

Takuya Nishimura

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

3,416
citations

218677

26
h-index

149698

56
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all docs

95
docs citations

95
times ranked

2172
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a detection method for short-term slow slip events using GNSS data and its application to the Nankai subduction zone. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	16
2	Time-independent forecast model for large crustal earthquakes in southwest Japan using GNSS data. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	3
3	Special issue "Crustal dynamics: toward integrated view of island arc seismogenesis". <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	0
4	Slow Slip Events in the Kanto and Tokai Regions of Central Japan Detected Using Global Navigation Satellite System Data During 1994â€“2020. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009329.	2.5	8
5	Earthquake Swarm Detection Along the Hikurangi Trench, New Zealand: Insights Into the Relationship Between Seismicity and Slow Slip Events. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020618.	3.4	10
6	Short-term interaction between silent and devastating earthquakes in Mexico. <i>Nature Communications</i> , 2021, 12, 2171.	12.8	22
7	Adjoint slip inversion under a constrained optimization framework: revisiting the 2006 Guerrero slow slip event. <i>Geophysical Journal International</i> , 2021, 226, 1187-1205.	2.4	1
8	New Megathrust Locking Model for the Southern Kurile Subduction Zone Incorporating Viscoelastic Relaxation and Nonâ€“Uniform Compliance of Upper Plate. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB019981.	3.4	8
9	Consistent estimation of strain-rate fields from GNSS velocity data using basis function expansion with ABIC. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	12
10	Potential of megathrust earthquakes along the southern Ryukyu Trench inferred from GNSS data. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	1
11	Coulomb stress change on inland faults during megathrust earthquake cycle in southwest Japan. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	7
12	Inelastic deformation zone in the lower crust for the San-in Shear Zone, Southwest Japan, as observed by a dense GNSS network. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	5
13	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. <i>Journal of Applied Geodesy</i> , 2020, 14, 405-412.	1.1	9
14	The Quaternary Tectonics of Central Kyushu and the 2016 Kumamoto Earthquake: From a Multifaceted Viewpoint Combining Geology, Seismology, and Geodesy. <i>Journal of Geography (Chigaku Zasshi)</i> , 2020, 129, 565-589.	0.3	5
15	Main Results from the Program Promotion Panel for Subduction-Zone Earthquakes. <i>Journal of Disaster Research</i> , 2020, 15, 87-95.	0.7	0
16	The slow earthquake spectrum in the Japan Trench illuminated by the S-net seafloor observatories. <i>Science</i> , 2019, 365, 808-813.	12.6	127
17	Compliant Volcanic Arc and Backarc Crust in Southern Kurile Suggested by Interseismic Geodetic Deformation. <i>Geophysical Research Letters</i> , 2019, 46, 11790-11798.	4.0	9
18	Mechanism of subsidence of the Northeast Japan forearc during the late period of a gigantic earthquake cycle. <i>Scientific Reports</i> , 2019, 9, 5726.	3.3	10

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19	Coseismic and Postseismic Deformation of the 2016 Central Tottori Earthquake and its Slip Model. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2202-2217.	3.4	8
20	Interplate Slip Following the 2003 Tokachi-oki Earthquake From Ocean Bottom Pressure Gauge and Land GNSS Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4205-4230.	3.4	19
21	Detection of small crustal deformation caused by slow slip events in southwest Japan using GNSS and tremor data. <i>Earth, Planets and Space</i> , 2019, 71, .	2.5	9
22	Spatiotemporal Evolution of Long- and Short-Term Slow Slip Events in the Tokai Region, Central Japan, Estimated From a Very Dense GNSS Network During 2013-2016. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 13207-13226.	3.4	11
23	Interseismic crustal deformation in and around the Atotsugawa fault system, central Japan, detected by InSAR and GNSS. <i>Earth, Planets and Space</i> , 2018, 70, .	2.5	12
24	A Seismogeodetic Amphibious Network in the Guerrero Seismic Gap, Mexico. <i>Seismological Research Letters</i> , 2018, 89, 1435-1449.	1.9	18
25	Development of a Slow Earthquake Database. <i>Seismological Research Letters</i> , 2018, 89, 1566-1575.	1.9	58
26	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
27	A Trial Application of Geodetic Data for Inland Fault Assessment - Coulomb Stress Changes Estimated from GNSS Surface Displacements. <i>Journal of Disaster Research</i> , 2018, 13, 489-495.	0.7	2
28	Real-Time GNSS Analysis System REGARD: An Overview and Recent Results. <i>Journal of Disaster Research</i> , 2018, 13, 440-452.	0.7	3
29	REGARD: A new GNSS-based real-time finite fault modeling system for GEONET. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1324-1349.	3.4	56
30	San-in shear zone in southwest Japan, revealed by GNSS observations. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	26
31	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. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	18
32	Ground uplift related to permeability enhancement following the 2011 Tohoku earthquake in the Kanto Plain, Japan. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	8
33	Special issue - 2016 Kumamoto earthquake sequence and its impact on earthquake science and hazard assessment - <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	12
34	Excess strain in the Echigo Plain sedimentary basin, NE Japan: evidence from coseismic deformation of the 2011 Tohoku-oki earthquake. <i>Geophysical Journal International</i> , 2016, 205, 1613-1617.	2.4	2
35	Characteristics of postseismic deformation following the 2003 Tokachi-oki earthquake and estimation of the viscoelastic structure in Hokkaido, northern Japan. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	7
36	Inelastic strain rate in the seismogenic layer of Kyushu Island, Japan. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	16

