Yuri Fialko

List of Publications by Citations

82 papers	5,091 citations	40 h-index	71 g-index
88 ext. papers	5,865 ext. citations	8 avg, IF	6.23 L-index

#	Paper	IF	Citations
82	The complete (3-D) surface displacement field in the epicentral area of the 1999 MW7.1 Hector Mine Earthquake, California, from space geodetic observations. *Geophysical Research Letters*, **2001**, 28, 3063-3066	4.9	345
81	Three-dimensional deformation caused by the Bam, Iran, earthquake and the origin of shallow slip deficit. *Nature*, **2005**, 435, 295-9	50.4	332
80	Coseismic Deformation from the 1999 Mw 7.1 Hector Mine, California, Earthquake as Inferred from InSAR and GPS Observations. *Bulletin of the Seismological Society of America*, **2002**, 92, 1390-1402	2.3	308
79	Interseismic strain accumulation and the earthquake potential on the southern San Andreas fault system. *Nature*, **2006**, 441, 968-71	50.4	284
78	Deformation due to a pressurized horizontal circular crack in an elastic half-space, with applications to volcano geodesy. *Geophysical Journal International*, **2001**, 146, 181-190	2.6	235
77	Seismic and geodetic evidence for extensive, long-lived fault damage zones. *Geology*, **2009**, 37, 315-318	5	176
76	Evidence of fluid-filled upper crust from observations of postseismic deformation due to the 1992 Mw7.3 Landers earthquake. *Journal of Geophysical Research*, **2004**, 109,		158
75	Probing the mechanical properties of seismically active crust with space geodesy: Study of the coseismic deformation due to the 1992 Mw7.3 Landers (southern California) earthquake. *Journal of Geophysical Research*, **2004**, 109,		155
74	Deformation on nearby faults induced by the 1999 Hector Mine earthquake. *Science*, **2002**, 297, 1858-62	33.3	149
73	Postseismic deformation due to the Mw 6.0 2004 Parkfield earthquake: Stress-driven creep on a fault with spatially variable rate-and-state friction parameters. *Journal of Geophysical Research*, **2009**, 114,		137
72	A unified continuum representation of post-seismic relaxation mechanisms: semi-analytic models of afterslip, poroelastic rebound and viscoelastic flow. *Geophysical Journal International*, **2010**, 182, 1124-1140	2.6	121
71	Slip model of the 2015 Mw 7.8 Gorkha (Nepal) earthquake from inversions of ALOS-2 and GPS data. *Geophysical Research Letters*, **2015**, 42, 7452-7458	4.9	105
70	Deformation and seismicity in the Coso geothermal area, Inyo County, California: Observations and modeling using satellite radar interferometry. *Journal of Geophysical Research*, **2000**, 105, 21781-21793		104
69	Shallow slip deficit due to large strike-slip earthquakes in dynamic rupture simulations with elasto-plastic off-fault response. *Geophysical Journal International*, **2011**, 186, 1389-1403	2.6	98
68	Coseismic slip model of the 2008 Wenchuan earthquake derived from joint inversion of interferometric synthetic aperture radar, GPS, and field data. *Journal of Geophysical Research*, **2010**, 115,		89
67	Thermodynamics of lateral dike propagation: Implications for crustal accretion at slow spreading mid-ocean ridges. *Journal of Geophysical Research*, **1998**, 103, 2501-2514		88
66	Thermal and mechanical aspects of magma emplacement in giant dike swarms. *Journal of Geophysical Research*, **1999**, 104, 23033-23049		88

