

Ze'ev Reches

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11035143/publications.pdf>

Version: 2024-02-01

40
papers

3,412
citations

218662

26
h-index

265191

42
g-index

43
all docs

43
docs citations

43
times ranked

1925
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleation and growth of faults in brittle rocks. <i>Journal of Geophysical Research</i> , 1994, 99, 18159-18173.	3.3	429
2	Fault weakening and earthquake instability by powder lubrication. <i>Nature</i> , 2010, 467, 452-455.	27.8	249
3	Particle size and energetics of gouge from earthquake rupture zones. <i>Nature</i> , 2005, 434, 749-752.	27.8	247
4	Analysis of faulting in three-dimensional strain field. <i>Tectonophysics</i> , 1978, 47, 109-129.	2.2	238
5	Faulting of rocks in three-dimensional strain fields II. Theoretical analysis. <i>Tectonophysics</i> , 1983, 95, 133-156.	2.2	234
6	Determination of the tectonic stress tensor from slip along faults that obey the Coulomb yield condition. <i>Tectonics</i> , 1987, 6, 849-861.	2.8	194
7	Tectonic analysis of the Dead Sea Rift Region since the Late Cretaceous based on mesostructures. <i>Tectonics</i> , 1983, 2, 167-185.	2.8	181
8	Gouge formation by dynamic pulverization during earthquake rupture. <i>Earth and Planetary Science Letters</i> , 2005, 235, 361-374.	4.4	166
9	Faulting of rocks in three-dimensional strain fields I. Failure of rocks in polyaxial, servo-control experiments. <i>Tectonophysics</i> , 1983, 95, 111-132.	2.2	159
10	Number and orientation of fault sets in the field and in experiments. <i>Geology</i> , 1982, 10, 107.	4.4	120
11	Holocene seismic and tectonic activity in the Dead Sea area. <i>Tectonophysics</i> , 1981, 80, 235-254.	2.2	104
12	Non-linear elastic behaviour of damaged rocks. <i>Geophysical Journal International</i> , 1997, 130, 157-166.	2.4	91
13	Dikes emplaced into fractured basement, Timna Igneous Complex, Israel. <i>Journal of Geophysical Research</i> , 1994, 99, 24039-24050.	3.3	87
14	Interseismic fault strengthening and earthquake-slip instability: Friction or cohesion?. <i>Geology</i> , 2003, 31, 881.	4.4	87
15	Microfracturing, damage, and failure of brittle granites. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
16	Mechanical aspects of pull-apart basins and push-up swells with applications to the Dead Sea transform. <i>Tectonophysics</i> , 1987, 141, 75-88.	2.2	70
17	The mechanism of intrusion of the Inyo Dike, Long Valley Caldera, California. <i>Journal of Geophysical Research</i> , 1988, 93, 4321-4334.	3.3	66
18	Dynamic fracture by large extraterrestrial impacts as the origin of shatter cones. <i>Nature</i> , 2002, 418, 310-313.	27.8	60

#	ARTICLE	IF	CITATIONS
19	Fault mirrors along carbonate faults: Formation and destruction during shear experiments. <i>Earth and Planetary Science Letters</i> , 2015, 430, 367-376.	4.4	60
20	Hierarchic three-dimensional structure and slip partitioning in the western Dead Sea pull-apart. <i>Tectonics</i> , 2003, 22, n/a-n/a.	2.8	53
21	Stable and unstable damage evolution in rocks with implications to fracturing of granite. <i>Geophysical Journal International</i> , 2006, 167, 1005-1016.	2.4	49
22	Holocene tectonic deformation along the western margins of the Dead Sea. <i>Tectonophysics</i> , 1990, 180, 123-137.	2.2	48
23	Constraints on the strength of the upper crust from stress inversion of fault slip data. <i>Journal of Geophysical Research</i> , 1992, 97, 12481-12493.	3.3	47
24	Mechanisms of slip nucleation during earthquakes. <i>Earth and Planetary Science Letters</i> , 1999, 170, 475-486.	4.4	43
25	THE STRUCTURE OF A MONOCLINE IN THE SYRIAN ARC SYSTEM, MIDDLE EAST-SURFACE AND SUBSURFACE ANALYSIS. <i>Journal of Petroleum Geology</i> , 1981, 3, 413-426.	1.5	32
26	Analysis of joints in two monoclines in Israel. <i>Bulletin of the Geological Society of America</i> , 1976, 87, 1654.	3.3	31
27	Structure and paleostresses in the Gilboa' region, western margins of the central Dead Sea rift. <i>Tectonophysics</i> , 1990, 180, 87-100.	2.2	23
28	Fault strength evolution during high velocity friction experiments with slip-pulse and constant-velocity loading. <i>Earth and Planetary Science Letters</i> , 2014, 406, 93-101.	4.4	21
29	The frictional strength of talc gouge in high-velocity shear experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3661-3676.	3.4	20
30	Friction Evolution of Granitic Faults: Heating Controlled Transition From Powder Lubrication to Frictional Melt. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9275-9289.	3.4	20
31	Doming mechanisms and structural development of two domes in Ramon, southern Israel. <i>Tectonophysics</i> , 1989, 166, 293-315.	2.2	16
32	Shear heating and clumped isotope reordering in carbonate faults. <i>Earth and Planetary Science Letters</i> , 2016, 445, 136-145.	4.4	15
33	Models of post-Miocene deformation of the Arabian Plate. <i>Tectonics</i> , 1987, 6, 707-725.	2.8	13
34	Dynamic fault weakening during earthquakes: Rupture or friction?. <i>Earth and Planetary Science Letters</i> , 2021, 575, 117165.	4.4	11
35	Frictional rheology: hardening by rotation of active normal faults. <i>Tectonophysics</i> , 1995, 247, 239-254.	2.2	7
36	An experimentally-based friction law for high-velocity, long-displacement slip-pulse events during earthquakes. <i>Earth and Planetary Science Letters</i> , 2019, 515, 209-220.	4.4	7

#	ARTICLE	IF	CITATIONS
37	Energy-flux control of the steady-state, creep, and dynamic slip modes of faults. Scientific Reports, 2019, 9, 10627.	3.3	6
38	Composite damage zones in the subsurface. Geophysical Journal International, 2020, 222, 225-230.	2.4	5
39	Weakening Mechanisms of Alpine Fault Gouge in High-Velocity Shear Experiments. Journal of Geophysical Research: Solid Earth, 2019, 124, 7413-7428.	3.4	4
40	Asymmetry of faults and stress patterns within the Dead Sea basin as displayed by seismological analysis. Tectonophysics, 2021, 819, 229069.	2.2	4