Yaolin Shi

List of Publications by Year
in descending order

102	2,622	304602	206029
papers	citations	22 h-index	48 g-index

103	103	103	2373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The standard error of the magnitude-frequencybvalue. Bulletin of the Seismological Society of America, 1982, 72, 1677-1687.	1.1	493
2	East Asia mantle tomography: New insight into plate subduction and intraplate volcanism. Journal of Asian Earth Sciences, 2012, 60, 88-103.	1.0	230
3	Lithospheric thickness of the Chinese continent. Physics of the Earth and Planetary Interiors, 2006, 159, 257-266.	0.7	210
4	Two-dimensional modeling of the P-T-t paths of regional metamorphism in simple overthrust terrains. Geology, 1987, 15, 1048.	2.0	119
5	Tsunami hazards along Chinese coast from potential earthquakes in South China Sea. Physics of the Earth and Planetary Interiors, 2007, 163, 233-244.	0.7	104
6	Lithosphere Effective Viscosity of Continental China. Earth Science Frontiers, 2008, 15, 82-95.	0.5	85
7	Thermal modeling of the Southern Alps, New Zealand. Pure and Applied Geophysics, 1996, 146, 469-501.	0.8	75
8	3D thermal structure of the continental lithosphere beneath China and adjacent regions. Journal of Asian Earth Sciences, 2013, 62, 697-704.	1.0	67
9	Theoretical calculations of Cd isotope fractionation in hydrothermal fluids. Chemical Geology, 2015, 391, 74-82.	1.4	65
10	Threeâ€dimensional crustal structure in central Taiwan from gravity inversion with a parallel genetic algorithm. Geophysics, 2004, 69, 917-924.	1.4	56
11	High pore pressure generation in sediments in front of the Barbados Ridge Complex. Geophysical Research Letters, 1985, 12, 773-776.	1.5	51
12	Multi-terrane structure controls the contrasting lithospheric evolution beneath the western and centralâ€“eastern Tibetan plateau. Nature Communications, 2018, 9, 3780.	5.8	49
13	Three-dimensional thermal structure of the Chinese continental crust and upper mantle. Science in China Series D: Earth Sciences, 2007, 50, 1441-1451.	0.9	45
14	Volume rendering visualization of 3D spherical mantle convection with an unstructured mesh. Visual Geosciences, 2008, 13, 97-104.	0.5	45
15	An evaluation of Chinese annual earthquake predictions, 1990â€“1998. Journal of Applied Probability, 2001, 38, 222-231.	0.4	36
16	Estimation of GPS strain rate and its error analysis in the Chinese continent. Journal of Asian Earth Sciences, 2011, 40, 351-362.	1.0	35
17	Subduction of the Western Pacific Plate underneath Northeast China: Implications of numerical studies. Physics of the Earth and Planetary Interiors, 2010, 178, 92-99.	0.7	28
18	Theoretical isotope fractionation of cadmium during complexation with organic ligands. Chemical Geology, 2021, 571, 120178.	1.4	28

