Akira Hasegawa

List of Publications by Year
in descending order

63	5,693	94433 37	128289 60
papers	citations	h-index	g-index

67	67	67	2309
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low-frequency Earthquakes in the Continental Plate and Their Seismological and Tectonic Implications. Journal of Geography (Chigaku Zasshi), 2022, 131, 289-315.	0.3	1
2	Prevalence of Shallow Lowâ€Frequency Earthquakes in the Continental Crust. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021391.	3.4	11
3	Faultâ€Valve Behavior Estimated From Intensive Foreshocks and Aftershocks of the 2017 M 5.3 Kagoshima Bay Earthquake Sequence, Kyushu, Southern Japan. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020278.	3.4	8
4	Seismicity, Subduction Zone. Encyclopedia of Earth Sciences Series, 2021, , 1625-1635.	0.1	0
5	2019 M6.7 Yamagata-Oki earthquake in the stress shadow of 2011 Tohoku-Oki earthquake: Was it caused by the reduction in fault strength?. Tectonophysics, 2020, 793, 228609.	2.2	9
6	Low-frequency earthquakes observed in close vicinity of repeating earthquakes in the brittle upper crust of Hakodate, Hokkaido, northern Japan. Geophysical Journal International, 2020, 223, 1724-1740.	2.4	9
7	Seismicity, Subduction Zone. Encyclopedia of Earth Sciences Series, 2020, , 1-10.	0.1	0
8	Crustal Extension and Graben Formation by Fault Slipâ€Associated Pore Opening, Kyushu, Japan. Journal of Geophysical Research: Solid Earth, 2019, 124, 4879-4894.	3.4	6
9	Heterogeneities in Stress and Strength in Tohoku and Its Relationship with Earthquake Sequences Triggered by the 2011 M9 Tohoku-Oki Earthquake. Pure and Applied Geophysics, 2019, 176, 1335-1355.	1.9	32
10	Sendai-Okura earthquake swarm induced by the 2011 Tohoku-Oki earthquake in the stress shadow of NE Japan: Detailed fault structure and hypocenter migration. Tectonophysics, 2018, 733, 132-147.	2.2	33
11	Hypocenter Migration and Seismicity Pattern Change in the Yamagataâ€Fukushima Border, NE Japan, Caused by Fluid Movement and Pore Pressure Variation. Journal of Geophysical Research: Solid Earth, 2018, 123, 5000-5017.	3.4	47
12	Seismic imaging of mantle wedge corner flow and arc magmatism. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2018, 94, 217-234.	3.8	6
13	Seismic imaging of slab metamorphism and genesis of intermediate-depth intraslab earthquakes. Progress in Earth and Planetary Science, 2017, 4, .	3.0	60
14	Temporal Changes in Stress Drop, Frictional Strength, and Earthquake Size Distribution in the 2011 Yamagataâ€Fukushima, NE Japan, Earthquake Swarm, Caused by Fluid Migration. Journal of Geophysical Research: Solid Earth, 2017, 122, 10,379.	3.4	48
15	Role of H₂O in Generating Subduction Zone Earthquakes. Monographs on Environment Earth and Planets, 2017, 5, 1-34.	9.0	17
16	Stress rotations due to the M6.5 foreshock and M7.3 main shock in the 2016 Kumamoto, SW Japan, earthquake sequence. Geophysical Research Letters, 2016, 43, 10,097.	4.0	36
17	Temporal variation of frictional strength in an earthquake swarm in NE Japan caused by fluid migration. Journal of Geophysical Research: Solid Earth, 2016, 121, 5953-5965.	3.4	29
18	Heterogeneous stress field in the source area of the 2003 M6.4 Northern Miyagi Prefecture, NE Japan, earthquake. Geophysical Journal International, 2016, 206, 408-419.	2.4	15

