Satoshi Ide

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7211367/publications.pdf

Version: 2024-02-01

119 papers	8,618 citations	61977 43 h-index	45310 90 g-index
124 all docs	124 docs citations	124 times ranked	3517 citing authors

#	Article	IF	Citations
1	Potential applicability and limitations of radiation-corrected empirical Green's functions for point-source cases. Geophysical Journal International, 2022, 229, 800-813.	2.4	1
2	Very broadband strain-rate measurements along a submarine fiber-optic cable off Cape Muroto, Nankai subduction zone, Japan. Earth, Planets and Space, 2021, 73, .	2.5	28
3	Shallow slow earthquakes to decipher future catastrophic earthquakes in the Guerrero seismic gap. Nature Communications, 2021, 12, 3976.	12.8	19
4	Hypocenter Hotspots Illuminated Using a New Crossâ€Correlationâ€Based Hypocenter and Centroid Relocation Method. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021991.	3.4	4
5	Empirical Lowâ€Frequency Earthquakes Synthesized From Tectonic Tremor Records. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	6
6	Influence of a Subducted Oceanic Ridge on the Distribution of Shallow VLFEs in the Nankai Trough as Revealed by Moment Tensor Inversion and Cluster Analysis. Geophysical Research Letters, 2020, 47, e2020GL087244.	4.0	11
7	Bridging the gap between low-frequency and very-low-frequency earthquakes. Earth, Planets and Space, 2020, 72, .	2.5	25
8	Toward comparable relative locations between the mainshock slip and aftershocks via empirical approaches. Earth, Planets and Space, 2020, 72, .	2.5	5
9	Two-Dimensional Probabilistic Cell Automaton Model for Broadband Slow Earthquakes. Pure and Applied Geophysics, 2019, 176, 1021-1036.	1.9	17
10	The slow earthquake spectrum in the Japan Trench illuminated by the S-net seafloor observatories. Science, 2019, 365, 808-813.	12.6	127
11	Detection of Lowâ€Frequency Earthquakes in Broadband Random Time Sequences: Are They Independent Events?. Journal of Geophysical Research: Solid Earth, 2019, 124, 8611-8625.	3.4	12
12	Empirical relocation of large subduction-zone earthquakes via the teleseismic network correlation coefficient method. Earth, Planets and Space, 2019, 71, .	2.5	2
13	Development of a modified envelope correlation method based on maximum-likelihood method and application to detecting and locating deep tectonic tremors in western Japan. Earth, Planets and Space, 2019, 71, .	2.5	9
14	Ambient tectonic tremors in Manawatu, Cape Turnagain, Marlborough, and Puysegur, New Zealand. Earth, Planets and Space, 2019, 71, .	2.5	9
15	Frequent observations of identical onsets of large and small earthquakes. Nature, 2019, 573, 112-116.	27.8	47
16	Event Size Distribution of Shallow Tectonic Tremor in the Nankai Trough. Geophysical Research Letters, 2019, 46, 5828-5836.	4.0	19
17	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, , .	1.9	4
18	Ordinary and Slow Earthquakes Reproduced in a Simple Continuum System With Stochastic Temporal Stress Fluctuations. Geophysical Research Letters, 2019, 46, 14347-14357.	4.0	3

