

# Chris Marone

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4557308/chris-marone-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155  
papers

10,599  
citations

54  
h-index

100  
g-index

171  
ext. papers

12,127  
ext. citations

7.5  
avg, IF

6.7  
L-index

#	Paper	IF	Citations
155	Frictional controls on the seismogenic zone: Insights from the Apenninic basement, Central Italy. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 583, 117444	5.3	0
154	Frequency-Magnitude Statistics of Laboratory Foreshocks Vary With Shear Velocity, Fault Slip Rate, and Shear Stress. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2021JB022175	3.6	0
153	Attention Network Forecasts Time-to-Failure in Laboratory Shear Experiments. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2021JB022195	3.6	1
152	The Potential for Low-Grade Metamorphism to Facilitate Fault Instability in a Geothermal Reservoir. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093552	4.9	3
151	Deep Learning Can Predict Laboratory Quakes From Active Source Seismic Data. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093187	4.9	4
150	Machine Learning Predicts the Timing and Shear Stress Evolution of Lab Earthquakes Using Active Seismic Monitoring of Fault Zone Processes. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2020JB021588	3.6	1
149	Competition between preslip and deviatoric stress modulates precursors for laboratory earthquakes. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 553, 116623	5.3	7
148	Nonlinear elastodynamic behavior of intact and fractured rock under in-situ stress and saturation conditions. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2021</b> , 153, 104491	5	1
147	Evolution of Elastic and Mechanical Properties During Fault Shear: The Roles of Clay Content, Fabric Development, and Porosity. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB018612	3.6	4
146	Preseismic Fault Creep and Elastic Wave Amplitude Precursors Scale With Lab Earthquake Magnitude for the Continuum of Tectonic Failure Modes. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL086986	4.9	14
145	A method for determining absolute ultrasonic velocities and elastic properties of experimental shear zones. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2020</b> , 130, 104306	6	2
144	Dynamic Stressing of Naturally Fractured Rocks: On the Relation Between Transient Changes in Permeability and Elastic Wave Velocity. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL083557	4.9	12
143	Application of Constitutive Friction Laws to Glacier Seismicity. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088964	4.9	10
142	Acoustic Energy Release During the Laboratory Seismic Cycle: Insights on Laboratory Earthquake Precursors and Prediction. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB018975	3.6	10
141	Bifurcations at the Stability Transition of Earthquake Faulting. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087985	4.9	4
140	The Role of Deformation Bands in Dictating Poromechanical Properties of Unconsolidated Sand and Sandstone. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2020</b> , 21, e2020GC009143	3.6	
139	Slip-rate-dependent friction as a universal mechanism for slow slip events. <i>Nature Geoscience</i> , <b>2020</b> , 13, 705-710	18.3	20

138	The Spatiotemporal Evolution of Granular Microslip Precursors to Laboratory Earthquakes. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088404	4.9	8
137	Dynamics of geologic CO storage and plume motion revealed by seismic coda waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 2464-2469	11.5	18
136	Kinetic Models for Healing of the Subduction Interface Based on Observations of Ancient Accretionary Complexes. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 3431-3449	3.6	9
135	Frictional State Evolution During Normal Stress Perturbations Probed With Ultrasonic Waves. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 5469-5491	3.6	15
134	The relationship between fault zone structure and frictional heterogeneity, insight from faults in the High Zagros. <i>Tectonophysics</i> , <b>2019</b> , 762, 109-120	3.1	4
133	Characterizing Acoustic Signals and Searching for Precursors during the Laboratory Seismic Cycle Using Unsupervised Machine Learning. <i>Seismological Research Letters</i> , <b>2019</b> , 90, 1088-1098	3	23
132	On the mechanics of granular shear: The effect of normal stress and layer thickness on stick-slip properties. <i>Tectonophysics</i> , <b>2019</b> , 763, 86-99	3.1	9
131	The Effects of Shear Strain, Fabric, and Porosity Evolution on Elastic and Mechanical Properties of Clay-Rich Fault Gouge. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 10968-10982	3.6	10
130	The transition from steady frictional sliding to inertia-dominated instability with rate and state friction. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 122, 116-125	5	9
129	Similarity of fast and slow earthquakes illuminated by machine learning. <i>Nature Geoscience</i> , <b>2019</b> , 12, 69-74	18.3	54
128	Cohesion-Induced Stabilization in Stick-Slip Dynamics of Weakly Wet, Sheared Granular Fault Gouge. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 2115-2126	3.6	17
127	Estimating Fault Friction From Seismic Signals in the Laboratory. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1321-1329	4.9	32
126	Frictional Mechanics of Slow Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 7931-7949	3.6	27
125	Evolution of b-value during the seismic cycle: Insights from laboratory experiments on simulated faults. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 482, 407-413	5.3	50
124	Friction-Stability-Permeability Evolution of a Fracture in Granite. <i>Water Resources Research</i> , <b>2018</b> , 54, 9901-9918	5.4	24
123	Earthquake Catalog-Based Machine Learning Identification of Laboratory Fault States and the Effects of Magnitude of Completeness. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 13,269	4.9	20
122	The Role of Shear Stress in Fault Healing and Frictional Aging. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 10,479-10,495	3.6	8
121	Simulating stick-slip failure in a sheared granular layer using a physics-based constitutive model. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 295-307	3.6	13

