Mian Liu

List of Publications by Year
in descending order

43 papers	2,199 citations	279798 23 h-index	276875 41 g-index
44 all docs	44 docs citations	44 times ranked	2049 citing authors

#	Article	IF	Citations
1	Cenozoic rifting and volcanism in eastern China: a mantle dynamic link to the Indoâ€“Asian collision?. Tectonophysics, 2004, 393, 29-42.	2.2	281
2	Why earthquake hazard maps often fail and what to do about it. Tectonophysics, 2012, 562-563, 1-25.	2.2	212
3	Long aftershock sequences within continents and implications for earthquake hazard assessment. Nature, 2009, 462, 87-89.	27.8	190
4	2000 years of migrating earthquakes in North China: How earthquakes in midcontinents differ from those at plate boundaries. Lithosphere, 2011, 3, 128-132.	1.4	143
5	Extensional collapse of the Tibetan Plateau: Results of three-dimensional finite element modeling. Journal of Geophysical Research, 2003, 108, .	3.3	112
6	Stress evolution and fault interactions before and after the 2008 Great Wenchuan earthquake. Tectonophysics, 2010, 491, 127-140.	2.2	102
7	Did the Zipingpu Reservoir trigger the 2008 Wenchuan earthquake?. Geophysical Research Letters, 2009, 36, .	4.0	99
8	Cenozoic deformation of the Tarim plate and the implications for mountain building in the Tibetan Plateau and the Tian Shan. Tectonics, 2002, 21, 9-1-9-17.	2.8	89
9	Mid-continental earthquakes: Spatiotemporal occurrences, causes, and hazards. Earth-Science Reviews, 2016, 162, 364-386.	9.1	84
10	Present-day crustal deformation and strain transfer in northeastern Tibetan Plateau. Earth and Planetary Science Letters, 2018, 487, 179-189.	4.4	63
11	Crustal thickening and lateral extrusion during the Indo-Asian collision: A 3D viscous flow model. Tectonophysics, 2009, 465, 128-135.	2.2	60
12	Earthquake supercycles and Long-Term Fault Memory. Tectonophysics, 2020, 774, 228289.	2.2	55
13	Balance of seismic moment in the Songpan-Ganze region, eastern Tibet: Implications for the 2008 Great Wenchuan earthquake. Tectonophysics, 2010, 491, 154-164.	2.2	53
14	A 3-D viscoelastoplastic model for simulating long-term slip on non-planar faults. Geophysical Journal International, 2009, 176, 293-306.	2.4	52
15	Lithospheric structure across the northeastern margin of the Tibetan Plateau: Implications for the plateau's lateral growth. Earth and Planetary Science Letters, 2017, 459, 80-92.	4.4	50
16	Active crustal deformation in southeastern Tibetan Plateau: The kinematics and dynamics. Earth and Planetary Science Letters, 2019, 523, 115708.	4.4	42
17	Is the Asian lithosphere underthrusting beneath northeastern Tibetan Plateau? Insights from seismic receiver functions. Earth and Planetary Science Letters, 2015, 428, 172-180.	4.4	41
18	Crustal collapse, mantle upwelling, and Cenozoic extension in the North American Cordillera. Tectonics, 1998, 17, 311-321.	2.8	38

#	Article	IF	Citations
19	Geometrical impact of the San Andreas Fault on stress and seismicity in California. Geophysical Research Letters, 2006, 33, .	4.0	37
20	The Indo-Asian continental collision: A 3-D viscous model. Tectonophysics, 2013, 606, 198-211.	2.2	35
21	Lithospheric velocity structure of the New Madrid Seismic Zone: A joint teleseismic and local P tomographic study. Geophysical Research Letters, 2009, 36, .	4.0	28
22	Multi-timescale mechanical coupling between the San Jacinto fault and the San Andreas fault, southern California. Lithosphere, 2012, 4, 221-229.	1.4	28
23	Inception of the eastern California shear zone and evolution of the Pacificâ€North American plate boundary: From kinematics to geodynamics. Journal of Geophysical Research, 2010, 115, .	3.3	27
24	Challenges in assessing seismic hazard in intraplate Europe. Geological Society Special Publication, 2017, 432, 13-28.	1.3	24
25	Rheological Control of Lateral Growth of the Tibetan Plateau: Numerical Results. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,124.	3.4	24
26	Initiation of the San Jacinto Fault and its Interaction with the San Andreas Fault: Insights from Geodynamic Modeling. Pure and Applied Geophysics, 2007, 164, 1937-1945.	1.9	23
27	Stressing Rates and Seismicity on the Major Faults in Eastern Tibetan Plateau. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,968.	3.4	22
28	Complex Temporal Patterns of Large Earthquakes: Devilâ€™s Staircases. Bulletin of the Seismological Society of America, 2020, 110, 1064-1076.	2.3	22
29	Roaming earthquakes in China highlight midcontinental hazards. Eos, 2012, 93, 453-454.	0.1	20
30	Strain partitioning and stress perturbation around stepovers and bends of strike-slip faults: Numerical results. Tectonophysics, 2017, 721, 211-226.	2.2	19
31	How fault evolution changes strain partitioning and fault slip rates in Southern California: Results from geodynamic modeling. Journal of Geophysical Research: Solid Earth, 2017, 122, 6893-6909.	3.4	18
32	Imaging the Mantle Lithosphere below the China cratons using S-to-p converted waves. Tectonophysics, 2019, 754, 73-79.	2.2	16
33	Postseismic Deformation and Afterslip Evolution of the 2015 Gorkha Earthquake Constrained by InSAR and GPS Observations. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020230.	3.4	16
34	Stress evolution and seismicity in the central-eastern United States: Insights from geodynamic modeling. , 2007, , .		14
35	A numerical study of strikeâ€slip bend formation with application to the Salton Sea pullâ€apart basin. Geophysical Research Letters, 2015, 42, 1368-1374.	4.0	10
36	What drives shortâ€•and longâ€term crustal deformation in the southwestern United States?. Geophysical Research Letters, 2010, 37, .	4.0	9

#	Article	IF	Citations
37	Threeâ€Dimensional Thermal Structure of East Asian Continental Lithosphere. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	9
38	Intraplate earthquakes in North China. , 2014, , 97-125.		8
39	Aftershocks and Background Seismicity in Tangshan and the Rest of North China. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021395.	3.4	8
40	Active crustal deformation in the Tian Shan region, central Asia. Tectonophysics, 2021, 811, 228868.	2.2	6
41	Crustal thickening versus lateral extrusion during Indiaâ€“Asia continental collision: 3-D thermo-mechanical modeling. Tectonophysics, 2021, 818, 229081.	2.2	5
42	Stream channel offsets along strike-slip faults: Interaction between fault slip and surface processes. Geomorphology, 2021, 394, 107965.	2.6	3
43	Earthquake, Aftershocks. Encyclopedia of Earth Sciences Series, 2019, , 1-4.	0.1	2