65	Fusion by earthquake fault friction: Stick or slip?. *Journal of Geophysical Research*, **2005**, 110,		85
64	Geodetic slip rates in the southern San Andreas Fault system: Effects of elastic heterogeneity and fault geometry. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 689-697	3.6	74
63	Interseismic deformation and creep along the central section of the North Anatolian Fault (Turkey): InSAR observations and implications for rate-and-state friction properties. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 316-331	3.6	72
62	Space geodetic investigation of the coseismic and postseismic deformation due to the 2003 Mw7.2 Altai earthquake: Implications for the local lithospheric rheology. *Journal of Geophysical Research*, **2008**, 113,		65
61	Localized and distributed creep along the southern San Andreas Fault. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 7909-7922	3.6	63
60	Sombrero uplift above the Altiplano-Puna Magma Body: evidence of a ballooning mid-crustal diapir. *Science*, **2012**, 338, 250-2	33.3	62
59	A Quantitative Assessment of DInSAR Measurements of Interseismic Deformation: The Southern San Andreas Fault Case Study. *Pure and Applied Geophysics*, **2012**, 169, 1463-1482	2.2	61
58	Observations and Modeling of Coseismic and Postseismic Deformation Due To the 2015 Mw 7.8 Gorkha (Nepal) Earthquake. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 761-779	3.6	61
57	The 1999 (Mw 7.1) Hector Mine, California, Earthquake: Near-Field Postseismic Deformation from ERS Interferometry. *Bulletin of the Seismological Society of America*, **2002**, 92, 1433-1442	2.3	60
56	Finite source modelling of magmatic unrest in Socorro, New Mexico, and Long Valley, California. *Geophysical Journal International*, **2001**, 146, 191-200	2.6	59
55	Evidence for on-going inflation of the Socorro Magma Body, New Mexico, from interferometric synthetic aperture radar imaging. *Geophysical Research Letters*, **2001**, 28, 3549-3552	4.9	59
54	Slip on faults in the Imperial Valley triggered by the 4 April 2010 Mw 7.2 El Mayor-Cucapah earthquake revealed by InSAR. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	58
53	Warping and cracking of the Pacific plate by thermal contraction. *Journal of Geophysical Research*, **2004**, 109,		58
52	Mitigation of atmospheric phase delays in InSAR data, with application to the eastern California shear zone. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 5952-5963	3.6	57
51	'Melt welt' mechanism of extreme weakening of gabbro at seismic slip rates. *Nature*, **2012**, 488, 638-41	50.4	56
50	Fourier-domain Green's function for an elastic semi-infinite solid under gravity, with applications to earthquake and volcano deformation. *Geophysical Journal International*, **2010**, 182, 568-582	2.6	53
49	Upper-plate controls on co-seismic slip in the 2011 magnitude 9.0 Tohoku-oki earthquake. *Nature*, **2016**, 531, 92-6	50.4	48
48	Interseismic Strain Localization in the San Jacinto Fault Zone. *Pure and Applied Geophysics*, **2014**, 171, 2937-2954	2.2	46

47	El Mayor-Cucapah (Mw 7.2) earthquake: Early near-field postseismic deformation from InSAR and GPS observations. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 1482-1497	3.6	45
46	Dynamic models of interseismic deformation and stress transfer from plate motion to continental transform faults. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		44
45	On origin of near-axis volcanism and faulting at fast spreading mid-ocean ridges. *Earth and Planetary Science Letters*, **2001**, 190, 31-39	5.3	44
44	Stable and unstable damage evolution in rocks with implications to fracturing of granite. *Geophysical Journal International*, **2006**, 167, 1005-1016	2.6	43
43	A silent Mw 4.7 slip event of October 2006 on the Superstition Hills fault, southern California. *Journal of Geophysical Research*, **2009**, 114,		42
42	Three-dimensional models of elastostatic deformation in heterogeneous media, with applications to the Eastern California Shear Zone. *Geophysical Journal International*, **2009**, 179, 500-520	2.6	40
41	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. *Journal of Geophysical Research*, **2007**, 112,		38
40	Temperature fields generated by the elastodynamic propagation of shear cracks in the Earth. *Journal of Geophysical Research*, **2004**, 109,		37
39	Estimate of differential stress in the upper crust from variations in topography and strike along the San Andreas fault. *Geophysical Journal International*, **2005**, 160, 527-532	2.6	36
38	Temperature dependence of frictional healing of Westerly granite: Experimental observations and numerical simulations. *Geochemistry, Geophysics, Geosystems*, **2013**, 14, 567-582	3.6	33
37	Effect of a compliant fault zone on the inferred earthquake slip distribution. *Journal of Geophysical Research*, **2008**, 113,		31
36	What controls the along-strike slopes of volcanic rift zones?. *Journal of Geophysical Research*, **1999**, 104, 20007-20020		31
35	Numerical simulation of high-pressure rock tensile fracture experiments: Evidence of an increase in fracture energy with pressure?. *Journal of Geophysical Research*, **1997**, 102, 5231-5242		30
34	Rising of the lowest place on Earth due to Dead Sea water-level drop: Evidence from SAR interferometry and GPS. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		29
33	Fracture criteria at the tip of fluid-driven cracks in the Earth. *Geophysical Research Letters*, **1995**, 22, 2541-2544	4.9	29
32	A comparison of long-term changes in seismicity at The Geysers, Salton Sea, and Coso geothermal fields. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 225-247	3.6	29
31	Slow Slip Event On the Southern San Andreas Fault Triggered by the 2017 Mw8.2 Chiapas (Mexico) Earthquake. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 9956-9975	3.6	28
30	Frictional properties of gabbro at conditions corresponding to slow slip events in subduction zones. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 4006-4020	3.6	28

