Takeshi Nishimura

List of Publications by Year
in descending order

42	843	430874	526287
papers	citations	18 h-index	27 g-index

43	43	43	820
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temporal change in site response caused by earthquake strong motion as revealed from coda spectral ratio measurement. Geophysical Research Letters, 2006, 33, .	4.0	60
2	Temporal changes in seismic velocity of the crust around Iwate volcano, Japan, as inferred from analyses of repeated active seismic experiment data from 1998 to 2003. Earth, Planets and Space, 2005, 57, 491-505.	2.5	54
3	Pressure recovery in magma due to bubble growth. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	47
4	Tracking dynamics of magma migration in open-conduit systems. Bulletin of Volcanology, 2016, 78, 1.	3.0	42
5	Scaling law of volcanic explosion earthquake. Geophysical Research Letters, 1993, 20, 2479-2482.	4.0	41
6	Bubble growth processes in magma surrounded by an elastic medium. Journal of Volcanology and Geothermal Research, 2006, 155, 307-322.	2.1	41
7	Triggering of volcanic eruptions by large earthquakes. Geophysical Research Letters, 2017, 44, 7750-7756.	4.0	41
8	Source location of volcanic earthquakes and subsurface characterization using fiber-optic cable and distributed acoustic sensing system. Scientific Reports, 2021, 11, 6319.	3.3	36
9	Spatio-temporal changes in seismic velocity associated with the 2000 activity of Miyakejima volcano as inferred from cross-correlation analyses of ambient noise. Journal of Volcanology and Geothermal Research, 2012, 247-248, 93-107.	2.1	34
10	Seismic velocity changes caused by the Earth tide: Ambient noise correlation analyses of smallâ€array data. Geophysical Research Letters, 2014, 41, 6131-6136.	4.0	33
11	Synthesis of coda wave envelopes in randomly inhomogeneous elastic media in a half-space: single scattering model including Rayleigh waves. Geophysical Journal International, 2008, 172, 130-154.	2.4	32
12	Ground deformation caused by magma ascent in an open conduit. Journal of Volcanology and Geothermal Research, 2009, 187, 178-192.	2.1	30
13	Methods for Eruption Prediction and Hazard Evaluation at Indonesian Volcanoes. Journal of Disaster Research, 2012, 7, 26-36.	0.7	28
14	Inflations prior to Vulcanian eruptions and gas bursts detected by tilt observations at Semeru Volcano, Indonesia. Bulletin of Volcanology, 2012, 74, 903-911.	3.0	26
15	Seismic velocity changes concentrated at the shallow structure as inferred from correlation analyses of ambient noise during volcano deformation at Izuâ€Oshima, Japan. Journal of Geophysical Research: Solid Earth, 2017, 122, 6721-6736.	3.4	22
16	Synthesis of vector wave envelopes on the free surface of a random medium for the vertical incidence of a plane wavelet based on the Markov approximation. Journal of Geophysical Research, 2010, 115, .	3.3	21
17	Characterization of the luminance and shape of ash particles at Sakurajima volcano, Japan, using CCD camera images. Bulletin of Volcanology, 2015, 77, 1.	3.0	21
18	Envelope synthesis of short-period seismograms in 3-D random media for a point shear dislocation source based on the forward scattering approximation: Application to small strike-slip earthquakes in southwestern Japan. Journal of Geophysical Research, 2011, 116, .	3.3	19

