

# Shaocheng Ji

## List of Publications by Citations

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91  
papers

5,109  
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39  
h-index

70  
g-index

94  
ext. papers

5,547  
ext. citations

3.9  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
91	The Ailao Shan-Red River shear zone (Yunnan, China), Tertiary transform boundary of Indochina. <i>Tectonophysics</i> , <b>1995</b> , 251, 3-84	3.1	809
90	The Ailao Shan/Red River metamorphic belt: Tertiary left-lateral shear between Indochina and South China. <i>Nature</i> , <b>1990</b> , 343, 431-437	50.4	718
89	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> , <b>2007</b> , 12, 404-416	5.1	242
88	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> , <b>1990</b> , 97, 65-77	5.3	198
87	Uplift of the Longmen Shan range and the Wenchuan earthquake. <i>Episodes</i> , <b>2008</b> , 31, 291-301	1.6	132
86	Ductility of garnet as an indicator of extremely high temperature deformation. <i>Journal of Structural Geology</i> , <b>1994</b> , 16, 985-996	3	98
85	Indosinian high-strain deformation for the Yunkaidashan tectonic belt, south China: Kinematics and <sup>40</sup> Ar/ <sup>39</sup> Ar geochronological constraints. <i>Tectonics</i> , <b>2007</b> , 26, n/a-n/a	4.3	95
84	A revised model for the relationship between joint spacing and layer thickness. <i>Journal of Structural Geology</i> , <b>1998</b> , 20, 1495-1508	3	94
83	Petrofabric, P-wave anisotropy and seismic reflectivity of high-grade tectonites. <i>Tectonophysics</i> , <b>1993</b> , 222, 195-226	3.1	91
82	Kinematics and dynamics of the Namche Barwa Syntaxis, eastern Himalaya: Constraints from deformation, fabrics and geochronology. <i>Gondwana Research</i> , <b>2012</b> , 21, 19-36	5.1	89
81	Porosity dependence of mechanical properties of solid materials. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 1757-1768	4.3	85
80	Composition and tectonic evolution of the Chinese continental crust constrained by Poisson's ratio. <i>Tectonophysics</i> , <b>2009</b> , 463, 15-30	3.1	83
79	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> , <b>2003</b> , 370, 49-76	3.1	79
78	Shear-wave velocities, anisotropy and splitting in high-grade mylonites. <i>Tectonophysics</i> , <b>1993</b> , 221, 453-473	3.3	74
77	Recrystallization and Fabric Development in Plagioclase. <i>Journal of Geology</i> , <b>1990</b> , 98, 65-79	2	68
76	Magnitude and symmetry of seismic anisotropy in mica- 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> , <b>2015</b> , 120, 6404-6430	3.6	67
75	Pressure dependence and anisotropy of P-wave velocities in ultrahigh-pressure metamorphic rocks from the Dabie-Bulu orogenic belt (China): Implications for seismic properties of subducted slabs and origin of mantle reflections. <i>Tectonophysics</i> , <b>2005</b> , 398, 67-99	3.1	67

74	Bulk flow strength of forsterite–enstatite composites as a function of forsterite content. <i>Tectonophysics</i> , <b>2001</b> , 341, 69-93	3.1	65
73	Flow laws of multiphase rocks calculated from experimental data on the constituent phases. <i>Earth and Planetary Science Letters</i> , <b>1993</b> , 117, 181-187	5.3	64
72	P wave velocities, anisotropy and hysteresis in ultrahigh-pressure metamorphic rocks as a function of confining pressure. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		62
71	Obliquity between seismic and electrical anisotropies as a potential indicator of movement sense for ductile shear zones in the upper mantle. <i>Geology</i> , <b>1996</b> , 24, 1033	5	61
70	Pseudotachylyte-Induced Weakness of Plate-Boundary Fault: Insight from the Indus-Tsangpo Suture between India and Asia. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 1-11	0.7	60
69	Refinements of shear-lag model and its applications. <i>Tectonophysics</i> , <b>1997</b> , 279, 37-53	3.1	59
68	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> , <b>2006</b> , 421, 111-127	3.1	59
67	Elasticity of six polycrystalline silicate garnets at pressure up to 3.0 GPa. <i>American Mineralogist</i> , <b>2001</b> , 86, 1209-1218	2.9	58
66	Sense of shear in high-temperature movement zones from the fabric asymmetry of plagioclase feldspars. <i>Journal of Structural Geology</i> , <b>1988</b> , 10, 73-81	3	58
65	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> , <b>2016</b> , 8, 35-49	5.3	57
64	A new calibration of seismic velocities, anisotropy, fabrics, and elastic moduli of amphibole-rich rocks. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 4699-4728	3.6	57
63	Seismic velocities, anisotropy, and shear-wave splitting of antigorite serpentinites and tectonic implications for subduction zones. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 1015-1037	3.6	55
62	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> , <b>2009</b> , 475, 204-219	3.1	54
61	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> , <b>2005</b> , 110,		51
60	Mechanical properties of multiphase materials and rocks: a phenomenological approach using generalized means. <i>Journal of Structural Geology</i> , <b>2004</b> , 26, 1377-1390	3	49
59	Seismic reflectivity of a finely layered, granulite-facies ductile shear zone in the southern Grenville Province (Quebec). <i>Tectonophysics</i> , <b>1997</b> , 279, 113-133	3.1	48
58	Relationship between joint spacing and bed thickness in sedimentary rocks: effects of interbed slip. <i>Geological Magazine</i> , <b>1998</b> , 135, 637-655	2	48
57	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> , <b>2004</b> , 109,		47

