Hiroko Sugioka

List of Publications by Year
in descending order

87 papers	2,201 citations	257357 24 h-index	265120 42 g-index
89 all docs	89 docs citations	89 times ranked	1692 citing authors

#	Article	IF	Citations
1	Finite frequency whole mantle P wave tomography: Improvement of subducted slab images. Geophysical Research Letters, 2013, 40, 5652-5657.	1.5	167
2	Tsunamigenic potential of the shallow subduction plate boundary inferred from slow seismic slip. Nature Geoscience, 2012, 5, 414-418.	5.4	134
3	Real-time geophysical measurements on the deep seafloor using submarine cable in the southern Kurile subduction zone. IEEE Journal of Oceanic Engineering, 2002, 27, 170-181.	2.1	106
4	High temperature anomalies oceanward of subducting slabs at the 410-km discontinuity. Earth and Planetary Science Letters, 2006, 243, 149-158.	1.8	91
5	Seismic attenuation tomography of the Mariana subduction system: Implications for thermal structure, volatile distribution, and slow spreading dynamics. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	82
6	Complex mantle flow in the Mariana subduction system: evidence from shear wave splitting. Geophysical Journal International, 2007, 170, 371-386.	1.0	81
7	New discoveries in dynamics of an M8 earthquake-phenomena and their implications from the 2003 Tokachi-oki earthquake using a long term monitoring cabled observatory. Tectonophysics, 2006, 426, 95-105.	0.9	69
8	South Pacific mantle plumes imaged by seismic observation on islands and seafloor. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	68
9	Atmospheric pressure change associated with the 2003 Tokachi-Oki earthquake. Geophysical Research Letters, 2006, 33, .	1.5	59
10	Development of a Slow Earthquake Database. Seismological Research Letters, 2018, 89, 1566-1575.	0.8	58
11	Aftershocks near the updip end of the 2011 Tohoku-Oki earthquake. Earth and Planetary Science Letters, 2013, 382, 111-116.	1.8	51
12	Radially anisotropic structure beneath the Shikoku Basin from broadband surface wave analysis of ocean bottom seismometerâ€‰records. Journal of Geophysical Research: Solid Earth, 2013, 118, 2878-2892.	1.4	49
13	Smallâ€scale heterogeneities in the oceanic lithosphere inferred from guided waves. Geophysical Research Letters, 2013, 40, 1708-1712.	1.5	42
14	Depths of the 410-km and 660-km discontinuities in and around the stagnant slab beneath the Philippine Sea: Is water stored in the stagnant slab?. Physics of the Earth and Planetary Interiors, 2010, 183, 270-279.	0.7	41
15	Seismic structure of the upper mantle beneath the Philippine Sea from seafloor and land observation: Implications for mantle convection and magma genesis in the Izuâ€“Boninâ€“Mariana subduction zone. Earth and Planetary Science Letters, 2009, 278, 107-119.	1.8	38
16	Offshore monitoring system records recent earthquake off Japan's northernmost island. Eos, 2004, 85, 14-14.	0.1	33
17	TIARES Projectâ€”Tomographic investigation by seafloor array experiment for the Society hotspot. Earth, Planets and Space, 2012, 64, i-iv.	0.9	33
18	Probing South Pacific mantle plumes with ocean bottom seismographs. Eos, 2005, 86, 429.	0.1	32

