## Qun-Ke Xia

List of Publications by Year in descending order

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OLIN-KE XIA

#	Article	IF	CITATIONS
1	Destruction of the North China Craton. Science China Earth Sciences, 2012, 55, 1565-1587.	2.3	440
2	Deep carbon cycles constrained by a large-scale mantle Mg isotope anomaly in eastern China. National Science Review, 2017, 4, 111-120.	4.6	240
3	High water content in Mesozoic primitive basalts of the North China Craton and implications on the destruction of cratonic mantle lithosphere. Earth and Planetary Science Letters, 2013, 361, 85-97.	1.8	169
4	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. Chemical Geology, 2008, 256, 33-45.	1.4	118
5	Low water content of the Cenozoic lithospheric mantle beneath the eastern part of the North China Craton. Journal of Geophysical Research, 2010, 115, .	3.3	97
6	Water in the upper mantle and deep crust of eastern China: concentration, distribution and implications. National Science Review, 2019, 6, 125-144.	4.6	88
7	Heterogeneity of water in garnets from UHP eclogites, eastern Dabieshan, China. Chemical Geology, 2005, 224, 237-246.	1.4	84
8	Effect of water on the electrical conductivity of lower crustal clinopyroxene. Journal of Geophysical Research, 2011, 116, .	3.3	82
9	H2O contents and D/H ratios of nominally anhydrous minerals from ultrahigh-pressure eclogites of the Dabie orogen, eastern China. Geochimica Et Cosmochimica Acta, 2007, 71, 2079-2103.	1.6	80
10	Heterogeneous source components of intraplate basalts from NE China induced by the ongoing Pacific slab subduction. Earth and Planetary Science Letters, 2017, 459, 208-220.	1.8	67
11	Water contents of pyroxenes in intraplate lithospheric mantle. European Journal of Mineralogy, 2009, 21, 637-647.	0.4	61
12	H2O contents and their modification in the Cenozoic subcontinental lithospheric mantle beneath the Cathaysia block, SE China. Lithos, 2011, 126, 182-197.	0.6	61
13	Water contents of the Cenozoic lithospheric mantle beneath the western part of the North China Craton: Peridotite xenolith constraints. Gondwana Research, 2013, 23, 108-118.	3.0	60
14	Water Content and Oxygen Isotopic Composition of Alkali Basalts from the Taihang Mountains, China: Recycled Oceanic Components in the Mantle Source. Journal of Petrology, 2015, 56, 681-702.	1.1	60
15	Changing recycled oceanic components in the mantle source of the Shuangliao Cenozoic basalts, NE China: New constraints from water content. Tectonophysics, 2015, 650, 113-123.	0.9	56
16	Mantle hydration and the role of water in the generation of large igneous provinces. Nature Communications, 2017, 8, 1824.	5.8	55
17	Water in the lower crustal granulite xenoliths from Nushan, eastern China. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	50
18	Partial melting control of water contents in the Cenozoic lithospheric mantle of the Cathaysia block of South China. Chemical Geology, 2014, 380, 7-19.	1.4	49

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19	Buoyant hydrous mantle plume from the mantle transition zone. Scientific Reports, 2019, 9, 6549.	1.6	43
20	Recycled oceanic crust and marine sediment in the source of alkali basalts in Shandong, eastern China: Evidence from magma water content and oxygen isotopes. Journal of Geophysical Research: Solid Earth, 2015, 120, 8281-8303.	1.4	41
21	Water contrast between Precambrian and Phanerozoic continental lower crust in eastern China. Journal of Geophysical Research, 2008, 113, .	3.3	40
22	CO 2 -induced small water solubility in olivine and implications for properties of the shallow mantle. Earth and Planetary Science Letters, 2014, 403, 37-47.	1.8	40
23	Recognizing juvenile and relict lithospheric mantle beneath the North China Craton: Combined analysis of H2O, major and trace elements and Sr–Nd isotope compositions of clinopyroxenes. Lithos, 2012, 149, 136-145.	0.6	38
24	Continuous supply of recycled Pacific oceanic materials in the source of Cenozoic basalts in SE China: the Zhejiang case. Contributions To Mineralogy and Petrology, 2016, 171, 1.	1.2	36
25	Water concentration profiles in natural mantle orthopyroxenes: A geochronometer for long annealing of xenoliths within magma. Geology, 2017, 45, 87-90.	2.0	35
26	Temporal variation of H 2 O content in the lithospheric mantle beneath the eastern North China Craton: Implications for the destruction of cratons. Gondwana Research, 2015, 28, 276-287.	3.0	32
27	Regional heterogeneity in the water content of the Cenozoic lithospheric mantle of Eastern China. Journal of Geophysical Research: Solid Earth, 2016, 121, 517-537.	1.4	32
28	Oxygen and hydrogen isotope heterogeneity of clinopyroxene megacrysts from Nushan Volcano, SE China. Chemical Geology, 2004, 209, 137-151.	1.4	31
29	Pressure―and stressâ€induced fabric transition in olivine from peridotites in the Western Gneiss Region (Norway): implications for mantle seismic anisotropy. Journal of Metamorphic Geology, 2013, 31, 93-111.	1.6	29
30	Water contents and electrical conductivity of peridotite xenoliths from the North China Craton: Implications for water distribution in the upper mantle. Lithos, 2014, 189, 105-126.	0.6	28
31	Low water content in the mantle source of the Hainan plume as a factor inhibiting the formation of a large igneous province. Earth and Planetary Science Letters, 2019, 515, 221-230.	1.8	26
32	The Cenozoic lithospheric mantle beneath the interior of South China Block: Constraints from mantle xenoliths in Guangxi Province. Lithos, 2014, 210-211, 14-26.	0.6	24
33	Mantle metasomatism did not modify the initial H2O content in peridotite xenoliths from the Tianchang basalts of eastern China. Lithos, 2016, 260, 315-327.	0.6	24
34	High water content in primitive continental flood basalts. Scientific Reports, 2016, 6, 25416.	1.6	21
35	Extremely low structural hydroxyl contents in upper mantle xenoliths from the Nógrád-Gömör Volcanic Field (northern Pannonian Basin): Geodynamic implications and the role of post-eruptive re-equilibration. Chemical Geology, 2019, 507, 23-41.	1.4	20
36	Electrical conductivity of melts: implications for conductivity anomalies in the Earth's mantle. National Science Review, 2021, 8, nwab064.	4.6	20

