

Akira Hasegawa

List of Publications by Year in descending order

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63
papers

5,693
citations

94433

37
h-index

128289

60
g-index

67
all docs

67
docs citations

67
times ranked

2309
citing authors

#	ARTICLE	IF	CITATIONS
1	Tomographic imaging of <i>P</i> and <i>S</i> wave velocity structure beneath northeastern Japan. <i>Journal of Geophysical Research</i> , 1992, 97, 19909-19928.	3.3	996
2	Double-planed structure of the deep seismic zone in the northeastern Japan arc. <i>Tectonophysics</i> , 1978, 47, 43-58.	2.2	430
3	Three-dimensional structure of <i>V_p</i> , <i>V_s</i> , and <i>V_p/V_s</i> beneath northeastern Japan: Implications for arc magmatism and fluids. <i>Journal of Geophysical Research</i> , 2001, 106, 21843-21857.	3.3	356
4	Three-dimensional seismic velocity structure and configuration of the Philippine Sea slab in southwestern Japan estimated by double-difference tomography. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	245
5	Seismic structure of the northeastern Japan convergent margin: A synthesis. <i>Journal of Geophysical Research</i> , 1994, 99, 22295-22311.	3.3	169
6	Seismotectonics beneath the Tokyo metropolitan area, Japan: Effect of slab-slab contact and overlap on seismicity. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	163
7	Nearly complete stress drop in the 2011 M w 9.0 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 703-707.	2.5	163
8	Deep structure of the northeastern Japan arc and its implications for crustal deformation and shallow seismic activity. <i>Tectonophysics</i> , 2005, 403, 59-75.	2.2	157
9	Structural heterogeneity in the megathrust zone and mechanism of the 2011 Tohoku-oki earthquake (Mw 9.0). <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	147
10	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. <i>Journal of Geophysical Research</i> , 2001, 106, 2177-2191.	3.3	146
11	Deep, low-frequency microearthquakes in or around seismic low-velocity zones beneath active volcanoes in northeastern Japan. <i>Tectonophysics</i> , 1994, 233, 233-252.	2.2	140
12	Change in stress field after the 2011 great Tohoku-Oki earthquake. <i>Earth and Planetary Science Letters</i> , 2012, 355-356, 231-243.	4.4	136
13	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. <i>Earth and Planetary Science Letters</i> , 2010, 290, 415-426.	4.4	133
14	High-resolution subducting-slab structure beneath northern Honshu, Japan, revealed by double-difference tomography. <i>Geology</i> , 2004, 32, 361.	4.4	131
15	Existence of a seismic belt in the upper plane of the double seismic zone extending in the along-arc direction at depths of 70–100 km beneath NE Japan. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	131
16	Morphology of the subducting slab boundary in the northeastern Japan arc. <i>Physics of the Earth and Planetary Interiors</i> , 1997, 102, 89-104.	1.9	117
17	Stress before and after the 2011 great Tohoku-oki earthquake and induced earthquakes in inland areas of eastern Japan. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	113
18	Plate subduction, and generation of earthquakes and magmas in Japan as inferred from seismic observations: An overview. <i>Gondwana Research</i> , 2009, 16, 370-400.	6.0	111

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19	Tomographic evidence for hydrated oceanic crust of the Pacific slab beneath northeastern Japan: Implications for water transportation in subduction zones. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	109
20	<i>P</i> wave tomographic imaging of the crust and upper mantle beneath the Japan Islands. <i>Journal of Geophysical Research</i> , 1993, 98, 4333-4353.	3.3	107
21	What controls interplate coupling?: Evidence for abrupt change in coupling across a border between two overlying plates in the NE Japan subduction zone. <i>Earth and Planetary Science Letters</i> , 2009, 283, 111-121.	4.4	105
22	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. <i>Gondwana Research</i> , 2009, 16, 470-481.	6.0	81
23	Tomographic evidence for the mantle upwelling beneath southwestern Japan and its implications for arc magmatism. <i>Earth and Planetary Science Letters</i> , 2007, 254, 90-105.	4.4	79
24	Seismic evidence for thermally controlled dehydration reaction in subducting oceanic crust. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	78
25	Source mechanisms of deep and intermediate-depth low-frequency earthquakes beneath Iwate volcano, northeastern Japan. <i>Geophysical Journal International</i> , 2003, 154, 811-828.	2.4	76
26	Subducting plate boundary beneath the northeastern Japan arc estimated from SP converted waves. <i>Tectonophysics</i> , 1990, 181, 123-133.	2.2	71
27	Lateral variation of the cutoff depth of shallow earthquakes beneath the Japan Islands and its implications for seismogenesis. <i>Tectonophysics</i> , 2012, 518-521, 93-105.	2.2	62
28	Seismic imaging of slab metamorphism and genesis of intermediate-depth intraslab earthquakes. <i>Progress in Earth and Planetary Science</i> , 2017, 4, .	3.0	60
29	Geophysical constraints on slab subduction and arc magmatism. <i>Geophysical Monograph Series</i> , 2004, , 81-93.	0.1	53
30	Spatial variation of stress orientations in NE Japan revealed by dense seismic observations. <i>Tectonophysics</i> , 2015, 647-648, 63-72.	2.2	48
31	Temporal Changes in Stress Drop, Frictional Strength, and Earthquake Size Distribution in the 2011 Yamagata-Fukushima, NE Japan, Earthquake Swarm, Caused by Fluid Migration. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,379.	3.4	48
32	Shallow inland earthquakes in NE Japan possibly triggered by the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 749-754.	2.5	47
33	Hypocenter Migration and Seismicity Pattern Change in the Yamagata-Fukushima Border, NE Japan, Caused by Fluid Movement and Pore Pressure Variation. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5000-5017.	3.4	47
34	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. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	44
35	High-resolution seismic velocity structure beneath the Hokkaido corner, northern Japan: Arc collision and origins of the 1970 M 6.7 Hidaka and 1982 M 7.1 Urakawa-oki earthquakes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	42
36	Changes in the stress field after the 2008 M 7.2 Iwate-Miyagi Nairiku earthquake in northeastern Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 9016-9030.	3.4	40