#	Article	IF	Citations
19	Magnitudeâ€“frequency distribution of volcanic explosion earthquakes. Earth, Planets and Space, 2016, 68, .	2.5	16
20	Ground deformation due to magma ascent with and without degassing. Geophysical Research Letters, 2006, 33, .	4.0	15
21	Development of an automatic volcanic ash sampling apparatus for active volcanoes. Bulletin of Volcanology, 2013, 75, 1.	3.0	15
22	A Passive Estimation Method of Scattering and Intrinsic Absorption Parameters From Envelopes of Seismic Ambient Noise Crossâ€Correlation Functions. Geophysical Research Letters, 2019, 46, 3634-3642.	4.0	15
23	Initial phases of explosion earthquakes accompanying Vulcanian eruptions at Lokon-Empung volcano, Indonesia. Journal of Volcanology and Geothermal Research, 2016, 327, 310-321.	2.1	14
24	Combined use of repeated active shots and ambient noise to detect temporal changes in seismic velocity: application to Sakurajima volcano, Japan. Earth, Planets and Space, 2017, 69, .	2.5	13
25	Noise-based passive ballistic wave seismic monitoring on an active volcano. Geophysical Journal International, 2020, 220, 501-507.	2.4	13
26	Azimuth Estimations From a Small Aperture Infrasonic Array: Test Observations at Stromboli Volcano, Italy. Geophysical Research Letters, 2018, 45, 8931-8938.	4.0	12
27	Sensitivity of Seismic Velocity Changes to the Tidal Strain at Different Lapse Times: Data Analyses of a Small Seismic Array at Izuâ€Oshima Volcano. Journal of Geophysical Research: Solid Earth, 2019, 124, 3011-3023.	3.4	12
28	Mechanism of small vulcanian eruptions at Suwanosejima volcano, Japan, as inferred from precursor inflations and tremor signals. Bulletin of Volcanology, 2013, 75, 1.	3.0	11
29	Volcanic eruption volume flux estimations from very long period infrasound signals. Geophysical Research Letters, 2017, 44, 143-151.	4.0	11
30	Seismicity and magma supply rate of the 1998 failed eruption at Iwate volcano, Japan. Bulletin of Volcanology, 2011, 73, 133-142.	3.0	10
31	Numerical investigation of temporal changes in volcanic deformation caused by a gas slug ascent in the conduit. Journal of Volcanology and Geothermal Research, 2015, 302, 1-10.	2.1	10
32	Locating Spatial Changes of Seismic Scattering Property by Sparse Modeling of Seismic Ambient Noise Crossâ€Correlation Functions: Application to the 2008 Iwateâ€Miyagi Nairiku (Mw 6.9), Japan, Earthquake. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019307.	3.4	10
33	Classification of volcanic tremors and earthquakes based on seismic correlation: application at Sakurajima volcano, Japan. Geophysical Journal International, 2022, 229, 1077-1097.	2.4	9
34	Spectral ratio analyses of explosion earthquakes at Sakurajima Volcano, Japan. Journal of Volcanology and Geothermal Research, 2019, 381, 302-311.	2.1	5
35	Extending the formulation of the spatial autocorrelation (SPAC) method to strain, rotation and tilt. Geophysical Journal International, 2021, 227, 287-302.	2.4	5
36	Volcano inflation prior to an eruption: Numerical simulations based on a 1-D magma flow model in an open conduit. Earth, Planets and Space, 2013, 65, 1477-1489.	2.5	4

#	Article	IF	Citations
37	Volcanic eruptions are triggered in static dilatational strain fields generated by large earthquakes. Scientific Reports, 2021, 11, 17235.	3.3	4
38	Interaction Between Moderate Earthquakes and Volcanic Eruptions: Analyses of Global Data Catalog. Geophysical Research Letters, 2018, 45, 8199-8204.	4.0	3
39	Reliability evaluation of volcanic tremor source location determination using cross-correlation functions. Geophysical Journal International, 2019, , .	2.4	3
40	High resolution location of deep low-frequency tremors beneath the Kii Peninsula, Nankai subduction zone, Japan, using data from a dense seismic array. Geophysical Journal International, 2021, 225, 775-788.	2.4	3
41	Seismic source migration during Strombolian eruptions inferred by veryâ€nearâ€field broadband seismic network. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022623.	3.4	2
42	Scattering strength at active volcanoes in Japan as inferred from the peak ratio analysis of teleseismic P waves. Earth, Planets and Space, 2021, 73, .	2.5	0