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19	PandSvelocity tomography of the Mariana subduction system from a combined land-sea seismic deployment. Geochemistry, Geophysics, Geosystems, 2015, 16, 681-704.	1.0	29
20	In Situ Characterization of the Lithosphereâ€Asthenosphere System beneath NW Pacific Ocean Via Broadband Dispersion Survey With Two OBS Arrays. Geochemistry, Geophysics, Geosystems, 2018, 19, 3529-3539.	1.0	29
21	Seismic azimuthal anisotropy in the oceanic lithosphere and asthenosphere from broadband surface wave analysis of OBS array records at 60ÂMa seafloor. Journal of Geophysical Research: Solid Earth, 2016, 121, 1927-1947.	1.4	28
22	Small size very low frequency earthquakes in the Nankai accretionary prism, following the 2011 Tohoku-Oki earthquake. Physics of the Earth and Planetary Interiors, 2015, 245, 40-51.	0.7	27
23	Ray Tracing for Dispersive Tsunamis and Source Amplitude Estimation Based on Greenâ€™s Law: Application to the 2015 Volcanic Tsunami Earthquake Near Torishima, South of Japan. Pure and Applied Geophysics, 2018, 175, 1371-1385.	0.8	26
24	Tsunami: Ocean dynamo generator. Scientific Reports, 2015, 4, 3596.	1.6	25
25	Mechanism of the 2015 volcanic tsunami earthquake near Torishima, Japan. Science Advances, 2018, 4, eaao0219.	4.7	25
26	Anomalously Early First Arrivals to the J-Array from Teleseismic Events.. Journal of Physics of the Earth, 1996, 44, 687-699.	1.4	24
27	Determination of intrinsic attenuation in the oceanic lithosphere-asthenosphere system. Science, 2017, 358, 1593-1596.	6.0	24
28	Surface wave tomography for the Pacific Ocean incorporating seafloor seismic observations and plate thermal evolution. Earth and Planetary Science Letters, 2019, 510, 116-130.	1.8	24
29	Shear wave speed structure beneath the South Pacific superswell using broadband data from ocean floor and islands. Geophysical Research Letters, 2006, 33, .	1.5	23
30	Source depth dependence of micro-tsunamis recorded with ocean-bottom pressure gauges: the January 28, 2000 Mw 6.8 earthquake off Nemuro Peninsula, Japan. Earth and Planetary Science Letters, 2003, 208, 305-318.	1.8	22
31	Earthquake evidence for alongâ€arc extension in the Mariana Islands. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	22
32	Anisotropic structures of the upper mantle beneath the northern Philippine Sea region from Rayleigh and Love wave tomography. Physics of the Earth and Planetary Interiors, 2010, 183, 33-43.	0.7	22
33	P-wave tomography of the mantle beneath the South Pacific Superswell revealed by joint ocean floor and islands broadband seismic experiments. Physics of the Earth and Planetary Interiors, 2009, 172, 268-277.	0.7	21
34	On the vertical extent of the large low shear velocity province beneath the South Pacific Superswell. Geophysical Research Letters, 2009, 36, .	1.5	21
35	Giant rhyolite lava dome formation after 7.3 ka supereruption at Kikai caldera, SW Japan. Scientific Reports, 2018, 8, 2753.	1.6	21
36	Mapping upper mantle flow beneath French Polynesia from broadband ocean bottom seismic observations. Geophysical Research Letters, 2009, 36, .	1.5	20

