Hiromi Fujimoto

List of Publications by Year in descending order

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68 papers	2,243 citations	331538 21 h-index	214721 47 g-index
68 all docs	68 docs citations	68 times ranked	1854 citing authors

#	Article	IF	Citations
1	Episodic slow slip events in the Japan subduction zone before the 2011 Tohoku-Oki earthquake. Tectonophysics, 2013, 600, 14-26.	0.9	303
2	Frontal wedge deformation near the source region of the 2011 Tohoku-Oki earthquake. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	232
3	Prevalence of viscoelastic relaxation after the 2011 Tohoku-oki earthquake. Nature, 2014, 514, 84-87.	13.7	223
4	Quasi realâ€time fault model estimation for nearâ€field tsunami forecasting based on RTKâ€GPS analysis: Application to the 2011 Tohokuâ€Oki earthquake (M_w 9.0). Journal of Geophysical Research, 2012, 117, .	3.3	192
5	Nearâ€field tsunami forecasting from cabled ocean bottom pressure data. Journal of Geophysical Research, 2009, 114, .	3.3	116
6	Melt supply variations to a magma-poor ultra-slow spreading ridge (Southwest Indian Ridge 61Â° to) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.0	95
7	Tsunami waveform inversion incorporating permanent seafloor deformation and its application to tsunami forecasting. Journal of Geophysical Research, 2012, 117, .	3.3	92
8	The interaction of viscous heating with grain-size dependent rheology in the formation of localized slip zones. Geophysical Research Letters, 1997, 24, 2523-2526.	1.5	88
9	Relict hydrothermal events along the super-slow Southwest Indian spreading ridge near 63Â°56â€²Eâ€”mineralogy, chemistry and chronology of sulfide samples. Chemical Geology, 2001, 177, 341-349.	1.4	80
10	Seafloor displacement at Kumano-nada caused by the 2004 off Kii Peninsula earthquakes, detected through repeated GPS/Acoustic surveys. Earth, Planets and Space, 2006, 58, 911-915.	0.9	69
11	Geodetic constraints on afterslip characteristics following the March 9, 2011, Sanrikuâ€oki earthquake, Japan. Geophysical Research Letters, 2012, 39, .	1.5	68
12	Potential tsunamigenic faults of the 2011 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 831-834.	0.9	67
13	Focused magmatism versus amagmatic spreading along the ultra-slow spreading Southwest Indian Ridge: Evidence from TOBI side scan sonar imagery. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	1.0	59
14	Interaction of the upwelling plume with the phase and chemical boundary at the 670 km discontinuity: Effects of temperature-dependent viscosity. Earth and Planetary Science Letters, 1994, 121, 369-384.	1.8	50
15	Estimation and correction for the effect of sound velocity variation on GPS/Acoustic seafloor positioning: An experiment off Hawaii Island. Earth, Planets and Space, 2003, 55, e17-e20.	0.9	42
16	Temporal variation of sound speed in ocean: a comparison between GPS/acoustic and in situ measurements. Earth, Planets and Space, 2008, 60, 229-234.	0.9	41
17	Three-dimensional magnetic and gravity studies of the Rodriguez Triple Junction in the Indian Ocean. Journal of Geophysical Research, 1996, 101, 15837-15848.	3.3	31
18	A global barotropic ocean model driven by synoptic atmospheric disturbances for detecting seafloor vertical displacements from in situ ocean bottom pressure measurements. Marine Geophysical Researches, 2012, 33, 127-148.	0.5	29

