

Hiroko Sugioka

List of Publications by Year in descending order

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87
papers

2,201
citations

257357

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h-index

265120

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g-index

89
all docs

89
docs citations

89
times ranked

1692
citing authors

#	ARTICLE	IF	CITATIONS
1	Tilt Observations at the Seafloor by Mobile Ocean Bottom Seismometers. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	5
2	Seismic evidence for a thermochemical mantle plume underplating the lithosphere of the Ontong Java Plateau. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	19
3	Receiver Function Imaging of the Amphibious NE Japan Subduction Zone—Effects of Low—Velocity Sediment Layer. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021918.	1.4	9
4	Detection of “Rapid” Aseismic Slip at the Izu—Bonin Trench. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022132.	1.4	11
5	Interrelation of the stagnant slab, Ontong Java Plateau, and intraplate volcanism as inferred from seismic tomography. <i>Scientific Reports</i> , 2021, 11, 20966.	1.6	9
6	Earthquake Rupture and Tsunami Generation of the 2015 <i>M_w</i> 5.9 Bonin Event Revealed by In Situ Pressure Gauge Array Observations and Integrated Seismic and Tsunami Wave Simulation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095915.	1.5	5
7	Persistent Long—Period Signals Recorded by an OBS Array in the Western—Central Pacific: Activity of Ambrym Volcano in Vanuatu. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089108.	1.5	7
8	Inversion of Longer—Period OBS Waveforms for P Structures in the Oceanic Lithosphere and Asthenosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018810.	1.4	6
9	Two independent signals detected by ocean bottom electromagnetometers during a non-eruptive volcanic event: Ogasawara Island arc volcano, Nishinoshima. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	4
10	Characterization of Crustal and Uppermost—Mantle Seismic Discontinuities in the Ontong Java Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 7155-7170.	1.4	17
11	Detection of Ocean Internal Tide Source Oscillations on the Slope of Aogashima Island, Japan. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4918-4933.	1.0	6
12	Event Size Distribution of Shallow Tectonic Tremor in the Nankai Trough. <i>Geophysical Research Letters</i> , 2019, 46, 5828-5836.	1.5	19
13	Surface wave tomography for the Pacific Ocean incorporating seafloor seismic observations and plate thermal evolution. <i>Earth and Planetary Science Letters</i> , 2019, 510, 116-130.	1.8	24
14	Shallow Nonvolcanic Tremor Activity and Potential Repeating Earthquakes in the Chile Triple Junction: Seismic Evidence of the Subduction of the Active Nazca—Antarctic Spreading Center. <i>Seismological Research Letters</i> , 2019, , .	0.8	4
15	High QScS beneath the Ontong Java Plateau. <i>Earth, Planets and Space</i> , 2019, 71, .	0.9	6
16	Configuration and structure of the Philippine Sea Plate off Boso, Japan: constraints on the shallow subduction kinematics, seismicity, and slow slip events. <i>Earth, Planets and Space</i> , 2019, 71, .	0.9	9
17	Ray Tracing for Dispersive Tsunamis and Source Amplitude Estimation Based on Green—s Law: Application to the 2015 Volcanic Tsunami Earthquake Near Torishima, South of Japan. <i>Pure and Applied Geophysics</i> , 2018, 175, 1371-1385.	0.8	26
18	Excitation Location and Seasonal Variation of Transoceanic Infragravity Waves Observed at an Absolute Pressure Gauge Array. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 40-52.	1.0	9

