

# Shaocheng Ji

## List of Publications by Year in descending order

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91  
papers

6,147  
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66234

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69108

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94  
docs citations

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times ranked

3729  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ailao Shan-Red River shear zone (Yunnan, China), Tertiary transform boundary of Indochina. <i>Tectonophysics</i> , 1995, 251, 3-84.	0.9	954
2	The Ailao Shan/Red River metamorphic belt: Tertiary left-lateral shear between Indochina and South China. <i>Nature</i> , 1990, 343, 431-437.	13.7	857
3	Zircon U-Pb geochronology of gneissic rocks in the Yunkai massif and its implications on the Caledonian event in the South China Block. <i>Gondwana Research</i> , 2007, 12, 404-416.	3.0	284
4	Intraplate tectonics in Asia: A precise age for large-scale Miocene movement along the Ailao Shan-Red River shear zone, China. <i>Earth and Planetary Science Letters</i> , 1990, 97, 65-77.	1.8	225
5	Uplift of the Longmen Shan range and the Wenchuan earthquake. <i>Episodes</i> , 2008, 31, 291-301.	0.8	148
6	Indosinian high-strain deformation for the Yunkaidashan tectonic belt, south China: Kinematics and $^{40}\text{Ar}/^{39}\text{Ar}$ geochronological constraints. <i>Tectonics</i> , 2007, 26, .	1.3	119
7	Porosity dependence of mechanical properties of solid materials. <i>Journal of Materials Science</i> , 2006, 41, 1757-1768.	1.7	113
8	Kinematics and dynamics of the Namche Barwa Syntaxis, eastern Himalaya: Constraints from deformation, fabrics and geochronology. <i>Gondwana Research</i> , 2012, 21, 19-36.	3.0	112
9	A revised model for the relationship between joint spacing and layer thickness. <i>Journal of Structural Geology</i> , 1998, 20, 1495-1508.	1.0	110
10	Ductility of garnet as an indicator of extremely high temperature deformation. <i>Journal of Structural Geology</i> , 1994, 16, 985-996.	1.0	108
11	Composition and tectonic evolution of the Chinese continental crust constrained by Poisson's ratio. <i>Tectonophysics</i> , 2009, 463, 15-30.	0.9	106
12	Pseudotachylite-Induced Weakness of Plateau Boundary Fault: Insight from the Indus-Tsangpo Suture between India and Asia. <i>Acta Geologica Sinica</i> , 2019, 93, 1-11.	0.8	101
13	Petrofabric, P-wave anisotropy and seismic reflectivity of high-grade tectonites. <i>Tectonophysics</i> , 1993, 222, 195-226.	0.9	95
14	Magnitude and symmetry of seismic anisotropy in mica-bearing and amphibole-bearing metamorphic rocks and implications for tectonic interpretation of seismic data from the southeast Tibetan Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6404-6430.	1.4	91
15	Microstructures, petrofabrics and seismic properties of ultra high-pressure eclogites from Sulu region, China: implications for rheology of subducted continental crust and origin of mantle reflections. <i>Tectonophysics</i> , 2003, 370, 49-76.	0.9	85
16	Recrystallization and Fabric Development in Plagioclase. <i>Journal of Geology</i> , 1990, 98, 65-79.	0.7	80
17	Effects of porosity on seismic velocities, elastic moduli and Poisson's ratios of solid materials and rocks. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 35-49.	3.7	79
18	Shear-wave velocities, anisotropy and splitting in high-grade mylonites. <i>Tectonophysics</i> , 1993, 221, 453-473.	0.9	78