120	Permeability Evolution of Propped Artificial Fractures in Green River Shale. <i>Rock Mechanics and Rock Engineering</i> , <b>2017</b> , 50, 1473-1485	5.7	17
119	On the role of fluids in stick-slip dynamics of saturated granular fault gouge using a coupled computational fluid dynamics-discrete element approach. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 3689-3700	3.6	25
118	On the micromechanics of slip events in sheared, fluid-saturated fault gouge. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 6101-6108	4.9	30
117	Evolution of shear fabric in granular fault gouge from stable sliding to stick slip and implications for fault slip mode. <i>Geology</i> , <b>2017</b> , G39033.1	5	19
116	Frictional stability and earthquake triggering during fluid pressure stimulation of an experimental fault. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 477, 84-96	5.3	80
115	The Impact of Frictional Healing on Stick-Slip Recurrence Interval and Stress Drop: Implications for Earthquake Scaling. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 10,102	3.6	15
114	Do Fluids Modify the Stick-Slip Behavior of Sheared Granular Media? <b>2017</b> ,		4
113	Permeability evolution in sorbing media: analogies between organic-rich shale and coal. <i>Geofluids</i> , <b>2016</b> , 16, 43-55	1.5	57
112	Anomalous distribution of microearthquakes in the Newberry Geothermal Reservoir: Mechanisms and implications. <i>Geothermics</i> , <b>2016</b> , 63, 62-73	4.3	24
111	Experimental constraints on the relationship between clay abundance, clay fabric, and frictional behavior for the Central Deforming Zone of the San Andreas Fault. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 3865-3881	3.6	10
110	Laboratory observations of slow earthquakes and the spectrum of tectonic fault slip modes. <i>Nature Communications</i> , <b>2016</b> , 7, 11104	17.4	213
109	Frequency, pressure, and strain dependence of nonlinear elasticity in Berea Sandstone. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3226-3236	4.9	29
108	Dynamically triggered slip leading to sustained fault gouge weakening under laboratory shear conditions. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 1559-1565	4.9	15
107	Breakdown pressure and fracture surface morphology of hydraulic fracturing in shale with H <sub>2</sub> O, CO <sub>2</sub> and N <sub>2</sub> . <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , <b>2016</b> , 2, 63-76	3.8	95
106	RESEARCH FOCUS: Connections between fault roughness, dynamic weakening, and fault zone structure. <i>Geology</i> , <b>2016</b> , 44, 79-80	5	3
105	A microphysical interpretation of rate- and state-dependent friction for fault gouge. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 1660-1677	3.6	54
104	On the evolution of elastic properties during laboratory stick-slip experiments spanning the transition from slow slip to dynamic rupture. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 8569-8594	3.6	34
103	Permeability and frictional properties of halite-clay-quartz faults in marine-sediment: The role of compaction and shear. <i>Marine and Petroleum Geology</i> , <b>2016</b> , 78, 222-235	4.7	13