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19	Mechanism of the 2015 volcanic tsunami earthquake near Torishima, Japan. <i>Science Advances</i> , 2018, 4, eaao0219.	4.7	25
20	Giant rhyolite lava dome formation after 7.3 ka supereruption at Kikai caldera, SW Japan. <i>Scientific Reports</i> , 2018, 8, 2753.	1.6	21
21	Development of a Slow Earthquake Database. <i>Seismological Research Letters</i> , 2018, 89, 1566-1575.	0.8	58
22	In Situ Characterization of the Lithosphere–Asthenosphere System beneath NW Pacific Ocean Via Broadband Dispersion Survey With Two OBS Arrays. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3529-3539.	1.0	29
23	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. <i>Geophysical Journal International</i> , 2018, 214, 1538-1555.	1.0	9
24	The OJP array: seismological and electromagnetic observation on seafloor and islands in the Ontong Java Plateau. <i>JAMSTEC Report of Research and Development</i> , 2018, 26, 54-64.	0.2	11
25	Upper boundaries of the Pacific and Philippine Sea plates near the triple junction off the Boso Peninsula deduced from ocean-bottom seismic observations. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	8
26	Mantle transition zone beneath a normal seafloor in the northwestern Pacific: Electrical conductivity, seismic thickness, and water content. <i>Earth and Planetary Science Letters</i> , 2017, 462, 189-198.	1.8	12
27	Continuous seismic monitoring of Nishinoshima volcano, Izu-Ogasawara, by using long-term ocean bottom seismometers. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	13
28	Determination of intrinsic attenuation in the oceanic lithosphere-asthenosphere system. <i>Science</i> , 2017, 358, 1593-1596.	6.0	24
29	Tomographic image of crust and upper mantle off the Boso Peninsula using data from an ocean-bottom seismograph array. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	8
30	Time–Frequency Characteristics of Tsunami Magnetic Signals from Four Pacific Ocean Events. <i>Pure and Applied Geophysics</i> , 2016, 173, 3935-3953.	0.8	15
31	Mantle plumes beneath the South Pacific superswell revealed by finite frequency P tomography using regional seafloor and island data. <i>Geophysical Research Letters</i> , 2016, 43, 11,628.	1.5	16
32	Seismic azimuthal anisotropy in the oceanic lithosphere and asthenosphere from broadband surface wave analysis of OBS array records at 60°Ma seafloor. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1927-1947.	1.4	28
33	Sensing of upslope passages of frontal bores across the trench slope break of the Japan Trench. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3422-3434.	1.0	3
34	On the role of frequency dispersion on the trans-pacific tsunamis: Study of the 2010 and 2015 Chilean tsunamis. , 2016, , .		1
35	Upper mantle structure beneath the Society hotspot and surrounding region using broadband data from ocean floor and islands. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	9
36	Time–Frequency Characteristics of Tsunami Magnetic Signals from Four Pacific Ocean Events. <i>Pageoph Topical Volumes</i> , 2016, , 3935-3953.	0.2	4

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37	<i>P</i> and <i>S</i> velocity tomography of the Mariana subduction system from a combined land-sea seismic deployment. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 681-704.	1.0	29
38	Tsunami: Ocean dynamo generator. <i>Scientific Reports</i> , 2015, 4, 3596.	1.6	25
39	Detection and characterization of whale signals using seafloor cabled seismic networks offshore Japan. , 2015, , .		3
40	Small size very low frequency earthquakes in the Nankai accretionary prism, following the 2011 Tohoku-Oki earthquake. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 245, 40-51.	0.7	27
41	Aftershocks near the updip end of the 2011 Tohoku-Oki earthquake. <i>Earth and Planetary Science Letters</i> , 2013, 382, 111-116.	1.8	51
42	Small-scale heterogeneities in the oceanic lithosphere inferred from guided waves. <i>Geophysical Research Letters</i> , 2013, 40, 1708-1712.	1.5	42
43	A temporal change of shear wave anisotropy within the marine sedimentary layer associated with the 2011 Tohoku-Oki earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 607-615.	1.4	20
44	Radially anisotropic structure beneath the Shikoku Basin from broadband surface wave analysis of ocean bottom seismometer records. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2878-2892.	1.4	49
45	Finite frequency whole mantle <i>P</i> wave tomography: Improvement of subducted slab images. <i>Geophysical Research Letters</i> , 2013, 40, 5652-5657.	1.5	167
46	TIARES Project—Tomographic investigation by seafloor array experiment for the Society hotspot. <i>Earth, Planets and Space</i> , 2012, 64, i-iv.	0.9	33
47	Tsunamigenic potential of the shallow subduction plate boundary inferred from slow seismic slip. <i>Nature Geoscience</i> , 2012, 5, 414-418.	5.4	134
48	Detection of small earthquakes along the Pacific-Antarctic Ridge from T-waves recorded by abyssal ocean-bottom observatories. <i>Marine Geophysical Researches</i> , 2012, 33, 229-238.	0.5	14
49	Seismogenic characteristics of the Northern Mariana shallow thrust zone from local array data. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	14
50	Long-Range Detection and Location of Shallow Underwater Explosions Using Deep-Sound-Channel Hydrophones. <i>IEEE Journal of Oceanic Engineering</i> , 2011, 36, 703-715.	2.1	17
51	Double seismic zone in the North Mariana region revealed by long-term ocean bottom array observation. <i>Geophysical Journal International</i> , 2010, 183, 1455-1469.	1.0	20
52	Evidence for infragravity wave-tide resonance in deep oceans. <i>Nature Communications</i> , 2010, 1, 84.	5.8	15
53	Shear velocity structure of the Mariana mantle wedge from Rayleigh wave phase velocities. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	14
54	Fast P- and S-wave velocities associated with the cold stagnant slab beneath the northern Philippine Sea. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 179, 1-6.	0.7	6

