

Zheng-Kang Shen

List of Publications by Year in descending order

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48
papers

6,183
citations

172386
29
h-index

214721
47
g-index

49
all docs

49
docs citations

49
times ranked

3061
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous deformation of the Tibetan Plateau from global positioning system data. <i>Geology</i> , 2004, 32, 809.	2.0	1,289
2	Present-day crustal motion within the Tibetan Plateau inferred from GPS measurements. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	719
3	Contemporary crustal deformation around the southeast borderland of the Tibetan Plateau. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	556
4	Slip maxima at fault junctions and rupturing of barriers during the 2008 Wenchuan earthquake. <i>Nature Geoscience</i> , 2009, 2, 718-724.	5.4	495
5	Present-day Crustal Deformation of Continental China Derived From GPS and Its Tectonic Implications. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018774.	1.4	425
6	Crustal deformation across and beyond the Los Angeles basin from geodetic measurements. <i>Journal of Geophysical Research</i> , 1996, 101, 27957-27980.	3.3	303
7	Oblique, High-Angle, Listric-Reverse Faulting and Associated Development of Strain: The Wenchuan Earthquake of May 12, 2008, Sichuan, China. <i>Annual Review of Earth and Planetary Sciences</i> , 2010, 38, 353-382.	4.6	260
8	Space geodetic measurement of crustal deformation in central and southern California, 1984-1992. <i>Journal of Geophysical Research</i> , 1993, 98, 21677-21712.	3.3	247
9	Contemporary crustal deformation in east Asia constrained by Global Positioning System measurements. <i>Journal of Geophysical Research</i> , 2000, 105, 5721-5734.	3.3	215
10	Postseismic deformation following the Landers earthquake, California, 28 June 1992. <i>Bulletin of the Seismological Society of America</i> , 1994, 84, 780-791.	1.1	178
11	Crustal deformation along the Altyn Tagh fault system, western China, from GPS. <i>Journal of Geophysical Research</i> , 2001, 106, 30607-30621.	3.3	177
12	GPS-constrained inversion of present-day slip rates along major faults of the Sichuan-Yunnan region, China. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 1267-1283.	0.9	127
13	Present day crustal vertical movement inferred from precise leveling data in eastern margin of Tibetan Plateau. <i>Tectonophysics</i> , 2014, 632, 281-292.	0.9	88
14	GPS constrained coseismic source and slip distribution of the 2013 Mw6.6 Lushan, China, earthquake and its tectonic implications. <i>Geophysical Research Letters</i> , 2014, 41, 407-413.	1.5	86
15	The 2017 Jiuzhaigou Earthquake: A Complicated Event Occurred in a Young Fault System. <i>Geophysical Research Letters</i> , 2018, 45, 2230-2240.	1.5	75
16	Present-day crustal thinning in the southern and northern Tibetan Plateau revealed by GPS measurements. <i>Geophysical Research Letters</i> , 2015, 42, 5227-5235.	1.5	68
17	Heat flow distribution in Chinese continent and its adjacent areas. <i>Progress in Natural Science: Materials International</i> , 2008, 18, 843-849.	1.8	66
18	Extracting the regional common-mode component of GPS station position time series from dense continuous network. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1080-1096.	1.4	51