102	Precursory changes in seismic velocity for the spectrum of earthquake failure modes. <i>Nature Geoscience</i> , <b>2016</b> , 9, 695-700	18.3	90
101	Laboratory observations of time-dependent frictional strengthening and stress relaxation in natural and synthetic fault gouges. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 1183-1201	3.6	55
100	Breakdown pressures due to infiltration and exclusion in finite length boreholes. <i>Journal of Petroleum Science and Engineering</i> , <b>2015</b> , 127, 329-337	4.4	39
99	Flow rate dictates permeability enhancement during fluid pressure oscillations in laboratory experiments. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 2037-2055	3.6	35
98	Frictional properties of the active San Andreas Fault at SAFOD: Implications for fault strength and slip behavior. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 5273-5289	3.6	61
97	Evolution of permeability across the transition from brittle failure to cataclastic flow in porous siltstone. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2015</b> , 16, 2980-2993	3.6	8
96	Critical evaluation of state evolution laws in rate and state friction: Fitting large velocity steps in simulated fault gouge with time-, slip-, and stress-dependent constitutive laws. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 6365-6385	3.6	82
95	Acoustically induced slip in sheared granular layers: Application to dynamic earthquake triggering. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9750-9757	4.9	23
94	Poromechanics of stick-slip frictional sliding and strength recovery on tectonic faults. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 6895-6912	3.6	33
93	Experimental investigation of incipient shear failure in foliated rock. <i>Journal of Structural Geology</i> , <b>2015</b> , 77, 82-91	3	21
92	Stiffness evolution of granular layers and the origin of repetitive, slow, stick-slip frictional sliding. <i>Granular Matter</i> , <b>2015</b> , 17, 447-457	2.6	24
91	Three-dimensional discrete element modeling of triggered slip in sheared granular media. <i>Physical Review E</i> , <b>2014</b> , 89, 042204	2.4	30
90	A slice-and-view (FIBSEM) study of clay gouge from the SAFOD creeping section of the San Andreas Fault at ~2.7 km depth. <i>Journal of Structural Geology</i> , <b>2014</b> , 69, 234-244	3	21
89	Frictional properties of low-angle normal fault gouges and implications for low-angle normal fault slip. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 408, 57-65	5.3	23
88	Laboratory evidence for particle mobilization as a mechanism for permeability enhancement via dynamic stressing. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 392, 279-291	5.3	76
87	Frictional strength, rate-dependence, and healing in DFDP-1 borehole samples from the Alpine Fault, New Zealand. <i>Tectonophysics</i> , <b>2014</b> , 630, 1-8	3.1	20
86	On the origin and evolution of electrical signals during frictional stick slip in sheared granular material. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 4253-4268	3.6	31
85	Frictional heterogeneities on carbonate-bearing normal faults: Insights from the Monte Maggio Fault, Italy. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 9062-9076	3.6	42

84	Physicochemical processes of frictional healing: Effects of water on stick-slip stress drop and friction of granular fault gouge. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 4090-4105	3.6	38
83	Evolution of elastic wave speed during shear-induced damage and healing within laboratory fault zones. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 4821-4840	3.6	17
82	A novel and versatile apparatus for brittle rock deformation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2014</b> , 66, 114-123	6	47
81	Evolution of ultrasonic velocity and dynamic elastic moduli with shear strain in granular layers. <i>Granular Matter</i> , <b>2013</b> , 15, 499-515	2.6	29
80	Influence of vibration amplitude on dynamic triggering of slip in sheared granular layers. <i>Physical Review E</i> , <b>2013</b> , 87, 012205	2.4	26
79	Slip weakening as a mechanism for slow earthquakes. <i>Nature Geoscience</i> , <b>2013</b> , 6, 468-472	18.3	95
78	Shear zones in clay-rich fault gouge: A laboratory study of fabric development and evolution. <i>Journal of Structural Geology</i> , <b>2013</b> , 51, 206-225	3	93
77	Slow earthquakes, preseismic velocity changes, and the origin of slow frictional stick-slip. <i>Science</i> , <b>2013</b> , 341, 1229-32	33.3	98
76	Microslips as precursors of large slip events in the stick-slip dynamics of sheared granular layers: A discrete element model analysis. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 4194-4198	4.9	40
75	Laboratory observation of acoustic fluidization in granular fault gouge and implications for dynamic weakening of earthquake faults. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2013</b> , 14, 1012-1022	3.6	23
74	Symmetry and the critical slip distance in rate and state friction laws. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 3728-3741	3.6	17
73	Linking permeability to crack density evolution in thermally stressed rocks under cyclic loading. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 2590-2595	4.9	37
72	The effects of entrained debris on the basal sliding stability of a glacier. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 656-666	3.8	34
71	Acoustic emission and microslip precursors to stick-slip failure in sheared granular material. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 5627-5631	4.9	78
70	Frictional strength and healing behavior of phyllosilicate-rich faults. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		68
69	Nonlinear dynamical triggering of slow slip on simulated earthquake faults with implications to Earth. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		20
68	Permeability evolution during dynamic stressing of dual permeability media. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		37
67	Frictional properties and sliding stability of the San Andreas fault from deep drill core. <i>Geology</i> , <b>2012</b> , 40, 759-762	5	71