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19	Preceding seismic activity and slow slip events in the source area of the 2011 Mw 9.0 Tohoku-Oki earthquake: a review. Geoscience Letters, 2015, 2, .	3.3	31
20	Spatial variation of stress orientations in NE Japan revealed by dense seismic observations. Tectonophysics, 2015, 647-648, 63-72.	2.2	48
21	Changes in the stress field after the 2008 M7.2 Iwateâ€Miyagi Nairiku earthquake in northeastern Japan. Journal of Geophysical Research: Solid Earth, 2014, 119, 9016-9030.	3.4	40
22	Intermediate-depth earthquakes facilitated by eclogitization-related stresses. Geology, 2013, 41, 659-662.	4.4	38
23	An intraslab seismic sequence activated by the 2011 Tohokuâ€oki earthquake: Evidence for fluidâ€related embrittlement. Journal of Geophysical Research: Solid Earth, 2013, 118, 3492-3505.	3.4	13
24	Hypocenter distribution and heterogeneous seismic velocity structure in and around the focal area of the 2008 Iwate-Miyagi Nairiku Earthquake, NE Japanâ€"Possible seismological evidence for a fluid driven compressional inversion earthquake. Earth, Planets and Space, 2012, 64, 717-728.	2.5	32
25	Stress before and after the 2011 great Tohokuâ€oki earthquake and induced earthquakes in inland areas of eastern Japan. Geophysical Research Letters, 2012, 39, .	4.0	113
26	Highâ€resolution seismic velocity structure beneath the Hokkaido corner, northern Japan: Arcâ€arc collision and origins of the 1970 M 6.7 Hidaka and 1982 M 7.1 Urakawaâ€oki earthquakes. Journal of Geophysical Research, 2012, 117, .	3.3	42
27	Change in stress field after the 2011 great Tohoku-Oki earthquake. Earth and Planetary Science Letters, 2012, 355-356, 231-243.	4.4	136
28	Lateral variation of the cutoff depth of shallow earthquakes beneath the Japan Islands and its implications for seismogenesis. Tectonophysics, 2012, 518-521, 93-105.	2.2	62
29	Structural heterogeneity in the megathrust zone and mechanism of the 2011 Tohoku-oki earthquake (Mw 9.0). Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	147
30	Stress regime in the Philippine Sea slab beneath Kanto, Japan. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	9
31	Nearly complete stress drop in the 2011 M w 9.0 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 703-707.	2.5	163
32	Shallow inland earthquakes in NE Japan possibly triggered by the 2011 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 749-754.	2.5	47
33	Slab Structure beneath the Japanese Islands and Earthquake Generation. Journal of Geography (Chigaku Zasshi), 2010, 119, 190-204.	0.3	12
34	Cause of M â¼ 7 intraslab earthquakes beneath the Tokyo metropolitan area, Japan: Possible evidence for a vertical tear at the easternmost portion of the Philippine Sea slab. Journal of Geophysical Research, 2010, 115, .	3.3	19
35	Subduction of a wedgeâ€shaped Philippine Sea plate beneath Kanto, central Japan, estimated from converted waves and small repeating earthquakes. Journal of Geophysical Research, 2010, 115, .	3.3	31
36	Anomalous deepening of a seismic belt in the upper-plane of the double seismic zone in the Pacific slab beneath the Hokkaido corner: Possible evidence for thermal shielding caused by subducted forearc crust materials. Earth and Planetary Science Letters, 2010, 290, 415-426.	4.4	133