#	Article	IF	Citations
19	Slow Earthquakes in the Microseism Frequency Band (0.1â€“1.0 Hz) off Kii Peninsula, Japan. Geophysical Research Letters, 2018, 45, 2618-2624.	4.0	43
20	Seismic Moment, Seismic Energy, and Source Duration of Slow Earthquakes: Application of Brownian slow earthquake model to three major subduction zones. Geophysical Research Letters, 2018, 45, 3059-3067.	4.0	26
21	Spatiotemporal Variations in Slow Earthquakes Along the Mexican Subduction Zone. Journal of Geophysical Research: Solid Earth, 2018, 123, 1559-1575.	3.4	27
22	Shallow very-low-frequency earthquakes accompany slow slip events in the Nankai subduction zone. Nature Communications, 2018, 9, 984.	12.8	96
23	A Seismogeodetic Amphibious Network in the Guerrero Seismic Gap, Mexico. Seismological Research Letters, 2018, 89, 1435-1449.	1.9	18
24	Development of a Slow Earthquake Database. Seismological Research Letters, 2018, 89, 1566-1575.	1.9	58
25	Streak and hierarchical structures of the Tohokuâ€“Hokkaido subduction zone plate boundary. Earth, Planets and Space, 2018, 70, .	2.5	10
26	Hierarchical rupture growth evidenced by the initial seismic waveforms. Nature Communications, 2018, 9, 3714.	12.8	25
27	Recurring Slow Slip Events and Earthquake Nucleation in the Source Region of the MÂ7 Ibarakiâ€Oki Earthquakes Revealed by Earthquake Swarm and Foreshock Activity. Journal of Geophysical Research: Solid Earth, 2018, 123, 7950-7968.	3.4	29
28	Why Do Aftershocks Occur Within the Rupture Area of a Large Earthquake?. Geophysical Research Letters, 2018, 45, 4780-4787.	4.0	16
29	Tidal Modulation and Tectonic Implications of Tremors in Taiwan. Journal of Geophysical Research: Solid Earth, 2018, 123, 5945-5964.	3.4	18
30	Variations in precursory slip behavior resulting from frictional heterogeneity. Progress in Earth and Planetary Science, 2018, 5, .	3.0	17
31	Recurring and triggered slow-slip events near the trench at the Nankai Trough subduction megathrust. Science, 2017, 356, 1157-1160.	12.6	222
32	Detection of earthquake swarms at subduction zones globally: Insights into tectonic controls on swarm activity. Journal of Geophysical Research: Solid Earth, 2017, 122, 5325-5343.	3.4	32
33	Resolving the Detailed Spatiotemporal Slip Evolution of Deep Tremor in Western Japan. Journal of Geophysical Research: Solid Earth, 2017, 122, 10,009.	3.4	13
34	Slipâ€behavior transitions of a heterogeneous linear fault. Journal of Geophysical Research: Solid Earth, 2017, 122, 387-410.	3.4	27
35	Role of multiscale heterogeneity in fault slip from quasi-static numerical simulations. Earth, Planets and Space, 2017, 69, .	2.5	4
36	Mathematical review on source-type diagrams. Earth, Planets and Space, 2016, 68, .	2.5	12

