Chris Marone

List of Publications by Citations

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	LABORATORY-DERIVED FRICTION LAWS AND THEIR APPLICATION TO SEISMIC FAULTING. *Annual Review of Earth and Planetary Sciences*, **1998**, 26, 643-696	15.3	1277
154	Frictional behavior and constitutive modeling of simulated fault gouge. *Journal of Geophysical Research*, **1990**, 95, 7007		435
153	Comparison of smectite- and illite-rich gouge frictional properties: application to the updip limit of the seismogenic zone along subduction megathrusts. *Earth and Planetary Science Letters*, **2003**, 215, 219-235	5.3	402
152	Fault zone fabric and fault weakness. *Nature*, **2009**, 462, 907-10	50.4	362
151	Scaling of the critical slip distance for seismic faulting with shear strain in fault zones. *Nature*, **1993**, 362, 618-621	50.4	319
150	The depth of seismic faulting and the upper transition from stable to unstable slip regimes. *Geophysical Research Letters*, **1988**, 15, 621-624	4.9	305
149	Frictional and hydrologic properties of clay-rich fault gouge. *Journal of Geophysical Research*, **2009**, 114,		277
148	Particle-size distribution and microstructures within simulated fault gouge. *Journal of Structural Geology*, **1989**, 11, 799-814	3	269
147	The effect of loading rate on static friction and the rate of fault healing during the earthquake cycle. *Nature*, **1998**, 391, 69-72	50.4	260
146	On the relation between fault strength and frictional stability. *Geology*, **2011**, 39, 83-86	5	216
145	Laboratory observations of slow earthquakes and the spectrum of tectonic fault slip modes. *Nature Communications*, **2016**, 7, 11104	17.4	213
144	Influence of grain characteristics on the friction of granular shear zones. *Journal of Geophysical Research*, **2002**, 107, ECV 4-1-ECV 4-9		213
143	Weakness of the San Andreas Fault revealed by samples from the active fault zone. *Nature Geoscience*, **2011**, 4, 251-254	18.3	192
142	Friction of simulated fault gouge for a wide range of velocities and normal stresses. *Journal of Geophysical Research*, **1999**, 104, 28899-28914		185
141	Influence of particle characteristics on granular friction. *Journal of Geophysical Research*, **2005**, 110,		177
140	Variations in rupture process with recurrence interval in a repeated small earthquake. *Nature*, **1994**, 368, 624-626	50.4	161
139	Effects of acoustic waves on stick-slip in granular media and implications for earthquakes. *Nature*, **2008**, 451, 57-60	50.4	153

138	Fault healing inferred from time dependent variations in source properties of repeating earthquakes. *Geophysical Research Letters*, **1995**, 22, 3095-3098	4.9	145
137	Effect of hydration state on the frictional properties of montmorillonite-based fault gouge. *Journal of Geophysical Research*, **2007**, 112,		130
136	Laboratory study of fault healing and lithification in simulated fault gouge under hydrothermal conditions. *Tectonophysics*, **1997**, 277, 41-55	3.1	111
135	Shear-induced dilatancy of fluid-saturated faults: Experiment and theory. *Journal of Geophysical Research*, **2009**, 114,		110
134	Laboratory results indicating complex and potentially unstable frictional behavior of smectite clay. *Geophysical Research Letters*, **2001**, 28, 2297-2300	4.9	109
133	Effect of humidity on granular friction at room temperature. *Journal of Geophysical Research*, **2002**, 107, ETG 11-1-ETG 11-13		101
132	Slow earthquakes, preseismic velocity changes, and the origin of slow frictional stick-slip. *Science*, **2013**, 341, 1229-32	33.3	98
131	Effects of normal stress vibrations on frictional healing. *Journal of Geophysical Research*, **1999**, 104, 28859-28878		97
130	Laboratory observations of permeability enhancement by fluid pressure oscillation of in situ fractured rock. *Journal of Geophysical Research*, **2011**, 116,		96
129	Fault zone restrengthening and frictional healing: The role of pressure solution. *Journal of Geophysical Research*, **2005**, 110,		96
