

Koichiro Obana

List of Publications by Year in descending order

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67
papers

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citations

304602

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71
all docs

71
docs citations

71
times ranked

1049
citing authors

#	ARTICLE	IF	CITATIONS
1	Tsunamigenic potential of the shallow subduction plate boundary inferred from slow seismic slip. <i>Nature Geoscience</i> , 2012, 5, 414-418.	5.4	134
2	Low-frequency tremors associated with reverse faults in a shallow accretionary prism. <i>Earth and Planetary Science Letters</i> , 2009, 287, 168-174.	1.8	111
3	Normal faulting earthquakes beneath the outer slope of the Japan Trench after the 2011 Tohoku earthquake: Implications for the stress regime in the incoming Pacific plate. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	91
4	Development of a Slow Earthquake Database. <i>Seismological Research Letters</i> , 2018, 89, 1566-1575.	0.8	58
5	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
6	Detection of hydroacoustic signals on a fiber-optic submarine cable. <i>Scientific Reports</i> , 2021, 11, 2797.	1.6	50
7	Aftershock distribution of the 26 December 2004 Sumatra-Andaman earthquake from ocean bottom seismographic observation. <i>Earth, Planets and Space</i> , 2006, 58, 113-119.	0.9	48
8	Depth-varying structural characters in the rupture zone of the 2011 Tohoku-oki earthquake. , 2017, 13, 1408-1424.		45
9	Micro-seismicity around the seaward updip limit of the 1946 Nankai Earthquake dislocation area. <i>Geophysical Research Letters</i> , 2001, 28, 2333-2336.	1.5	43
10	Urgent aftershock observation of the 2004 off the Kii Peninsula earthquake using ocean bottom seismometers. <i>Earth, Planets and Space</i> , 2005, 57, 363-368.	0.9	42
11	Precise aftershock distribution of the 2007 Chuetsu-oki Earthquake obtained by using an ocean bottom seismometer network. <i>Earth, Planets and Space</i> , 2008, 60, 1121-1126.	0.9	41
12	Seismicity in the incoming/subducting Philippine Sea plate off the Kii Peninsula, central Nankai trough. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	40
13	Imaging of the subducted Kyushu-Palau Ridge in the Hyuga-nada region, western Nankai Trough subduction zone. <i>Tectonophysics</i> , 2013, 589, 90-102.	0.9	36
14	Structural factors controlling the coseismic rupture zone of the 1973 Nemuro-Oki earthquake, the southern Kuril Trench seismogenic zone. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	35
15	Crustal evolution of the southwestern Kuril Arc, Hokkaido Japan, deduced from seismic velocity and geochemical structure. <i>Tectonophysics</i> , 2009, 472, 105-123.	0.9	34
16	Microseismicity around rupture area of the 1944 Tonankai earthquake from ocean bottom seismograph observations. <i>Earth and Planetary Science Letters</i> , 2004, 222, 561-572.	1.8	32
17	Precise aftershock distribution of the 2011 off the Pacific coast of Tohoku Earthquake revealed by an ocean-bottom seismometer network. <i>Earth, Planets and Space</i> , 2012, 64, 1137-1148.	0.9	32
18	Seismic imaging and velocity structure around the JFAST drill site in the Japan Trench: low Vp, high Vp/Vs in the transparent frontal prism. <i>Earth, Planets and Space</i> , 2014, 66, 121.	0.9	32

