

# Sheng-Ao

## List of Publications by Year in descending order

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76  
papers

4,684  
citations

109321

35  
h-index

95266

68  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assembly of the Lhasa and Qiangtang terranes in central Tibet by divergent double subduction. <i>Lithos</i> , 2016, 245, 7-17.	1.4	432
2	Magmatic record of India-Asia collision. <i>Scientific Reports</i> , 2015, 5, 14289.	3.3	316
3	Geochemical contrasts between early Cretaceous ore-bearing and ore-barren high-Mg adakites in central-eastern China: Implications for petrogenesis and Cu-Au mineralization. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 7160-7178.	3.9	286
4	Post-collisional granitoids from the Dabie orogen: New evidence for partial melting of a thickened continental crust. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3815-3838.	3.9	248
5	High-precision copper and iron isotope analysis of igneous rock standards by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 122-133.	3.0	159
6	Investigation of magnesium isotope fractionation during granite differentiation: Implication for Mg isotopic composition of the continental crust. <i>Earth and Planetary Science Letters</i> , 2010, 297, 646-654.	4.4	150
7	Magnesium Isotopic Compositions of International Geological Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2015, 39, 329-339.	3.1	149
8	Northward subduction of Bangong-Nujiang Tethys: Insight from Late Jurassic intrusive rocks from Bangong Tso in western Tibet. <i>Lithos</i> , 2014, 205, 284-297.	1.4	140
9	Zinc isotope evidence for a large-scale carbonated mantle beneath eastern China. <i>Earth and Planetary Science Letters</i> , 2016, 444, 169-178.	4.4	140
10	Zinc isotope fractionation during mantle melting and constraints on the Zn isotope composition of Earth's upper mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 198, 151-167.	3.9	135
11	Contrasting zircon Hf-O isotopes and trace elements between ore-bearing and ore-barren adakitic rocks in central-eastern China: Implications for genetic relation to Cu-Au mineralization. <i>Lithos</i> , 2013, 156-159, 97-111.	1.4	131
12	Copper isotopic composition of the silicate Earth. <i>Earth and Planetary Science Letters</i> , 2015, 427, 95-103.	4.4	127
13	Copper and iron isotope fractionation during weathering and pedogenesis: Insights from saprolite profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 146, 59-75.	3.9	116
14	High-temperature inter-mineral magnesium isotope fractionation in mantle xenoliths from the North China craton. <i>Earth and Planetary Science Letters</i> , 2011, 308, 131-140.	4.4	104
15	Zinc isotope evidence for intensive magmatism immediately before the end-Permian mass extinction. <i>Geology</i> , 2017, 45, 343-346.	4.4	90
16	Mg, Sr, and O isotope geochemistry of syenites from northwest Xinjiang, China: Tracing carbonate recycling during Tethyan oceanic subduction. <i>Chemical Geology</i> , 2016, 437, 109-119.	3.3	79
17	Copper and zinc isotope fractionation during deposition and weathering of highly metalliferous black shales in central China. <i>Chemical Geology</i> , 2016, 445, 24-35.	3.3	73
18	Copper isotope fractionation during adsorption onto kaolinite: Experimental approach and applications. <i>Chemical Geology</i> , 2015, 396, 74-82.	3.3	68