128	Breakdown pressure and fracture surface morphology of hydraulic fracturing in shale with H 2 O, CO 2 and N 2. *Geomechanics and Geophysics for Geo-Energy and Geo-Resources*, **2016**, 2, 63-76	3.8	95
127	Slip weakening as a mechanism for slow earthquakes. *Nature Geoscience*, **2013**, 6, 468-472	18.3	95
126	Shear zones in clay-rich fault gouge: A laboratory study of fabric development and evolution. *Journal of Structural Geology*, **2013**, 51, 206-225	3	93
125	Precursory changes in seismic velocity for the spectrum of earthquake failure modes. *Nature Geoscience*, **2016**, 9, 695-700	18.3	90
124	Fault structure, frictional properties and mixed-mode fault slip behavior. *Earth and Planetary Science Letters*, **2011**, 311, 316-327	5.3	88
123	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. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 6365-6385	3.6	82
122	Laboratory study of the frictional rheology of sheared till. *Journal of Geophysical Research*, **2008**, 113,		81
121	Frictional stability and earthquake triggering during fluid pressure stimulation of an experimental fault. *Earth and Planetary Science Letters*, **2017**, 477, 84-96	5.3	80

120	Coulomb constitutive laws for friction: Contrasts in frictional behavior for distributed and localized shear. *Pure and Applied Geophysics*, **1992**, 139, 195-214	2.2	80
119	Acoustic emission and microslip precursors to stick-slip failure in sheared granular material. *Geophysical Research Letters*, **2013**, 40, 5627-5631	4.9	78
118	Laboratory evidence for particle mobilization as a mechanism for permeability enhancement via dynamic stressing. *Earth and Planetary Science Letters*, **2014**, 392, 279-291	5.3	76
117	Fabric induced weakness of tectonic faults. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	74
116	Frictional properties and sliding stability of the San Andreas fault from deep drill core. *Geology*, **2012**, 40, 759-762	5	71
115	Basaltic volcanism and extension near the intersection of the Sierra Madre volcanic province and the Mexican Volcanic Belt. *Bulletin of the Geological Society of America*, **1994**, 106, 383-394	3.9	71
114	Frictional strength and strain weakening in simulated fault gouge: Competition between geometrical weakening and chemical strengthening. *Journal of Geophysical Research*, **2010**, 115,		70
113	Frictional strength and healing behavior of phyllosilicate-rich faults. *Journal of Geophysical Research* , **2012**, 117,		68
112	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,		67
111	Healing of simulated fault gouges aided by pressure solution: Results from rock analogue experiments. *Journal of Geophysical Research*, **2008**, 113,		66
110	Earthquake nucleation on model faults with rate- and state-dependent friction: Effects of inertia. *Journal of Geophysical Research*, **1996**, 101, 13919-13932		66
109	Scaling of rock friction constitutive parameters: The effects of surface roughness and cumulative offset on friction of gabbro. *Pure and Applied Geophysics*, **1994**, 143, 359-385	2.2	62
108	Frictional properties of the active San Andreas Fault at SAFOD: Implications for fault strength and slip behavior. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 5273-5289	3.6	61
107	Frictional behavior of materials in the 3D SAFOD volume. *Geophysical Research Letters*, **2009**, 36,	4.9	60
106	Permeability evolution in sorbing media: analogies between organic-rich shale and coal. *Geofluids*, **2016**, 16, 43-55	1.5	57
105	Fractional restrengthening in simulated fault gouge: Effect of shear load perturbations. *Journal of Geophysical Research*, **2001**, 106, 19319-19337		56
104	Laboratory observations of time-dependent frictional strengthening and stress relaxation in natural and synthetic fault gouges. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 1183-1201	3.6	55
103	A microphysical interpretation of rate- and state-dependent friction for fault gouge. *Geochemistry, Geophysics, Geosystems*, **2016**, 17, 1660-1677	3.6	54

102	Similarity of fast and slow earthquakes illuminated by machine learning. *Nature Geoscience*, **2019**, 12, 69-74	18.3	54
