

# Hironori Kawakata

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

828  
citations

516710

16  
h-index

501196

28  
g-index

39  
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39  
docs citations

39  
times ranked

623  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional observations of faulting process in Westerly granite under uniaxial and triaxial conditions by X-ray CT scan. <i>Tectonophysics</i> , 1999, 313, 293-305.	2.2	127
2	Stress drops and radiated seismic energies of microearthquakes in a South African gold mine. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	94
3	Radiation efficiency and apparent stress of small earthquakes in a South African gold mine. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	57
4	Magnitude $\sim 7$ level earthquakes: A new lower limit of self-similarity in seismic scaling relationships. <i>Geophysical Research Letters</i> , 2014, 41, 4495-4502.	4.0	53
5	Scale dependence of rock friction at high work rate. <i>Nature</i> , 2015, 528, 254-257.	27.8	48
6	Strain rate effect on fault slip and rupture evolution: Insight from meter-scale rock friction experiments. <i>Tectonophysics</i> , 2018, 733, 209-231.	2.2	45
7	The observations of faulting in westerly granite under triaxial compression by X-ray CT scan. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 1997, 34, 151.e1-151.e12.	5.8	37
8	Monitoring hydraulically-induced fractures in the laboratory using acoustic emissions and the fluorescent method. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 104, 53-63.	5.8	35
9	Rupture preparation process controlled by surface roughness on meter-scale laboratory fault. <i>Tectonophysics</i> , 2018, 733, 193-208.	2.2	27
10	Two end-member earthquake preparations illuminated by foreshock activity on a meter-scale laboratory fault. <i>Nature Communications</i> , 2021, 12, 4302.	12.8	26
11	Frequency-Magnitude Distribution of $\sim 3.7$ Mining-Induced Earthquakes Around a Mining Front and b Value Invariance with Post-Blast Time. <i>Pure and Applied Geophysics</i> , 2014, 171, 2665-2684.	1.9	25
12	Steady activity of microfractures on geological faults loaded by mining stress. <i>Tectonophysics</i> , 2015, 649, 100-114.	2.2	25
13	Nucleation process of an M2 earthquake in a deep gold mine in South Africa inferred from on-fault foreshock activity. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5574-5594.	3.4	23
14	Observation of numerous aftershocks of an Mw 1.9 earthquake with an AE network installed in a deep gold mine in South Africa. <i>Earth, Planets and Space</i> , 2009, 61, e49-e52.	2.5	22
15	Spatiotemporal complexity of 2-D rupture nucleation process observed by direct monitoring during large-scale biaxial rock friction experiments. <i>Tectonophysics</i> , 2018, 733, 182-192.	2.2	21
16	Delineation of large localized damage structures forming ahead of an active mining front by using advanced acoustic emission mapping techniques. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 79, 157-165.	5.8	19
17	Moment tensor analysis of acoustic emissions induced by laboratory-based hydraulic fracturing in granite. <i>Geophysical Journal International</i> , 2019, 216, 1507-1516.	2.4	18
18	Unexpectedly frequent occurrence of very small repeating earthquakes ( $\sim 5.1$ in $M_w$ ( $\sim 3.6$ )) in a South African gold mine: Implications for monitoring intraplate faults. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8478-8493.		16

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19	Quasi-static slip patch growth to 20% on a geological fault inferred from acoustic emissions in a South African gold mine. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1692-1707.	3.4	14
20	A non-accelerating foreshock sequence followed by a short period of quiescence for a large inland earthquake. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	12
21	Tensile-dominant fractures observed in hydraulic fracturing laboratory experiment using eagle ford shale. <i>Geophysical Journal International</i> , 2020, 222, 769-780.	2.4	12
22	Preparatory acoustic emission activity of hydraulic fracture in granite with various viscous fluids revealed by deep learning technique. <i>Geophysical Journal International</i> , 2021, 226, 493-510.	2.4	9
23	High-Resolution Strain Monitoring During M>2 Events in a South African Deep Gold Mine in Close Proximity to Hypocentres. , 2005, , .		9
24	Gross structure of a fault during its formation process in Westerly granite. <i>Tectonophysics</i> , 2000, 323, 61-76.	2.2	8
25	Correction to "Radiation efficiency and apparent stress of small earthquakes in a South African gold mine". <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	8
26	Broadband P waves transmitting through fracturing Westerly granite before and after the peak stress under a triaxial compressive condition. <i>Earth, Planets and Space</i> , 2009, 61, e21-e24.	2.5	7
27	Theoretical approach to dependence of crack growth mechanism on confining pressure. <i>Earth, Planets and Space</i> , 2000, 52, 315-320.	2.5	6
28	Temporal Changes in the Q of Broadband P Waves Transmitting through a Fracturing Westerly Granite Sample under Triaxial Compressive Conditions. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 421-426.	2.3	5
29	Semi-controlled Earthquake-generation Experiments in Deep Gold Mines, South Africa ^ ^mdash; Monitoring at Closest Proximity to Elucidate Seismogenic Process ^ ^mdash;. <i>Zisin (Journal of the Tj ETQq1 1 0.784314 rgBf /Overl</i>		
30	Features of Initial Process of Rupture for the 2005 West off Fukuoka Prefecture Earthquake. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser )</i> , 2007, 59, 241-252.	0.2	3
31	Source parameter estimation of acoustic emissions induced by hydraulic fracturing in the laboratory. <i>Geophysical Journal International</i> , 2022, 231, 408-425.	2.4	3
32	Stress change prior to the major events in the 1989 earthquake swarm off the eastern Izu Peninsula, Japan. <i>Earth, Planets and Space</i> , 2006, 58, 305-314.	2.5	2
33	Temporal changes in attenuation of <i>S</i> waves through a fault zone in a South African gold mine. <i>Geophysical Journal International</i> , 2012, , no-no.	2.4	2
34	High Resolution Spatial Distribution of the Velocity Discontinuities in and around the Swarm Region beneath the Wakayama District, Southwest Japan. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 2135-2141.	2.3	2
35	Spatio-temporal occurrence patterns among the foreshocks preceding the 2007 Noto Hanto earthquake. <i>Earth, Planets and Space</i> , 2013, 65, 1053-1058.	2.5	2
36	Development of a broadband transducer assembly under triaxial compressive conditions. , 2011, , .		1

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37	EXPERIMENTAL STUDY OF CONSENSUSBUILDING AMONG RESIDENTS AND ADMINISTRATORS ON RIVER PLANNING. Proceedings of Hydraulic Engineering, 2004, 48, 403-408.	0.0	0
38	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