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37	First result from the GEONET real-time analysis system (REGARD): the case of the 2016 Kumamoto earthquakes. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	39
38	Development and Assessment of Real-Time Fault Model Estimation Routines in the GEONET Real-Time Processing System. <i>International Association of Geodesy Symposia</i> , 2015, , 89-96.	0.4	9
39	Short-term slow slip events along the Ryukyu Trench, southwestern Japan, observed by continuous GNSS. <i>Progress in Earth and Planetary Science</i> , 2014, 1, .	3.0	67
40	Global Positioning System (GPS) and GPS-Acoustic Observations: Insight into Slip Along the Subduction Zones Around Japan. <i>Annual Review of Earth and Planetary Sciences</i> , 2014, 42, 653-674.	11.0	19
41	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. <i>Journal of Disaster Research</i> , 2014, 9, 294-302.	0.7	33
42	Detection of short-term slow slip events along the Nankai Trough, southwest Japan, using GNSS data. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3112-3125.	3.4	88
43	Crustal deformation of northeastern Japan based on geodetic data for recent 120 years. <i>Journal of the Geological Society of Japan</i> , 2012, 118, 278-293.	0.6	14
44	Preceding, coseismic, and postseismic slips of the 2011 Tohoku earthquake, Japan. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	233
45	Crustal Deformation in and around the Echigo Plain Clarified by Geodetic Observation across the Niigata-Kobe Tectonic Zone. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , 2012, 64, 211-222.	0.2	2
46	Co -and post- seismic Deformation and Fault Model of the 2011 off the Pacific Coast of Tohoku Earthquake. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , 2012, 65, 95-121.	0.2	8
47	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. <i>Earth, Planets and Space</i> , 2011, 63, 615-619.	2.5	70
48	Coseismic and postseismic slip of the 2011 magnitude-9 Tohoku-Oki earthquake. <i>Nature</i> , 2011, 475, 373-376.	27.8	650
49	Estimation of coseismic deformation and a fault model of the 2010 Yushu earthquake using PALSAR interferometry data. <i>Earth and Planetary Science Letters</i> , 2011, 307, 430-438.	4.4	42
50	Back-arc spreading of the northern Izu-Ogasawara (Bonin) Islands arc clarified by GPS data. <i>Tectonophysics</i> , 2011, 512, 60-67.	2.2	27
51	The 2011 off the Pacific coast of Tohoku Earthquake and its aftershocks observed by GEONET. <i>Earth, Planets and Space</i> , 2011, 63, 631-663.	2.5	66
52	Crustal deformation map for the 2011 off the Pacific coast of Tohoku Earthquake, detected by InSAR analysis combined with GEONET data. <i>Earth, Planets and Space</i> , 2011, 63, 621-625.	2.5	32
53	Slip distribution of the 1973 Nemuro-oki earthquake estimated from the re-examined geodetic data. <i>Earth, Planets and Space</i> , 2009, 61, 1203-1214.	2.5	12
54	Recent Observation for Crustal Deformation on Land. <i>Zisin (Journal of the Seismological Society of Japan)</i> , 2011, 63, 101-102.	0.2	1