56	Fracturing of garnet crystals in anisotropic metamorphic rocks during uplift. <i>Journal of Structural Geology</i> , <b>1997</b> , 19, 603-620	3	45
55	Strength of two-phase rocks: A model based on fiber-loading theory. <i>Journal of Structural Geology</i> , <b>1994</b> , 16, 253-262	3	43
54	Flow laws of multiphase materials and rocks from end-member flow laws. <i>Tectonophysics</i> , <b>2003</b> , 370, 129-145	3.1	40
53	Strain softening and microstructural evolution of anorthite aggregates and quartz-anorthite layered composites deformed in torsion. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 222, 377-390	5.3	39
52	High-temperature plastic deformation of quartz-plagioclase multilayers by layer-normal compression. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 16651-16664		37
51	Natural olivine crystal-fabrics in the western Pacific convergence region: A new method to identify fabric type. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 443, 70-80	5.3	37
50	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> , <b>2012</b> , 117, n/a-n/a		36
49	Location of tensile fracture within rigid-brittle inclusions in a ductile flowing matrix. <i>Tectonophysics</i> , <b>1993</b> , 220, 23-31	3.1	35
48	Poisson's Ratio and Auxetic Properties of Natural Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 1161-1185	3.6	34
47	Poisson's ratios of crystalline rocks as a function of hydrostatic confining pressure. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		33
46	Seismic anisotropy of mantle xenoliths and constraints on upper mantle structure beneath the southern Canadian Cordillera. <i>Tectonophysics</i> , <b>2001</b> , 339, 403-426	3.1	33
45	Correlations between compressional and shear wave velocities and corresponding Poisson's ratios for some common rocks and sulfide ores. <i>Tectonophysics</i> , <b>2009</b> , 469, 61-72	3.1	31
44	Elastic properties of forsterite-anstatite composites up to 3.0 GPa. <i>Journal of Geodynamics</i> , <b>1999</b> , 28, 147-174	2.2	30
43	Teleseismic studies of the lithosphere below the Abitibi-Grenville Lithoprobe transect. <i>Canadian Journal of Earth Sciences</i> , <b>2000</b> , 37, 415-426	1.5	29
42	The mixed boundary problems for a mixed mode crack in a finite plate. <i>Engineering Fracture Mechanics</i> , <b>1997</b> , 56, 647-655	4.2	28
41	Diffusion creep of fine-grained garnetite: Implications for the flow strength of subducting slabs. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 2333-2336	4.9	28
40	Antigorite-induced seismic anisotropy and implications for deformation in subduction zones and the Tibetan Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 2068-2099	3.6	27
39	The Moho as a transition zone: A revisit from seismic and electrical properties of minerals and rocks. <i>Tectonophysics</i> , <b>2013</b> , 609, 395-422	3.1	27

38	Plagioclase preferred orientation and induced seismic anisotropy in mafic igneous rocks. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 8064-8088	3.6	26
37	P-wave velocities of polymineralic rocks: comparison of theory and experiment and test of elastic mixture rules. <i>Tectonophysics</i> , <b>2003</b> , 366, 165-185	3.1	26
36	Ductility of garnet as an indicator of extremely high temperature deformation: Reply. <i>Journal of Structural Geology</i> , <b>1996</b> , 18, 1375-1379	3	24
35	Lamé parameters of common rocks in the Earth's crust and upper mantle. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		21
34	Quartz microstructures and c-axis preferred orientations in high-grade gneisses and mylonites around the Morin anorthosite (Grenville Province). <i>Canadian Journal of Earth Sciences</i> , <b>1997</b> , 34, 819-832 <sup>1.5</sup>		21
33	Layered rheological structure of subducting oceanic lithosphere. <i>Earth and Planetary Science Letters</i> , <b>1994</b> , 124, 75-94	5.3	21
32	Hydrogen-enhanced electrical conductivity of diopside crystals. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 799-802	4.9	17
31	Discussion on Coesite-bearing eclogite breccia: implication for coseismic ultrahigh-pressure metamorphism and the rate of the process by Yang et al. (Contrib. Mineral. Petrol., 2014a, 167: 1013). <i>Contributions To Mineralogy and Petrology</i> , <b>2015</b> , 170, 1	3.5	15
30	Interfacial friction-induced pressure and implications for the formation and preservation of intergranular coesite in metamorphic rocks. <i>Journal of Structural Geology</i> , <b>2011</b> , 33, 107-113	3	15
29	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> , <b>2004</b> , 366, 195-201	5.3	15
28	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> , <b>2012</b> , 40, 651-654 <sup>5</sup>		14
27	Seismic reflection response of folded structures and implications for the interpretation of deep seismic reflection profiles. <i>Journal of Structural Geology</i> , <b>2006</b> , 28, 1380-1387	3	14
26	The relationship between diameter and depth of potholes eroded by running water. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , <b>2018</b> , 10, 818-831	5.3	14
25	Vp/Vs Anisotropy and Implications for Crustal Composition Identification and Earthquake Prediction. <i>Acta Geologica Sinica</i> , <b>2009</b> , 83, 801-815	0.7	13
24	On the measurement of plagioclase lattice preferred orientations. <i>Journal of Structural Geology</i> , <b>1994</b> , 16, 1711-1718	3	13
23	Mica-dominated seismic properties of mid-crust beneath west Yunnan (China) and geodynamic implications. <i>Tectonophysics</i> , <b>2016</b> , 677-678, 324-338	3.1	12
22	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> , <b>2016</b> , 686, 27-50	3.1	11
21	Experimental deformation of sintered albite above and below the order-disorder transition. <i>Geodinamica Acta</i> , <b>1987</b> , 1, 113-124	2	11

