# Jingao Liu

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6606861/publications.pdf

Version: 2024-02-01

| 56 | 1,749 | 304743 | 276875 |
|---|---|---|---|
| papers | citations | 22 h-index | 41 g-index |

| 56 | 56 | 56 | 1339 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Zinc isotope fractionation during mantle melting and constraints on the Zn isotope composition of Earthâ€™s upper mantle. Geochimica Et Cosmochimica Acta, 2017, 198, 151-167. | 3.9 | 135 |
| 2 | Copper isotopic composition of the silicate Earth. Earth and Planetary Science Letters, 2015, 427, 95-103. | 4.4 | 127 |
| 3 | Thinning and destruction of the lithospheric mantle root beneath the North China Craton: A review. Earth-Science Reviews, 2019, 196, 102873. | 9.1 | 124 |
| 4 | Mapping lithospheric boundaries using Os isotopes of mantle xenoliths: An example from the North China Craton. Geochimica Et Cosmochimica Acta, 2011, 75, 3881-3902. | 3.9 | 118 |
| 5 | Deep continental roots and cratons. Nature, 2021, 596, 199-210. | 27.8 | 93 |
| 6 | Processes controlling highly siderophile element fractionations in xenolithic peridotites and their influence on Os isotopes. Earth and Planetary Science Letters, 2010, 297, 287-297. | 4.4 | 75 |
| 7 | New insights into the Hadean mantle revealed by 182W and highly siderophile element abundances of supracrustal rocks from the Nuvvuagittuq Greenstone Belt, Quebec, Canada. Chemical Geology, 2014, 383, 63-75. | 3.3 | 67 |
| 8 | The longevity of Archean mantle residues in the convecting upper mantle and their role in young continent formation. Earth and Planetary Science Letters, 2015, 424, 109-118. | 4.4 | 64 |
| 9 | In search of late-stage planetary building blocks. Chemical Geology, 2015, 411, 125-142. | 3.3 | 61 |
| 10 | Plume-driven recratonization of deep continental lithospheric mantle. Nature, 2021, 592, 732-736. | 27.8 | 57 |
| 11 | Petrogenesis and tectonics of the Acasta Gneiss Complex derived from integrated petrology and 142Nd and 182W extinct nuclide-geochemistry. Earth and Planetary Science Letters, 2018, 494, 12-22. | 4.4 | 53 |
| 12 | Reassessment of Hydrofluoric Acid Desilicification in the Carius Tube Digestion Technique for Reâ€“Os Isotopic Determination in Geological Samples. Geostandards and Geoanalytical Research, 2015, 39, 17-30. | 3.1 | 52 |
| 13 | Widespread tungsten isotope anomalies and W mobility in crustal and mantle rocks of the Eoarchean Saglek Block, northern Labrador, Canada: Implications for early Earth processes and W recycling. Earth and Planetary Science Letters, 2016, 448, 13-23. | 4.4 | 51 |
| 14 | Continent stabilisation by lateral accretion of subduction zone-processed depleted mantle residues; insights from Zealandia. Earth and Planetary Science Letters, 2019, 507, 175-186. | 4.4 | 50 |
| 15 | Rapid, precise and accurate Os isotope ratio measurements of nanogram to sub-nanogram amounts using multiple Faraday collectors and amplifiers equipped with 1012 Î© resistors by N-TIMS. Chemical Geology, 2014, 363, 301-311. | 3.3 | 49 |
| 16 | Mantle depletion and metasomatism recorded in orthopyroxene in highly depleted peridotites. Chemical Geology, 2016, 441, 280-291. | 3.3 | 44 |
| 17 | The complex life cycle of oceanic lithosphere: A study of Yarlung-Zangbo ophiolitic peridotites, Tibet. Geochimica Et Cosmochimica Acta, 2020, 277, 175-191. | 3.9 | 41 |
| 18 | Diverse impactors in Apollo 15 and 16 impact melt rocks: Evidence from osmium isotopes and highly siderophile elements. Geochimica Et Cosmochimica Acta, 2015, 155, 122-153. | 3.9 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Diffusion-zoned pyroxenes in an isotopically heterogeneous mantle lithosphere beneath the Dunedin Volcanic Group, New Zealand, and their implications for intraplate alkaline magma sources. Lithosphere, 2017, 9, 463-475. | 1.4 | 30 |
| 20 | Characterization of the dominant impactor signature for Apollo 17 impact melt rocks. Geochimica Et Cosmochimica Acta, 2014, 131, 62-80. | 3.9 | 29 |
| 21 | Age and evolution of the deep continental root beneath the central Rae craton, northern Canada. Precambrian Research, 2016, 272, 168-184. | 2.7 | 29 |
| 22 | 2D Functional Minerals as Sustainable Materials for Magnetoâ€Optics. Advanced Materials, 2022, 34, e2110464. | 21.0 | 26 |
| 23 | Big insights from tiny peridotites: Evidence for persistence of Precambrian lithosphere beneath the eastern North China Craton. Tectonophysics, 2015, 650, 104-112. | 2.2 | 25 |
| 24 | Comparative Srâ€“Ndâ€“Hfâ€“Osâ€“Pb isotope systematics of xenolithic peridotites from Yangyuan, North China Craton: Additional evidence for a Paleoproterozoic age. Chemical Geology, 2012, 332-333, 1-14. | 3.3 | 22 |
| 25 | Rhenium-osmium isotopes and highly siderophile elements in ultramafic rocks from the Eoarchean Saglek Block, northern Labrador, Canada: implications for Archean mantle evolution. Geochimica Et Cosmochimica Acta, 2017, 216, 286-311. | 3.9 | 20 |
| 26 | Dating post-Archean lithospheric mantle: Insights from Re-Os and Lu-Hf isotopic systematics of the Cameroon Volcanic Line peridotites. Geochimica Et Cosmochimica Acta, 2020, 278, 177-198. | 3.9 | 19 |