#	Article	IF	Citations
37	Comparative study of tectonic tremor locations: Characterization of slow earthquakes in Guerrero, Mexico. Journal of Geophysical Research: Solid Earth, 2016, 121, 5136-5151.	3.4	29
38	Earthquake potential revealed by tidal influence on earthquake sizeâ€“frequency statistics. Nature Geoscience, 2016, 9, 834-837.	12.9	81
39	Characteristics of slow earthquakes in the very low frequency band: Application to the Cascadia subduction zone. Journal of Geophysical Research: Solid Earth, 2016, 121, 5942-5952.	3.4	27
40	Background seismicity rate at subduction zones linked to slabâ€bendingâ€related hydration. Geophysical Research Letters, 2015, 42, 7081-7089.	4.0	19
41	Thrustâ€type focal mechanisms of tectonic tremors in Taiwan: Evidence of subduction. Geophysical Research Letters, 2015, 42, 3248-3256.	4.0	21
42	Tidal sensitivity of tectonic tremors in Nankai and Cascadia subduction zones. Journal of Geophysical Research: Solid Earth, 2015, 120, 7587-7605.	3.4	30
43	An estimate of tidal and non-tidal modulations of plate subduction speed in the transition zone in the Tokai district. Earth, Planets and Space, 2015, 67, .	2.5	7
44	Slip Inversion. , 2015, , 215-241.		12
45	Spatiotemporal slip distributions of three long-term slow slip events beneath the Bungo Channel, southwest Japan, inferred from inversion analyses of GPS data. Geophysical Journal International, 2015, 201, 1437-1455.	2.4	50
46	Along-strike variations in temperature and tectonic tremor activity along the Hikurangi subduction zone, New Zealand. Earth, Planets and Space, 2014, 66, .	2.5	21
47	Regional and global variations in the temporal clustering of tectonic tremor activity. Earth, Planets and Space, 2014, 66, .	2.5	64
48	Earthquake size distribution in subduction zones linked to slab buoyancy. Nature Geoscience, 2014, 7, 904-908.	12.9	91
49	Controls on plate motion by oscillating tidal stress: Evidence from deep tremors in western Japan. Geophysical Research Letters, 2014, 41, 3842-3850.	4.0	47
50	Seismic-Wave Attenuation Determined from Tectonic Tremor in Multiple Subduction Zones. Bulletin of the Seismological Society of America, 2014, 104, 2043-2059.	2.3	15
51	Radiated Energy of Great Earthquakes from Teleseismic Empirical Greenâ€™s Function Deconvolution. Pure and Applied Geophysics, 2014, 171, 2841-2862.	1.9	20
52	Ground motions characterized by a multi-scale heterogeneous earthquake model. Earth, Planets and Space, 2014, 66, .	2.5	11
53	Modeling fast and slow earthquakes at various scales. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2014, 90, 259-277.	3.8	26
54	Universality of slow earthquakes in the very low frequency band. Geophysical Research Letters, 2014, 41, 2786-2793.	4.0	57

#	Article	IF	Citations
55	Earthquake model experiments in a viscoelastic fluid: A scaling of decreasing magnitudes of earthquakes with depth. Journal of Geophysical Research: Solid Earth, 2014, 119, 3169-3181.	3.4	12
56	Focal mechanisms of deep lowâ€frequency earthquakes in Eastern Shimane in Western Japan. Journal of Geophysical Research: Solid Earth, 2014, 119, 364-377.	3.4	15
57	Spatial distribution of seismic energy rate of tectonic tremors in subduction zones. Journal of Geophysical Research: Solid Earth, 2014, 119, 8171-8185.	3.4	44
58	Modeling Earthquakes Using Fractal Circular Patch Models with Lessons from the 2011 Tohoku-Oki Earthquake. Journal of Disaster Research, 2014, 9, 264-271.	0.7	5
59	Tectonic, volcanic, and semi-volcanic deep low-frequency earthquakes in western Japan. Tectonophysics, 2013, 600, 27-40.	2.2	54
60	The proportionality between relative plate velocity and seismicity in subduction zones. Nature Geoscience, 2013, 6, 780-784.	12.9	43
61	Historical seismicity and dynamic rupture process of the 2011 Tohoku-Oki earthquake. Tectonophysics, 2013, 600, 1-13.	2.2	31
62	Repeating deep tremors on the plate interface beneath Kyushu, southwest Japan. Earth, Planets and Space, 2013, 65, 17-23.	2.5	15
63	Variety and spatial heterogeneity of tectonic tremor worldwide. Journal of Geophysical Research, 2012, 117, .	3.3	118
64	Precise hypocenter distribution of deep low-frequency earthquakes and its relationship to the local geometry of the subducting plate in the Nankai subduction zone, Japan. Journal of Geophysical Research, 2011, 116, .	3.3	27
65	Generation mechanism of slow earthquakes: Numerical analysis based on a dynamic model with brittle-ductile mixed fault heterogeneity. Journal of Geophysical Research, 2011, 116, .	3.3	60
66	Variability in earthquake stress drop and apparent stress. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	149
67	Volcanic-like low-frequency earthquakes beneath Osaka Bay in the absence of a volcano. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	27
68	Slow Earthquakes and Nonvolcanic Tremor. Annual Review of Earth and Planetary Sciences, 2011, 39, 271-296.	11.0	380
69	Numerical study of splay faults in subduction zones: The effects of bimaterial interface and free surface. Journal of Geophysical Research, 2011, 116, .	3.3	19
70	Shallow Dynamic Overshoot and Energetic Deep Rupture in the 2011 M _w 9.0 Tohoku-Oki Earthquake. Science, 2011, 332, 1426-1429.	12.6	548
71	Conceptual multi-scale dynamic rupture model for the 2011 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 761-765.	2.5	22
72	Statistic analysis of swarm activities around the Boso Peninsula, Japan: Slow slip events beneath Tokyo Bay?. Earth, Planets and Space, 2011, 63, 419-426.	2.5	21