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37	Temperature dependence of IR absorption of OH species in clinopyroxene. American Mineralogist, 2010, 95, 1439-1443.	0.9	19
38	Water contents of Roberts Victor xenolithic eclogites: primary and metasomatic controls. Contributions To Mineralogy and Petrology, 2014, 168, 1.	1.2	19
39	Revisiting Mesozoic felsic intrusions in eastern South China: spatial and temporal variations and tectonic significance. Lithos, 2017, 294-295, 147-163.	0.6	17
40	The distribution of water in the continental lithospheric mantle and its implications for the stability of continents. Science Bulletin, 2013, 58, 3879-3889.	1.7	15
41	Water decreases displacive phase transition temperature in alkali feldspar. European Journal of Mineralogy, 2018, 30, 1071-1081.	0.4	15
42	Lateral H2O variation in the Zealandia lithospheric mantle controls orogen width. Earth and Planetary Science Letters, 2018, 502, 200-209.	1.8	15
43	Water content of the Xiaogulihe ultrapotassic volcanic rocks, NE China: implications for the source of the potassium-rich component. Science Bulletin, 2015, 60, 1468-1470.	4.3	14
44	Evolution of OH groups in diopside and feldspars with temperature. European Journal of Mineralogy, 2015, 27, 185-192.	0.4	12
45	Dynamic contribution of recycled components from the subducted Pacific slab: Oxygen isotopic composition of the basalts from 106 Ma to 60 Ma in North China Craton. Journal of Geophysical Research: Solid Earth, 2017, 122, 988-1006.	1.4	12
46	Insights into post-magmatic metasomatism and Li circulation in granitic systems from phosphate minerals of the Nanping No. 31 pegmatite (SE China). Ore Geology Reviews, 2017, 91, 864-876.	1.1	12
47	Metasomatism in the sub-continental lithospheric mantle beneath the south French Massif Central: Constraints from trace elements, Li and H in peridotite minerals. Chemical Geology, 2018, 478, 2-17.	1.4	12
48	Quantitative analysis of H-species in anisotropic minerals by unpolarized infrared spectroscopy: An experimental evaluation. American Mineralogist, 2018, 103, 1761-1769.	0.9	12
49	Nature of hydrogen defects in clinopyroxenes from room temperature up to 1000 ŰC: Implication for the preservation of hydrogen in the upper mantle and impact on electrical conductivity. American Mineralogist, 2019, 104, 79-93.	0.9	12
50	OH in natural orthopyroxene: an in situ FTIR investigation at varying temperatures. Physics and Chemistry of Minerals, 2012, 39, 413-418.	0.3	11
51	Water content in the early Cretaceous lithospheric mantle beneath the south-central Taihang Mountains: implications for the destruction of the North China Craton. Science Bulletin, 2014, 59, 1362-1365.	1.7	11
52	Recycled oceanic crust-derived fluids in the lithospheric mantle of eastern China: Constraints from oxygen isotope compositions of peridotite xenoliths. Lithos, 2015, 228-229, 55-61.	0.6	11
53	The fate of ammonium in phengite at high temperature. American Mineralogist, 2017, 102, 2244-2253.	0.9	11
54	Influence of the subduction of the Pacific plate on the mantle characteristics of South China: Constraints from the temporal geochemical evolution of the Mesozoic basalts in the Jitai Basin. Lithos, 2020, 352-353, 105253.	0.6	11