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19	Elasticity of six polycrystalline silicate garnets at pressure up to 3.0 GPa. <i>American Mineralogist</i> , 2001, 86, 1209-1218.	0.9	77
20	A new calibration of seismic velocities, anisotropy, fabrics, and elastic moduli of amphibole-rich rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4699-4728.	1.4	77
21	P wave velocities, anisotropy and hysteresis in ultrahigh-pressure metamorphic rocks as a function of confining pressure. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	76
22	Flow laws of multiphase rocks calculated from experimental data on the constituent phases. <i>Earth and Planetary Science Letters</i> , 1993, 117, 181-187.	1.8	75
23	Pressure dependence and anisotropy of P-wave velocities in ultrahigh-pressure metamorphic rocks from the Dabie-Sulu orogenic belt (China): Implications for seismic properties of subducted slabs and origin of mantle reflections. <i>Tectonophysics</i> , 2005, 398, 67-99.	0.9	75
24	Obliquity between seismic and electrical anisotropies as a potential indicator of movement sense for ductile shear zones in the upper mantle. <i>Geology</i> , 1996, 24, 1033.	2.0	69
25	Refinements of shear-lag model and its applications. <i>Tectonophysics</i> , 1997, 279, 37-53.	0.9	69
26	Bulk flow strength of forsterite-enstatite composites as a function of forsterite content. <i>Tectonophysics</i> , 2001, 341, 69-93.	0.9	68
27	Petrofabrics and seismic properties of garnet peridotite from the UHP Sulu terrane (China): Implications for olivine deformation mechanism in a cold and dry subducting continental slab. <i>Tectonophysics</i> , 2006, 421, 111-127.	0.9	65
28	Poisson's Ratio and Auxetic Properties of Natural Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1161-1185.	1.4	65
29	Seismic velocities, anisotropy, and shear-wave splitting of antigorite serpentinites and tectonic implications for subduction zones. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1015-1037.	1.4	64
30	Relationship between joint spacing and bed thickness in sedimentary rocks: effects of interbed slip. <i>Geological Magazine</i> , 1998, 135, 637-655.	0.9	63
31	Sense of shear in high-temperature movement zones from the fabric asymmetry of plagioclase feldspars. <i>Journal of Structural Geology</i> , 1988, 10, 73-81.	1.0	61
32	Deep root of a continent-continent collision belt: Evidence from the Chinese Continental Scientific Drilling (CCSD) deep borehole in the Sulu ultrahigh-pressure (HP-UHP) metamorphic terrane, China. <i>Tectonophysics</i> , 2009, 475, 204-219.	0.9	61
33	Shear wave properties and Poisson's ratios of ultrahigh-pressure metamorphic rocks from the Dabie-Sulu orogenic belt, China: Implications for crustal composition. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	58
34	A generalized mixture rule for estimating the viscosity of solid-liquid suspensions and mechanical properties of polyphase rocks and composite materials. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	53
35	Mechanical properties of multiphase materials and rocks: a phenomenological approach using generalized means. <i>Journal of Structural Geology</i> , 2004, 26, 1377-1390.	1.0	52
36	Natural olivine crystal-fabrics in the western Pacific convergence region: A new method to identify fabric type. <i>Earth and Planetary Science Letters</i> , 2016, 443, 70-80.	1.8	52

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37	Seismic reflectivity of a finely layered, granulite-facies ductile shear zone in the southern Grenville Province (Quebec). <i>Tectonophysics</i> , 1997, 279, 113-133.	0.9	50
38	Fracturing of garnet crystals in anisotropic metamorphic rocks during uplift. <i>Journal of Structural Geology</i> , 1997, 19, 603-620.	1.0	50
39	High-temperature plastic deformation of quartz-plagioclase multilayers by layer-normal compression. <i>Journal of Geophysical Research</i> , 2000, 105, 16651-16664.	3.3	49
40	Strength of two-phase rocks: A model based on fiber-loading theory. <i>Journal of Structural Geology</i> , 1994, 16, 253-262.	1.0	45
41	Flow laws of multiphase materials and rocks from end-member flow laws. <i>Tectonophysics</i> , 2003, 370, 129-145.	0.9	44
42	Strain softening and microstructural evolution of anorthite aggregates and quartz-anorthite layered composites deformed in torsion. <i>Earth and Planetary Science Letters</i> , 2004, 222, 377-390.	1.8	44
43	Correlations between compressional and shear wave velocities and corresponding Poisson's ratios for some common rocks and sulfide ores. <i>Tectonophysics</i> , 2009, 469, 61-72.	0.9	41
44	Seismic velocities and anisotropy of core samples from the Chinese Continental Scientific Drilling borehole in the Sulu UHP terrane, eastern China. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	41
45	Location of tensile fracture within rigid-brittle inclusions in a ductile flowing matrix. <i>Tectonophysics</i> , 1993, 220, 23-31.	0.9	39
46	Poisson's ratios of crystalline rocks as a function of hydrostatic confining pressure. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
47	Seismic anisotropy of mantle xenoliths and constraints on upper mantle structure beneath the southern Canadian Cordillera. <i>Tectonophysics</i> , 2001, 339, 403-426.	0.9	37
48	The Moho as a transition zone: A revisit from seismic and electrical properties of minerals and rocks. <i>Tectonophysics</i> , 2013, 609, 395-422.	0.9	37
49	Elastic properties of forsterite-enstatite composites up to 3.0 GPa. <i>Journal of Geodynamics</i> , 1999, 28, 147-174.	0.7	36
50	The mixed boundary problems for a mixed mode crack in a finite plate. <i>Engineering Fracture Mechanics</i> , 1997, 56, 647-655.	2.0	34
51	Plagioclase preferred orientation and induced seismic anisotropy in mafic igneous rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8064-8088.	1.4	33
52	Lamé parameters of common rocks in the Earth's crust and upper mantle. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	32
53	Teleseismic studies of the lithosphere below the Abitibi-Grenville Lithoprobe transect. <i>Canadian Journal of Earth Sciences</i> , 2000, 37, 415-426.	0.6	31
54	Antigorite-induced seismic anisotropy and implications for deformation in subduction zones and the Tibetan Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2068-2099.	1.4	31

