Ze'ev Reches

List of Publications by Year in descending order

40 papers	3,412 citations	249298 26 h-index	299063 42 g-index
43 all docs	43 docs citations	43 times ranked	2174 citing authors

#	Article	IF	Citations
1	Asymmetry of faults and stress patterns within the Dead Sea basin as displayed by seismological analysis. Tectonophysics, 2021, 819, 229069.	0.9	4
2	Dynamic fault weakening during earthquakes: Rupture or friction?. Earth and Planetary Science Letters, 2021, 575, 117165.	1.8	11
3	Composite damage zones in the subsurface. Geophysical Journal International, 2020, 222, 225-230.	1.0	5
4	Weakening Mechanisms of Alpine Fault Gouge in Highâ€Velocity Shear Experiments. Journal of Geophysical Research: Solid Earth, 2019, 124, 7413-7428.	1.4	4
5	Energy-flux control of the steady-state, creep, and dynamic slip modes of faults. Scientific Reports, 2019, 9, 10627.	1.6	6
6	An experimentally-based friction law for high-velocity, long-displacement slip-pulse events during earthquakes. Earth and Planetary Science Letters, 2019, 515, 209-220.	1.8	7
7	The frictional strength of talc gouge in highâ€velocity shear experiments. Journal of Geophysical Research: Solid Earth, 2017, 122, 3661-3676.	1.4	20
8	Friction Evolution of Granitic Faults: Heating Controlled Transition From Powder Lubrication to Frictional Melt. Journal of Geophysical Research: Solid Earth, 2017, 122, 9275-9289.	1.4	20
9	Shear heating and clumped isotope reordering in carbonate faults. Earth and Planetary Science Letters, 2016, 445, 136-145.	1.8	15
10	Fault mirrors along carbonate faults: Formation and destruction during shear experiments. Earth and Planetary Science Letters, 2015, 430, 367-376.	1.8	60
11	Fault strength evolution during high velocity friction experiments with slip-pulse and constant-velocity loading. Earth and Planetary Science Letters, 2014, 406, 93-101.	1.8	21
12	Fault weakening and earthquake instability by powder lubrication. Nature, 2010, 467, 452-455.	13.7	249
13	Stable and unstable damage evolution in rocks with implications to fracturing of granite. Geophysical Journal International, 2006, 167, 1005-1016.	1.0	49
14	Particle size and energetics of gouge from earthquake rupture zones. Nature, 2005, 434, 749-752.	13.7	247
15	Gouge formation by dynamic pulverization during earthquake rupture. Earth and Planetary Science Letters, 2005, 235, 361-374.	1.8	166
16	Microfracturing, damage, and failure of brittle granites. Journal of Geophysical Research, 2004, 109, .	3.3	86
17	Hierarchic three-dimensional structure and slip partitioning in the western Dead Sea pull-apart. Tectonics, 2003, 22, n/a-n/a.	1.3	53
18	Interseismic fault strengthening and earthquake-slip instability: Friction or cohesion?. Geology, 2003, 31, 881.	2.0	87

#	Article	IF	Citations
19	Dynamic fracture by large extraterrestrial impacts as the origin of shatter cones. Nature, 2002, 418, 310-313.	13.7	60
20	Mechanisms of slip nucleation during earthquakes. Earth and Planetary Science Letters, 1999, 170, 475-486.	1.8	43
21	Non-linear elastic behaviour of damaged rocks. Geophysical Journal International, 1997, 130, 157-166.	1.0	91
22	Frictional rheology: hardening by rotation of active normal faults. Tectonophysics, 1995, 247, 239-254.	0.9	7
23	Nucleation and growth of faults in brittle rocks. Journal of Geophysical Research, 1994, 99, 18159-18173.	3.3	429
24	Dikes emplaced into fractured basement, Timna Igneous Complex, Israel. Journal of Geophysical Research, 1994, 99, 24039-24050.	3.3	87
25	Constraints on the strength of the upper crust from stress inversion of fault slip data. Journal of Geophysical Research, 1992, 97, 12481-12493.	3.3	47
26	Structure and paleostresses in the Gilboa' region, western margins of the central Dead Sea rift. Tectonophysics, 1990, 180, 87-100.	0.9	23
27	Holocene tectonic deformation along the western margins of the Dead Sea. Tectonophysics, 1990, 180, 123-137.	0.9	48
28	Doming mechanisms and structural development of two domes in Ramon, southern Israel. Tectonophysics, 1989, 166, 293-315.	0.9	16
29	The mechanism of intrusion of the Inyo Dike, Long Valley Caldera, California. Journal of Geophysical Research, 1988, 93, 4321-4334.	3.3	66
30	Mechanical aspects of pull-apart basins and push-up swells with applications to the Dead Sea transform. Tectonophysics, 1987, 141, 75-88.	0.9	70
31	Models of postâ€Miocene deformation of the Arabian Plate. Tectonics, 1987, 6, 707-725.	1.3	13
32	Determination of the tectonic stress tensor from slip along faults that obey the Coulomb yield condition. Tectonics, 1987, 6, 849-861.	1.3	194
33	Faulting of rocks in three-dimensional strain fields I. Failure of rocks in polyaxial, servo-control experiments. Tectonophysics, 1983, 95, 111-132.	0.9	159
34	Tectonic analysis of the Dead Sea Rift Region since the Lateâ€Cretaceous based on mesostructures. Tectonics, 1983, 2, 167-185.	1.3	181
35	Faulting of rocks in three-dimensional strain fields II. Theoretical analysis. Tectonophysics, 1983, 95, 133-156.	0.9	234
36	Number and orientation of fault sets in the field and in experiments. Geology, 1982, 10, 107.	2.0	120

#	Article	IF	Citations
37	Holocene seismic and tectonic activity in the Dead Sea area. Tectonophysics, 1981, 80, 235-254.	0.9	104
38	THE STRUCTURE OF A MONOCLINE IN THE SYRIAN ARC SYSTEM, MIDDLE EAST-SURFACE AND SUBSURFACE ANALYSIS. Journal of Petroleum Geology, 1981, 3, 413-426.	0.9	32
39	Analysis of faulting in three-dimensional strain field. Tectonophysics, 1978, 47, 109-129.	0.9	238
40	Analysis of joints in two monoclines in Israel. Bulletin of the Geological Society of America, 1976, 87, 1654.	1.6	31