101	Effects of normal stress perturbations on the frictional properties of simulated faults. *Geochemistry, Geophysics, Geosystems*, **2005**, 6, n/a-n/a	3.6	50
100	Evolution of b-value during the seismic cycle: Insights from laboratory experiments on simulated faults. *Earth and Planetary Science Letters*, **2018**, 482, 407-413	5.3	50
99	Systematic variations in recurrence interval and moment of repeating aftershocks. *Geophysical Research Letters*, **2005**, 32,	4.9	49
98	Effect of strain localization on frictional behavior of sheared granular materials. *Journal of Geophysical Research*, **2010**, 115,		48
97	A novel and versatile apparatus for brittle rock deformation. *International Journal of Rock Mechanics and Minings Sciences*, **2014**, 66, 114-123	6	47
96	Effects of normal stress variation on the strength and stability of creeping faults. *Journal of Geophysical Research*, **2004**, 109,		44
95	Potential for earthquake triggering from transient deformations. *Journal of Geophysical Research*, **2008**, 113,		43
94	Effects of loading rate and normal stress on stress drop and stick-slip recurrence interval. *Geophysical Monograph Series*, **2000**, 187-198	1.1	43
93	Frictional heterogeneities on carbonate-bearing normal faults: Insights from the Monte Maggio Fault, Italy. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 9062-9076	3.6	42
92	Influence of shear and deviatoric stress on the evolution of permeability in fractured rock. *Journal of Geophysical Research*, **2009**, 114,		42
91	Fault zone strength and failure criteria. *Geophysical Research Letters*, **1995**, 22, 723-726	4.9	42
90	Deformation band formation and strength evolution in unlithified sand: The role of grain breakage. *Journal of Geophysical Research*, **2010**, 115,		41
89	The effect of shear load on frictional healing in simulated fault gouge. *Geophysical Research Letters*, **1998**, 25, 4561-4564	4.9	41
88	Microslips as precursors of large slip events in the stick-slip dynamics of sheared granular layers: A discrete element model analysis. *Geophysical Research Letters*, **2013**, 40, 4194-4198	4.9	40
87	Breakdown pressures due to infiltration and exclusion in finite length boreholes. *Journal of Petroleum Science and Engineering*, **2015**, 127, 329-337	4.4	39
86	Physicochemical processes of frictional healing: Effects of water on stick-slip stress drop and friction of granular fault gouge. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 4090-4105	3.6	38
85	The effect of particle dimensionality on Granular friction in laboratory shear zones. *Geophysical Research Letters*, **2002**, 29, 22-1-22-4	4.9	38

84	Permeability evolution during dynamic stressing of dual permeability media. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		37
83	Linking permeability to crack density evolution in thermally stressed rocks under cyclic loading. *Geophysical Research Letters*, **2013**, 40, 2590-2595	4.9	37
82	Flow rate dictates permeability enhancement during fluid pressure oscillations in laboratory experiments. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 2037-2055	3.6	35
81	The effects of entrained debris on the basal sliding stability of a glacier. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 656-666	3.8	34
80	Effects of shear velocity oscillations on stick-slip behavior in laboratory experiments. *Journal of Geophysical Research*, **2007**, 112,		34
79	On the evolution of elastic properties during laboratory stick-slip experiments spanning the transition from slow slip to dynamic rupture. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 8569-8594	3.6	34
78	Poromechanics of stick-slip frictional sliding and strength recovery on tectonic faults. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 6895-6912	3.6	33
77	Significant effect of grain size distribution on compaction rates in granular aggregates. *Earth and Planetary Science Letters*, **2009**, 284, 386-391	5.3	33
76	Estimating Fault Friction From Seismic Signals in the Laboratory. *Geophysical Research Letters*, **2018** , 45, 1321-1329	4.9	32