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19	Seismicity near the hypocenter of the 2011 off the Pacific coast of Tohoku earthquake deduced by using ocean bottom seismographic data. Earth, Planets and Space, 2012, 64, 1125-1135.	0.9	26
20	Reevaluation of the viscoelastic and elastic responses to the past and present-day ice changes in Southeast Alaska. Tectonophysics, 2011, 511, 79-88.	0.9	24
21	Ocean bottom pressure variations in the southeastern Pacific following the 1997â€“98 El NiÃ±o event. Geophysical Research Letters, 2003, 30, .	1.5	23
22	Development of instruments for seafloor geodesy. Earth, Planets and Space, 1998, 50, 905-911.	0.9	22
23	Geophysical observations around the northern Yap Trench: seismicity, gravity and heat flow. Tectonophysics, 1989, 163, 93-104.	0.9	21
24	Seafloor Geodetic Approaches to Subduction Thrust Earthquakes. Monographs on Environment Earth and Planets, 2014, 2, 23-63.	9.0	20
25	Gravity and uplift rates observed in southeast Alaska and their comparison with GIA model predictions. Journal of Geophysical Research, 2012, 117, .	3.3	19
26	Progress in the Project for Development of GPS/Acoustic Technique Over the Last 4 Years. International Association of Geodesy Symposia, 2015, , 3-10.	0.2	19
27	Gravity anomalies in the western Pacific and geophysical interpretation of their origin.. Journal of Physics of the Earth, 1981, 29, 387-419.	1.4	18
28	A thermo-chemical regime in the upper mantle in the early Earth inferred from a numerical model of magma-migration in a convecting upper mantle. Physics of the Earth and Planetary Interiors, 1996, 94, 187-215.	0.7	16
29	Development of an underwater gravity measurement system using autonomous underwater vehicle for exploration of seafloor deposits. , 2015, , .		14
30	High-resolution gravity measurement aboard an autonomous underwater vehicle. Geophysics, 2018, 83, G119-G135.	1.4	14
31	A three-dimensional gravity study of the Rodrigues Triple Junction and Southeast Indian Ridge. Earth and Planetary Science Letters, 1995, 133, 175-184.	1.8	12
32	A long-term seafloor experiment using an acoustic ranging system: Precise horizontal distance measurements for detection of seafloor crustal deformation. Ocean Engineering, 2012, 51, 28-33.	1.9	11
33	Lithospheric thickness anomaly near the trench and possible driving force of subduction. Tectonophysics, 1985, 112, 103-110.	0.9	10
34	Is the oceanic crust over 1 km necessary for the source of marine magnetic anomalies?. Physics of the Earth and Planetary Interiors, 1987, 49, 117-120.	0.7	10
35	Accurate ocean tide modeling in southeast Alaska and large tidal dissipation around Glacier Bay. Journal of Oceanography, 2009, 65, 335-347.	0.7	10
36	Continuous Long-Term Seafloor Pressure Observation for Detecting Slow-Slip Interplate Events in Miyagi-Oki on the Landward Japan Trench Slope. Journal of Disaster Research, 2009, 4, 72-82.	0.4	9