66	Meso-mechanical analysis of deformation characteristics for dynamically triggered slip in a granular medium. <i>Philosophical Magazine</i> , <b>2012</b> , 92, 3520-3539	1.6	12
65	Laboratory observations of permeability enhancement by fluid pressure oscillation of in situ fractured rock. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		96
64	Influence of dilatancy on the frictional constitutive behavior of a saturated fault zone under a variety of drainage conditions. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		20
63	Fault structure, frictional properties and mixed-mode fault slip behavior. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 311, 316-327	5.3	88
62	Vibration-induced slip in sheared granular layers and the micromechanics of dynamic earthquake triggering. <i>Europhysics Letters</i> , <b>2011</b> , 96, 14001	1.6	26
61	Weakness of the San Andreas Fault revealed by samples from the active fault zone. <i>Nature Geoscience</i> , <b>2011</b> , 4, 251-254	18.3	192
60	On the relation between fault strength and frictional stability. <i>Geology</i> , <b>2011</b> , 39, 83-86	5	216
59	Learning to read fault-slip behavior from fault-zone structure. <i>Geology</i> , <b>2010</b> , 38, 767-768	5	13
58	Fabric induced weakness of tectonic faults. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	74
57	Frictional strength and strain weakening in simulated fault gouge: Competition between geometrical weakening and chemical strengthening. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		70
56	Effect of strain localization on frictional behavior of sheared granular materials. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		48
55	Deformation band formation and strength evolution in unlithified sand: The role of grain breakage. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		41
54	Fault zone fabric and fault weakness. <i>Nature</i> , <b>2009</b> , 462, 907-10	50.4	362
53	Significant effect of grain size distribution on compaction rates in granular aggregates. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 284, 386-391	5.3	33
52	Influence of shear and deviatoric stress on the evolution of permeability in fractured rock. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		42
51	Shear-induced dilatancy of fluid-saturated faults: Experiment and theory. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		110
50	Frictional behavior of materials in the 3D SAFOD volume. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	60
49	Clay fabric intensity in natural and artificial fault gouges: Implications for brittle fault zone processes and sedimentary basin clay fabric evolution. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		67



48	Frictional and hydrologic properties of clay-rich fault gouge. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		277
47	Chapter 6 The Critical Slip Distance for Seismic and Aseismic Fault Zones of Finite Width. <i>International Geophysics</i> , <b>2009</b> , 94, 135-162		25
46	Chapter 7 Scaling of Slip Weakening Distance with Final Slip during Dynamic Earthquake Rupture. <i>International Geophysics</i> , <b>2009</b> , 94, 163-186		23
45	Effects of acoustic waves on stick-slip in granular media and implications for earthquakes. <i>Nature</i> , <b>2008</b> , 451, 57-60	50.4	153
44	Laboratory investigation of the frictional behavior of granular volcanic material. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 173, 265-279	2.8	13
43	Potential for earthquake triggering from transient deformations. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		43
42	Healing of simulated fault gouges aided by pressure solution: Results from rock analogue experiments. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		66
41	Laboratory study of the frictional rheology of sheared till. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		81
40	Geophysics. What triggers tremor?. <i>Science</i> , <b>2008</b> , 319, 166-7	33.3	4
39	Transition from rolling to jamming in thin granular layers. <i>Physical Review Letters</i> , <b>2008</b> , 101, 248001	7.4	10
38	Effects of shear velocity oscillations on stick-slip behavior in laboratory experiments. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		34
37	Friction of sheared granular layers: Role of particle dimensionality, surface roughness, and material properties. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2007</b> , 8, n/a-n/a	3.6	27
36	Effect of hydration state on the frictional properties of montmorillonite-based fault gouge. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		130
35	Rate Dependence of Acoustic Emissions Generated during Shear of Simulated Fault Gouge. <i>Bulletin of the Seismological Society of America</i> , <b>2007</b> , 97, 1841-1849	2.3	20
34	Geophysics. Do earthquakes rupture piece by piece or all together?. <i>Science</i> , <b>2006</b> , 313, 1748-9	33.3	5
33	Effects of normal stress perturbations on the frictional properties of simulated faults. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2005</b> , 6, n/a-n/a	3.6	50
32	Fault zone restrengthening and frictional healing: The role of pressure solution. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		96
31	Influence of particle characteristics on granular friction. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		177



