Matt Ikari

List of Publications by Year in descending order

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60 papers	2,561 citations	257450 24 h-index	197818 49 g-index
62 all docs	62 docs citations	62 times ranked	1645 citing authors

#	Article	IF	Citations
1	Implications for megathrust slip behavior and pore pressure at the shallow northern Cascadia subduction zone from laboratory friction experiments. Earth and Planetary Science Letters, 2022, 578, 117297.	4.4	4
2	Frictional and Lithological Controls on Shallow Slow Slip at the Northern Hikurangi Margin. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	16
3	Plateâ€Rate Frictional Behavior of Sediment Inputs to the Hikurangi Subduction Margin: How Does Lithology Control Slow Slip Events?. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	6
4	Velocity-weakening friction induced by laboratory-controlled lithification. Earth and Planetary Science Letters, 2021, 554, 116682.	4.4	9
5	Evidence of Seismic Slip on a Large Splay Fault in the Hikurangi Subduction Zone. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009638.	2.5	6
6	Spatial Patterns in Frictional Behavior of Sediments Along the Kumano Transect in the Nankai Trough. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	9
7	Frictional Characteristics of Oceanic Transform Faults: Progressive Deformation and Alteration Controls Seismic Style. Geophysical Research Letters, 2021, 48, .	4.0	4
8	Faulting in the laboratory. , 2020, , 167-220.		2
9	Implications of basement rock alteration in the Nankai Trough, Japan for subduction megathrust slip behavior. Tectonophysics, 2020, 774, 228275.	2.2	11
10	The State of Stress on the Fault Before, During, and After a Major Earthquake. Annual Review of Earth and Planetary Sciences, 2020, 48, 49-74.	11.0	49
11	Frictional Strengthening Explored During Nonâ€Steady State Shearing: Implications for Fault Stability and Slip Event Recurrence Time. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020015.	3.4	3
12	Application of Constitutive Friction Laws to Glacier Seismicity. Geophysical Research Letters, 2020, 47, e2020GL088964.	4.0	19
13	Mixed Brittle and Viscous Strain Localization in Pelagic Sediments Seaward of the Hikurangi Margin, New Zealand. Tectonics, 2020, 39, e2019TC005965.	2.8	8
14	The rough ride of subducting fault surfaces. Nature Geoscience, 2020, 13, 329-330.	12.9	2
15	Friction experiments under in-situ stress reveal unexpected velocity-weakening in Nankai accretionary prism samples. Earth and Planetary Science Letters, 2020, 538, 116180.	4.4	15
16	Lowâ€Temperature Frictional Characteristics of Chloriteâ€Epidoteâ€Amphibole Assemblages: Implications for Strength and Seismic Style of Retrograde Fault Zones. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019487.	3.4	19
17	Slow slip source characterized by lithological and geometric heterogeneity. Science Advances, 2020, 6, eaay3314.	10.3	95
18	Observations of Laboratory and Natural Slow Slip Events: Hikurangi Subduction Zone, New Zealand. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008717.	2.5	11