75	On the origin and evolution of electrical signals during frictional stick slip in sheared granular material. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 4253-4268	3.6	31
74	On the micromechanics of slip events in sheared, fluid-saturated fault gouge. *Geophysical Research Letters*, **2017**, 44, 6101-6108	4.9	30
73	Three-dimensional discrete element modeling of triggered slip in sheared granular media. *Physical Review E*, **2014**, 89, 042204	2.4	30
72	Frequency, pressure, and strain dependence of nonlinear elasticity in Berea Sandstone. *Geophysical Research Letters*, **2016**, 43, 3226-3236	4.9	29
71	Evolution of ultrasonic velocity and dynamic elastic moduli with shear strain in granular layers. *Granular Matter*, **2013**, 15, 499-515	2.6	29
70	Frictional Mechanics of Slow Earthquakes. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 7931-7949	3.6	27
69	Friction of sheared granular layers: Role of particle dimensionality, surface roughness, and material properties. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	27
68	Influence of vibration amplitude on dynamic triggering of slip in sheared granular layers. *Physical Review E*, **2013**, 87, 012205	2.4	26
67	Vibration-induced slip in sheared granular layers and the micromechanics of dynamic earthquake triggering. *Europhysics Letters*, **2011**, 96, 14001	1.6	26

66	On the role of fluids in stick-slip dynamics of saturated granular fault gouge using a coupled computational fluid dynamics-discrete element approach. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 3689-3700	3.6	25
65	Chapter 6 The Critical Slip Distance for Seismic and Aseismic Fault Zones of Finite Width. *International Geophysics*, **2009**, 94, 135-162		25
64	Anomalous distribution of microearthquakes in the Newberry Geothermal Reservoir: Mechanisms and implications. *Geothermics*, **2016**, 63, 62-73	4.3	24
63	Stiffness evolution of granular layers and the origin of repetitive, slow, stick-slip frictional sliding. *Granular Matter*, **2015**, 17, 447-457	2.6	24
62	Friction-Stability-Permeability Evolution of a Fracture in Granite. *Water Resources Research*, **2018**, 54, 9901-9918	5.4	24
61	Characterizing Acoustic Signals and Searching for Precursors during the Laboratory Seismic Cycle Using Unsupervised Machine Learning. *Seismological Research Letters*, **2019**, 90, 1088-1098	3	23
60	Frictional properties of low-angle normal fault gouges and implications for low-angle normal fault slip. *Earth and Planetary Science Letters*, **2014**, 408, 57-65	5.3	23
59	Acoustically induced slip in sheared granular layers: Application to dynamic earthquake triggering. *Geophysical Research Letters*, **2015**, 42, 9750-9757	4.9	23
58	Laboratory observation of acoustic fluidization in granular fault gouge and implications for dynamic weakening of earthquake faults. *Geochemistry, Geophysics, Geosystems*, **2013**, 14, 1012-1022	3.6	23
57	Chapter 7 Scaling of Slip Weakening Distance with Final Slip during Dynamic Earthquake Rupture. *International Geophysics*, **2009**, 94, 163-186		23
56	A "slice-and-view" (FIB-SEM) study of clay gouge from the SAFOD creeping section of the San Andreas Fault at ~2.7 km depth. *Journal of Structural Geology*, **2014**, 69, 234-244	3	21
55	Experimental investigation of incipient shear failure in foliated rock. *Journal of Structural Geology*, **2015**, 77, 82-91	3	21
54	Frictional strength, rate-dependence, and healing in DFDP-1 borehole samples from the Alpine Fault, New Zealand. *Tectonophysics*, **2014**, 630, 1-8	3.1	20
53	Nonlinear dynamical triggering of slow slip on simulated earthquake faults with implications to Earth. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		20
52	Influence of dilatancy on the frictional constitutive behavior of a saturated fault zone under a variety of drainage conditions. *Journal of Geophysical Research*, **2011**, 116,		20
51	Rate Dependence of Acoustic Emissions Generated during Shear of Simulated Fault Gouge. *Bulletin of the Seismological Society of America*, **2007**, 97, 1841-1849	2.3	20