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19	The Cretaceous adakiticâ€“basalticâ€“granitic magma sequence on south-eastern margin of the North China Craton: Implications for lithospheric thinning mechanism. <i>Lithos</i> , 2012, 134-135, 163-178.	1.4	66
20	Cu isotopes reveal initial Cu enrichment in sources of giant porphyry deposits in a collisional setting. <i>Geology</i> , 2019, 47, 135-138.	4.4	65
21	Felsic volcanism as a factor driving the end-Permian mass extinction. <i>Science Advances</i> , 2021, 7, eabh1390.	10.3	63
22	Compositional transition in natural alkaline lavas through silica-undersaturated meltâ€“lithosphere interaction. <i>Geology</i> , 2018, 46, 771-774.	4.4	62
23	Cu and Zn isotope fractionation during oceanic alteration: Implications for Oceanic Cu and Zn cycles. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 257, 191-205.	3.9	59
24	Copper and zinc isotope systematics of altered oceanic crust at IODP Site 1256 in the eastern equatorial Pacific. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7086-7100.	3.4	56
25	Copper isotope fractionation during sulfide-magma differentiation in the Tulaergen magmatic Niâ€“Cu deposit, NW China. <i>Lithos</i> , 2017, 286-287, 206-215.	1.4	53
26	Eocene magmatic processes and crustal thickening in southern Tibet: Insights from strongly fractionated ca. 43Ma granites in the western Gangdese Batholith. <i>Lithos</i> , 2015, 239, 128-141.	1.4	52
27	Late Jurassic sodium-rich adakitic intrusive rocks in the southern Qiangtang terrane, central Tibet, and their implications for the Bangongâ€“Nujiang Ocean subduction. <i>Lithos</i> , 2016, 245, 34-46.	1.4	52
28	Tracing the Deep Carbon Cycle Using Metal Stable Isotopes: Opportunities and Challenges. <i>Engineering</i> , 2019, 5, 448-457.	6.7	52
29	Zircon Uâ€“Pb ages, Hfâ€“O isotopes and trace elements of Mesozoic high Sr/Y porphyries from Ningzhen, eastern China: Constraints on their petrogenesis, tectonic implications and Cu mineralization. <i>Lithos</i> , 2014, 200-201, 299-316.	1.4	46
30	Iron isotopic compositions of adakitic and non-adakitic granitic magmas: Magma compositional control and subtle residual garnet effect. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 203, 89-102.	3.9	44
31	Redox reactions control Cu and Fe isotope fractionation in a magmatic Niâ€“Cu mineralization system. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 249, 42-58.	3.9	43
32	Magnesium isotopic composition of the deep continental crust. <i>American Mineralogist</i> , 2016, 101, 243-252.	1.9	42
33	Zn-Sr isotope records of the Ediacaran Doushantuo Formation in South China: diagenesis assessment and implications. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 330-345.	3.9	38
34	Cadmium Isotope Ratios of Standard Solutions and Geological Reference Materials Measured by $\mu$ -MC-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 593-605.	3.1	37
35	Magnesium isotopic heterogeneity across the cratonic lithosphere in eastern China and its origins. <i>Earth and Planetary Science Letters</i> , 2016, 451, 77-88.	4.4	36
36	Zinc and strontium isotope evidence for climate cooling and constraints on the Frasnian-Famennian (~372â€“Ma) mass extinction. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 498, 68-82.	2.3	35

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37	Transition From Low- $\delta^{44}\text{Ca}$ to High- $\delta^{44}\text{Ca}$ Calc-Alkaline Magmatism at Approximately 84 Ma in the Eastern Pontides (NE Turkey): Magmatic Response to Slab Rollback of the Black Sea. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7604-7628.	3.4	34
38	Origin of the Miocene porphyries and their mafic microgranular enclaves from Dabu porphyry Cu-Mo deposit, southern Tibet: implications for magma mixing/mingling and mineralization. <i>International Geology Review</i> , 2014, 56, 571-595.	2.1	32
39	Extreme Mg and Zn isotope fractionation recorded in the Himalayan leucogranites. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 278, 305-321.	3.9	31
40	Antimony isotope fractionation in hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 306, 84-97.	3.9	31
41	Copper isotope behavior during extreme magma differentiation and degassing: a case study on Laacher See phonolite tephra (East Eifel, Germany). <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	30
42	Copper isotopic signature of the Tiegelongnan high-sulfidation copper deposit, Tibet: implications for its origin and mineral exploration. <i>Mineralium Deposita</i> , 2016, 51, 591-602.	4.1	30
43	Zinc Isotope Constraints on Recycled Oceanic Crust in the Mantle Sources of the Emeishan Large Igneous Province. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12537-12555.	3.4	30
44	Fractionation of Mg isotopes by clay formation and calcite precipitation in groundwater with long residence times in a sandstone aquifer, Ordos Basin, China. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 237, 261-274.	3.9	29
45	Basaltic and Solution Reference Materials for Iron, Copper and Zinc Isotope Measurements. <i>Geostandards and Geoanalytical Research</i> , 2019, 43, 163-175.	3.1	29
46	Mg and Zn Isotope Evidence for Two Types of Mantle Metasomatism and Deep Recycling of Magnesium Carbonates. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020684.	3.4	29
47	Generation of leucogranites via fractional crystallization: A case from the Late Triassic Luoza batholith in the Lhasa Terrane, southern Tibet. <i>Gondwana Research</i> , 2019, 66, 63-76.	6.0	28
48	The fate of subducting carbon tracked by Mg and Zn isotopes: A review and new perspectives. <i>Earth-Science Reviews</i> , 2022, 228, 104010.	9.1	27
49	Calibrating NIST SRM 683 as a new international reference standard for Zn isotopes. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1777-1783.	3.0	26
50	Zinc, cadmium and sulfur isotope fractionation in a supergiant MVT deposit with bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 1-18.	3.9	25
51	Contrasting zinc isotopic fractionation in two mafic-rock weathering profiles induced by adsorption onto Fe (hydr)oxides. <i>Chemical Geology</i> , 2020, 539, 119504.	3.3	25
52	Evolution of Intraplate Alkaline to Tholeiitic Basalts via Interaction Between Carbonated Melt and Lithospheric Mantle. <i>Journal of Petrology</i> , 2021, 62, .	2.8	25
53	The origin and evolution of low- $\delta^{18}\text{O}$ magma recorded by multi-growth zircons in granite. <i>Earth and Planetary Science Letters</i> , 2013, 373, 233-241.	4.4	23
54	Geochronology and geochemistry of leucogranites from the southeast margin of the North China Block: Origin and migration. <i>Gondwana Research</i> , 2014, 26, 1111-1128.	6.0	23