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55	Diffusion creep of fine-grained garnetite: Implications for the flow strength of subducting slabs. <i>Geophysical Research Letters</i> , 2000, 27, 2333-2336.	1.5	30
56	P-wave velocities of polymineralic rocks: comparison of theory and experiment and test of elastic mixture rules. <i>Tectonophysics</i> , 2003, 366, 165-185.	0.9	29
57	Discussion on "Coesite-bearing eclogite breccia: implication for coseismic ultrahigh-pressure metamorphism and the rate of the process" by Yang et al. ( <i>Contrib. Mineral. Petrol.</i> , 2014a, 167: 1013). <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	1.2	27
58	Layered rheological structure of subducting oceanic lithosphere. <i>Earth and Planetary Science Letters</i> , 1994, 124, 75-94.	1.8	24
59	Ductility of garnet as an indicator of extremely high temperature deformation: Reply. <i>Journal of Structural Geology</i> , 1996, 18, 1375-1379.	1.0	24
60	Quartz microstructures and <i>c</i> -axis preferred orientations in high-grade gneisses and mylonites around the Morin anorthosite (Grenville Province). <i>Canadian Journal of Earth Sciences</i> , 1997, 34, 819-832.	0.6	22
61	Seismic reflection response of folded structures and implications for the interpretation of deep seismic reflection profiles. <i>Journal of Structural Geology</i> , 2006, 28, 1380-1387.	1.0	20
62	The relationship between diameter and depth of potholes eroded by running water. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018, 10, 818-831.	3.7	20
63	P-wave velocity differences between surface-derived and core samples from the Sulu ultrahigh-pressure terrane: Implications for in situ velocities at great depths. <i>Geology</i> , 2012, 40, 651-654.	2.0	19
64	On the measurement of plagioclase lattice preferred orientations. <i>Journal of Structural Geology</i> , 1994, 16, 1711-1718.	1.0	18
65	Hydrogen-enhanced electrical conductivity of diopside crystals. <i>Geophysical Research Letters</i> , 1999, 26, 799-802.	1.5	18
66	Generalized means as an approach for predicting Young's moduli of multiphase materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 366, 195-201.	2.6	18
67	Interfacial friction-induced pressure and implications for the formation and preservation of intergranular coesite in metamorphic rocks. <i>Journal of Structural Geology</i> , 2011, 33, 107-113.	1.0	18
68	Seismic velocities, Poisson's ratios and potential auxetic behavior of volcanic rocks. <i>Tectonophysics</i> , 2019, 766, 270-282.	0.9	17
69	Qinling gneiss domes and implications for tectonic evolution of the Early Paleozoic Orogen in Central China. <i>Journal of Asian Earth Sciences</i> , 2020, 188, 104052.	1.0	16
70	<i>V<sub>p</sub>/V<sub>s</sub></i> Anisotropy and Implications for Crustal Composition Identification and Earthquake Prediction. <i>Acta Geologica Sinica</i> , 2009, 83, 801-815.	0.8	15
71	Mica-dominated seismic properties of mid-crust beneath west Yunnan (China) and geodynamic implications. <i>Tectonophysics</i> , 2016, 677-678, 324-338.	0.9	15
72	Seismic properties of the Longmen Shan complex: Implications for the moment magnitude of the great 2008 Wenchuan earthquake in China. <i>Tectonophysics</i> , 2012, 564-565, 68-82.	0.9	13