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19	Laboratory slow slip events in natural geological materials. Geophysical Journal International, 2019, 218, 354-387.	2.4	24
20	Quasi-Dynamic 3D Modeling of the Generation and Afterslip of a Tohoku-oki Earthquake Considering Thermal Pressurization and Frictional Properties of the Shallow Plate Boundary. Pure and Applied Geophysics, 2019, 176, 3951-3973.	1.9	8
21	Lithologic control of frictional strength variations in subduction zone sediment inputs. , 2018, 14, 604-625.		22
22	Frictional Behavior of Input Sediments to the Hikurangi Trench, New Zealand. Geochemistry, Geophysics, Geosystems, 2018, 19, 2973-2990.	2.5	41
23	Coseismic slip propagation on the Tohoku plate boundary fault facilitated by slipâ€dependent weakening during slow fault slip. Geophysical Research Letters, 2017, 44, 8749-8756.	4.0	14
24	Seismic potential of weak, near-surface faults revealed at plate tectonic slip rates. Science Advances, 2017, 3, e1701269.	10.3	47
25	A microphysical interpretation of rateâ€and stateâ€dependent friction for fault gouge. Geochemistry, Geophysics, Geosystems, 2016, 17, 1660-1677.	2.5	69
26	Laboratory observations of timeâ€dependent frictional strengthening and stress relaxation in natural and synthetic fault gouges. Journal of Geophysical Research: Solid Earth, 2016, 121, 1183-1201.	3.4	82
27	Elevated time-dependent strengthening rates observed in San Andreas Fault drilling samples. Earth and Planetary Science Letters, 2016, 450, 164-172.	4.4	14
28	Do Embedded Volcanoclastic Layers Serve as Potential Glide Planes?: An Integrated Analysis from the Gela Basin Offshore Southern Sicily. Advances in Natural and Technological Hazards Research, 2016, , 273-280.	1.1	6
29	Velocityâ€and slipâ€dependent weakening in simulated fault gouge: Implications for multimode fault slip. Geophysical Research Letters, 2015, 42, 9247-9254.	4.0	23
30	Experimental investigation of incipient shear failure in foliated rock. Journal of Structural Geology, 2015, 77, 82-91.	2.3	28
31	Lithification facilitates frictional instability in argillaceous subduction zone sediments. Tectonophysics, 2015, 665, 177-185.	2.2	16
32	Strength characteristics of Japan Trench borehole samples in the high-slip region of the 2011 Tohoku-Oki earthquake. Earth and Planetary Science Letters, 2015, 412, 35-41.	4.4	68
33	Pelagic smectite as an important factor in tsunamigenic slip along the Japan Trench. Geology, 2015, 43, 155-158.	4.4	65
34	Origin of a zone of anomalously high porosity in the subduction inputs to Nankai Trough. Marine Geology, 2015, 361, 147-162.	2.1	17
35	Shear behavior of DFDP-1 borehole samples from the Alpine Fault, New Zealand, under a wide range of experimental conditions. International Journal of Earth Sciences, 2015, 104, 1523-1535.	1.8	14
36	The role of cohesion and overconsolidation in submarine slope failure. Marine Geology, 2015, 369, 153-161.	2.1	18

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37	Spectrum of slip behaviour in Tohoku fault zone samples at plate tectonic slip rates. Nature Geoscience, 2015, 8, 870-874.	12.9	64
38	Principal slip zones: Precursors but not recorders of earthquake slip. Geology, 2015, 43, 955-958.	4.4	23
39	Frictional strength, rate-dependence, and healing in DFDP-1 borehole samples from the Alpine Fault, New Zealand. Tectonophysics, 2014, 630, 1-8.	2.2	24
40	Stress State in the Largest Displacement Area of the 2011 Tohoku-Oki Earthquake. Science, 2013, 339, 687-690.	12.6	112
41	Slip weakening as a mechanism for slow earthquakes. Nature Geoscience, 2013, 6, 468-472.	12.9	121
42	Experimental evidence linking slip instability with seafloor lithology and topography at the Costa Rica convergent margin. Geology, 2013, 41, 891-894.	4.4	49
43	Shear strength of sediments approaching subduction in the Nankai Trough, Japan as constraints on forearc mechanics. Geochemistry, Geophysics, Geosystems, 2013, 14, 2716-2730.	2.5	40
44	Permeability contrasts between sheared and normally consolidated sediments in the Nankai accretionary prism. Marine Geology, 2012, 295-298, 1-13.	2.1	24
45	Comparison of frictional strength and velocity dependence between fault zones in the Nankai accretionary complex. Geochemistry, Geophysics, Geosystems, 2011, 12, .	2.5	79
46	Cohesive strength of clay-rich sediment. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	66
47	The role of fault zone fabric and lithification state on frictional strength, constitutive behavior, and deformation microstructure. Journal of Geophysical Research, 2011, 116, .	3.3	66
48	Submarine landslide potential near the megasplay fault at the Nankai subduction zone. Earth and Planetary Science Letters, 2011, 312, 453-462.	4.4	28
49	On the relation between fault strength and frictional stability. Geology, 2011, 39, 83-86.	4.4	278
50	Frictional and hydrologic properties of a major splay fault system, Nankai subduction zone. Geophysical Research Letters, 2009, 36, .	4.0	54
51	Clay fabric intensity in natural and artificial fault gouges: Implications for brittle fault zone processes and sedimentary basin clay fabric evolution. Journal of Geophysical Research, 2009, 114, .	3.3	80
52	Frictional and hydrologic properties of clayâ€rich fault gouge. Journal of Geophysical Research, 2009, 114, .	3.3	342
53	Effect of hydration state on the frictional properties of montmorillonite-based fault gouge. Journal of Geophysical Research, 2007, 112, .	3.3	154
54	Expedition 372B/375 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	20

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55	Expedition 372B/375 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	18
56	Site U1518. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	16
57	Site U1519. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	11
58	Site U1520. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	18
59	Site U1526. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	7
60	Data report: frictional strength of mudstone samples from the Nankai Trough frontal thrust region, IODP Sites C0006 and C0007. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	0