

Shin'ichi Miyazaki

List of Publications by Year in descending order

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66
papers

5,529
citations

136885

32
h-index

110317

64
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66
all docs

66
docs citations

66
times ranked

3114
citing authors

#	ARTICLE	IF	CITATIONS
1	Anatomy of apparent seasonal variations from GPS-derived site position time series. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 9-1-ETG 9-16.	3.3	522
2	Silent fault slip following an interplate thrust earthquake at the Japan Trench. <i>Nature</i> , 1997, 386, 595-598.	13.7	411
3	A slow thrust slip event following the two 1996 Hyuganada Earthquakes beneath the Bungo Channel, southwest Japan. <i>Geophysical Research Letters</i> , 1999, 26, 3237-3240.	1.5	377
4	Crustal velocity field of southwest Japan: Subduction and arc-arc collision. <i>Journal of Geophysical Research</i> , 2001, 106, 4305-4326.	3.3	337
5	High resolution mapping of TEC perturbations with the GSI GPS Network over Japan. <i>Geophysical Research Letters</i> , 1998, 25, 3079-3082.	1.5	257
6	A new technique for mapping of total electron content using GPS network in Japan. <i>Earth, Planets and Space</i> , 2002, 54, 63-70.	0.9	245
7	A unified source model for the 2011 Tohoku earthquake. <i>Earth and Planetary Science Letters</i> , 2011, 310, 480-487.	1.8	232
8	Space time distribution of afterslip following the 2003 Tokachi-oki earthquake: Implications for variations in fault zone frictional properties. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	196
9	Full interseismic locking of the Nankai and Japan-west Kurile subduction zones: An analysis of uniform elastic strain accumulation in Japan constrained by permanent GPS. <i>Journal of Geophysical Research</i> , 2000, 105, 13159-13177.	3.3	175
10	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.	1.0	158
11	The Amurian Plate motion and current plate kinematics in eastern Asia. <i>Journal of Geophysical Research</i> , 1999, 104, 29147-29155.	3.3	156
12	Plate convergence and long-term crustal deformation in central Japan. <i>Geophysical Research Letters</i> , 2001, 28, 2313-2316.	1.5	142
13	Space-time correlation of slip and tremor during the 2009 Cascadia slow slip event. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	137
14	Characteristic silent earthquakes in the eastern part of the Boso peninsula, Central Japan. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	126
15	Traveling ionospheric disturbances detected in the FRONT Campaign. <i>Geophysical Research Letters</i> , 2001, 28, 689-692.	1.5	119
16	Spatial and temporal evolution of stress and slip rate during the 2000 Tokai slow earthquake. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	119
17	Modeling the rupture process of the 2003 September 25 Tokachi-Oki (Hokkaido) earthquake using 1-Hz GPS data. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	109
18	Continuous GPS Array and Present-day Crustal Deformation of Japan. , 2000, , 2303-2322.		108

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19	Afterslip and viscoelastic relaxation following the 2011 Tohoku-oki earthquake ($M_w < 9.0$) inferred from inland GPS and seafloor GPS/Acoustic data. <i>Geophysical Research Letters</i> , 2015, 42, 66-73.	1.5	97
20	Distribution of seismic coupling on the subducting plate boundary in northeastern Japan inferred from GPS observations. <i>Tectonophysics</i> , 2000, 323, 217-238.	0.9	96
21	Joint inversion of strong motion and geodetic data for the source process of the 2003 Tokachi-oki, Hokkaido, earthquake. <i>Earth, Planets and Space</i> , 2004, 56, 329-334.	0.9	92
22	Crustal strains in the Japanese Islands as deduced from dense GPS array. <i>Geophysical Research Letters</i> , 1998, 25, 3445-3448.	1.5	89
23	Interplate coupling in northeast Japan deduced from inversion analysis of GPS data. <i>Earth and Planetary Science Letters</i> , 2000, 176, 117-130.	1.8	80
24	Observations of traveling ionospheric disturbances and 3-m scale irregularities in the nighttime F-region ionosphere with the MU radar and a GPS network. <i>Earth, Planets and Space</i> , 2002, 54, 31-44.	0.9	75
25	Seismic and aseismic fault slip before and during the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 637-642.	0.9	72
26	A transient subduction zone slip episode in southwest Japan observed by the nationwide GPS array. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	66
27	The 2006 aseismic slow slip event in Guerrero, Mexico: New results from GPS. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	66
28	Interplate coupling in southwest Japan deduced from inversion analysis of GPS data. <i>Physics of the Earth and Planetary Interiors</i> , 1999, 115, 17-34.	0.7	64
29	Imaging observations of the equatorward limit of midlatitude traveling ionospheric disturbances. <i>Earth, Planets and Space</i> , 2002, 54, 57-62.	0.9	55
30	A possible mechanism of M 9 earthquake generation cycles in the area of repeating M 7–8 earthquakes surrounded by aseismic sliding. <i>Earth, Planets and Space</i> , 2011, 63, 773-777.	0.9	52
31	Coseismic and early postseismic slip for the 2003 Tokachi-oki earthquake sequence inferred from GPS data. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	50
32	Fault friction parameters inferred from the early stages of afterslip following the 2003 Tokachi-oki earthquake. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	42
33	Ability of 1-Hz GPS data to infer the source process of a medium-sized earthquake: The case of the 2008 Iwate-Miyagi Nairiku, Japan, earthquake. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	37
34	GPS time series modeling by autoregressive moving average method: Application to the crustal deformation in central Japan. <i>Earth, Planets and Space</i> , 2000, 52, 155-162.	0.9	33
35	Interplate coupling along the Nankai Trough off southwest Japan derived from GPS measurements. <i>Geophysical Research Letters</i> , 1999, 26, 927-930.	1.5	31
36	Subsurface structure and faulting of the Median Tectonic Line, southwest Japan inferred from GPS velocity field. <i>Earth, Planets and Space</i> , 2002, 54, 1065-1070.	0.9	30

