

Chao Zhang

List of Publications by Year in descending order

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59
papers

1,379
citations

361413

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61
all docs

61
docs citations

61
times ranked

1219
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ U–Pb dating of zircon coronas, Sr–Nd–Hf isotopes and petrological constraints of the Daxigou anorthosite complex, NW China. <i>Gondwana Research</i> , 2022, 105, 96-116.	6.0	3
2	Partitioning of OH-F-Cl between biotite and silicate melt: Experiments and an empirical model. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 317, 155-179.	3.9	7
3	Boron isotopes in boninites document rapid changes in slab inputs during subduction initiation. <i>Nature Communications</i> , 2022, 13, 993.	12.8	17
4	Partition of Ti between quartz and silicate melt. Reply to: Comment on Zhang et al., ϵ_{Ti} -in-quartz thermobarometry and TiO ₂ solubility in rhyolitic melts: New experiments and parametrization. <i>Earth and Planetary Science Letters</i> , 2021, 561, 116846.	4.4	0
5	Significant boron isotopic fractionation in the magmatic evolution of Himalayan leucogranite recorded in multiple generations of tourmaline. <i>Chemical Geology</i> , 2021, 571, 120194.	3.3	18
6	On the improvement of calculating biotite formula from EPMA data: Reexamination of the methods of , , and reply to the discussion of Baidya and Das. <i>Lithos</i> , 2021, , 106403.	1.4	0
7	Isotopic Compositions (Li–Ba–Sr–O–Mg–Ca–Nd–Hf–Pb) and Fe ²⁺ /ΣFe Ratios of Three Synthetic Andesite Class Reference Materials (ARM1, ARM2, ARM3). <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 719-745.	3.1	32
8	Multi-Stage Hydrothermal Veins in Layered Gabbro of the Oman Ophiolite: Implications for Focused Fluid Circulation in the Lower Oceanic Crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022349.	3.4	9
9	High-K calc-alkaline to shoshonitic intrusions in SE Tibet: implications for metasomatized lithospheric mantle beneath an active continental margin. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	5
10	Calculating biotite formula from electron microprobe analysis data using a machine learning method based on principal components regression. <i>Lithos</i> , 2020, 356-357, 105371.	1.4	36
11	Experimental evidence for a protracted enrichment of tungsten in evolving granitic melts: implications for scheelite mineralization. <i>Mineralium Deposita</i> , 2020, 55, 1299-1306.	4.1	4
12	Magma Dynamics of Axial Melt Lens at Fast-Spreading Mid-Ocean Ridges. <i>Acta Geologica Sinica</i> , 2020, 94, 80-80.	1.4	0
13	The magma plumbing system of Mesozoic Shanyang porphyry groups, South Qinling and implications for porphyry copper mineralization. <i>Earth and Planetary Science Letters</i> , 2020, 543, 116346.	4.4	12
14	Experiments on the Saturation of Fluorite in Magmatic Systems: Implications for Maximum F Concentration and Fluorine-Cation Bonding in Silicate Melt. <i>Journal of Earth Science (Wuhan, China)</i> , 2020, 31, 456-467.	3.2	16
15	Calculating amphibole formula from electron microprobe analysis data using a machine learning method based on principal components regression. <i>Lithos</i> , 2020, 362-363, 105469.	1.4	23
16	Ti-in-quartz thermobarometry and TiO ₂ solubility in rhyolitic melts: New experiments and parametrization. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116213.	4.4	36
17	GeoBalance: An Excel VBA program for mass balance calculation in geosciences. <i>Chemie Der Erde</i> , 2020, 80, 125629.	2.0	11
18	Origin and evolution of ultrapotassic intermediate magma: The Songxian syenite massif, Central China. <i>Lithos</i> , 2020, 366-367, 105554.	1.4	8