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37	Double seismic zone in the North Mariana region revealed by long-term ocean bottom array observation. Geophysical Journal International, 2010, 183, 1455-1469.	1.0	20
38	A temporal change of shear wave anisotropy within the marine sedimentary layer associated with the 2011 Tohokuâ€Oki earthquake. Journal of Geophysical Research: Solid Earth, 2013, 118, 607-615.	1.4	20
39	Three-dimensional shear wave structure beneath the Philippine Sea from land and ocean bottom broadband seismograms. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	19
40	Topography of the mantle discontinuities beneath the South Pacific superswell as inferred from broadband waveforms on seafloor. Physics of the Earth and Planetary Interiors, 2007, 160, 310-318.	0.7	19
41	Event Size Distribution of Shallow Tectonic Tremor in the Nankai Trough. Geophysical Research Letters, 2019, 46, 5828-5836.	1.5	19
42	Seismic evidence for a thermochemical mantle plume underplating the lithosphere of the Ontong Java Plateau. Communications Earth & Environment, 2021, 2, .	2.6	19
43	Shear-wave splitting in the Mariana troughâ€”a relation between back-arc spreading and mantle flow?. Earth and Planetary Science Letters, 2006, 244, 566-575.	1.8	18
44	Long-Range Detection and Location of Shallow Underwater Explosions Using Deep-Sound-Channel Hydrophones. IEEE Journal of Oceanic Engineering, 2011, 36, 703-715.	2.1	17
45	Characterization of Crustal and Uppermostâ€Mantle Seismic Discontinuities in the Ontong Java Plateau. Journal of Geophysical Research: Solid Earth, 2019, 124, 7155-7170.	1.4	17
46	Rayleigh wave phase velocity measurements across the Philippine sea from a broad-band OBS array. Geophysical Journal International, 2004, 158, 257-266.	1.0	16
47	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. Geophysical Research Letters, 2007, 34, .	1.5	16
48	Mantle plumes beneath the South Pacific superswell revealed by finite frequency P tomography using regional seafloor and island data. Geophysical Research Letters, 2016, 43, 11,628.	1.5	16
49	Evidence for infragravity wave-tide resonance in deep oceans. Nature Communications, 2010, 1, 84.	5.8	15
50	Timeâ€“Frequency Characteristics of Tsunami Magnetic Signals from Four Pacific Ocean Events. Pure and Applied Geophysics, 2016, 173, 3935-3953.	0.8	15
51	Volcanic events associated with an enigmatic submarine earthquake. Geophysical Journal International, 2000, 142, 361-370.	1.0	14
52	Shear velocity structure of the Mariana mantle wedge from Rayleigh wave phase velocities. Journal of Geophysical Research, 2010, 115, .	3.3	14
53	Seismogenic characteristics of the Northern Mariana shallow thrust zone from local array data. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	14
54	Detection of small earthquakes along the Pacific-Antarctic Ridge from T-waves recorded by abyssal ocean-bottom observatories. Marine Geophysical Researches, 2012, 33, 229-238.	0.5	14

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55	Continuous seismic monitoring of Nishinoshima volcano, Izu-Ogasawara, by using long-term ocean bottom seismometers. Earth, Planets and Space, 2017, 69, .	0.9	13
56	Depth of the 660-km discontinuity near the Mariana slab from an array of ocean bottom seismographs. Geophysical Research Letters, 2006, 33, .	1.5	12
57	Calibration of deep sea differential pressure gauge. JAMSTEC Report of Research and Development, 2009, 2009, 141-148.	0.2	12
58	Mantle transition zone beneath a normal seafloor in the northwestern Pacific: Electrical conductivity, seismic thickness, and water content. Earth and Planetary Science Letters, 2017, 462, 189-198.	1.8	12
59	Detection of â€œRapidâ€•Aseismic Slip at the Izuâ€Bonin Trench. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022132.	1.4	11
60	The OJP array: seismological and electromagnetic observation on seafloor and islands in the Ontong Java Plateau. JAMSTEC Report of Research and Development, 2018, 26, 54-64.	0.2	11
61	Seismic image and its implications for an earthquake swarm at an active volcanic region off the Miyake-jimaâ€“Kozu-shima, Japan. Geophysical Research Letters, 2002, 29, 43-1.	1.5	9
62	Submarine volcanic activity, ocean-acoustic waves and internal ocean tides. Geophysical Research Letters, 2005, 32, .	1.5	9
63	Upper mantle structure beneath the Society hotspot and surrounding region using broadband data from ocean floor and islands. Earth, Planets and Space, 2016, 68, .	0.9	9
64	Excitation Location and Seasonal Variation of Transoceanic Infragravity Waves Observed at an Absolute Pressure Gauge Array. Journal of Geophysical Research: Oceans, 2018, 123, 40-52.	1.0	9
65	Traveltime delay relative to the maximum energy of the wave train for dispersive tsunamis propagating across the Pacific Ocean: the case of 2010 and 2015 Chilean Tsunamis. Geophysical Journal International, 2018, 214, 1538-1555.	1.0	9
66	Receiver Function Imaging of the Amphibious NE Japan Subduction Zoneâ€”Effects of Lowâ€Velocity Sediment Layer. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021918.	1.4	9
67	Configuration and structure of the Philippine Sea Plate off Boso, Japan: constraints on the shallow subduction kinematics, seismicity, and slow slip events. Earth, Planets and Space, 2019, 71, .	0.9	9
68	Interrelation of the stagnant slab, Ontong Java Plateau, and intraplate volcanism as inferred from seismic tomography. Scientific Reports, 2021, 11, 20966.	1.6	9
69	Upper boundaries of the Pacific and Philippine Sea plates near the triple junction off the Boso Peninsula deduced from ocean-bottom seismic observations. Earth, Planets and Space, 2017, 69, .	0.9	8
70	Tomographic image of crust and upper mantle off the Boso Peninsula using data from an ocean-bottom seismograph array. Earth, Planets and Space, 2017, 69, .	0.9	8
71	Persistent Longâ€Period Signals Recorded by an OBS Array in the Westernâ€Central Pacific: Activity of Ambrym Volcano in Vanuatu. Geophysical Research Letters, 2020, 47, e2020GL089108.	1.5	7
72	Fast P- and S-wave velocities associated with the â€œcoldâ€•stagnant slab beneath the northern Philippine Sea. Physics of the Earth and Planetary Interiors, 2010, 179, 1-6.	0.7	6