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19	Seafloor positioning system with GPS-acoustic link for crustal dynamics observation—a preliminary result from experiments in the sea—. Earth, Planets and Space, 2000, 52, 415-423.	0.9	28
20	Distribution of very low frequency earthquakes in the Nankai accretionary prism influenced by a subducting-ridge. Earth and Planetary Science Letters, 2018, 482, 342-356.	1.8	28
21	Inter-plate coupling in the Nicoya Peninsula, Costa Rica, as deduced from a trans-peninsula GPS experiment. Earth and Planetary Science Letters, 2004, 223, 203-212.	1.8	27
22	Structural heterogeneities around the megathrust zone of the 2011 Tohoku earthquake from tomographic inversion of onshore and offshore seismic observations. Journal of Geophysical Research: Solid Earth, 2014, 119, 1165-1180.	1.4	27
23	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
24	Earthquake Activity in Northern Cascadia Subduction Zone Off Vancouver Island Revealed by Ocean-Bottom Seismograph Observations. Bulletin of the Seismological Society of America, 2015, 105, 489-495.	1.1	23
25	Microseismicity at the seaward updip limit of the western Nankai Trough seismogenic zone. Journal of Geophysical Research, 2003, 108, .	3.3	22
26	Three-dimensional P- and S-wave velocity structures beneath Japan. Physics of the Earth and Planetary Interiors, 2008, 168, 49-70.	0.7	22
27	Aftershock observation of the 2011 off the Pacific coast of Tohoku Earthquake by using ocean bottom seismometer network. Earth, Planets and Space, 2011, 63, 835-840.	0.9	22
28	Seismic velocity structure and its implications for oceanic mantle hydration in the trench—outer rise of the Japan Trench. Geophysical Journal International, 2019, 217, 1629-1642.	1.0	22
29	Seismic structure off the Kii Peninsula, Japan, deduced from passive- and active-source seismographic data. Earth and Planetary Science Letters, 2017, 461, 163-175.	1.8	18
30	Ambient seafloor noise excited by earthquakes in the Nankai subduction zone. Nature Communications, 2015, 6, 6132.	5.8	17
31	Three-Dimensional <i>P</i> -Wave Velocity Structure of the Northern Hikurangi Margin From the NZ3D Experiment: Evidence for Fault-Bound Anisotropy. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020433.	1.4	16
32	Three-dimensional plate geometry and P-wave velocity models of the subduction zone in SW Japan: Implications for seismogenesis. , 0, , .		16
33	Seafloor seismometers monitor northern Cascadia earthquakes. Eos, 2011, 92, 421-422.	0.1	15
34	Seismicity in the source areas of the 1896 and 1933 Sanriku earthquakes and implications for large near-trench earthquake faults. Geophysical Journal International, 2018, 212, 2061-2072.	1.0	14
35	Along-arc variation in seismic velocity structure related to variable growth of arc crust in northern Izu-Bonin intraoceanic arc. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	13
36	Aftershocks of the December 7, 2012 intraplate doublet near the Japan Trench axis. Earth, Planets and Space, 2014, 66, .	0.9	12

