

Yuri Fialko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5344758/publications.pdf>

Version: 2024-02-01

83
papers

6,582
citations

57752

44
h-index

66906

78
g-index

88
all docs

88
docs citations

88
times ranked

4114
citing authors

#	ARTICLE	IF	CITATIONS
1	The complete (3-D) surface displacement field in the epicentral area of the 1999Mw7.1 Hector Mine Earthquake, California, from space geodetic observations. <i>Geophysical Research Letters</i> , 2001, 28, 3063-3066.	4.0	458
2	Three-dimensional deformation caused by the Bam, Iran, earthquake and the origin of shallow slip deficit. <i>Nature</i> , 2005, 435, 295-299.	27.8	403
3	Coseismic Deformation from the 1999 Mw 7.1 Hector Mine, California, Earthquake as Inferred from InSAR and GPS Observations. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1390-1402.	2.3	384
4	Interseismic strain accumulation and the earthquake potential on the southern San Andreas fault system. <i>Nature</i> , 2006, 441, 968-971.	27.8	340
5	Deformation due to a pressurized horizontal circular crack in an elastic half-space, with applications to volcano geodesy. <i>Geophysical Journal International</i> , 2001, 146, 181-190.	2.4	272
6	Seismic and geodetic evidence for extensive, long-lived fault damage zones. <i>Geology</i> , 2009, 37, 315-318.	4.4	222
7	Evidence of fluid-filled upper crust from observations of postseismic deformation due to the 1992Mw7.3 Landers earthquake. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	194
8	Probing the mechanical properties of seismically active crust with space geodesy: Study of the coseismic deformation due to the 1992Mw7.3 Landers (southern California) earthquake. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	189
9	Postseismic deformation due to the M_w 6.0 2004 Parkfield earthquake: Stress-driven creep on a fault with spatially variable rate and state friction parameters. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	178
10	Deformation on Nearby Faults Induced by the 1999 Hector Mine Earthquake. <i>Science</i> , 2002, 297, 1858-1862.	12.6	171
11	A unified continuum representation of post-seismic relaxation mechanisms: semi-analytic models of afterslip, poroelastic rebound and viscoelastic flow. <i>Geophysical Journal International</i> , 2010, 182, 1124-1140.	2.4	159
12	Shallow slip deficit due to large strike-slip earthquakes in dynamic rupture simulations with elasto-plastic off-fault response. <i>Geophysical Journal International</i> , 2011, 186, 1389-1403.	2.4	131
13	Slip model of the 2015 M_w 7.8 Gorkha (Nepal) earthquake from inversions of ALOS-2 and GPS data. <i>Geophysical Research Letters</i> , 2015, 42, 7452-7458.	4.0	129
14	Thermal and mechanical aspects of magma emplacement in giant dike swarms. <i>Journal of Geophysical Research</i> , 1999, 104, 23033-23049.	3.3	127
15	Deformation and seismicity in the Coso geothermal area, Inyo County, California: Observations and modeling using satellite radar interferometry. <i>Journal of Geophysical Research</i> , 2000, 105, 21781-21793.	3.3	119
16	Coseismic slip model of the 2008 Wenchuan earthquake derived from joint inversion of interferometric synthetic aperture radar, GPS, and field data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	111
17	Fusion by earthquake fault friction: Stick or slip?. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	100
18	Thermodynamics of lateral dike propagation: Implications for crustal accretion at slow spreading mid-ocean ridges. <i>Journal of Geophysical Research</i> , 1998, 103, 2501-2514.	3.3	99