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19	Petrogenesis of deformed tourmaline leucogranite in the Gurla Mandhata metamorphic core complex, Southwestern Tibet. <i>Lithos</i> , 2020, 364-365, 105533.	1.4	3
20	Experimental investigation of reactions between two-mica granite and boron-rich fluids: Implications for the formation of tourmaline granite. <i>Science China Earth Sciences</i> , 2019, 62, 1630-1644.	5.2	6
21	Rapid cooling history of a Neotethyan ophiolite: Evidence for contemporaneous subduction initiation and metamorphic sole formation. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 2011-2038.	3.3	19
22	Electron probe microanalysis of Fe ²⁺ / ^Σ Fe ratios in calcic and sodic-calcic amphibole and biotite using the flank method. <i>Chemical Geology</i> , 2019, 509, 152-162.	3.3	14
23	Improvement of Electron Probe Microanalysis of Boron Concentration in Silicate Glasses. <i>Microscopy and Microanalysis</i> , 2019, 25, 874-882.	0.4	6
24	Anisotropic growth of La ₂ NiO ₄ +: Influential pre-treatment in molten-flux synthesis. <i>Journal of Crystal Growth</i> , 2019, 523, 125135.	1.5	4
25	The Formation of Tonalitesâ€“Trondjemiteâ€“Granodiorites in Early Continental Crust. , 2019, , 133-168.		29
26	Halogen geochemistry of I- and A-type granites from Jiuhuashan region (South China): Insights into the elevated fluorine in A-type granite. <i>Chemical Geology</i> , 2018, 478, 164-182.	3.3	70
27	Geochronology, Geochemistry and Sr-Nd-Pb Isotopic Study of the Wulong Flower-Like Glomerophytic Diorite Porphyry (Central China): Implications for Tectonic Evolution of Eastern Qinling. <i>Journal of Earth Science (Wuhan, China)</i> , 2018, 29, 1203-1218.	3.2	7
28	Chlorine-rich amphibole in deep layered gabbros as evidence for brine/rock interaction in the lower oceanic crust: A case study from the Wadi Wariyah, Samail Ophiolite, Sultanate of Oman. <i>Lithos</i> , 2018, 323, 125-136.	1.4	16
29	Fluorine partitioning between titanite and silicate melt and its dependence on melt composition: experiments at 50â€“200 MPa and 875â€“925Â°C. <i>European Journal of Mineralogy</i> , 2018, 30, 33-44.	1.3	4
30	Electron microprobe technique for the determination of iron oxidation state in silicate glasses. <i>American Mineralogist</i> , 2018, 103, 1445-1454.	1.9	20
31	A flower-like glomerophytic diorite porphyry from Central China: Constraints on the unusual texture. <i>Lithos</i> , 2018, 318-319, 1-13.	1.4	3
32	Apatite in the dike-gabbro transition zone of mid-ocean ridge: Evidence for brine assimilation by axial melt lens. <i>American Mineralogist</i> , 2017, 102, 558-570.	1.9	19
33	Stabilizing Perovskite Structure by Interdiffusional Tailoring and Its Application in Composite Mixed Oxygenâ€“Ionic and Electronic Conductors. <i>Angewandte Chemie</i> , 2017, 129, 7692-7696.	2.0	0
34	Stabilizing Perovskite Structure by Interdiffusional Tailoring and Its Application in Composite Mixed Oxygenâ€“Ionic and Electronic Conductors. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7584-7588.	13.8	16
35	Water-enhanced interdiffusion of major elements between natural shoshonite and high-K rhyolite melts. <i>Chemical Geology</i> , 2017, 466, 86-101.	3.3	24
36	Volatiles (CO ₂ , S, F, Cl, Br) in the dike-gabbro transition zone at IODP Hole 1256D: Magmatic imprint versus hydrothermal influence at fast-spreading mid-ocean ridge. <i>Chemical Geology</i> , 2017, 459, 43-60.	3.3	16