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55	Anisotropic structures of the upper mantle beneath the northern Philippine Sea region from Rayleigh and Love wave tomography. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 183, 33-43.	0.7	22
56	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?. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 183, 270-279.	0.7	41
57	Review of five years of activity at IFREE /JAMSTEC. <i>JAMSTEC Report of Research and Development</i> , 2009, 9, 2_43-2_94.	0.2	1
58	Calibration of deep sea differential pressure gauge. <i>JAMSTEC Report of Research and Development</i> , 2009, 2009, 141-148.	0.2	12
59	Seismic structure of the upper mantle beneath the Philippine Sea from seafloor and land observation: Implications for mantle convection and magma genesis in the Izu-Bonin-Mariana subduction zone. <i>Earth and Planetary Science Letters</i> , 2009, 278, 107-119.	1.8	38
60	P-wave tomography of the mantle beneath the South Pacific Superswell revealed by joint ocean floor and islands broadband seismic experiments. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 172, 268-277.	0.7	21
61	Physical properties of subducted slab and surrounding mantle in the Izu-Bonin subduction zone based on Broadband Ocean Bottom Seismometer data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	5
62	Seismic attenuation tomography of the Mariana subduction system: Implications for thermal structure, volatile distribution, and slow spreading dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	82
63	South Pacific mantle plumes imaged by seismic observation on islands and seafloor. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	68
64	On the vertical extent of the large low shear velocity province beneath the South Pacific Superswell. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	21
65	Mapping upper mantle flow beneath French Polynesia from broadband ocean bottom seismic observations. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	20
66	An installation experiment with broadband ocean bottom seismometers for reducing low frequency seismic noises.. <i>JAMSTEC Report of Research and Development</i> , 2009, 2009, 131-139.	0.2	2
67	Earthquake evidence for along-arc extension in the Mariana Islands. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	22
68	Topography of the mantle discontinuities beneath the South Pacific superswell as inferred from broadband waveforms on seafloor. <i>Physics of the Earth and Planetary Interiors</i> , 2007, 160, 310-318.	0.7	19
69	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	16
70	Complex mantle flow in the Mariana subduction system: evidence from shear wave splitting. <i>Geophysical Journal International</i> , 2007, 170, 371-386.	1.0	81
71	Depth of the 660-km discontinuity near the Mariana slab from an array of ocean bottom seismographs. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	12
72	Three-dimensional shear wave structure beneath the Philippine Sea from land and ocean bottom broadband seismograms. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	19

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73	Shear wave speed structure beneath the South Pacific superswell using broadband data from ocean floor and islands. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	23
74	High temperature anomalies oceanward of subducting slabs at the 410-km discontinuity. <i>Earth and Planetary Science Letters</i> , 2006, 243, 149-158.	1.8	91
75	Shear-wave splitting in the Mariana trough—a relation between back-arc spreading and mantle flow?. <i>Earth and Planetary Science Letters</i> , 2006, 244, 566-575.	1.8	18
76	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. <i>Tectonophysics</i> , 2006, 426, 95-105.	0.9	69
77	Atmospheric pressure change associated with the 2003 Tokachi-Oki earthquake. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	59
78	Probing South Pacific mantle plumes with ocean bottom seismographs. <i>Eos</i> , 2005, 86, 429.	0.1	32
79	Submarine volcanic activity, ocean-acoustic waves and internal ocean tides. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	9
80	Rayleigh wave phase velocity measurements across the Philippine sea from a broad-band OBS array. <i>Geophysical Journal International</i> , 2004, 158, 257-266.	1.0	16
81	Offshore monitoring system records recent earthquake off Japan's northernmost island. <i>Eos</i> , 2004, 85, 14-14.	0.1	33
82	Source depth dependence of micro-tsunamis recorded with ocean-bottom pressure gauges: the January 28, 2000 Mw 6.8 earthquake off Nemuro Peninsula, Japan. <i>Earth and Planetary Science Letters</i> , 2003, 208, 305-318.	1.8	22
83	Real-time geophysical measurements on the deep seafloor using submarine cable in the southern Kurile subduction zone. <i>IEEE Journal of Oceanic Engineering</i> , 2002, 27, 170-181.	2.1	106
84	Seismic image and its implications for an earthquake swarm at an active volcanic region off the Miyake-jima—Kozu-shima, Japan. <i>Geophysical Research Letters</i> , 2002, 29, 43-1.	1.5	9
85	Detection of shallowest submarine seismicity by acoustic coupled shear waves. <i>Journal of Geophysical Research</i> , 2001, 106, 13485-13499.	3.3	4
86	Volcanic events associated with an enigmatic submarine earthquake. <i>Geophysical Journal International</i> , 2000, 142, 361-370.	1.0	14
87	Anomalously Early First Arrivals to the J-Array from Teleseismic Events.. <i>Journal of Physics of the Earth</i> , 1996, 44, 687-699.	1.4	24