

Xiaozhi Yang

List of Publications by Year in descending order

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50
papers

1,699
citations

236925

25
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

1208
citing authors

#	ARTICLE	IF	CITATIONS
1	Water in minerals of the continental lithospheric mantle and overlying lower crust: A comparative study of peridotite and granulite xenoliths from the North China Craton. <i>Chemical Geology</i> , 2008, 256, 33-45.	3.3	118
2	Electrical conductivity of orthopyroxene and plagioclase in the lower crust. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 33-48.	3.1	106
3	Low water content of the Cenozoic lithospheric mantle beneath the eastern part of the North China Craton. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	97
4	Orientation-related electrical conductivity of hydrous olivine, clinopyroxene and plagioclase and implications for the structure of the lower continental crust and uppermost mantle. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 241-250.	4.4	91
5	Water in the upper mantle and deep crust of eastern China: concentration, distribution and implications. <i>National Science Review</i> , 2019, 6, 125-144.	9.5	88
6	Heterogeneity of water in garnets from UHP eclogites, eastern Dabieshan, China. <i>Chemical Geology</i> , 2005, 224, 237-246.	3.3	84
7	Effect of water on the electrical conductivity of lower crustal clinopyroxene. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	82
8	H ₂ O contents and D/H ratios of nominally anhydrous minerals from ultrahigh-pressure eclogites of the Dabie orogen, eastern China. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2079-2103.	3.9	80
9	Low-temperature CO oxidation over CuO/Fe ₂ O ₃ catalysts. <i>Catalysis Communications</i> , 2007, 8, 1167-1171.	3.3	72
10	A relatively reduced Hadean continental crust and implications for the early atmosphere and crustal rheology. <i>Earth and Planetary Science Letters</i> , 2014, 393, 210-219.	4.4	71
11	Origin of High Electrical Conductivity in the Lower Continental Crust: A Review. <i>Surveys in Geophysics</i> , 2011, 32, 875-903.	4.6	60
12	Molecular hydrogen in mantle minerals. <i>Geochemical Perspectives Letters</i> , 2016, , 160-168.	5.0	52
13	Water in the lower crustal granulite xenoliths from Nushan, eastern China. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	50
14	Fe ³⁺ -rich augite and high electrical conductivity in the deep lithosphere. <i>Geology</i> , 2012, 40, 131-134.	4.4	49
15	Fluorine follows water: Effect on electrical conductivity of silicate minerals by experimental constraints from phlogopite. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 217, 16-27.	3.9	42
16	Water contrast between Precambrian and Phanerozoic continental lower crust in eastern China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	40
17	CO ₂ -induced small water solubility in olivine and implications for properties of the shallow mantle. <i>Earth and Planetary Science Letters</i> , 2014, 403, 37-47.	4.4	40
18	Cubic GdFeO ₃ particle by a simple hydrothermal synthesis route and its photoluminescence and magnetic properties. <i>CrystEngComm</i> , 2012, 14, 8432.	2.6	39