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37	Intermediate-depth earthquakes facilitated by eclogitization-related stresses. <i>Geology</i> , 2013, 41, 659-662.	4.4	38
38	Tectonic evolution and deep to shallow geometry of Nagamachi-Rifu Active Fault System, NE Japan. <i>Earth, Planets and Space</i> , 2002, 54, 1039-1043.	2.5	36
39	Stress rotations due to the $M < i > 6.5$ foreshock and $M < i > 7.3$ main shock in the 2016 Kumamoto, SW Japan, earthquake sequence. <i>Geophysical Research Letters</i> , 2016, 43, 10,097.	4.0	36
40	Evolution of Late Cenozoic Magmatism in the NE Honshu Arc and Its Relation to the Crust-Mantle Structures. <i>The Quaternary Research</i> , 2005, 44, 195-216.	0.1	34
41	Sendai-Okura earthquake swarm induced by the 2011 Tohoku-Oki earthquake in the stress shadow of NE Japan: Detailed fault structure and hypocenter migration. <i>Tectonophysics</i> , 2018, 733, 132-147.	2.2	33
42	Hypocenter distribution and heterogeneous seismic velocity structure in and around the focal area of the 2008 Iwate-Miyagi Nairiku Earthquake, NE Japan—Possible seismological evidence for a fluid driven compressional inversion earthquake. <i>Earth, Planets and Space</i> , 2012, 64, 717-728.	2.5	32
43	Heterogeneities in Stress and Strength in Tohoku and Its Relationship with Earthquake Sequences Triggered by the 2011 M9 Tohoku-Oki Earthquake. <i>Pure and Applied Geophysics</i> , 2019, 176, 1335-1355.	1.9	32
44	Subduction of a wedge-shaped Philippine Sea plate beneath Kanto, central Japan, estimated from converted waves and small repeating earthquakes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
45	Preceding seismic activity and slow slip events in the source area of the 2011 Mw 9.0 Tohoku-Oki earthquake: a review. <i>Geoscience Letters</i> , 2015, 2, .	3.3	31
46	Temporal variation of frictional strength in an earthquake swarm in NE Japan caused by fluid migration. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5953-5965.	3.4	29
47	Hypocenter and focal mechanism distributions of aftershocks of July 26 2003 M6.4 northern Miyagi, NE Japan, earthquake revealed by temporary seismic observation. <i>Earth, Planets and Space</i> , 2003, 55, 719-730.	2.5	23
48	Cause of $M < i > 7$ intraslab earthquakes beneath the Tokyo metropolitan area, Japan: Possible evidence for a vertical tear at the easternmost portion of the Philippine Sea slab. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
49	Mantle transition zone, stagnant slab and intraplate volcanism in Northeast Asia. <i>Geophysical Journal International</i> , 0, , ggw491.	2.4	17
50	Role of H ₂ O in Generating Subduction Zone Earthquakes. <i>Monographs on Environment Earth and Planets</i> , 2017, 5, 1-34.	9.0	17
51	Heterogeneous stress field in the source area of the 2003 M6.4 Northern Miyagi Prefecture, NE Japan, earthquake. <i>Geophysical Journal International</i> , 2016, 206, 408-419.	2.4	15
52	An intraslab seismic sequence activated by the 2011 Tohoku-Oki earthquake: Evidence for fluid-related embrittlement. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3492-3505.	3.4	13
53	Slab Structure beneath the Japanese Islands and Earthquake Generation. <i>Journal of Geography (Chigaku Zasshi)</i> , 2010, 119, 190-204.	0.3	12
54	Prevalence of Shallow Low-Frequency Earthquakes in the Continental Crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021391.	3.4	11

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55	Stress regime in the Philippine Sea slab beneath Kanto, Japan. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	9
56	2019 M6.7 Yamagata-Oki earthquake in the stress shadow of 2011 Tohoku-Oki earthquake: Was it caused by the reduction in fault strength?. <i>Tectonophysics</i> , 2020, 793, 228609.	2.2	9
57	Low-frequency earthquakes observed in close vicinity of repeating earthquakes in the brittle upper crust of Hakodate, Hokkaido, northern Japan. <i>Geophysical Journal International</i> , 2020, 223, 1724-1740.	2.4	9
58	Fault Valve Behavior Estimated From Intensive Foreshocks and Aftershocks of the 2017 M 5.3 Kagoshima Bay Earthquake Sequence, Kyushu, Southern Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020278.	3.4	8
59	Seismic imaging of mantle wedge corner flow and arc magmatism. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2018, 94, 217-234.	3.8	6
60	Crustal Extension and Graben Formation by Fault Slip-Associated Pore Opening, Kyushu, Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4879-4894.	3.4	6
61	Low-frequency Earthquakes in the Continental Plate and Their Seismological and Tectonic Implications. <i>Journal of Geography (Chigaku Zasshi)</i> , 2022, 131, 289-315.	0.3	1
62	Seismicity, Subduction Zone. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1625-1635.	0.1	0
63	Seismicity, Subduction Zone. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-10.	0.1	0