#	Article	IF	Citations
73	Striations, duration, migration and tidal response in deep tremor. Nature, 2010, 466, 356-359.	27.8	172
74	Quantifying the time function of nonvolcanic tremor based on a stochastic model. Journal of Geophysical Research, 2010, 115, .	3.3	27
75	Scaling of earthquake rupture growth in the Parkfield area: Selfâ€similar growth and suppression by the finite seismogenic layer. Journal of Geophysical Research, 2010, 115, .	3.3	39
76	Split Philippine Sea plate beneath Japan. Geophysical Research Letters, 2010, 37, .	4.0	52
77	Scaling Relations for Earthquake Source Process. Zisin (Journal of the Seismological Society of Japan) Tj ETQq1 1 0.784314 rgBT /Over	0.2	1
78	Deep Tremors and Slow Quakes. Science, 2009, 324, 1025-1026.	12.6	38
79	Deep lowâ€frequency earthquakes in tremor localize to the plate interface in multiple subduction zones. Geophysical Research Letters, 2009, 36, .	4.0	163
80	Dynamic highâ€speed rupture from the onset of the 2004 Parkfield, California, earthquake. Geophysical Research Letters, 2009, 36, .	4.0	9
81	Complexity in earthquake sequences controlled by multiscale heterogeneity in fault fracture energy. Journal of Geophysical Research, 2009, 114, .	3.3	21
82	Bridging the gap between seismically and geodetically detected slow earthquakes. Geophysical Research Letters, 2008, 35, .	4.0	99
83	A Brownian walk model for slow earthquakes. Geophysical Research Letters, 2008, 35, .	4.0	79
84	A precise hypocenter determination method using network correlation coefficients and its application to deep low-frequency earthquakes. Earth, Planets and Space, 2008, 60, 877-882.	2.5	20
85	Limitation of the Predominant-Period Estimator for Earthquake Early Warning and the Initial Rupture of Earthquakes. Bulletin of the Seismological Society of America, 2008, 98, 2739-2745.	2.3	20
86	Slip Inversion. , 2007, , 193-223.		13
87	Dynamic rupture propagation on a 2D fault with fractal frictional properties. Earth, Planets and Space, 2007, 59, 1099-1109.	2.5	5
88	Mechanism of deep low frequency earthquakes: Further evidence that deep non-volcanic tremor is generated by shear slip on the plate interface. Geophysical Research Letters, 2007, 34, .	4.0	264
89	Development of multiscale slip inversion method and its application to the 2004 mid-Niigata Prefecture earthquake. Journal of Geophysical Research, 2007, 112, .	3.3	30
90	Stress drops and radiated seismic energies of microearthquakes in a South African gold mine. Journal of Geophysical Research, 2007, 112, .	3.3	94