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37	Tomographic imaging of hydrated crust and mantle in the subducting Pacific slab beneath Hokkaido, Japan: Evidence for dehydration embrittlement as a cause of intraslab earthquakes. Gondwana Research, 2009, 16, 470-481.	6.0	81
38	Plate subduction, and generation of earthquakes and magmas in Japan as inferred from seismic observations: An overview. Gondwana Research, 2009, 16, 370-400.	6.0	111
39	What controls interplate coupling?: Evidence for abrupt change in coupling across a border between two overlying plates in the NE Japan subduction zone. Earth and Planetary Science Letters, 2009, 283, 111-121.	4.4	105
40	Seismotectonics beneath the Tokyo metropolitan area, Japan: Effect of slabâ€slab contact and overlap on seismicity. Journal of Geophysical Research, 2009, 114, .	3.3	163
41	Seismic evidence for thermallyâ€controlled dehydration reaction in subducting oceanic crust. Geophysical Research Letters, 2009, 36, .	4.0	78
42	Threeâ€dimensional seismic velocity structure and configuration of the Philippine Sea slab in southwestern Japan estimated by doubleâ€difference tomography. Journal of Geophysical Research, 2008, 113, .	3.3	245
43	Tomographic evidence for hydrated oceanic crust of the Pacific slab beneath northeastern Japan: Implications for water transportation in subduction zones. Geophysical Research Letters, 2008, 35, .	4.0	109
44	Tomographic evidence for the mantle upwelling beneath southwestern Japan and its implications for arc magmatism. Earth and Planetary Science Letters, 2007, 254, 90-105.	4.4	79
45	Anomalous deepening of a belt of intraslab earthquakes in the Pacific slab crust under Kanto, central Japan: Possible anomalous thermal shielding, dehydration reactions, and seismicity caused by shallower cold slab material. Geophysical Research Letters, 2007, 34, .	4.0	44
46	Existence of a seismic belt in the upper plane of the double seismic zone extending in the along-arc direction at depths of 70â€“100 km beneath NE Japan. Geophysical Research Letters, 2006, 33, .	4.0	131
47	Deep structure of the northeastern Japan arc and its implications for crustal deformation and shallow seismic activity. Tectonophysics, 2005, 403, 59-75.	2.2	157
48	Evolution of Late Cenozoic Magmatism in the NE Honshu Arc and Its Relation to the Crust-Mantle Structures. The Quaternary Research, 2005, 44, 195-216.	0.1	34
49	High-resolution subducting-slab structure beneath northern Honshu, Japan, revealed by double-difference tomography. Geology, 2004, 32, 361.	4.4	131
50	Geophysical constraints on slab subduction and arc magmatism. Geophysical Monograph Series, 2004, , 81-93.	0.1	53
51	Source mechanisms of deep and intermediate-depth low-frequency earthquakes beneath Iwate volcano, northeastern Japan. Geophysical Journal International, 2003, 154, 811-828.	2.4	76
52	Hypocenter and focal mechanism distributions of aftershocks of July 26 2003 M6.4 northern Miyagi, NE Japan, earthquake revealed by temporary seismic observation. Earth, Planets and Space, 2003, 55, 719-730.	2.5	23
53	Tectonic evolution and deep to shallow geometry of Nagamachi-Rifu Active Fault System, NE Japan. Earth, Planets and Space, 2002, 54, 1039-1043.	2.5	36
54	Three-dimensional structure ofVp,Vs, andVp/Vsbeneath northeastern Japan: Implications for arc magmatism and fluids. Journal of Geophysical Research, 2001, 106, 21843-21857.	3.3	356

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55	Spatial distribution of focal mechanisms for interplate and intraplate earthquakes associated with the subducting Pacific plate beneath the northeastern Japan arc: A triple-planed deep seismic zone. Journal of Geophysical Research, 2001, 106, 2177-2191.	3.3	146
56	Morphology of the subducting slab boundary in the northeastern Japan arc. Physics of the Earth and Planetary Interiors, 1997, 102, 89-104.	1.9	117
57	Seismic structure of the northeastern Japan convergent margin: A synthesis. Journal of Geophysical Research, 1994, 99, 22295-22311.	3.3	169
58	Deep, low-frequency microearthquakes in or around seismic low-velocity zones beneath active volcanoes in northeastern Japan. Tectonophysics, 1994, 233, 233-252.	2.2	140
59	P wave tomographic imaging of the crust and upper mantle beneath the Japan Islands. Journal of Geophysical Research, 1993, 98, 4333-4353.	3.3	107
60	Tomographic imaging of P and S wave velocity structure beneath northeastern Japan. Journal of Geophysical Research, 1992, 97, 19909-19928.	3.3	996
61	Subducting plate boundary beneath the northeastern Japan arc estimated from SP converted waves. Tectonophysics, 1990, 181, 123-133.	2.2	71
62	Double-planed structure of the deep seismic zone in the northeastern Japan arc. Tectonophysics, 1978, 47, 43-58.	2.2	430
63	Mantle transition zone, stagnant slab and intraplate volcanism in Northeast Asia. Geophysical Journal International, 0, , ggw491.	2.4	17