#	ARTICLE	IF	CITATIONS
19	Mitigation of atmospheric phase delays in InSAR data, with application to the eastern California shear zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5952-5963.	3.4	98
20	A Quantitative Assessment of DInSAR Measurements of Interseismic Deformation: The Southern San Andreas Fault Case Study. <i>Pure and Applied Geophysics</i> , 2012, 169, 1463-1482.	1.9	97
21	Geodetic slip rates in the southern San Andreas Fault system: Effects of elastic heterogeneity and fault geometry. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 689-697.	3.4	93
22	Observations and Modeling of Coseismic and Postseismic Deformation Due To the 2015 M_w 7.8 Gorkha (Nepal) Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 761-779.	3.4	92
23	Interseismic deformation and creep along the central section of the North Anatolian Fault (Turkey): InSAR observations and implications for rate- and state friction properties. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 316-331.	3.4	85
24	Localized and distributed creep along the southern San Andreas Fault. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7909-7922.	3.4	82
25	Space geodetic investigation of the coseismic and postseismic deformation due to the 2003 M_w 7.2 Altai earthquake: Implications for the local lithospheric rheology. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	81
26	Sombrero Uplift Above the Altiplano-Puna Magma Body: Evidence of a Ballooning Mid-Crustal Diapir. <i>Science</i> , 2012, 338, 250-252.	12.6	78
27	Finite source modelling of magmatic unrest in Socorro, New Mexico, and Long Valley, California. <i>Geophysical Journal International</i> , 2001, 146, 191-200.	2.4	77
28	The 1999 (M_w 7.1) Hector Mine, California, Earthquake: Near-Field Postseismic Deformation from ERS Interferometry. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1433-1442.	2.3	73
29	Fourier-domain Green's function for an elastic semi-infinite solid under gravity, with applications to earthquake and volcano deformation. <i>Geophysical Journal International</i> , 0, 182, 568-582.	2.4	71
30	Upper-plate controls on co-seismic slip in the 2011 magnitude 9.0 Tohoku-oki earthquake. <i>Nature</i> , 2016, 531, 92-96.	27.8	69
31	Warping and cracking of the Pacific plate by thermal contraction. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	68
32	Slip on faults in the Imperial Valley triggered by the 4 April 2010 M_w 7.2 El Mayor-Cucapah earthquake revealed by InSAR. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	68
33	Evidence for on-going inflation of the Socorro Magma Body, New Mexico, from interferometric synthetic aperture radar imaging. <i>Geophysical Research Letters</i> , 2001, 28, 3549-3552.	4.0	67
34	"Melt wet" mechanism of extreme weakening of gabbro at seismic slip rates. <i>Nature</i> , 2012, 488, 638-641.	27.8	67
35	El Mayor-Cucapah (M_w 7.2) earthquake: Early near-field postseismic deformation from InSAR and GPS observations. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1482-1497.	3.4	66
36	Dynamic models of interseismic deformation and stress transfer from plate motion to continental transform faults. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	58

#	ARTICLE	IF	CITATIONS
37	Finite Slip Models of the 2019 Ridgecrest Earthquake Sequence Constrained by Space Geodetic Data and Aftershock Locations. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 1660-1679.	2.3	56
38	Coseismic and Early Postseismic Deformation Due to the 2021 M7.4 Maduo (China) Earthquake. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095213.	4.0	56
39	Interseismic Strain Localization in the San Jacinto Fault Zone. <i>Pure and Applied Geophysics</i> , 2014, 171, 2937-2954.	1.9	54
40	Temperature fields generated by the elastodynamic propagation of shear cracks in the Earth. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	51
41	Three-dimensional models of elastostatic deformation in heterogeneous media, with applications to the Eastern California Shear Zone. <i>Geophysical Journal International</i> , 2009, 179, 500-520.	2.4	50
42	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
43	A silent <i>M</i> 4.7 slip event of October 2006 on the Superstition Hills fault, southern California. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	49
44	Structure and mechanical properties of faults in the North Anatolian Fault system from InSAR observations of coseismic deformation due to the 1999 Izmit (Turkey) earthquake. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	47
45	Temperature dependence of frictional healing of Westerly granite: Experimental observations and numerical simulations. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 567-582.	2.5	46
46	Slow Slip Event On the Southern San Andreas Fault Triggered by the 2017 <i>M</i> 8.2 Chiapas (Mexico) Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9956-9975.	3.4	46
47	On origin of near-axis volcanism and faulting at fast spreading mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 2001, 190, 31-39.	4.4	45
48	Effect of a compliant fault zone on the inferred earthquake slip distribution. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
49	The Community Code Verification Exercise for Simulating Sequences of Earthquakes and Aseismic Slip (SEAS). <i>Seismological Research Letters</i> , 2020, 91, 874-890.	1.9	43
50	Estimate of differential stress in the upper crust from variations in topography and strike along the San Andreas fault. <i>Geophysical Journal International</i> , 2005, 160, 527-532.	2.4	41
51	Frictional properties of gabbro at conditions corresponding to slow slip events in subduction zones. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4006-4020.	2.5	41
52	Fracture criteria at the tip of fluid-driven cracks in the Earth. <i>Geophysical Research Letters</i> , 1995, 22, 2541-2544.	4.0	39
53	Space geodetic observations and models of postseismic deformation due to the 2005 <i>M</i> 7.6 Kashmir (Pakistan) earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7306-7318.	3.4	38
54	Numerical simulation of high-pressure rock tensile fracture experiments: Evidence of an increase in fracture energy with pressure?. <i>Journal of Geophysical Research</i> , 1997, 102, 5231-5242.	3.3	36