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55	Anomalously high ÎƊ values in the mantle. Geophysical Research Letters, 2002, 29, 4-1.	1.5	10
56	In situ FTIR investigations at varying temperatures on hydrous components in rutile. American Mineralogist, 2011, 96, 1851-1855.	0.9	10
57	Temperature dependences of hydrous species in feldspars. Physics and Chemistry of Minerals, 2018, 45, 609-620.	0.3	10
58	Intimate link between ammonium loss of phengite and the deep Earth's water cycle. Earth and Planetary Science Letters, 2019, 513, 95-102.	1.8	10
59	Hydrogen diffusion in clinopyroxene: dehydration experiments. Science in China Series D: Earth Sciences, 2000, 43, 561-568.	0.9	9
60	Water effects on the anharmonic properties of forsterite. American Mineralogist, 2015, 100, 2185-2190.	0.9	9
61	Water concentrations and hydrogen isotope compositions of alkaline basalt-hosted clinopyroxene megacrysts and amphibole clinopyroxenites: the role of structural hydroxyl groups and molecular water. Contributions To Mineralogy and Petrology, 2016, 171, 1.	1.2	9
62	Re-configuration and interaction of hydrogen sites in olivine at high temperature and high pressure. American Mineralogist, 2019, 104, 878-889.	0.9	9
63	The distribution of water in the early Cretaceous lithospheric mantle of the North China Craton and implications for its destruction. Lithos, 2020, 360-361, 105412.	0.6	9
64	Melting of recycled ancient crust responsible for the Gutenberg discontinuity. Nature Communications, 2020, 11, 172.	5.8	8
65	High H2O Content in Pyroxenes of Residual Mantle Peridotites at a Mid Atlantic Ridge Segment. Scientific Reports, 2020, 10, 579.	1.6	8
66	Influence of water on the physical properties of olivine, wadsleyite, and ringwoodite. European Journal of Mineralogy, 2021, 33, 39-75.	0.4	8
67	High-temperature phase transition and local structure of a hydrous anorthoclase. Physics and Chemistry of Minerals, 2016, 43, 111-118.	0.3	7
68	Heterogeneity of water in UHP eclogites from Bixiling in Dabieshan: Evidence from garnet. Science Bulletin, 2004, 49, 481-486.	1.7	6
69	Continuous water supply from the subducted pacific plate to the Eastern Asian big mantle wedge: New insights from the water content of late Cretaceous OIB-like basalts. Lithos, 2020, 352-353, 105249.	0.6	6
70	Typical oxygen isotope profile of altered oceanic crust recorded in continental intraplate basalts. Journal of Earth Science (Wuhan, China), 2017, 28, 578-587.	1.1	5
71	Machine Learning for Identification of Primary Water Concentrations in Mantle Pyroxene. Geophysical Research Letters, 2021, 48, e2021GL095191.	1.5	5
72	Structural OH in mantle-derived clinopyroxene megacrysts from Nushan. Science Bulletin, 1998, 43, 1742-1745.	1.7	4

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73	Kinetics of deuteration in andradite and garnet. American Mineralogist, 2015, 100, 1400-1410.	0.9	4
74	Variations in the H <sub>2</sub> O Content and H <sub>2</sub> O/Ce Ratio of Mantle Pyroxenites: Implications for Enriched Components in the Mantle. Journal of Geophysical Research: Solid Earth, 2018, 123, 5628-5643.	1.4	4
75	Ammonium Impacts on Vibrations of Hydroxyl and Lattice of Phengite at High Temperature and High Pressure. Journal of Earth Science (Wuhan, China), 2021, 32, 1278-1286.	1.1	4
76	Highly variable H2O/Ce ratios in the Hainan mantle plume. Lithos, 2021, 406-407, 106516.	0.6	4
77	The origins and geodynamic implications of mid-lithospheric discontinuities. Chinese Science Bulletin, 2019, 64, 2305-2315.	0.4	3
78	Nitrogen Retention in Feldspar: Implications for Nitrogen Transport in Subduction Zones. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	3
79	Impact of fluorine on the thermal stability of phlogopite. American Mineralogist, 2022, 107, 815-825.	0.9	2
80	Correction to "Water contrast between Precambrian and Phanerozoic continental lower crust in eastern China― Journal of Geophysical Research, 2008, 113, .	3.3	1
81	Fragments of asthenosphere incorporated in the lithospheric mantle underneath the Subei Basin, eastern China: Constraints from geothermobarometric results and water contents of peridotite xenoliths in Cenozoic basalts. Journal of Asian Earth Sciences: X, 2019, 1, 100006.	0.6	1
82	Chukochenite (Li.0.5Al0.5)Al2O4, a new lithium oxyspinel mineral from the Xianghualing skarn, Hunan Province, China. American Mineralogist, 2021, , .	0.9	1
83	Refined estimation of Li in mica by a machine learning method. American Mineralogist, 2022, 107, 1034-1044.	0.9	1
84	Behavior and origin of hydrogen defects in natural orthopyroxene during high-temperature processes. American Mineralogist, 2021, 106, 1768-1779.	0.9	0