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19	Comparison of linear and nonlinear shallow wave water equations applied to tsunami waves over the China Sea. Acta Geotechnica, 2009, 4, 129-137.	2.9	26
20	Studying the viscosity of lower crust of Qinghai-Tibet Plateau according to post-seismic deformation. Science in China Series D: Earth Sciences, 2009, 52, 411-419.	0.9	25
21	Lithospheric stress-states predicted from long-term tectonic models: Influence of rheology and possible application to Taiwan. Journal of Asian Earth Sciences, 2009, 36, 119-134.	1.0	24
22	Equilibrium nickel isotope fractionation in nickel sulfide minerals. Geochimica Et Cosmochimica Acta, 2018, 222, 1-16.	1.6	24
23	Dynamic mechanisms of earthquake-triggered landslides. Science China Earth Sciences, 2013, 56, 1769-1779.	2.3	23
24	Indiaâ€Tarim Lithospheric Mantle Collision Beneath Western Tibet Controls the Cenozoic Building of Tian Shan. Geophysical Research Letters, 2021, 48, e2021GL094561.	1.5	23
25	Hydrogeological modeling of porous flow in the Oregon accretionary prism. Geology, 1989, 17, 320.	2.0	22
26	Heat flow and thermal structure of the Washingtonâ€Oregon accretionary prismâ€”A study of the lower slope. Geophysical Research Letters, 1988, 15, 1113-1116.	1.5	21
27	Geodynamic background of the 2008 Wenchuan earthquake based on 3D visco-elastic numerical modelling. Physics of the Earth and Planetary Interiors, 2016, 252, 23-36.	0.7	21
28	Stress Shadow on the Southwest Portion of the Longmen Shan Fault Impacted the 2008 Wenchuan Earthquake Rupture. Journal of Geophysical Research: Solid Earth, 2018, 123, 9963-9981.	1.4	21
29	Wave spectral modeling of multidirectional random waves in a harbor through combination of boundary integral of Helmholtz equation with Chebyshev point discretization. Computers and Fluids, 2015, 108, 13-24.	1.3	20
30	The Mechanism and Dynamics of Nâ€S Rifting in Southern Tibet: Insight From 3â€D Thermomechanical Modeling. Journal of Geophysical Research: Solid Earth, 2018, 123, 859-877.	1.4	20
31	Equilibrium lithium isotope fractionation in Li-bearing minerals. Geochimica Et Cosmochimica Acta, 2018, 235, 360-375.	1.6	20
32	Mixed-mode stress intensity factors of 3D interface crack in fully coupled electromagnetothermoelastic multiphase composites. International Journal of Solids and Structures, 2009, 46, 2669-2679.	1.3	17
33	Stress change from the 2015 Mw 7.8 Gorkha earthquake and increased hazard in the southern Tibetan Plateau. Physics of the Earth and Planetary Interiors, 2017, 267, 1-8.	0.7	17
34	Equilibrium Cu isotope fractionation in copper minerals: a first-principles study. Chemical Geology, 2021, 564, 120060.	1.4	17
35	Dynamic simulation of interactions between major earthquakes on the Xianshuihe fault zone. Science in China Series D: Earth Sciences, 2008, 51, 1388-1400.	0.9	16
36	The Contemporary Tectonic Strain Rate Field of Continental China Predicted from GPS Measurements and its Geodynamic Implications. Pure and Applied Geophysics, 2006, 163, 1477-1493.	0.8	15

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37	First-principles study of sulfur isotope fractionation in pyrite-type disulfides. American Mineralogist, 2015, 100, 203-208.	0.9	15
38	P-wave tomographic images beneath southeastern Tibet: Investigating the mechanism of the 2008 Wenchuan earthquake. Science China Earth Sciences, 2010, 53, 1252-1259.	2.3	14
39	Finite element investigation of the poroelastic effect on the Xinfengjiang Reservoir-triggered earthquake. Science China Earth Sciences, 2012, 55, 1942-1952.	2.3	14
40	Recurrence interval of the 2008 Mw 7.9 Wenchuan earthquake inferred from geodynamic modelling stress buildup and release. Journal of Geodynamics, 2017, 110, 1-11.	0.7	14
41	Late Cenozoic structural deformation and evolution of the central-southern Longmen Shan fold-and-thrust belt, China: Insights from numerical simulations. Journal of Asian Earth Sciences, 2019, 176, 88-104.	1.0	14
42	Complex Patterns of Mantle Flow in Eastern SE Asian Subduction Zones Inferred From Pâ€Wave Anisotropic Tomography. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	14
43	Numerical investigation of the geodynamic mechanism for the late Jurassic deformation of the Ordos block and surrounding orogenic belts. Journal of Asian Earth Sciences, 2015, 114, 623-633.	1.0	13
44	Do the Two Seismic Gaps in the Southwestern Section of the Longmen Shan Fault Present the Same Seismic Hazard?. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018160.	1.4	13
45	Some thermotectonic aspects of the Tibetan plateau. Tectonophysics, 1993, 219, 223-233.	0.9	12
46	First-principles study of high-pressure stability, structure, and elasticity of FeS2 polymorphs. Physics and Chemistry of Minerals, 2014, 41, 189-196.	0.3	12
47	Lithospheric rheology and Moho upheaval control the generation mechanism of the intraplate earthquakes in the North China Basin. Journal of Asian Earth Sciences, 2016, 121, 153-164.	1.0	12
48	Toward an automated parallel computing environment for geosciences. Physics of the Earth and Planetary Interiors, 2007, 163, 2-22.	0.7	11
49	First-principles calculations of sulphur isotope fractionation in MX2 minerals, with M= Fe, Co, Ni and X2= AsS, SbS. Chemical Geology, 2016, 441, 204-211.	1.4	11
50	The modulation of groundwater exploitation on crustal stress in the North China Plain, and its implications on seismicity. Journal of Asian Earth Sciences, 2020, 189, 104141.	1.0	11
51	Heat flow across the toe of accretionary prisms â€" The role of fluid flux. Geophysical Research Letters, 1993, 20, 659-662.	1.5	10
52	Influence of fault geometry and fault interaction on strain partitioning within western Sichuan and its adjacent region. Science China Earth Sciences, 2010, 53, 1056-1070.	2.3	10
53	Extended hybrid pressure and velocity boundary conditions for D3Q27 lattice Boltzmann model. Applied Mathematical Modelling, 2012, 36, 2031-2055.	2.2	10
54	Calculating coseismic deformation and stress changes in a heterogeneous ellipsoid earth model. Geophysical Journal International, 2019, 216, 851-858.	1.0	10

