

# Zeev Reches

## List of Publications by Citations

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33  
papers

1,407  
citations

15  
h-index

37  
g-index

38  
ext. papers

1,644  
ext. citations

7.9  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
33	Nucleation and growth of faults in brittle rocks. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 18159-18173		339
32	Particle size and energetics of gouge from earthquake rupture zones. <i>Nature</i> , <b>2005</b> , 434, 749-52	50.4	205
31	Fault weakening and earthquake instability by powder lubrication. <i>Nature</i> , <b>2010</b> , 467, 452-5	50.4	197
30	Gouge formation by dynamic pulverization during earthquake rupture. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 235, 361-374	5.3	136
29	Interseismic fault strengthening and earthquake-slip instability: Friction or cohesion?. <i>Geology</i> , <b>2003</b> , 31, 881	5	72
28	Dynamic fracturing: field and experimental observations. <i>Journal of Structural Geology</i> , <b>2001</b> , 23, 1223-1339	3.3	59
27	Dynamic fracture by large extraterrestrial impacts as the origin of shatter cones. <i>Nature</i> , <b>2002</b> , 418, 310-3	50.4	53
26	Fault mirrors along carbonate faults: Formation and destruction during shear experiments. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 430, 367-376	5.3	48
25	Dynamic weakening by nanoscale smoothing during high-velocity fault slip. <i>Geology</i> , <b>2013</b> , 41, 739-742	5	41
24	Mechanisms of slip nucleation during earthquakes. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 170, 475-486	5.3	37
23	Geotribology - Friction, wear, and lubrication of faults. <i>Tectonophysics</i> , <b>2018</b> , 733, 171-181	3.1	30
22	Slip Sequences in Laboratory Experiments Resulting from Inhomogeneous Shear as Analogs of Earthquakes Associated with a Fault Edge. <i>Pure and Applied Geophysics</i> , <b>2011</b> , 168, 2151-2166	2.2	25
21	The Role of Adsorbed Water on the Friction of a Layer of Submicron Particles. <i>Pure and Applied Geophysics</i> , <b>2011</b> , 168, 2325-2334	2.2	20
20	Fault strength evolution during high velocity friction experiments with slip-pulse and constant-velocity loading. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 406, 93-101	5.3	19
19	Fault damage zone at subsurface: A case study using 3D seismic attributes and a clay model analog for the Anadarko Basin, Oklahoma. <i>Interpretation</i> , <b>2017</b> , 5, T143-T150	1.4	15
18	The frictional strength of talc gouge in high-velocity shear experiments. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 3661-3676	3.6	14
17	Dynamic fracture of granular material under quasi-static loading. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		14

16	Friction Evolution of Granitic Faults: Heating Controlled Transition From Powder Lubrication to Frictional Melt. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 9275-9289	3.6	13
15	Asperity Failure Control of Stick-Slip Along Brittle Faults. <i>Pure and Applied Geophysics</i> , <b>2020</b> , 177, 3225-3242		13
14	Shear heating and clumped isotope reordering in carbonate faults. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 445, 136-145	5.3	11
13	Fault Wear by Damage Evolution During Steady-State Slip. <i>Pure and Applied Geophysics</i> , <b>2014</b> , 171, 3143-3157	3.1	10
12	Analysis of fault damage zones using three-dimensional seismic coherence in the Anadarko Basin, Oklahoma. <i>AAPG Bulletin</i> , <b>2019</b> , 103, 1771-1785	2.5	9
11	Powder Rolling as a Mechanism of Dynamic Fault Weakening. <i>Geophysical Monograph Series</i> , <b>2017</b> , 133-150		5
10	Calibration of surface seismic attributes to natural fractures using horizontal image logs, Mississippian Lime, Osage County, Oklahoma <b>2012</b> ,		5
9	Weakening Mechanisms of Alpine Fault Gouge in High-Velocity Shear Experiments. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 7413-7428	3.6	3
8	Energy-flux control of the steady-state, creep, and dynamic slip modes of faults. <i>Scientific Reports</i> , <b>2019</b> , 9, 10627	4.9	3
7	An experimentally-based friction law for high-velocity, long-displacement slip-pulse events during earthquakes. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 515, 209-220	5.3	2
6	Composite damage zones in the subsurface. <i>Geophysical Journal International</i> , <b>2020</b> , 222, 225-230	2.6	2
5	Modeling Dynamic-Weakening and Dynamic-Strengthening of Granite in High-Velocity Slip Experiments <b>2013</b> ,		2
4	Dynamic Frictional Slip Along Rock Faults. <i>Journal of Tribology</i> , <b>2020</b> , 142,	1.8	2
3	Dynamic fault weakening during earthquakes: Rupture or friction?. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 575, 117165	5.3	2
2	Fracture analysis using 3D seismic attributes in the Hunton Limestone, Oklahoma, USA <b>2010</b> ,		1
1	Constraining the Far-Field Stress State near a Deep South African Gold Mine. <i>ASEG Extended Abstracts</i> , <b>2007</b> , 2007, 1-5	0.2	