthquake in the Kanto Plain, Japan. Earth, Planets and Space, 2017, 69, .	2.5	8
64	Coseismic and Postseismic Deformation of the 2016 Central Tottori Earthquake and its Slip Model. Journal of Geophysical Research: Solid Earth, 2019, 124, 2202-2217.	3.4	8
65	Slow Slip Events in the Kanto and Tokai Regions of Central Japan Detected Using Global Navigation Satellite System Data During 1994â€“2020. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009329.	2.5	8
66	New Megathrust Locking Model for the Southern Kurile Subduction Zone Incorporating Viscoelastic Relaxation and Nonâ€Uniform Compliance of Upper Plate. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB019981.	3.4	8
67	Co -and post- seismic Deformation and Fault Model of the 2011 off the Pacific Coast of Tohoku Earthquake. Zisin (Journal of the Seismological Society of Japan 2nd Ser), 2012, 65, 95-121.	0.2	8
68	Characteristics of postseismic deformation following the 2003 Tokachi-oki earthquake and estimation of the viscoelastic structure in Hokkaido, northern Japan. Earth, Planets and Space, 2016, 68, .	2.5	7
69	Coulomb stress change on inland faults during megathrust earthquake cycle in southwest Japan. Earth, Planets and Space, 2020, 72, .	2.5	7
70	Inelastic deformation zone in the lower crust for the San-in Shear Zone, Southwest Japan, as observed by a dense GNSS network. Earth, Planets and Space, 2020, 72, .	2.5	5
71	The Quaternary Tectonics of Central Kyushu and the 2016 Kumamoto Earthquake: From a Multifaceted Viewpoint Combining Geology, Seismology, and Geodesy. Journal of Geography (Chigaku Zasshi), 2020, 129, 565-589.	0.3	5
72	Crustal deformation associated with the northern Miyagi earthquake detected by RADARSAT-1 and ENVISAT SAR interferometry. Earth, Planets and Space, 2004, 56, 103-107.	2.5	4

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73	Correction to â€œRheology of the lithosphere inferred from postseismic uplift following the 1959 Hebgen Lake earthquakeâ€. Journal of Geophysical Research, 2004, 109, .	3.3	3
74	Crustal Deformation Around the Nagamachi-Rifu Fault Zone and its Vicinity (Central Tohoku), Northeastern Japan, Observed by a Continuous GPS Network. Zisin (Journal of the Seismological) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	0.2	3
75	Real-Time GNSS Analysis System REGARD: An Overview and Recent Results. Journal of Disaster Research, 2018, 13, 440-452.	0.7	3
76	Time-independent forecast model for large crustal earthquakes in southwest Japan using GNSS data. Earth, Planets and Space, 2022, 74, .	2.5	3
77	Excess strain in the Echigo Plain sedimentary basin, NE Japan: evidence from coseismic deformation of the 2011 Tohoku-oki earthquake. Geophysical Journal International, 2016, 205, 1613-1617.	2.4	2
78	Crustal Deformation in and around the Echigo Plain Clarified by Geodetic Observation across the Niigata-Kobe Tectonic Zone. Zisin (Journal of the Seismological Society of Japan 2nd Ser), 2012, 64, 211-222.	0.2	2
79	A Trial Application of Geodetic Data for Inland Fault Assessment â€“ Coulomb Stress Changes Estimated from GNSS Surface Displacements. Journal of Disaster Research, 2018, 13, 489-495.	0.7	2
80	Adjoint slip inversion under a constrained optimization framework: revisiting the 2006 Guerrero slow slip event. Geophysical Journal International, 2021, 226, 1187-1205.	2.4	1
81	Recent Observation for Crustal Deformation on Land. Zisin (Journal of the Seismological Society of) Tj ETQq1 1 0.784314 rgBT /Overlo	0.2	1
82	Potential of megathrust earthquakes along the southern Ryukyu Trench inferred from GNSS data. Earth, Planets and Space, 2021, 73, .	2.5	1
83	Special issue "Crustal dynamics: toward integrated view of island arc seismogenesis". Earth, Planets and Space, 2021, 73, .	2.5	0
84	Crustal deformation monitoring of volcanoes in Japan using L-band SAR interferometry. International Association of Geodesy Symposia, 2000, , 285-288.	0.4	0
85	Main Results from the Program Promotion Panel for Subduction-Zone Earthquakes. Journal of Disaster Research, 2020, 15, 87-95.	0.7	0