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55	Zinc isotope fractionation between Cr-spinel and olivine and its implications for chromite crystallization during magma differentiation. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 313, 277-294.	3.9	23
56	Zinc isotopic compositions of migmatites and granitoids from the Dabie Orogen, central China: Implications for zinc isotopic fractionation during differentiation of the continental crust. <i>Lithos</i> , 2019, 324-325, 454-465.	1.4	20
57	Copper isotopic compositions of the Zijinshan high-sulfidation epithermal Cu-Au deposit, South China: Implications for deposit origin. <i>Ore Geology Reviews</i> , 2017, 83, 191-199.	2.7	18
58	Copper and zinc isotope fractionation during deposition and weathering of highly metalliferous black shales in central China. <i>Chemical Geology</i> , 2016, 422, 82.	3.3	17
59	Zinc isotopic behavior of mafic rocks during continental deep subduction. <i>Geoscience Frontiers</i> , 2021, 12, 101182.	8.4	16
60	Oxidation of the deep big mantle wedge by recycled carbonates: Constraints from highly siderophile elements and osmium isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 295, 207-223.	3.9	15
61	Contrasting fates of subducting carbon related to different oceanic slabs in East Asia. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 324, 156-173.	3.9	15
62	High-Precision Measurement of Stable Cr Isotopes in Geological Reference Materials by a Double-Spike TIMS Method. <i>Geostandards and Geoanalytical Research</i> , 2019, 43, 647-661.	3.1	11
63	Probing recycled carbonate in the lower mantle. <i>National Science Review</i> , 2022, 9, .	9.5	11
64	Temporal and Spatial Variations of Enriched Source Components in Linzizong Volcanic Succession, Tibet, and Implications for the India-Asia Collision. <i>Journal of Petrology</i> , 2022, 63, .	2.8	11
65	Copper isotope evidence for a Cu-rich mantle source of the world-class Jinchuan magmatic Ni-Cu deposit. <i>American Mineralogist</i> , 2022, 107, 673-683.	1.9	10
66	Tracing carbonate dissolution in subducting sediments by zinc and magnesium isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 319, 56-72.	3.9	10
67	Linking deep CO <sub>2</sub> outgassing to cratonic destruction. <i>National Science Review</i> , 2022, 9, .	9.5	9
68	Zinc isotope evidence for carbonate alteration of oceanic crustal protoliths of cratonic eclogites. <i>Earth and Planetary Science Letters</i> , 2022, 580, 117394.	4.4	8
69	Carbonated Big Mantle Wedge Extending to the NE Edge of the Stagnant Pacific Slab: Constraints from Late Mesozoic-Cenozoic Basalts from Far Eastern Russia. <i>Journal of Earth Science (Wuhan, China)</i> , 2022, 33, 121-132.	3.2	7
70	Chromium isotope fractionation during magmatic processes: Evidence from mid-ocean ridge basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 327, 79-95.	3.9	7
71	Molybdenum isotope tracing petrogenesis of adakitic rocks and associated ore-forming process. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 300, 296-317.	3.9	6
72	Copper Isotope Fractionation during Basalt Leaching at 25 °C and pH = 0.3, 2. <i>Journal of Earth Science (Wuhan, China)</i> , 2022, 33, 82-91.	3.2	6

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73	Magnesium and zinc isotopic anomaly of Cenozoic lavas in central Myanmar: Origins and implications for deep carbon recycling. <i>Lithos</i> , 2021, 386-387, 106011.	1.4	5
74	Cu and Zn Isotopic Evidence for the Magnitude of Organic Burial in the Mesoproterozoic Ocean. <i>Journal of Earth Science (Wuhan, China)</i> , 2022, 33, 92-99.	3.2	4
75	Zinc isotopic systematics of the Mt. Baekdu and Jeju Island intraplate basalts in Korea, and implications for mantle source lithologies. <i>Lithos</i> , 2022, 416-417, 106659.	1.4	4
76	Initial Cu enrichment in sources of giant porphyry deposits revealed by Cu isotopes. <i>Acta Geologica Sinica</i> , 2019, 93, 255-256.	1.4	0