50	A note on the stress-dilatancy relation for simulated fault gouge. *Pure and Applied Geophysics*, **1991**, 137, 409-419	2.2	20
49	Slip-rate-dependent friction as a universal mechanism for slow slip events. *Nature Geoscience*, **2020**, 13, 705-710	18.3	20

48	Earthquake Catalog-Based Machine Learning Identification of Laboratory Fault States and the Effects of Magnitude of Completeness. *Geophysical Research Letters*, **2018**, 45, 13,269	4.9	20
47	Evolution of shear fabric in granular fault gouge from stable sliding to stick slip and implications for fault slip mode. *Geology*, **2017**, G39033.1	5	19
46	Dynamics of geologic CO storage and plume motion revealed by seismic coda waves. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2464-2469	11.5	18
45	Instability of Deformation. *Reviews in Mineralogy and Geochemistry*, **2002**, 51, 181-199	7.1	18
44	Permeability Evolution of Propped Artificial Fractures in Green River Shale. *Rock Mechanics and Rock Engineering*, **2017**, 50, 1473-1485	5.7	17
43	Cohesion-Induced Stabilization in Stick-Slip Dynamics of Weakly Wet, Sheared Granular Fault Gouge. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 2115-2126	3.6	17
42	Evolution of elastic wave speed during shear-induced damage and healing within laboratory fault zones. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 4821-4840	3.6	17
41	Symmetry and the critical slip distance in rate and state friction laws. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 3728-3741	3.6	17
40	Frictional State Evolution During Normal Stress Perturbations Probed With Ultrasonic Waves. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 5469-5491	3.6	15
39	Dynamically triggered slip leading to sustained fault gouge weakening under laboratory shear conditions. *Geophysical Research Letters*, **2016**, 43, 1559-1565	4.9	15
38	The Impact of Frictional Healing on Stick-Slip Recurrence Interval and Stress Drop: Implications for Earthquake Scaling. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 10,102	3.6	15
37	Preseismic Fault Creep and Elastic Wave Amplitude Precursors Scale With Lab Earthquake Magnitude for the Continuum of Tectonic Failure Modes. *Geophysical Research Letters*, **2020**, 47, e2020GL086986	4.9	14
36	Simulating stick-slip failure in a sheared granular layer using a physics-based constitutive model. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 295-307	3.6	13
35	Learning to read fault-slip behavior from fault-zone structure. *Geology*, **2010**, 38, 767-768	5	13
34	Laboratory investigation of the frictional behavior of granular volcanic material. *Journal of Volcanology and Geothermal Research*, **2008**, 173, 265-279	2.8	13
33	Permeability and frictional properties of halite-clay-quartz faults in marine-sediment: The role of compaction and shear. *Marine and Petroleum Geology*, **2016**, 78, 222-235	4.7	13
32	Meso-mechanical analysis of deformation characteristics for dynamically triggered slip in a granular medium. *Philosophical Magazine*, **2012**, 92, 3520-3539	1.6	12
31	Dynamic Stressing of Naturally Fractured Rocks: On the Relation Between Transient Changes in Permeability and Elastic Wave Velocity. *Geophysical Research Letters*, **2020**, 47, e2019GL083557	4.9	12

30	Experimental constraints on the relationship between clay abundance, clay fabric, and frictional behavior for the Central Deforming Zone of the San Andreas Fault. *Geochemistry, Geophysics, Geosystems*, **2016**, 17, 3865-3881	3.6	10
29	The Effects of Shear Strain, Fabric, and Porosity Evolution on Elastic and Mechanical Properties of Clay-Rich Fault Gouge. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 10968-10982	3.6	10
28	Transition from rolling to jamming in thin granular layers. *Physical Review Letters*, **2008**, 101, 248001	7.4	10
27	Application of Constitutive Friction Laws to Glacier Seismicity. *Geophysical Research Letters*, **2020**, 47, e2020GL088964	4.9	10
26	Acoustic Energy Release During the Laboratory Seismic Cycle: Insights on Laboratory Earthquake Precursors and Prediction. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB018975	3.6	10