20	Seismic properties of the Longmen Shan complex: Implications for the moment magnitude of the great 2008 Wenchuan earthquake in China. <i>Tectonophysics</i> , <b>2012</b> , 564-565, 68-82	3.1	10
19	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> , <b>2006</b> , 49, 839-850		10
18	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> , <b>2016</b> , 121, 3300-3323	3.6	9
17	Qinling gneiss domes and implications for tectonic evolution of the Early Paleozoic Orogen in Central China. <i>Journal of Asian Earth Sciences</i> , <b>2020</b> , 188, 104052	2.8	8
16	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> , <b>2007</b> , 429, 291-296	3.1	6
15	P-wave velocities and anisotropy of typical rocks from the Yunkai Mts. (Guangdong and Guangxi, China) and constraints on the composition of the crust beneath the South China Sea. <i>Journal of Asian Earth Sciences</i> , <b>2016</b> , 131, 40-61	2.8	6
14	Reprint of: P-wave velocities and anisotropy of typical rocks from the Yunkai Mts. (Guangdong and Guangxi, China) and constraints on the composition of the crust beneath the South China Sea. <i>Journal of Asian Earth Sciences</i> , <b>2017</b> , 141, 213-234	2.8	5
13	Seismic velocities, Poisson's ratios and potential auxetic behavior of volcanic rocks. <i>Tectonophysics</i> , <b>2019</b> , 766, 270-282	3.1	5
12	On microboudin paleopiezometers and their applications to constrain stress variations in tectonites. <i>Journal of Structural Geology</i> , <b>2020</b> , 130, 103928	3	5
11	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> , <b>2005</b> , 25, 301-311	6	4
10	Geometrical characterization of stream potholes in sandstone from the Sunxi River (Chongqing, China) and implications for the development of bedrock channels. <i>Journal of Asian Earth Sciences</i> , <b>2019</b> , 173, 374-385	2.8	4
9	A new interpretation for formation of orthogonal joints in quartz sandstone. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , <b>2021</b> , 13, 289-299	5.3	4
8	Eclogite rheology: Implications for subducted lithosphere: Comment and Reply. <i>Geology</i> , <b>2002</b> , 30, 483	5	2
7	Feldspar microboudinage paleopiezometer and its applications to estimating differential stress magnitudes in the continental middle crust (examples from west Yunnan, China). <i>Tectonophysics</i> , <b>2021</b> , 805, 228778	3.1	2
6	Middle Eocene-Oligocene anatexis and exhumation of the Greater Himalayan Sequence in central Nepal. <i>Terra Nova</i> , <b>2021</b> , 33, 590	3	2
5	An alternative interpretation for the formation of doubly plunging folds in sandstone terrains. <i>Terra Nova</i> , <b>2020</b> , 32, 325-333	3	1
4	Tourmaline microboudinage: An indicator of its host rheology. <i>Journal of Structural Geology</i> , <b>2020</b> , 138, 104096	3	1
3	Power-law relationship between joint spacing and bed thickness in sedimentary rocks and implications for layered rock mechanics. <i>Journal of Structural Geology</i> , <b>2021</b> , 150, 104413	3	1

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|---|---|---|---|
| 2 | 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.<br><i>Journal of Geology</i> , <b>2019</b> , 127, 183-205 | 2 | ○ |
| 1 | Constraining the ductile deformation mechanisms of garnet across pressure-temperature space.<br><i>Journal of Structural Geology</i> , <b>2021</b> , 148, 104356  | 3 | ○ |