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37	Deep Investigations of Outer-Rise Tsunami Characteristics Using Well-Mapped Normal Faults Along the Japan Trench. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020060.	1.4	12
38	Correlation of frontal prism structures and slope failures near the trench axis with shallow megathrust slip at the Japan Trench. <i>Scientific Reports</i> , 2020, 10, 11607.	1.6	12
39	Seismicity around the trench axis and outer-rise region of the southern Japan Trench, south of the main rupture area of the 2011 Tohoku-oki earthquake. <i>Geophysical Journal International</i> , 2021, 226, 131-145.	1.0	12
40	Seismicity at the Eastern End of the 1944 Tonankai Earthquake Rupture Area. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 110-122.	1.1	11
41	Seismic structure of the source region of the 2007 Chuetsu-oki earthquake revealed by offshore-onshore seismic survey: Asperity zone of intraplate earthquake delimited by crustal inhomogeneity. <i>Tectonophysics</i> , 2012, 562-563, 34-47.	0.9	11
42	Modeling the Geometry of Plate Boundary and Seismic Structure in the Southern Ryukyu Trench Subduction Zone, Japan, Using Amphibious Seismic Observations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1793-1809.	1.4	11
43	Distribution and migration of aftershocks of the 2010 Mw 7.4 Ogasawara Islands intraplate normal-faulting earthquake related to a fracture zone in the Pacific plate. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1363-1373.	1.0	10
44	Seismic Characteristics of the Nootka Fault Zone: Results from the Seafloor Earthquake Array Japan-Canada Cascadia Experiment (SeaJade). <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 2252-2276.	1.1	10
45	Crosscorrelation of Earthquake Data Using Stationary Phase Evaluation: Insight into Reflection Structures of Oceanic Crust Surface in the Nankai Trough. <i>International Journal of Geophysics</i> , 2012, 1-8.	0.4	9
46	Seismicity and structural heterogeneities around the western Nankai Trough subduction zone, southwestern Japan. <i>Earth and Planetary Science Letters</i> , 2014, 396, 34-45.	1.8	9
47	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
48	Seismicity related to heterogeneous structure along the western Nankai trough off Shikoku Island. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	8
49	Characteristics of deformation structure around the 2007 Niigata-ken Chuetsu-oki earthquake detected by multi-channel seismic reflection imaging. <i>Earth, Planets and Space</i> , 2009, 61, 1111-1115.	0.9	8
50	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
51	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
52	The 3D distribution of random velocity inhomogeneities in southwestern Japan and the western part of the Nankai subduction zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2246-2257.	1.4	7
53	Lateral variation of the uppermost oceanic plate in the outer-rise region of the Northwest Pacific Ocean inferred from Po-to-s converted waves. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	7
54	Random inhomogeneities in the northern Izu-Bonin arc estimated by tomographic inversion of peak delay times of S-wave seismograms. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	6

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55	Super-deep-sea ocean bottom seismometers using ceramic spheres. , 2013, , .		6
56	<i>S</i> wave attenuation structure on the western side of the Nankai subduction zone: Implications for fluid distribution and dynamics. Journal of Geophysical Research: Solid Earth, 2014, 119, 7805-7822.	1.4	6
57	Overview of the Drilling Project on the Bend-fault Hydrology in Old Incoming Plate. Journal of Geography (Chigaku Zasshi), 2017, 126, 247-262.	0.1	6
58	Extraction of <i>P</i> Wave From Ambient Seafloor Noise Observed by Distributed Acoustic Sensing. Geophysical Research Letters, 2022, 49, .	1.5	6
59	Fracture Alignments in Marine Sediments Off Vancouver Island from PsSplitting Analysis. Bulletin of the Seismological Society of America, 2017, 107, 387-402.	1.1	5
60	Significant geometric variation of the subducted plate beneath the northernmost Cascadia subduction zone and its tectonic implications as revealed by the 2014 M 6.4 earthquake sequence. Earth and Planetary Science Letters, 2020, 551, 116569.	1.8	5
61	High-Density Seismic Refraction Imaging of Plate-Boundary Structures in the Slow Earthquake Gap Zone off Western Kii Peninsula, Nankai Trough. Geophysical Research Letters, 2021, 48, e2020GL089132.	1.5	4
62	Plate geometry model and seismicity in the northern Ryukyu subduction zone, Japan, deduced from amphibious seismic observations. Earth and Planetary Science Letters, 2020, 536, 116143.	1.8	3
63	Sea-floor positioning with global positioning system-acoustic link system. Island Arc, 1999, 8, 245-258.	0.5	1
64	S-wave attenuation structure beneath the northern Izu-Bonin arc. Earth, Planets and Space, 2016, 68, .	0.9	1
65	Crustal Structure and Urgent Aftershock Observation of the 2004 Off Kii-Peninsula Earthquake. Zisin (Journal of the Seismological Society of Japan 2nd Ser), 2006, 59, 187-197.	0.0	1
66	Trans-dimensional imaging of the random inhomogeneity structure in the southern Ryukyu arc, Japan. Geophysical Journal International, 2022, 229, 1392-1407.	1.0	1
67	Seismic survey using Ultra-Deep OBS in the Japan Trench axis area. , 2013, , .		0