25	Kinetic Models for Healing of the Subduction Interface Based on Observations of Ancient Accretionary Complexes. *Geochemistry, Geophysics, Geosystems*, **2019**, 20, 3431-3449	3.6	9
24	On the mechanics of granular shear: The effect of normal stress and layer thickness on stick-slip properties. *Tectonophysics*, **2019**, 763, 86-99	3.1	9
23	The transition from steady frictional sliding to inertia-dominated instability with rate and state friction. *Journal of the Mechanics and Physics of Solids*, **2019**, 122, 116-125	5	9
22	Evolution of permeability across the transition from brittle failure to cataclastic flow in porous siltstone. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 2980-2993	3.6	8
21	The Spatiotemporal Evolution of Granular Microslip Precursors to Laboratory Earthquakes. *Geophysical Research Letters*, **2020**, 47, e2020GL088404	4.9	8
20	The Role of Shear Stress in Fault Healing and Frictional Aging. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 10,479-10,495	3.6	8
19	Transformation shear instability and the seismogenic zone for deep earthquakes. *Geophysical Research Letters*, **1997**, 24, 1887-1890	4.9	7
18	Competition between preslip and deviatoric stress modulates precursors for laboratory earthquakes. *Earth and Planetary Science Letters*, **2021**, 553, 116623	5.3	7
17	Geophysics. Do earthquakes rupture piece by piece or all together?. *Science*, **2006**, 313, 1748-9	33.3	5
16	The relationship between fault zone structure and frictional heterogeneity, insight from faults in the High Zagros. *Tectonophysics*, **2019**, 762, 109-120	3.1	4
15	Evolution of Elastic and Mechanical Properties During Fault Shear: The Roles of Clay Content, Fabric Development, and Porosity. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB018612	3.6	4
14	Do Fluids Modify the Stick-Slip Behavior of Sheared Granular Media? **2017**,		4
13	Geophysics. What triggers tremor?. *Science*, **2008**, 319, 166-7	33.3	4

12	Bifurcations at the Stability Transition of Earthquake Faulting. *Geophysical Research Letters*, **2020**, 47, e2020GL087985	4.9	4
11	Deep Learning Can Predict Laboratory Quakes From Active Source Seismic Data. *Geophysical Research Letters*, **2021**, 48, e2021GL093187	4.9	4
10	RESEARCH FOCUS: Connections between fault roughness, dynamic weakening, and fault zone structure. *Geology*, **2016**, 44, 79-80	5	3
9	The Potential for Low-Grade Metamorphism to Facilitate Fault Instability in a Geothermal Reservoir. *Geophysical Research Letters*, **2021**, 48, e2021GL093552	4.9	3
8	A method for determining absolute ultrasonic velocities and elastic properties of experimental shear zones. *International Journal of Rock Mechanics and Minings Sciences*, **2020**, 130, 104306	6	2
7	Attention Network Forecasts Time-to-Failure in Laboratory Shear Experiments. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2021JB022195	3.6	1
6	Machine Learning Predicts the Timing and Shear Stress Evolution of Lab Earthquakes Using Active Seismic Monitoring of Fault Zone Processes. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2020JB021588	3.6	1
5	Nonlinear elastodynamic behavior of intact and fractured rock under in-situ stress and saturation conditions. *Journal of the Mechanics and Physics of Solids*, **2021**, 153, 104491	5	1
4	Frequency-Magnitude Statistics of Laboratory Foreshocks Vary With Shear Velocity, Fault Slip Rate, and Shear Stress. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2021JB022175	3.6	0
3	Frictional controls on the seismogenic zone: Insights from the Apenninic basement, Central Italy. *Earth and Planetary Science Letters*, **2022**, 583, 117444	5.3	0
2	Imaging elastodynamic and hydraulic properties of in-situ fractured rock: An experimental investigation exploring effects of dynamic stressing and shearing. *Journal of Geophysical Research: Solid Earth*,e2020JB021521	3.6	
1	The Role of Deformation Bands in Dictating Poromechanical Properties of Unconsolidated Sand and Sandstone. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC009143	3.6	