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73	Effects of olivine fabric, melt-rock reaction, and hydration on the seismic properties of peridotites: Insight from the Luobusha ophiolite in the Tibetan Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3300-3323.	1.4	13
74	Experimental deformation of sintered albite above and below the order-disorder transition. <i>Geodinamica Acta</i> , 1987, 1, 113-124.	2.2	13
75	Southeastern extension of the Red River fault zone (RRFZ) and its tectonic evolution significance in western South China Sea. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 839-850.	0.9	12
76	A new interpretation for formation of orthogonal joints in quartz sandstone. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 289-299.	3.7	12
77	S-wave velocities and anisotropy of typical rocks from Yunkai metamorphic complex and constraints on the composition of the crust beneath Southern China. <i>Tectonophysics</i> , 2016, 686, 27-50.	0.9	11
78	On microboudin paleopiezometers and their applications to constrain stress variations in tectonites. <i>Journal of Structural Geology</i> , 2020, 130, 103928.	1.0	10
79	Constraining the ductile deformation mechanisms of garnet across pressure-temperature space. <i>Journal of Structural Geology</i> , 2021, 148, 104356.	1.0	10
80	Power-law relationship between joint spacing and bed thickness in sedimentary rocks and implications for layered rock mechanics. <i>Journal of Structural Geology</i> , 2021, 150, 104413.	1.0	8
81	Reply to the comments of S. Karato on "Petrofabrics and seismic properties of garnet peridotites from the UHP Sulu terrane (China)" by Xu et al. [ <i>Tectonophysics</i> 421 (2006) 111-127]. <i>Tectonophysics</i> , 2007, 429, 291-296.	0.9	6
82	P-wave velocities and anisotropy of typical rocks from the Yunkai Mts. (Guangdong and Guangxi). <i>Earth Sciences</i> , 2016, 131, 40-61.	1.0	6
83	Geometrical characterization of stream potholes in sandstone from the Sunxi River (Chongqing). <i>Earth Sciences</i> , 2019, 173, 374-385.	1.0	6
84	Mechanical and microstructural characterization of calcium aluminosilicate (CAS) and SiO <sub>2</sub> /CAS composites deformed at high temperature and high pressure. <i>Journal of the European Ceramic Society</i> , 2005, 25, 301-311.	2.8	5
85	Reprint of: P-wave velocities and anisotropy of typical rocks from the Yunkai Mts. (Guangdong and Guangxi). <i>Journal of Asian Earth Sciences</i> , 2017, 141, 213-234.	1.0	5
86	Tourmaline microboudinage: An indicator of its host rheology. <i>Journal of Structural Geology</i> , 2020, 138, 104096.	1.0	5
87	Feldspar microboudinage paleopiezometer and its applications to estimating differential stress magnitudes in the continental middle crust (examples from west Yunnan, China). <i>Tectonophysics</i> , 2021, 805, 228778.	0.9	5
88	An alternative interpretation for the formation of doubly plunging folds in sandstone terrains. <i>Terra Nova</i> , 2020, 32, 325-333.	0.9	3
89	Middle Eocene-Oligocene anatexis and exhumation of the Greater Himalayan Sequence in central Nepal. <i>Terra Nova</i> , 2021, 33, 590-601.	0.9	3
90	Eclogite rheology: Implications for subducted lithosphere: Comment and Reply. <i>Geology</i> , 2002, 30, 483.	2.0	2

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91	Characterization of Stream Potholes in Interlayered Felsic and Mafic Gneisses from the Deerfield River, Shelburne Falls (Massachusetts, USA), and Implications for River Incision into Bedrock. <i>Journal of Geology</i> , 2019, 127, 183-205.	0.7	1