#	ARTICLE	IF	CITATIONS
55	Hydrologic detection and finite element modeling of a slow slip event in the Costa Rica prism toe. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	36
56	A comparison of long-term changes in seismicity at The Geysers, Salton Sea, and Coso geothermal fields. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 225-247.	3.4	36
57	Mechanics of active magmatic intraplate tectonics in the Rio Grande Rift near Socorro, New Mexico. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	35
58	Velocity-weakening behavior of Westerly granite at temperature up to 600°C. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6932-6946.	3.4	34
59	What controls the along-strike slopes of volcanic rift zones?. <i>Journal of Geophysical Research</i> , 1999, 104, 20007-20020.	3.3	33
60	On the effects of thermally weakened ductile shear zones on postseismic deformation. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 6295-6310.	3.4	33
61	Geodetic constraints on frictional properties and earthquake hazard in the Imperial Valley, Southern California. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1097-1113.	3.4	32
62	Rising of the lowest place on Earth due to Dead Sea water level drop: Evidence from SAR interferometry and GPS. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	31
63	Geodetic investigation into the deformation of the Salton Trough. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5030-5039.	3.4	31
64	Experimental investigation of frictional melting of argillite at high slip rates: Implications for seismic slip in subduction accretion complexes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	27
65	Improving Burst Alignment in TOPS Interferometry With Bivariate Enhanced Spectral Diversity. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 2423-2427.	3.1	22
66	Simple shear origin of the cross-faults ruptured in the 2019 Ridgecrest earthquake sequence. <i>Nature Geoscience</i> , 2021, 14, 513-518.	12.9	22
67	Reconciling seismicity and geodetic locking depths on the Anza section of the San Jacinto fault. <i>Geophysical Research Letters</i> , 2016, 43, 10,663.	4.0	21
68	Why do kimberlites from different provinces have similar trace element patterns?. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	18
69	Variations in the long-term uplift rate due to the Altiplano-Puna magma body observed with Sentinel-1 interferometry. <i>Earth and Planetary Science Letters</i> , 2018, 491, 43-47.	4.4	18
70	Estimation of Absolute Stress in the Hypocentral Region of the 2019 Ridgecrest, California, Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022000.	3.4	18
71	Geodetic Evidence for a Blind Fault Segment at the Southern End of the San Jacinto Fault Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 878-891.	3.4	17
72	Survey and Continuous GNSS in the Vicinity of the July 2019 Ridgecrest Earthquakes. <i>Seismological Research Letters</i> , 2020, 91, 2047-2054.	1.9	17

#	ARTICLE	IF	CITATIONS
73	Subsidence at Cerro Prieto Geothermal Field and postseismic slip along the Indiviso fault from 2011 to 2016 RADARSAT DInSAR time series analysis. <i>Geophysical Research Letters</i> , 2017, 44, 2716-2724.	4.0	16
74	Can compliant fault zones be used to measure absolute stresses in the upper crust?. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14
75	Fracture and Frictional Mechanics: Theory. , 2015, , 73-91.		12
76	Tidal modulation of seismicity at the Coso geothermal field. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117335.	4.4	11
77	Obtaining Absolute Locations for Quarry Seismicity Using Remote Sensing Data. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, 722-728.	2.3	10
78	Fracture and Frictional Mechanics " Theory. , 2007, , 83-106.		8
79	Lithospheric Deformation Due To the 2015 M7.2 Sarez (Pamir) Earthquake Constrained by 5 years of Space Geodetic Observations. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	7
80	General Seismic Architecture of the Southern San Andreas Fault Zone around the Thousand Palms Oasis from a Large-N Nodal Array. <i>The Seismic Record</i> , 2022, 2, 50-58.	3.1	6
81	Fracture and Frictional Mechanics " Theory. , 2007, , 83-106.		3
82	Comment on "Deformation of compliant fault zones induced by nearby earthquakes: Theoretical investigations in two dimensions" by Benchun Duan et al.. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	2
83	Damage rheology and stable versus unstable fracturing of rocks. , 2009, , 133-144.		0