

# From field geology to earthquake simulation: a new state of rock friction during the seismic cycle (SHIVA)

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Frictional melting of gabbro under extreme experimental conditions of normal stress, acceleration, and sliding velocity. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	92
2	Principal Slip Zones in Limestone: Microstructural Characterization and Implications for the Seismic Cycle (Tre Monti Fault, Central Apennines, Italy). <i>Pure and Applied Geophysics</i> , 2011, 168, 2365-2393.	0.8	113
3	Fault Roughness at Seismogenic Depths from LIDAR and Photogrammetric Analysis. <i>Pure and Applied Geophysics</i> , 2011, 168, 2345-2363.	0.8	92
4	Pore fluid in experimental calcite-bearing faults: Abrupt weakening and geochemical signature of co-seismic processes. <i>Earth and Planetary Science Letters</i> , 2013, 361, 74-84.	1.8	58
5	Coseismic recrystallization during shallow earthquake slip. <i>Geology</i> , 2013, 41, 63-66.	2.0	123
6	Mirror-like faults and power dissipation during earthquakes. <i>Geology</i> , 2013, 41, 1175-1178.	2.0	124
7	Effect of glass on the frictional behavior of basalts at seismic slip rates. <i>Geophysical Research Letters</i> , 2014, 41, 348-355.	1.5	20
8	Gouge graphitization and dynamic fault weakening during the 2008 Mw 7.9 Wenchuan earthquake. <i>Geology</i> , 2014, 42, 47-50.	2.0	89
9	A rotary-shear low to high-velocity friction apparatus in Beijing to study rock friction at plate to seismic slip rates. <i>Earthquake Science</i> , 2014, 27, 469-497.	0.4	51
10	Effect of water on the frictional behavior of cohesive rocks during earthquakes. <i>Geology</i> , 2014, 42, 27-30.	2.0	72
11	Clast-cortex aggregates in experimental and natural calcite-bearing fault zones. <i>Journal of Structural Geology</i> , 2014, 68, 142-157.	1.0	26
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13	Dynamic weakening of serpentinite gouges and bare surfaces at seismic slip rates. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8107-8131.	1.4	70
14	Fast-moving dislocations trigger flash weakening in carbonate-bearing faults during earthquakes. <i>Scientific Reports</i> , 2015, 5, 16112.	1.6	61
15	Thermo-mechanical pressurization of experimental faults in cohesive rocks during seismic slip. <i>Earth and Planetary Science Letters</i> , 2015, 429, 1-10.	1.8	54
16	Catastrophic emplacement of giant landslides aided by thermal decomposition: Heart Mountain, Wyoming. <i>Earth and Planetary Science Letters</i> , 2015, 411, 199-207.	1.8	68
17	Strain localization and the onset of dynamic weakening in calcite fault gouge. <i>Earth and Planetary Science Letters</i> , 2015, 413, 25-36.	1.8	75
18	Pseudotachylyte and Fluid Alteration at Seismogenic Depths (Glacier Lakes and Granite Pass Faults,) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	0.8	3

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19	Frictional properties of fault zone gouges from the JFAST drilling project ( <i>M<sub>w</sub></i> 9.0). <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7490-7513.	1.5	31
20	Dislocation Motion and the Microphysics of Flash Heating and Weakening of Faults during Earthquakes. <i>Crystals</i> , 2016, 6, 83.	1.0	6
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22	G: Fracture energy, friction and dissipation in earthquakes. <i>Journal of Seismology</i> , 2016, 20, 1187-1205.	0.6	42
23	Frictional evolution, acoustic emissions activity, and off-fault damage in simulated faults sheared at seismic slip rates. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7490-7513.	1.4	56
24	An empirically based steady state friction law and implications for fault stability. <i>Geophysical Research Letters</i> , 2016, 43, 3263-3271.	1.5	35
25	Production of nanoparticles during experimental deformation of smectite and implications for seismic slip. <i>Earth and Planetary Science Letters</i> , 2017, 463, 221-231.	1.8	31
26	The effect of water on strain localization in calcite fault gouge sheared at seismic slip rates. <i>Journal of Structural Geology</i> , 2017, 97, 104-117.	1.0	26
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29	Carbonate hosted fault rocks: A review of structural and microstructural characteristic with implications for seismicity in the upper crust. <i>Journal of Structural Geology</i> , 2017, 103, 17-36.	1.0	39
30	Ultra-thin clay layers facilitate seismic slip in carbonate faults. <i>Scientific Reports</i> , 2017, 7, 664.	1.6	18
31	Earthquakes in the Mantle? Insights From Rock Magnetism of Pseudotachylytes. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8769-8785.	1.4	10
32	Fault gouge graphitization as evidence of past seismic slip. <i>Geology</i> , 2017, 45, 979-982.	2.0	40
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38	Grain Size Sensitive Creep During Simulated Seismic Slip in Nanogranular Fault Gouges: Constraints From Transmission Kikuchi Diffraction (TKD). <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10197-10209.	1.4	15
39	Development of crystallographic preferred orientation during cataclasis in low-temperature carbonate fault gouge. <i>Journal of Structural Geology</i> , 2019, 126, 37-50.	1.0	19
40	Grain Fragmentation and Frictional Melting During Initial Experimental Deformation and Implications for Seismic Slip at Shallow Depths. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 11150-11169.	1.4	11
41	Rheological Controls on Asperity Weakening During Earthquake Slip. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12736-12762.	1.4	6
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49	Fluid pressurisation and earthquake propagation in the Hikurangi subduction zone. <i>Nature Communications</i> , 2021, 12, 2481.	5.8	24
50	Fast and Localized Temperature Measurements During Simulated Earthquakes in Carbonate Rocks. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091856.	1.5	14
51	Selective clast survival in an experimentally-produced pseudotachylite. <i>Journal of Structural Geology</i> , 2021, 147, 104328.	1.0	6
52	Frictional properties of basalt experimental faults and implications for volcano-tectonic settings and geo-energy sites. <i>Tectonophysics</i> , 2021, 811, 228883.	0.9	6
53	Frictional Melting in Hydrothermal Fluid-Rich Faults: Field and Experimental Evidence From the Bolfan Fault Zone (Chile). <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009743.	1.0	8
54	A displacement-dependent moment tensor method for simulating fault-slip induced seismicity. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	5
55	Fault Friction During Simulated Seismic Slip Pulses. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022149.	1.4	7

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58	Raman Spectral Shifts in Naturally Faulted Rocks. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009923.	1.0	8
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60	Investigations and new insights on earthquake mechanics from fault slip experiments. <i>Earth-Science Reviews</i> , 2022, 228, 104019.	4.0	34
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67	Large dynamic range, high resolution optical heterodyne readout for high velocity slip events. <i>Review of Scientific Instruments</i> , 2022, 93, 064503.	0.6	0
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