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55	Episodic growth of fault-related fold in northern Japan observed by SAR interferometry. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	26
56	Crustal deformation associated with the Noto Hanto Earthquake in 2007 in Japan. <i>Earth, Planets and Space</i> , 2008, 60, 95-98.	2.5	24
57	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. <i>Earth, Planets and Space</i> , 2008, 60, 903-913.	2.5	18
58	Crustal deformation and a preliminary fault model of the 2007 Chuetsu-oki earthquake observed by GPS, InSAR, and leveling. <i>Earth, Planets and Space</i> , 2008, 60, 1093-1098.	2.5	21
59	Crustal block kinematics and seismic potential of the northernmost Philippine Sea plate and Izu microplate, central Japan, inferred from GPS and leveling data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	53
60	Possibility of recovery of slip deficit rate between the North American plate and the Pacific plate off Sanriku, northeast Japan. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	10
61	The 1923 Kanto earthquake reevaluated using a newly augmented geodetic data set. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	22
62	Inference of postseismic deformation mechanisms of the 1923 Kanto earthquake. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	15
63	Satellite data gives snapshot of the 2005 Pakistan earthquake. <i>Eos</i> , 2006, 87, 73.	0.1	40
64	Fault model of the 2005 Fukuoka-ken Seiho-oki earthquake estimated from coseismic deformation observed by GPS and InSAR. <i>Earth, Planets and Space</i> , 2006, 58, 51-56.	2.5	21
65	Coseismic slip distribution of the 1923 Kanto earthquake, Japan. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	18
66	Temporal change of interplate coupling in northeastern Japan during 1995-2002 estimated from continuous GPS observations. <i>Geophysical Journal International</i> , 2004, 157, 901-916.	2.4	158
67	Crustal deformation associated with the northern Miyagi earthquake detected by RADARSAT-1 and ENVISAT SAR interferometry. <i>Earth, Planets and Space</i> , 2004, 56, 103-107.	2.5	4
68	Heterogeneous crustal deformation along the central-northern Itoigawa-Shizuoka Tectonic Line Fault system, Central Japan. <i>Earth, Planets and Space</i> , 2004, 56, 1247-1252.	2.5	21
69	A comprehensive model of the deformation process in the Nagamachi-Rifu Fault Zone. <i>Earth, Planets and Space</i> , 2004, 56, 1339-1345.	2.5	8
70	The 2003 M8.0 Tokachi-Oki earthquake - How much has the great event paid back slip debts?. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	32
71	Creep, dike intrusion, and magma chamber deflation model for the 2000 Miyake eruption and the Izu islands earthquakes. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	31
72	Correction to "Rheology of the lithosphere inferred from postseismic uplift following the 1959 Hebgen Lake earthquake", <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	3

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73	Crustal Deformation Around the Nagamachi-Rifu Fault Zone and its Vicinity (Central Tohoku), Northeastern Japan, Observed by a Continuous GPS Network. <i>Zisin (Journal of the Seismological Society of Japan)</i> 2003, 25, 107-114. doi:10.1498/zisin.25.107	0.784	14
74	Rheology of the lithosphere inferred from postseismic uplift following the 1959 Hebgen Lake earthquake. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	89
75	Co-seismic slip, post-seismic slip, and largest aftershock associated with the 1994 Sanriku-haruka-oki, Japan, earthquake. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	66
76	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. <i>Earth, Planets and Space</i> , 2003, 55, 751-757.	2.5	11
77	Detection and Monitoring of Ongoing Aseismic Slip in the Tokai Region, Central Japan. <i>Science</i> , 2002, 298, 1009-1012.	12.6	286
78	Earthquake Triggering due to Volcanic Deformation Sources in Areas East off Ito and around the Mt. Iwate Volcano. <i>Journal of Geography (Chigaku Zasshi)</i> , 2002, 111, 166-174.	0.3	8
79	Crustal Movements Associated with the 2000 Western Tottori Earthquake and its Fault Models. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , 2002, 54, 523-534.	0.2	15
80	Crustal deformation around the northern and central Itoigawa-Shizuoka Tectonic Line. <i>Earth, Planets and Space</i> , 2002, 54, 1059-1063.	2.5	37
81	The M6.1 earthquake triggered by volcanic inflation of Iwate Volcano, northern Japan, observed by satellite radar interferometry. <i>Geophysical Research Letters</i> , 2001, 28, 635-638.	4.0	42
82	Crustal deformation caused by magma migration in the northern Izu Islands, Japan. <i>Geophysical Research Letters</i> , 2001, 28, 3745-3748.	4.0	109
83	Distribution of seismic coupling on the subducting plate boundary in northeastern Japan inferred from GPS observations. <i>Tectonophysics</i> , 2000, 323, 217-238.	2.2	96
84	2.5-D surface deformation of M6.1 earthquake near Mt Iwate detected by SAR interferometry. <i>Geophysical Research Letters</i> , 2000, 27, 2049-2052.	4.0	106
85	Crustal deformation monitoring of volcanoes in Japan using L-band SAR interferometry. <i>International Association of Geodesy Symposia</i> , 2000, , 285-288.	0.4	0