#	Article	IF	Citations
91	Complex evolution of transient slip derived from precise tremor locations in western Shikoku, Japan. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	178
92	Non-volcanic tremor and low-frequency earthquake swarms. Nature, 2007, 446, 305-307.	27.8	771
93	A scaling law for slow earthquakes. Nature, 2007, 447, 76-79.	27.8	596
94	Low-frequency earthquakes in Shikoku, Japan, and their relationship to episodic tremor and slip. Nature, 2006, 442, 188-191.	27.8	695
95	Measurements of spectral similarity for microearthquakes in western Nagano, Japan. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	31
96	High-resolution subduction zone seismicity and velocity structure beneath Ibaraki Prefecture, Japan. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	38
97	Radiation efficiency and apparent stress of small earthquakes in a South African gold mine. Journal of Geophysical Research, 2005, 110, .	3.3	57
98	Earthquakes as multiscale dynamic ruptures with heterogeneous fracture surface energy. Journal of Geophysical Research, 2005, 110, .	3.3	132
99	Correction to â€œRadiation efficiency and apparent stress of small earthquakes in a South African gold mineâ€• Journal of Geophysical Research, 2005, 110, .	3.3	8
100	Imaging earthquake source complexity. Geophysical Monograph Series, 2005, , 117-135.	0.1	12
101	Source Process of the Chi-Chi Earthquake: A Joint Inversion of Strong Motion Data and Global Positioning System Data with a Multifault Model. Bulletin of the Seismological Society of America, 2004, 91, 1128-1143.	2.3	90
102	High-resolution subducting-slab structure beneath northern Honshu, Japan, revealed by double-difference tomography. Geology, 2004, 32, 361.	4.4	131
103	Exploitation of high-sampling Hi-net data to study seismic energy scaling: The aftershocks of the 2000 Western Tottori, Japan, earthquake. Earth, Planets and Space, 2004, 56, 859-871.	2.5	16
104	Joint inversion of strong motion and geodetic data for the source process of the 2003 Tokachi-oki, Hokkaido, earthquake. Earth, Planets and Space, 2004, 56, 329-334.	2.5	92
105	S-wave energy estimation of small-earthquakes in the western Nagano region, Japan. Geophysical Research Letters, 2004, 31, .	4.0	12
106	Numerical study on multi-scaling earthquake rupture. Geophysical Research Letters, 2004, 31, .	4.0	28
107	Apparent break in earthquake scaling due to path and site effects on deep borehole recordings. Journal of Geophysical Research, 2003, 108, .	3.3	224
108	Estimation of Radiated Energy of Finite-Source Earthquake Models. Bulletin of the Seismological Society of America, 2002, 92, 2994-3005.	2.3	56

#	Article	IF	Citations
109	Evolution mechanisms of an earthquake swarm under the Hida Mountains, central Japan, in 1998. Journal of Geophysical Research, 2002, 107, ESE 8-1.	3.3	21
110	Does apparent stress vary with earthquake size?. Geophysical Research Letters, 2001, 28, 3349-3352.	4.0	396
111	Complex source processes and the interaction of moderate earthquakes during the earthquake swarm in the Hida-Mountains, Japan, 1998. Tectonophysics, 2001, 334, 35-54.	2.2	47
112	Source process of the 1997 Yamaguchi, Japan, earthquake analyzed in different frequency bands. Geophysical Research Letters, 1999, 26, 1973-1976.	4.0	30
113	Determination of constitutive relations of fault slip based on seismic wave analysis. Journal of Geophysical Research, 1997, 102, 27379-27391.	3.3	326
114	The dynamic rupture process of the 1993 Kushiro-oki earthquake. Journal of Geophysical Research, 1996, 101, 5661-5675.	3.3	52
115	Source Model of the 1995 Hyogo-ken Nanbu Earthquake Determined by Near-field Strong-motion Records.. Journal of Physics of the Earth, 1996, 44, 649-653.	1.4	10
116	Source characteristics of the Nicaraguan Tsunami Earthquake of September 2, 1992. Geophysical Research Letters, 1993, 20, 863-866.	4.0	76
117	Estimate of the tsunami source of the 1992 Nicaraguan Earthquake from tsunami data. Geophysical Research Letters, 1993, 20, 1515-1518.	4.0	54
118	The 1993 Kushiroâ€Oki, Japan, Earthquake: A high stressâ€drop event in a subducting slab. Geophysical Research Letters, 1993, 20, 2607-2610.	4.0	34
119	Thank You to Our 2021 Peer Reviewers. Journal of Geophysical Research: Solid Earth, 0, , .	3.4	0