29	Experimental investigation of frictional melting of argillite at high slip rates: Implications for seismic slip in subduction-accretion complexes. *Journal of Geophysical Research*, **2009**, 114,		27
28	Hydrologic detection and finite element modeling of a slow slip event in the Costa Rica prism toe. *Journal of Geophysical Research*, **2009**, 114,		27
27	On the effects of thermally weakened ductile shear zones on postseismic deformation. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 6295-6310	3.6	26
26	Mechanics of active magmatic intraplating in the Rio Grande Rift near Socorro, New Mexico. *Journal of Geophysical Research*, **2010**, 115,		26
25	Finite Slip Models of the 2019 Ridgecrest Earthquake Sequence Constrained by Space Geodetic Data and Aftershock Locations. *Bulletin of the Seismological Society of America*, **2020**, 110, 1660-1679	2.3	24
24	Space geodetic observations and models of postseismic deformation due to the 2005 M7.6 Kashmir (Pakistan) earthquake. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 7306-7318	3.6	23
23	Geodetic investigation into the deformation of the Salton Trough. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 5030-5039	3.6	21
22	The Community Code Verification Exercise for Simulating Sequences of Earthquakes and Aseismic Slip (SEAS). *Seismological Research Letters*, **2020**, 91, 874-890	3	20
21	Velocity-weakening behavior of Westerly granite at temperature up to 600℃. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 6932-6946	3.6	20
20	Geodetic constraints on frictional properties and earthquake hazard in the Imperial Valley, Southern California. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 1097-1113	3.6	20
19	Reconciling seismicity and geodetic locking depths on the Anza section of the San Jacinto fault. *Geophysical Research Letters*, **2016**, 43, 10,663-10,671	4.9	18
18	Improving Burst Alignment in TOPS Interferometry With Bivariate Enhanced Spectral Diversity. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 2423-2427	4.1	15
17	Can compliant fault zones be used to measure absolute stresses in the upper crust?. *Journal of Geophysical Research*, **2009**, 114,		14
16	Why do kimberlites from different provinces have similar trace element patterns?. *Geochemistry, Geophysics, Geosystems*, **2005**, 6, n/a-n/a	3.6	14
15	Subsidence at Cerro Prieto Geothermal Field and postseismic slip along the Indiviso fault from 2011 to 2016 RADARSAT-2 DInSAR time series analysis. *Geophysical Research Letters*, **2017**, 44, 2716-2724	4.9	13
14	Coseismic and Early Postseismic Deformation Due to the 2021 M7.4 Maduo (China) Earthquake. *Geophysical Research Letters*, **2021**, 48, e2021GL095213	4.9	13
13	Geodetic Evidence for a Blind Fault Segment at the Southern End of the San Jacinto Fault Zone. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 878-891	3.6	11
12	Survey and Continuous GNSS in the Vicinity of the July 2019 Ridgecrest Earthquakes. *Seismological Research Letters*, **2020**, 91, 2047-2054	3	9

11	Fracture and Frictional Mechanics: Theory **2015**, 73-91		8
10	Variations in the long-term uplift rate due to the Altiplano-Puna magma body observed with Sentinel-1 interferometry. *Earth and Planetary Science Letters*, **2018**, 491, 43-47	5.3	7
9	Fracture and Frictional Mechanics □Theory **2007**, 83-106		6
8	Obtaining Absolute Locations for Quarry Seismicity Using Remote Sensing Data. *Bulletin of the Seismological Society of America*, **2006**, 96, 722-728	2.3	6
7	Simple shear origin of the cross-faults ruptured in the 2019 Ridgecrest earthquake sequence. *Nature Geoscience*, **2021**, 14, 513-518	18.3	6
6	Fracture and Frictional Mechanics □Theory **2007**, 83-106		3
5	Estimation of Absolute Stress in the Hypocentral Region of the 2019 Ridgecrest, California, Earthquakes. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2021JB022000	3.6	3
4	Tidal modulation of seismicity at the Coso geothermal field. *Earth and Planetary Science Letters*, **2022**, 579, 117335	5.3	2
3	Comment on □Deformation of compliant fault zones induced by nearby earthquakes: Theoretical investigations in two dimensions□by Benchun Duan et al.. *Journal of Geophysical Research*, **2011**, 116,		1
2	General Seismic Architecture of the Southern San Andreas Fault Zone around the Thousand Palms Oasis from a Large-N Nodal Array. *The Seismic Record*, **2022**, 2, 50-58		1
1	Damage rheology and stable versus unstable fracturing of rocks **2009**, 133-144		