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19	Fault network modeling of crustal deformation in California constrained using GPS and geologic observations. <i>Tectonophysics</i> , 2014, 612-613, 1-17.	0.9	49
20	Far-field coseismic displacements associated with the 2011 Tohoku-oki earthquake in Japan observed by Global Positioning System. <i>Science Bulletin</i> , 2011, 56, 2419-2424.	1.7	46
21	Fault geometry and slip distribution of the 2008 <i>M_w</i> 7.9 Wenchuan, China earthquake, inferred from GPS and InSAR measurements. <i>Geophysical Journal International</i> , 2017, 208, 748-766.	1.0	45
22	Block-like versus distributed crustal deformation around the northeastern Tibetan plateau. <i>Journal of Asian Earth Sciences</i> , 2017, 140, 31-47.	1.0	43
23	Postseismic Deformation of the 2008 Wenchuan Earthquake Illuminates Lithospheric Rheological Structure and Dynamics of Eastern Tibet. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022399.	1.4	38
24	GEOSCIENCE: Southern California Deformation. <i>Science</i> , 1997, 277, 1621-1622.	6.0	37
25	Earthquake Potential in California–Nevada Implied by Correlation of Strain Rate and Seismicity. <i>Geophysical Research Letters</i> , 2018, 45, 1778-1785.	1.5	37
26	Crustal deformation measured in Southern California. <i>Eos</i> , 1997, 78, 477.	0.1	36
27	Viscoelastic Triggering Between Large Earthquakes along the East Kunlun Fault System. <i>Chinese Journal of Geophysics</i> , 2003, 46, 1125-1138.	0.2	36
28	Rupture process of the 2021 M7.4 Maduo earthquake and implication for deformation mode of the Songpan-Ganzi terrane in Tibetan Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	36
29	Impoundment of the Zipingpu reservoir and triggering of the 2008 <i>M_w</i> 7.9 Wenchuan earthquake, China. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7033-7047.	1.4	34
30	Earthquake potential of the Sichuan-Yunnan region, western China. <i>Journal of Asian Earth Sciences</i> , 2015, 107, 232-243.	1.0	33
31	Mechanical constraints on inversion of coseismic geodetic data for fault slip and geometry: Example from InSAR observation of the 6 October 2008 <i>M_w</i> 6.3 Dangxiong-Yangyi (Tibet) earthquake. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
32	GPS determined coseismic slip of the 2021 <i>M_w</i> 7.4 Maduo, China, earthquake and its tectonic implication. <i>Geophysical Journal International</i> , 2021, 228, 2048-2055.	1.0	27
33	Crustal velocity field near the big bend of California's San Andreas Fault. <i>Journal of Geophysical Research</i> , 1996, 101, 3173-3185.	3.3	26
34	Integration of GPS and InSAR Data for Resolving 3-Dimensional Crustal Deformation. <i>Earth and Space Science</i> , 2020, 7, e2019EA001036.	1.1	26
35	Recovery of secular deformation field of Mojave Shear Zone in Southern California from historical terrestrial and GPS measurements. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 3965-3990.	1.4	24
36	The Effect and Correction of Non-Tectonic Crustal Deformation on Continuous GPS Position Time Series. <i>Chinese Journal of Geophysics</i> , 2005, 48, 1121-1129.	0.2	23

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37	The 2019 Ridgecrest, California earthquake sequence: Evolution of seismic and aseismic slip on an orthogonal fault system. <i>Earth and Planetary Science Letters</i> , 2021, 570, 117066.	1.8	21
38	A probabilistic seismic hazard model for Mainland China. <i>Earthquake Spectra</i> , 2020, 36, 181-209.	1.6	17
39	On the Relevance of Geodetic Deformation Rates to Earthquake Potential. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093231.	1.5	16
40	3D GNSS Velocity Field Sheds Light on the Deformation Mechanisms in Europe: Effects of the Vertical Crustal Motion on the Distribution of Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	16
41	A three-step maximum a posteriori probability method for InSAR data inversion of coseismic rupture with application to the 14 April 2010 M_w 6.9 Yushu, China, earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4599-4627.	1.4	14
42	Thin brittle rheological structure for the Eastern California Shear Zone. <i>Geology</i> , 2021, 49, 216-221.	2.0	14
43	The 2019 Mw 5.8 Changning, China earthquake: A cascade rupture of fold-accommodation faults induced by fluid injection. <i>Tectonophysics</i> , 2021, 801, 228721.	0.9	12
44	Coseismic Slip Distribution of the 2001 Kunlun Mountain Pass West Earthquake Constrained by GPS and InSAR Data. <i>Chinese Journal of Geophysics</i> , 2008, 51, 753-764.	0.2	10
45	Deviatoric Stress Level Estimation According to Principle Axes Rotation of Stress Field before and After Large Strike-Slip Type Earthquake and Stress Drop. <i>Chinese Journal of Geophysics</i> , 2006, 49, 731-739.	0.2	7
46	Far-field coseismic displacements associated with the great Sumatra earthquakes of December 26, 2004 and March 29, 2005 constrained by Global Positioning System. <i>Science Bulletin</i> , 2006, 51, 1771-1775.	1.7	4
47	Visco-elastic stress triggering model of Tangshan earthquake sequence. <i>Acta Seismologica Sinica</i> , 2008, 21, 585-597.	0.2	1
48	Reply [to "Comment on "Crustal deformation measured in Southern California"]. <i>Eos</i> , 1998, 79, 260-261.	0.1	0