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37	An impact of estimating tropospheric delay gradients on precise positioning in the summer using the Japanese nationwide GPS array. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	30
38	GPS meteorology project of Japan "Exploring frontiers of geodesy". <i>Earth, Planets and Space</i> , 1998, 50, i-v.	0.9	28
39	A new approach to time-dependent inversion of geodetic data using a Monte Carlo mixture Kalman filter. <i>Geophysical Journal International</i> , 2004, 159, 17-39.	1.0	28
40	Source processes of the 2005 West Off Fukuoka Prefecture earthquake and its largest aftershock inferred from strong motion and 1-Hz GPS data. <i>Earth, Planets and Space</i> , 2006, 58, 57-62.	0.9	28
41	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
42	An impact of estimating tropospheric delay gradients on tropospheric delay estimations in the summer using the Japanese nationwide GPS array. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	26
43	Hierarchical asperity model for multiscale characteristic earthquakes: A numerical study for the off-Kamaishi earthquake sequence in the NE Japan subduction zone. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	26
44	Periodicity of strain accumulation detected by permanent GPS Array: Possible relationship to seasonality of major earthquakes' occurrence. <i>Geophysical Research Letters</i> , 2001, 28, 2983-2986.	1.5	25
45	Resolving static offsets from high-rate GPS data: the 2003 Tokachi-oki earthquake. <i>Earth, Planets and Space</i> , 2008, 60, 801-808.	0.9	23
46	Real data assimilation for optimization of frictional parameters and prediction of afterslip in the 2003 Tokachi-oki earthquake inferred from slip velocity by an adjoint method. <i>Geophysical Journal International</i> , 2015, 203, 646-663.	1.0	23
47	Geodetic inversion for space-time distribution of fault slip with time-varying smoothing regularization. <i>Geophysical Journal International</i> , 2008, 173, 25-48.	1.0	21
48	Spatiotemporal Evolution of Recurrent Slow Slip Events Along the Southern Ryukyu Subduction Zone, Japan, From 2010 to 2013. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7090-7107.	1.4	21
49	Present-day deformation across the southwest Japan arc: Oblique subduction of the Philippine Sea plate and lateral slip of the Nankai forearc. <i>Earth, Planets and Space</i> , 2003, 55, 643-647.	0.9	20
50	Imaging observations of midlatitude ionospheric disturbances during the geomagnetic storm of February 12, 2000. <i>Journal of Geophysical Research</i> , 2001, 106, 24481-24492.	3.3	18
51	A Model of Earthquake-Generation Cycle with Scale-Dependent Frictional Property - Preliminary Results and Research Plan for a Project of Evaluation for Coming Tokai, Tonankai, and Nankai Earthquakes. <i>Journal of Disaster Research</i> , 2009, 4, 111-117.	0.4	15
52	Real-time Coseismic Slip Estimation via the GNSS Carrier Phase to Fault Slip Approach: A Case Study of the 2016 Kumamoto Earthquake. <i>Geophysical Research Letters</i> , 2019, 46, 1367-1374.	1.5	12
53	Inter-plate Coupling Along the Nankai Trough and Southeastward Motion Along Southern Part of Kyushu. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , 1999, 51, 443-456.	0.0	11
54	Comprehensive imaging observations of midlatitude ionospheric disturbances during storm time substorms. <i>Journal of Geophysical Research</i> , 2000, 105, 27067-27080.	3.3	11

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55	Interseismic deformation of the Nankai subduction zone, southwest Japan, inferred from three-dimensional crustal velocity fields. <i>Earth, Planets and Space</i> , 2007, 59, 1073-1082.	0.9	11
56	An adjoint data assimilation method for optimizing frictional parameters on the afterslip area. <i>Earth, Planets and Space</i> , 2013, 65, 1575-1580.	0.9	11
57	Numerical forecasting of the time interval between successive M8 earthquakes along the Nankai Trough, southwest Japan, using ocean bottom cable network data. <i>Marine Geophysical Researches</i> , 2014, 35, 285-294.	0.5	9
58	Probing the Poisson's ratio of poroelastic rebound following the 2011 Mw 9.0 Tohoku earthquake. <i>Geophysical Journal International</i> , 2018, 215, 2206-2221.	1.0	9
59	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, .	0.9	9
60	A block-fault model for deformation of the Japanese Islands derived from continuous GPS observation. <i>Earth, Planets and Space</i> , 2000, 52, 1095-1100.	0.9	8
61	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
62	A Forecasting Procedure for Plate Boundary Earthquakes Based on Sequential Data Assimilation. <i>Oceanography</i> , 2014, 27, 94-102.	0.5	7
63	Relative Motion of the Philippine Sea Plate Derived from GPS Observations and Tectonics of the South-Western Japan. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , 1998, 51, 171-180.	0.0	4
64	Constraints on the early-stage rupture process of the 2011 Tohoku-oki earthquake from 1-Hz GPS data. <i>Earth, Planets and Space</i> , 2012, 64, 1093-1099.	0.9	4
65	Reproducibility of spatial and temporal distribution of aseismic slips in Hyuga-nada of southwest Japan. <i>Marine Geophysical Researches</i> , 2014, 35, 311-317.	0.5	3
66	Generation Mechanism of Giant Earthquakes in Subduction Zones with Smaller-Size Interplate Earthquakes During Interseismic Period. , 0, , .		1