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73	Detection of Ocean Internal Tide Source Oscillations on the Slope of Aogashima Island, Japan. Journal of Geophysical Research: Oceans, 2019, 124, 4918-4933.	1.0	6
74	Inversion of Longerâ€Period OBS Waveforms for P Structures in the Oceanic Lithosphere and Asthenosphere. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018810.	1.4	6
75	High QScS beneath the Ontong Java Plateau. Earth, Planets and Space, 2019, 71, .	0.9	6
76	Physical properties of subducted slab and surrounding mantle in the Izuâ€Bonin subduction zone based on Broadband Ocean Bottom Seismometer data. Journal of Geophysical Research, 2009, 114, .	3.3	5
77	Tilt Observations at the Seafloor by Mobile Ocean Bottom Seismometers. Frontiers in Earth Science, 2021, 8, .	0.8	5
78	Earthquake Rupture and Tsunami Generation of the 2015 M_w 5.9 Bonin Event Revealed by In Situ Pressure Gauge Array Observations and Integrated Seismic and Tsunami Wave Simulation. Geophysical Research Letters, 2021, 48, e2021GL095915.	1.5	5
79	Detection of shallowest submarine seismicity by acoustic coupled shear waves. Journal of Geophysical Research, 2001, 106, 13485-13499.	3.3	4
80	Shallow Nonvolcanic Tremor Activity and Potential Repeating Earthquakes in the Chile Triple Junction: Seismic Evidence of the Subduction of the Active Nazcaâ€“Antarctic Spreading Center. Seismological Research Letters, 2019, , .	0.8	4
81	Two independent signals detected by ocean bottom electromagnetometers during a non-eruptive volcanic event: Ogasawara Island arc volcano, Nishinoshima. Earth, Planets and Space, 2020, 72, .	0.9	4
82	Timeâ€“Frequency Characteristics of Tsunami Magnetic Signals from Four Pacific Ocean Events. Pageoph Topical Volumes, 2016, , 3935-3953.	0.2	4
83	Detection and characterization of whale signals using seafloor cabled seismic networks offshore Japan. , 2015, , .		3
84	Sensing of upslope passages of frontal bores across the trench slope break of the Japan Trench. Journal of Geophysical Research: Oceans, 2016, 121, 3422-3434.	1.0	3
85	An installation experiment with broadband ocean bottom seismometers for reducing low frequency seismic noises.. JAMSTEC Report of Research and Development, 2009, 2009, 131-139.	0.2	2
86	Review of five years of activity at IFREE /JAMSTEC. JAMSTEC Report of Research and Development, 2009, 9, 2_43-2_94.	0.2	1
87	On the role of frequency dispersion on the trans-pacific tsunamis: Study of the 2010 and 2015 Chilean tsunamis. , 2016, , .		1