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55	Molecular Modeling of Ammonia Gas Adsorption onto the Kaolinite Surface with DFT Study. Minerals (Basel, Switzerland), 2020, 10, 46.	0.8	10
56	Spaceâ€Time Stress Variations on the Paluâ€Koro Fault Impacting the 2018 Mw 7.5 Palu Earthquake and Its Seismic Hazards. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009552.	1.0	10
57	Threeâ€Dimensional Thermal Structure of East Asian Continental Lithosphere. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	9
58	A Numerical Test on Influence of Mesoscopic Heterogeneity on Macroscopic Behavior of Rock Failure and Seismic Sequence types. Chinese Journal of Geophysics, 2003, 46, 943-953.	0.2	8
59	First-principles study of sulfur isotope fractionation in sulfides. European Journal of Mineralogy, 2014, 26, 717-725.	0.4	8
60	The electrical conductivity of eclogite in Tibet and its geophysical implications. Science China Earth Sciences, 2014, 57, 2071-2078.	2.3	8
61	Three-dimensional numerical simulation of glacial trough forming process. Science China Earth Sciences, 2015, 58, 1656-1668.	2.3	8
62	High-Resolution Numerical Analysis of the Triggering Mechanism of M L5.7 Aswan Reservoir Earthquake Through Fully Coupled Poroelastic Finite Element Modeling. Pure and Applied Geophysics, 2016, 173, 1593-1605.	0.8	8
63	Machine learning for predicting discharge fluctuation of a karst spring in North China. Acta Geophysica, 2021, 69, 257-270.	1.0	8
64	A Revised Evaluation of Tsunami Hazards along the Chinese Coast in View of the Tohoku-Oki Earthquake. Pure and Applied Geophysics, 2013, 170, 129-138.	0.8	7
65	Concurrent Deformation in the Longmen Shan and the Sichuan Basin: A Critical Wedge Captured by Limit Analysis. Tectonics, 2018, 37, 283-304.	1.3	7
66	Contrast of Rheology of Crust and Mantle near Moho Revealed by Depth Variation of Earthquake Mechanism in Continental China. Chinese Journal of Geophysics, 2003, 46, 516-525.	0.2	6
67	An Efficient System for Creating Synthetic InSAR Images from Simulations. Pure and Applied Geophysics, 2008, 165, 671-691.	0.8	6
68	Spectral element analysis on the characteristics of seismic wave propagation triggered by Wenchuan M s8.0 earthquake. Science in China Series D: Earth Sciences, 2009, 52, 764-773.	0.9	6
69	Influence of the impoundment of the Three Gorges Reservoir on the micro-seismicity and the 2013 M5.1 Badong earthquake (Yangtze, China). Physics of the Earth and Planetary Interiors, 2016, 261, 98-106.	0.7	6
70	Continental lithospheric-scale subduction versus crustal-scale underthrusting in the collision zone: Numerical modeling. Tectonophysics, 2019, 757, 68-87.	0.9	6
71	A rheological model of post-seismic deformation for the 2001 Kunlun, China earthquake, Mw 7.8. Geofisica International, 2007, 46, 145-154.	0.2	6
72	Origin of tectonic stresses in the Chinese continent and adjacent areas. Science in China Series D: Earth Sciences, 2007, 50, 67-74.	0.9	5