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19	Unusually high electrical conductivity of phlogopite: the possible role of fluorine and geophysical implications. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	39
20	Effect of oxygen fugacity on OH dissolution in olivine under peridotite-saturated conditions: An experimental study at 1.5–7 GPa and 1100–1300 °C. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 319-336.	3.9	31
21	In-situ infrared spectra of OH in olivine to 1100 °C. <i>American Mineralogist</i> , 2011, 96, 451-454.	1.9	29
22	Grain size effect on the electrical conductivity of clinopyroxene. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 939-947.	3.1	29
23	An experimental study of H solubility in feldspars: Effect of composition, oxygen fugacity, temperature and pressure and implications for crustal processes. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 97, 46-57.	3.9	28
24	Electrical conductivity of OH-bearing omphacite and garnet in eclogite: the quantitative dependence on water content. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	28
25	Quantitative analysis of H-species in anisotropic minerals by polarized infrared spectroscopy along three orthogonal directions. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	26
26	OH solubility in olivine in the peridotite–COH system under reducing conditions and implications for water storage and hydrous melting in the reducing upper mantle. <i>Earth and Planetary Science Letters</i> , 2015, 432, 199-209.	4.4	24
27	Melting Inside the Tibetan Crust? Constraint From Electrical Conductivity of Peraluminous Granitic Melt. <i>Geophysical Research Letters</i> , 2018, 45, 3906-3913.	4.0	24
28	Self-assembly of Single/Multiwall Hollow CeO ₂ Microspheres through Hydrothermal Method. <i>Chemistry Letters</i> , 2006, 35, 944-945.	1.3	22
29	In-situ infrared spectra of hydroxyl in wadsleyite and ringwoodite at high pressure and high temperature. <i>American Mineralogist</i> , 2014, 99, 724-729.	1.9	18
30	Large effect of water on Fe–Mg interdiffusion in garnet. <i>Earth and Planetary Science Letters</i> , 2019, 505, 20-29.	4.4	16
31	Electrical conductivity of omphacite and garnet indicates limited deep water recycling by crust subduction. <i>Earth and Planetary Science Letters</i> , 2021, 559, 116784.	4.4	16
32	In-situ trace element analyses and Pb-Pb dating of zircons in granulite from Huangtuling, Dabieshan by LAM-ICP-MS. <i>Science in China Series D: Earth Sciences</i> , 2003, 46, 1161-1170.	0.9	14
33	Morphology-controlled synthesis, characterization, growth mechanism of SmOHCO ₃ with high uniform size and photoluminescence property of SmOHCO ₃ :Eu ³⁺ . <i>Powder Technology</i> , 2012, 224, 175-182.	4.2	14
34	Quantitative analysis of H-species in anisotropic minerals by unpolarized infrared spectroscopy: An experimental evaluation. <i>American Mineralogist</i> , 2018, 103, 1761-1769.	1.9	12
35	Solubility of hydroxyl groups in pyroxenes: Effect of oxygen fugacity at 0.2–3 GPa and 800–1200 °C. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 286, 355-379.	3.9	12
36	Controlled synthesis, characterization and photoluminescence property of olive-like tetragonal $\text{Nd}_2(\text{MoO}_4)_3$. <i>Materials Research Bulletin</i> , 2012, 47, 2364-2368.	5.2	9

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37	Effects of Oxygen Fugacity on Hydroxyl Incorporation in Garnet at 1–3 GPa and 800–1000°C and Implications for Water Storage in the Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	8
38	Heterogeneity of water in UHP eclogites from Bixiling in Dabieshan: Evidence from garnet. <i>Science Bulletin</i> , 2004, 49, 481-486.	1.7	6
39	Electrical Conductivity of Fluorite and Fluorine Conduction. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 72.	2.0	6
40	High Electrical Conductivity of Olivine at Oxidizing Conditions of the Shallow Mantle and Geophysical Implications. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	6
41	High-pressure and high-temperature Raman spectroscopic study of hydrous wadsleyite (Mg_2SiO_4). <i>Physics and Chemistry of Minerals</i> , 2012, 39, 57-64.	0.8	5
42	High-P/T experimental studies and water in the silicate mantle. <i>Science China Earth Sciences</i> , 2016, 59, 683-695.	5.2	4
43	CaSiO_3 Perovskite May Cause Electrical Conductivity Jump in the Topmost Lower Mantle. <i>Geophysical Research Letters</i> , 2017, 44, 10,226.	4.0	3
44	The origins and geodynamic implications of mid-lithospheric discontinuities. <i>Chinese Science Bulletin</i> , 2019, 64, 2305-2315.	0.7	3
45	Water in omphacite fingerprints the thermal history of eclogites. <i>Geology</i> , 2022, 50, 316-320.	4.4	3
46	Redox geodynamics in Earth's interior. <i>Science China Earth Sciences</i> , 2022, 65, 624-640.	5.2	1
47	Electrical Conductivity of Eclogitic Omphacite and Garnet at Water-Rich Conditions. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	1
48	Water in granulites: implications for the nature and evolution of the lower continental crust. <i>Progress in Natural Science: Materials International</i> , 2007, 17, 117-130.	4.4	0
49	Chemical diffusion of fluorine in phlogopite. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 333, 95-106.	3.9	0