Lucy Flesch

List of Publications by Year
in descending order

29 papers	1,435 citations	471509 17 h-index	580821 25 g-index
29 all docs	29 docs citations	29 times ranked	1097 citing authors

#	Article	IF	Citations
1	Dynamics of the India-Eurasia collision zone. Journal of Geophysical Research, 2001, 106, 16435-16460.	3.3	267
2	Constraining the extent of crustâ€"mantle coupling in central Asia using GPS, geologic, and shear wave splitting data. Earth and Planetary Science Letters, 2005, 238, 248-268.	4.4	226
3	Evidence for mechanically coupled lithosphere in central Asia and resulting implications. Geology, 2008, 36, 363.	4.4	212
4	Gravitational potential energy of the Tibetan Plateau and the forces driving the Indian plate. Geology, 2006, 34, 321.	4.4	89
5	Vertical coherence of deformation in lithosphere in the NE margin of the Tibetan plateau using GPS and shear-wave splitting data. Tectonophysics, 2017, 699, 93-101.	2.2	85
6	The dynamics of western North America: stress magnitudes and the relative role of gravitational potential energy, plate interaction at the boundary and basal tractions. Geophysical Journal International, 2007, 169, 866-896.	2.4	76
7	Reconciling lithospheric deformation and lower crustal flow beneath central Tibet. Geology, 2007, 35, 895.	4.4	74
8	Contribution of gravitational potential energy differences to the global stress field. Geophysical Journal International, 2009, 179, 787-812.	2.4	69
9	Significant and vertically coherent seismic anisotropy beneath eastern Tibet. Journal of Geophysical Research, 2012, 117, .	3.3	46
10	Vertical coherence of deformation in lithosphere in the eastern Himalayan syntaxis using GPS, Quaternary fault slip rates, and shear wave splitting data. Geophysical Research Letters, 2015, 42, 5813-5819.	4.0	39
11	Gravitational potential energy and regional stress and strain rate fields for continental plateaus: Examples from the central Andes and Colorado Plateau. Tectonophysics, 2010, 482, 182-192.	2.2	36
12	Normal faulting and viscous buckling in the Tibetan Plateau induced by a weak lower crust. Nature Communications, 2018, 9, 4952.	12.8	36
13	Surface motions and intraplate continental deformation in Alaska driven by mantle flow. Geophysical Research Letters, 2015, 42, 4350-4358.	4.0	33
14	Evidence of active mantle flow beneath South China. Geophysical Research Letters, 2013, 40, 5137-5141.	4.0	26
15	The relationship between surface kinematics and deformation of the whole lithosphere. Geology, 2012, 40, 711-714.	4.4	24
16	Evidence of longâ€term weakness on seismogenic faults in western North America from dynamic modeling. Journal of Geophysical Research, 2009, 114, .	3.3	19
17	Present-day geodynamics of the northern North American Cordillera. Earth and Planetary Science Letters, 2014, 404, 111-123.	4.4	19
18	Impact of Lithospheric Strength Distribution on Indiaâ€Eurasia Deformation From 3â€D Geodynamic Models. Journal of Geophysical Research: Solid Earth, 2019, 124, 1084-1105.	3.4	16

#	Article	IF	Citations
19	Kinematics and dynamics of the Pamir, Central Asia: Quantifying surface deformation and force balance in an intracontinental subduction zone. Journal of Geophysical Research: Solid Earth, 2017, 122, 4741-4762.	3.4	13
20	Limitations on Inferring 3D Architecture and Dynamics From Surface Velocities in the Indiaâ€Eurasia Collision Zone. Geophysical Research Letters, 2018, 45, 1379-1386.	4.0	10
21	Cenozoic tectonic processes along the southern Alaska convergent margin. Geology, 2007, 35, 1055.	4.4	6
22	Kinematics and Dynamics of the Pamir, Central Asia: Quantifying the Roles of Continental Subduction in Force Balance. Journal of Geophysical Research: Solid Earth, 2018, 123, 8161-8179.	3.4	5
23	A review of heterogeneous materials and their implications for relationships between kinematics and dynamics in continents. Tectonics, 2013, 32, 980-992.	2.8	4
24	A possible â€œwindow of escapeâ€•in the southern Cascadia subduction zone. Geology, 2007, 35, 959.	4.4	3
25	Spatial Scales in Topography and Strain Rate Magnitude in the Western United States. Journal of Geophysical Research: Solid Earth, 2018, 123, 6086-6097.	3.4	2
26	Thank You to Our 2018 Peer Reviewers. Geophysical Research Letters, 2019, 46, 12608-12636.	4.0	0
27	Thank You to Our 2019 Peer Reviewers. Geophysical Research Letters, 2020, 47, e2020GL088048.	4.0	0
28	Thank You to Our 2020 Peer Reviewers. Geophysical Research Letters, 2021, 48, e2021GL093126.	4.0	0
29	Thank You to Our 2021 Peer Reviewers. Geophysical Research Letters, 2022, 49, .	4.0	0