30	Systematic variations in recurrence interval and moment of repeating aftershocks. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	49
29	Effects of normal stress variation on the strength and stability of creeping faults. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		44
28	Comparison of smectite- and illite-rich gouge frictional properties: application to the updip limit of the seismogenic zone along subduction megathrusts. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 215, 219-235	5.3	402
27	Instability of Deformation. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2002</b> , 51, 181-199	7.1	18
26	Influence of grain characteristics on the friction of granular shear zones. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ECV 4-1-ECV 4-9		213
25	Effect of humidity on granular friction at room temperature. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 11-1-ETG 11-13		101
24	The effect of particle dimensionality on Granular friction in laboratory shear zones. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 22-1-22-4	4.9	38
23	Fractional restrengthening in simulated fault gouge: Effect of shear load perturbations. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 19319-19337		56
22	Laboratory results indicating complex and potentially unstable frictional behavior of smectite clay. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 2297-2300	4.9	109
21	Effects of loading rate and normal stress on stress drop and stick-slip recurrence interval. <i>Geophysical Monograph Series</i> , <b>2000</b> , 187-198	1.1	43
20	Friction of simulated fault gouge for a wide range of velocities and normal stresses. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 28899-28914		185
19	Effects of normal stress vibrations on frictional healing. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 28859-28879		18
18	The effect of loading rate on static friction and the rate of fault healing during the earthquake cycle. <i>Nature</i> , <b>1998</b> , 391, 69-72	50.4	260
17	The effect of shear load on frictional healing in simulated fault gouge. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 4561-4564	4.9	41
16	LABORATORY-DERIVED FRICTION LAWS AND THEIR APPLICATION TO SEISMIC FAULTING. <i>Annual Review of Earth and Planetary Sciences</i> , <b>1998</b> , 26, 643-696	15.3	1277
15	Transformation shear instability and the seismogenic zone for deep earthquakes. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 1887-1890	4.9	7
14	Laboratory study of fault healing and lithification in simulated fault gouge under hydrothermal conditions. <i>Tectonophysics</i> , <b>1997</b> , 277, 41-55	3.1	111
13	Earthquake nucleation on model faults with rate- and state-dependent friction: Effects of inertia. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 13919-13932		66

12	Fault zone strength and failure criteria. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 723-726	4.9	42
11	Fault healing inferred from time dependent variations in source properties of repeating earthquakes. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 3095-3098	4.9	145
10	Basaltic volcanism and extension near the intersection of the Sierra Madre volcanic province and the Mexican Volcanic Belt. <i>Bulletin of the Geological Society of America</i> , <b>1994</b> , 106, 383-394	3.9	71
9	Scaling of rock friction constitutive parameters: The effects of surface roughness and cumulative offset on friction of gabbro. <i>Pure and Applied Geophysics</i> , <b>1994</b> , 143, 359-385	2.2	62
8	Variations in rupture process with recurrence interval in a repeated small earthquake. <i>Nature</i> , <b>1994</b> , 368, 624-626	50.4	161
7	Scaling of the critical slip distance for seismic faulting with shear strain in fault zones. <i>Nature</i> , <b>1993</b> , 362, 618-621	50.4	319
6	Coulomb constitutive laws for friction: Contrasts in frictional behavior for distributed and localized shear. <i>Pure and Applied Geophysics</i> , <b>1992</b> , 139, 195-214	2.2	80
5	A note on the stress-dilatancy relation for simulated fault gouge. <i>Pure and Applied Geophysics</i> , <b>1991</b> , 137, 409-419	2.2	20
4	Frictional behavior and constitutive modeling of simulated fault gouge. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 7007		435
3	Particle-size distribution and microstructures within simulated fault gouge. <i>Journal of Structural Geology</i> , <b>1989</b> , 11, 799-814	3	269
2	The depth of seismic faulting and the upper transition from stable to unstable slip regimes. <i>Geophysical Research Letters</i> , <b>1988</b> , 15, 621-624	4.9	305
1	Imaging elastodynamic and hydraulic properties of in-situ fractured rock: An experimental investigation exploring effects of dynamic stressing and shearing. <i>Journal of Geophysical Research: Solid Earth</i> , e2020JB021521	3.6	