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37	Electron Probe Microanalysis of Bromine in Minerals and Glasses with Correction for Spectral Interference from Aluminium, and Comparison with Microbeam Synchrotron X-Ray Fluorescence Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 449-457.	3.1	13
38	Felsic Plutonic Rocks from IODP Hole 1256D, Eastern Pacific: Implications for the Nature of the Axial Melt Lens at Fast-Spreading Mid-Ocean Ridges. <i>Journal of Petrology</i> , 2017, 58, 1535-1565.	2.8	20
39	Trace element evidence for anatexis at oceanic magma chamber roofs and the role of partial melts for contamination of fresh MORB. <i>Lithos</i> , 2016, 260, 1-8.	1.4	18
40	A Practical Method for Accurate Measurement of Trace Level Fluorine in Mg- and Fe-Bearing Minerals and Glasses Using Electron Probe Microanalysis. <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 351-363.	3.1	41
41	Early Jurassic mafic dykes from the Xiazhuang ore district (South China): Implications for tectonic evolution and uranium metallogenesis. <i>Lithos</i> , 2015, 239, 71-85.	1.4	40
42	Anatexis at the roof of an oceanic magma chamber at IODP Site 1256 (equatorial Pacific): an experimental study. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	29
43	Fractional crystallization and magma mixing: evidence from porphyritic diorite-granodiorite dykes and mafic microgranular enclaves within the Zhoukoudian pluton, Beijing. <i>Mineralogy and Petrology</i> , 2014, 108, 777-800.	1.1	7
44	Genesis of leucogranite by prolonged fractional crystallization: A case study of the Mufushan complex, South China. <i>Lithos</i> , 2014, 206-207, 147-163.	1.4	79
45	Decompressional anatexis in the migmatite core complex of northern Dabie orogen, eastern China: Petrological evidence and Ti-in-quartz thermobarometry. <i>Lithos</i> , 2014, 202-203, 227-236.	1.4	14
46	Rapid hydrothermal cooling above the axial melt lens at fast-spreading mid-ocean ridge. <i>Scientific Reports</i> , 2014, 4, 6342.	3.3	17
47	Mineralogical and geochemical constraints on contribution of magma mixing and fractional crystallization to high-Mg adakite-like diorites in eastern Dabie orogen, East China. <i>Lithos</i> , 2013, 172-173, 118-138.	1.4	42
48	Geochronology and geochemistry of the Early Cretaceous Jigongshan and Qijianfeng batholiths in the Tongbai orogen, central China: implications for lower crustal delamination. <i>International Journal of Earth Sciences</i> , 2013, 102, 1045-1067.	1.8	13
49	Zircon U-Pb age, Hf isotopic compositions and geochemistry of the Silurian Fengdingshan I-type granite Pluton and Taoyuan mafic-felsic Complex at the southeastern margin of the Yangtze Block. <i>Journal of Asian Earth Sciences</i> , 2013, 74, 11-24.	2.3	47
50	Constraints from experimental melting of amphibolite on the depth of formation of garnet-rich restites, and implications for models of Early Archean crustal growth. <i>Precambrian Research</i> , 2013, 231, 206-217.	2.7	84
51	Tracing the evolution and distribution of F and Cl in plutonic systems from volatile-bearing minerals: a case study from the Liujiawa pluton (Dabie orogen, China). <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 859-879.	3.1	94
52	New U-Hf geochronology constrains the onset of continental subduction in the Dabie orogen. <i>Lithos</i> , 2011, 121, 41-54.	1.4	54
53	Origin of high-Mg adakitic magmatic enclaves from the Meichuan pluton, southern Dabie orogen (central China): Implications for delamination of the lower continental crust and melt-mantle interaction. <i>Lithos</i> , 2011, 125, 839-844.	1.4	3
54	Timing and genesis of the adakitic and shoshonitic intrusions in the Laoniushan complex, southern margin of the North China Craton: Implications for post-collisional magmatism associated with the Qinling Orogen. <i>Lithos</i> , 2011, 126, 212-232.	1.4	93

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55	Implications of subduction and subduction zone migration of the Paleo-Pacific Plate beneath eastern North China, based on distribution, geochronology, and geochemistry of Late Mesozoic volcanic rocks. <i>International Journal of Earth Sciences</i> , 2011, 100, 1665-1684.	1.8	38
56	Mafic dykes derived from Early Cretaceous depleted mantle beneath the Dabie orogenic belt: implications for changing lithosphere mantle beneath Eastern China. <i>Geological Journal</i> , 2011, 46, 333-343.	1.3	12
57	Origin of high-Mg adakitic magmatic enclaves from the Meichuan pluton, southern Dabie orogen (central China): Implications for delamination of the lower continental crust and melt-mantle interaction. <i>Lithos</i> , 2010, 119, 467-484.	1.4	75
58	Petrogenesis and tectonic implications of A-type granites in the Dabie orogenic belt, China: geochronological and geochemical constraints. <i>Geological Magazine</i> , 2009, 146, 638-651.	1.5	26
59	Detrital zircon analysis of the Mesozoic strata in the northern Ordos Basin: Revealing the source-sink relationships and tectonic settings. <i>Geological Journal</i> , 0, , .	1.3	2