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37	Development of a seafloor acoustic ranging system toward the seafloor cable network system. Ocean Engineering, 2008, 35, 1401-1405.	1.9	8
38	Seafloor Acoustic Ranging and the Effect of Temperature Variation. International Association of Geodesy Symposia, 1997, , 690-695.	0.2	8
39	Development of an underwater gravimeter and the first observation by using autonomous underwater vehicle. , 2013, , .		7
40	Development of an underwater gravity measurement system with autonomous underwater vehicle for marine mineral exploration. , 2016, , .		7
41	Thickness difference of the lithosphere at the fracture zone and horizontal driving force of the plate.. Journal of Physics of the Earth, 1983, 31, 173-181.	1.4	5
42	Installation of ocean bottom bases for observation of seafloor crustal movement. Marine Geodesy, 1990, 14, 177-184.	0.9	4
43	Underwater positioning by longâ€baseline acoustic navigation system and relocation of transponders. Marine Geodesy, 1988, 12, 201-219.	0.9	3
44	Application of Cabled Offshore Ocean Bottom Tsunami Gauge Data for Real-Time Tsunami Forecasting. , 2007, , .		3
45	Investigation on the Postseismic Deformation Associated with the 2011 Tohoku Earthquake Based on Terrestrial and Seafloor Geodetic Observations: To Evaluate the Further Seismic Hazard Potential on the Plate Interface Beneath the Northeastern Japanese Islands. International Association of Geodesy Symposia, 2015, , 459-466.	0.2	3
46	Application of Phase-Only Correlation to Travel-Time Determination in GNSS-Acoustic Positioning. Frontiers in Earth Science, 2021, 9, .	0.8	3
47	Gravity anomalies in the Northwestern Pacific and their geophysical interpretation.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1981, 57, 359-361.	1.6	2
48	Evaluation and correction of loranâ€€ positions from comparison with GPS data. Marine Geodesy, 1987, 11, 221-230.	0.9	2
49	Long-Term Stability of Acoustic Benchmarks Deployed on Thick Sediment for GPS/Acoustic Seafloor Positioning. Modern Approaches in Solid Earth Sciences, 2011, , 263-272.	0.1	2
50	Thickness Anomalies of the Lithosphere, Driving Force of Subduction and Accretion Tectonics. , 1985, , 43-58.		2
51	Ocean bottom proton magnetometer (design and test).. Journal of Geomagnetism and Geoelectricity, 1981, 33, 335-339.	0.8	2
52	A compact on-line data processing system for the Tokyo Surface Ship Gravity Meter.. Journal of Physics of the Earth, 1985, 33, 45-58.	1.4	1
53	On the sensitivity characteristics of Lacoste & Romberg gravimeter (model G). Bulletin Geodesique, 1985, 59, 55-67.	0.4	1
54	Installation of Ocean Bottom Observation Station by Means of Underwater Acoustic Positioning. Zisin (Journal of the Seismological Society of Japan 2nd Ser), 1988, 41, 583-589.	0.0	1

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55	Stress Fields in Slabs Penetrating into the Lower Mantle, and Rheology and Composition of the Lower Mantle.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1994, 70, 19-24.	1.6	1
56	Upper Mantle Structure Beneath the Japan Trench and Tohoku Arc Viewed from Mantle Bouguer Anomalies.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1996, 72, 57-61.	1.6	1
57	Toward Semi-real-time GPS/A Seafloor Positioning with a Moored Buoy. , 2007, , .		1
58	Interaction of the Upwelling Plume with the Phase and Chemical Boundaries. (2). Effects of the Pressure-Dependent Viscosity.. Journal of Geomagnetism and Geoelectricity, 1994, 46, 587-602.	0.8	1
59	Free-air anomalies in the western Pacific from the viewpoint of wave number spectrum. Marine Geophysical Researches, 1984, 7, 209-214.	0.5	0
60	Seismic velocity structure and gravity anomalies: a comparison. Tectonophysics, 1987, 140, 115-120.	0.9	0
61	Deep Structure of Seamount of Younger Age Inferred from Gravity Anomaly.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1996, 72, 39-43.	1.6	0
62	Observation of Seafloor Crustal Movements. Zisin (Journal of the Seismological Society of Japan 2nd) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	0
63	Potential Tsunamigenic Faults of the 2011 Tohoku Earthquake in the Frontal Wedge. , 2011, , .		0
64	Gravity anomalies and sub-bottom structure of the Guyot.. Journal of Physics of the Earth, 1981, 29, 377-386.	1.4	0
65	Determination of the geomagnetic daily variation in total force on board a ship.. Journal of Geomagnetism and Geoelectricity, 1982, 34, 241-244.	0.8	0
66	Free-Air Anomalies in the Western Pacific from the Viewpoint of Wave Number Spectrum. , 1984, , 209-214.		0
67	Geophysics of the Pacific Basin. , 1988, , 483-624.		0
68	Why do the patterns of geoidal undulation and those of free-air anomalies in the northwestern Pacific look alike?. Journal of Physics of the Earth, 1983, 31, 271-280.	1.4	0