Hironori Kawakata

List of Publications by Year
in descending order

38	828	516710 16	501196 28
papers	citations	h-index	g-index

39	39	39	623
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Source parameter estimation of acoustic emissions induced by hydraulic fracturing in the laboratory. Geophysical Journal International, 2022, 231, 408-425.	2.4	3
2	Development of a laboratory monitoring system for elastic waves transmitted through sand under dry and nearly saturated conditions. Earth, Planets and Space, 2021, 73, .	2.5	0
3	Preparatory acoustic emission activity of hydraulic fracture in granite with various viscous fluids revealed by deep learning technique. Geophysical Journal International, 2021, 226, 493-510.	2.4	9
4	Two end-member earthquake preparations illuminated by foreshock activity on a meter-scale laboratory fault. Nature Communications, 2021, 12, 4302.	12.8	26
5	Tensile-dominant fractures observed in hydraulic fracturing laboratory experiment using eagle ford shale. Geophysical Journal International, 2020, 222, 769-780.	2.4	12
6	Moment tensor analysis of acoustic emissions induced by laboratory-based hydraulic fracturing in granite. Geophysical Journal International, 2019, 216, 1507-1516.	2.4	18
7	Rupture preparation process controlled by surface roughness on meter-scale laboratory fault. Tectonophysics, 2018, 733, 193-208.	2.2	27
8	Monitoring hydraulically-induced fractures in the laboratory using acoustic emissions and the fluorescent method. International Journal of Rock Mechanics and Minings Sciences, 2018, 104, 53-63.	5.8	35
9	Strain rate effect on fault slip and rupture evolution: Insight from meter-scale rock friction experiments. Tectonophysics, 2018, 733, 209-231.	2.2	45
10	Spatiotemporal complexity of 2-D rupture nucleation process observed by direct monitoring during large-scale biaxial rock friction experiments. Tectonophysics, 2018, 733, 182-192.	2.2	21
11	Unexpectedly frequent occurrence of very small repeating earthquakes (â^'5.1â€‰â‰€â€‰M_wâ€‰â‰€â€‰â^'3.6) in a South African gold mine: Implications for monitoring intraplate faults. Journal of Geophysical Research: Solid Earth, 2015, 120, 8478-8493.	3.4	16
12	Quasiâ€static slip patch growth to 20â€‰m on a geological fault inferred from acoustic emissions in a South African gold mine. Journal of Geophysical Research: Solid Earth, 2015, 120, 1692-1707.	3.4	14
13	Nucleation process of an M2 earthquake in a deep gold mine in South Africa inferred from onâ€fault foreshock activity. Journal of Geophysical Research: Solid Earth, 2015, 120, 5574-5594.	3.4	23
14	Scale dependence of rock friction at high work rate. Nature, 2015, 528, 254-257.	27.8	48
15	Steady activity of microfractures on geological faults loaded by mining stress. Tectonophysics, 2015, 649, 100-114.	2.2	25
16	Delineation of large localized damage structures forming ahead of an active mining front by using advanced acoustic emission mapping techniques. International Journal of Rock Mechanics and Minings Sciences, 2015, 79, 157-165.	5.8	19
17	Frequencyâ€“Magnitude Distribution of â^'3.7Ââ‰ÂM W Ââ‰Â1 Mining-Induced Earthquakes Around a Mining Front and b Value Invariance with Post-Blast Time. Pure and Applied Geophysics, 2014, 171, 2665-2684.	1.9	25
18	Magnitude â^'7 level earthquakes: A new lower limit of selfâ€similarity in seismic scaling relationships. Geophysical Research Letters, 2014, 41, 4495-4502.	4.0	53

#	Article	IF	Citations
19	High Resolution Spatial Distribution of the Velocity Discontinuities in and around the Swarm Region beneath the Wakayama District, Southwest Japan. Bulletin of the Seismological Society of America, 2013, 103, 2135-2141.	2.3	2
20	Spatio-temporal occurrence patterns among the foreshocks preceding the 2007 Noto Hanto earthquake. Earth, Planets and Space, 2013, 65, 1053-1058.	2.5	2
21	A nonâ€accelerating foreshock sequence followed by a short period of quiescence for a large inland earthquake. Geophysical Research Letters, 2012, 39, .	4.0	12
22	Temporal changes in attenuation ofSwaves through a fault zone in a South African gold mine. Geophysical Journal International, 2012, , no-no.	2.4	2
23	Temporal Changes in the Q of Broadband P Waves Transmitting through a Fracturing Westerly Granite Sample under Triaxial Compressive Conditions. Bulletin of the Seismological Society of America, 2011, 101, 421-426.	2.3	5
24	Development of a broadband transducer assembly under triaxial compressive conditions. , 2011, , .		1
25	Observation of numerous aftershocks of an Mw 1.9 earthquake with an AE network installed in a deep gold mine in South Africa. Earth, Planets and Space, 2009, 61, e49-e52.	2.5	22
26	Broadband P waves transmitting through fracturing Westerly granite before and after the peak stress under a triaxial compressive condition. Earth, Planets and Space, 2009, 61, e21-e24.	2.5	7
27	Semi-controlled Earthquake-generation Experiments in Deep Gold Mines, South Africa ^|^mdash; Monitoring at Closest Proximity to Elucidate Seismogenic Process ^|^mdash;. Zisin (Journal of the) Tj ETQq1 1 0.784314 rgBT /Overlock		
28	Stress drops and radiated seismic energies of microearthquakes in a South African gold mine. Journal of Geophysical Research, 2007, 112, .	3.3	94
29	Features of Initial Process of Rupture for the 2005 West off Fukuoka Prefecture Earthquake. Zisin (Journal of the Seismological Society of Japan 2nd Ser), 2007, 59, 241-252.	0.2	3
30	Stress change prior to the major events in the 1989 earthquake swarm off the eastern Izu Peninsula, Japan. Earth, Planets and Space, 2006, 58, 305-314.	2.5	2
31	Radiation efficiency and apparent stress of small earthquakes in a South African gold mine. Journal of Geophysical Research, 2005, 110, .	3.3	57
32	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
33	High-Resolution Strain Monitoring During M>2 Events in a South African Deep Gold Mine in Close Proximity to Hypocentres. , 2005, , .		9
34	EXPERIMENTAL STUDY OF CONSENSUSBUILDING AMONG RESIDENTS AND ADMINISTRATORS ON RIVER PLANNING. Proceedings of Hydraulic Engineering, 2004, 48, 403-408.	0.0	0
35	Gross structure of a fault during its formation process in Westerly granite. Tectonophysics, 2000, 323, 61-76.	2.2	8
36	Theoretical approach to dependence of crack growth mechanism on confining pressure. Earth, Planets and Space, 2000, 52, 315-320.	2.5	6

#	Article	IF	Citations
37	Three-dimensional observations of faulting process in Westerly granite under uniaxial and triaxial conditions by X-ray CT scan. Tectonophysics, 1999, 313, 293-305.	2.2	127
38	The observations of faulting in westerly granite under triaxial compression by X-ray CT scan. International Journal of Rock Mechanics and Minings Sciences, 1997, 34, 151.e1-151.e12.	5.8	37