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73	Virtual ChuanDian â€" A parallel numerical modeling of Sichuan-Yunnan regional strong earthquake activities: Model construction and parallel simulation. Science in China Series D: Earth Sciences, 2009, 52, 1585-1598.	0.9	5
74	Thermal convection thinning of the North China Craton: Numerical simulation. Science China Earth Sciences, 2013, 56, 773-782.	2.3	5
75	Earthquake potential in the peripheral zones of the Ordos Block based on contemporary GPS strain rates and seismicity. Tectonophysics, 2022, 824, 229224.	0.9	5
76	Check of Earthâ€™s free oscillations excited by Sumatra-Andaman Large Earthquake and discussions on the anisotropy of inner core. Science in China Series D: Earth Sciences, 2007, 50, 909-917.	0.9	4
77	Lithospheric thermal isostasy of north continental margin of the South China Sea. Journal of Earth Science (Wuhan, China), 2009, 20, 95-106.	1.1	4
78	A Feasibility Study of an FEM Simulation Used in Co-Seismic Deformations: A Case Study of a Dip-Slip Fault. Terrestrial, Atmospheric and Oceanic Sciences, 2013, 24, 637.	0.3	4
79	The implications of regional microseismic activities: A lesson from 2008 Ms. 8.0 Wenchuan earthquake. Physics of the Earth and Planetary Interiors, 2016, 261, 107-117.	0.7	4
80	Formation Mechanism of Arcuate Tectonic Structures around Northeast Tibetan Plateau: Insight from 3â€Ð Numerical Modeling. Terra Nova, 2021, 33, 345-355.	0.9	4
81	Parallel visualization of seismic wave propagation. Visual Geosciences, 2008, 13, 117-124.	0.5	3
82	Numerical investigation on the geodynamical mechanism of the first major shock of 2006 Pingtung M w7.0 earthquake. Science China Earth Sciences, 2011, 54, 631-639.	2.3	3
83	Viscous lithospheric structure beneath Sumatra inferred from post-seismic gravity changes detected by GRACE. Science China Earth Sciences, 2011, 54, 1257-1267.	2.3	3
84	Def3D, a FEM simulation tool for computing deformation near active faults and volcanic centers. Physics of the Earth and Planetary Interiors, 2020, 309, 106601.	0.7	3
85	Preliminary analysis of earthquake probability based on the synthetic seismic catalog. Science China Earth Sciences, 2020, 63, 985-998.	2.3	3
86	Stream channel offsets along strike-slip faults: Interaction between fault slip and surface processes. Geomorphology, 2021, 394, 107965.	1.1	3
87	Electron acceleration in interaction of magnetic islands in large temporal-spatial turbulent magnetic reconnection. Earth and Planetary Physics, 2019, 3, 17-25.	0.4	3
88	Stress Transfer at the Northeastern End of the Bayan Har Block and Its Implications for Seismic Hazards: Insights From Numerical Simulations. Earth and Space Science, 2021, 8, e2021EA001947.	1.1	3
89	Stress Evolution Before and After the 2021 Mw 7.3 Maduo Earthquake in Northeastern Tibet and Its Influence on Seismic Hazards. Earth and Space Science, 2022, 9, .	1.1	3
90	Thermal structure of the Barbados accretionary complex. Pure and Applied Geophysics, 1988, 128, 749-766.	0.8	2

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91	Regional stress fields under Tibet from 3D global flow simulation. Journal of Earth Science (Wuhan,) Tj ETQq1 1 0.784314 rgBT /Overl	1.1	2
92	First-principles investigation of the effect of crystal structure on sulfur isotope fractionation in sulfide polymorphs. European Journal of Mineralogy, 2018, 30, 1047-1061.	0.4	2
93	Contrasting collision-induced far-field orogenesis controlled by thermo-rheological properties of the composite terrane. Gondwana Research, 2021, 103, 404-404.	3.0	2
94	Parallel numerical analysis on the rheology of the martian ice-rock mixture. Journal of Earth Science (Wuhan, China), 2011, 22, 176-181.	1.1	1
95	Submicron volume roughness & asperity contact friction model for principle slip surface in flash heating process. Journal of Earth Science (Wuhan, China), 2015, 26, 96-107.	1.1	1
96	Submicron size-scale mapping of carbonate effective elastic properties from FIB-SEM images and finite element method. Science China Earth Sciences, 2017, 60, 557-575.	2.3	1
97	Dynamics of crustal overthrust versus underthrust in the continental collision zones: Numerical modelling. Terra Nova, 2019, 31, 332-342.	0.9	1
98	Numerical inversion of magma chamber pressurization in volcanic areas: A case study of Changbaishan volcano. Journal of Volcanology and Geothermal Research, 2020, 395, 106830.	0.8	1
99	The Nonâ€Negligible Effect of Viscosity Diffusion on the Geodynamo Process. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021281.	1.4	1
100	Understanding the Recent and Future Mechanical Evolution of the SongPan Ganziâ€"Qaidam NE Tibet Mohoâ€Offset. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022128.	1.4	1
101	Numerical analysis of wave hazards in a harbor. Science China Earth Sciences, 2012, 55, 1554-1564.	2.3	0
102	Numerical Simulation the Delamination of North China Craton. Advanced Science Letters, 2012, 14, 477-478.	0.2	0