| 27 | Sulfide in dunite channels reflects long-distance reactive migration of mid-ocean-ridge melts from mantle source to crust: A Re-Os isotopic perspective. Earth and Planetary Science Letters, 2020, 531, 115969. | 4.4 | 19 |
| 28 | A reconnaissance view of tungsten reservoirs in some crustal and mantle rocks: Implications for interpreting W isotopic compositions and crust-mantle W cycling. Geochimica Et Cosmochimica Acta, 2018, 223, 300-318. | 3.9 | 16 |
| 29 | Nickel isotopic evidence for late-stage accretion of Mercury-like differentiated planetary embryos. Nature Communications, 2021, 12, 294. | 12.8 | 16 |
| 30 | Lateral H2O variation in the Zealandia lithospheric mantle controls orogen width. Earth and Planetary Science Letters, 2018, 502, 200-209. | 4.4 | 15 |
| 31 | Oxidation of the deep big mantle wedge by recycled carbonates: Constraints from highly siderophile elements and osmium isotopes. Geochimica Et Cosmochimica Acta, 2021, 295, 207-223. | 3.9 | 15 |
| 32 | Contrasting fates of subducting carbon related to different oceanic slabs in East Asia. Geochimica Et Cosmochimica Acta, 2022, 324, 156-173. | 3.9 | 15 |
| 33 | Precise and accurate Reâ€“Os isotope dating of organic-rich sedimentary rocks by thermal ionization mass spectrometry with an improved H2O2-HNO3 digestion procedure. International Journal of Mass Spectrometry, 2017, 421, 263-270. | 1.5 | 14 |
| 34 | Diamondiferous Paleoproterozoic mantle roots beneath Arctic Canada: A study of mantle xenoliths from Parry Peninsula and Central Victoria Island. Geochimica Et Cosmochimica Acta, 2018, 239, 284-311. | 3.9 | 14 |
| 35 | The Metasomatized Mantle beneath the North Atlantic Craton: Insights from Peridotite Xenoliths of the Chidliak Kimberlite Province (NE Canada). Journal of Petrology, 2019, 60, 1991-2024. | 2.8 | 14 |
| 36 | GGR Biennial Critical Review: Analytical Developments Since 2014. Geostandards and Geoanalytical Research, 2017, 41, 493-562. | 3.1 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Age and composition of the subcontinental lithospheric mantle beneath the Xing'anâ€“Mongolia Orogenic Belt: Implications for the construction of microcontinents during accretionary orogenesis. Lithos, 2019, 326-327, 556-571. | 1.4 | 10 |
| 38 | Initiation of the North China Craton destruction: Constraints from the diamond-bearing alkaline basalts from Lan'gan, China. Gondwana Research, 2020, 80, 228-243. | 6.0 | 10 |
| 39 | Mantle composition, age and geotherm beneath the Darby kimberlite field, west central Rae Craton. Mineralogy and Petrology, 2018, 112, 57-70. | 1.1 | 9 |
| 40 | The evolution of the Kaapvaal craton: A multi-isotopic perspective from lithospheric peridotites from Finsch diamond mine. Precambrian Research, 2019, 331, 105380. | 2.7 | 9 |
| 41 | JULOC: A local 3-D high-resolution crustal model in South China for forecasting geoneutrino measurements at JUNO. Physics of the Earth and Planetary Interiors, 2020, 299, 106409. | 1.9 | 9 |
| 42 | Modification of Lithospheric Mantle by Melts/Fluids With Different Sulfur Fugacities During the Wilson Cycle: Insights From Lesvos and Global Ophiolitic Peridotites. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022445. | 3.4 | 9 |
| 43 | Linking deep CO2 outgassing to cratonic destruction. National Science Review, 2022, 9, . | 9.5 | 9 |
| 44 | Late Carboniferous to Early Permian ridge subduction identified in the southeastern Central Asian Orogenic Belt: Implications for the architecture and growth of continental crust in accretionary orogens. Lithos, 2021, 384-385, 105969. | 1.4 | 8 |
| 45 | Carbonated Big Mantle Wedge Extending to the NE Edge of the Stagnant Pacific Slab: Constraints from Late Mesozoic-Cenozoic Basalts from Far Eastern Russia. Journal of Earth Science (Wuhan, China), 2022, 33, 121-132. | 3.2 | 7 |
| 46 | Cratons, kimberlites and diamonds: selected papers of the 11th International Kimberlite Conference. Mineralogy and Petrology, 2018, 112, 1-3. | 1.1 | 6 |
| 47 | Osmium isotopes in peridotite xenoliths reveal major mid-Proterozoic lithosphere formation under the Transantarctic Mountains. Geochimica Et Cosmochimica Acta, 2021, 312, 25-43. | 3.9 | 6 |
| 48 | Architecture and evolution of the lithospheric roots beneath circum-cratonic orogenic beltsâ€“The Xing'an Mongolia Orogenic Belt and its relationship with adjacent North China and Siberian cratonic roots. Lithos, 2020, 376-377, 105798. | 1.4 | 3 |
| 49 | Age and provenance of the lithospheric mantle beneath the Chidliak kimberlite province, southern Baffin Island: Implications for the evolution of the North Atlantic Craton. Lithos, 2021, 390-391, 106124. | 1.4 | 3 |
| 50 | Early Permian magmatism above a slab window in Inner Mongolia, North China: Implications for the Paleo-Asian Ocean subduction processes and accretionary crustal growth. Solid Earth Sciences, 2022, 7, 87-103. | 1.7 | 3 |
| 51 | Corrigendum to â€œSulfide in dunite channels reflects long-distance reactive migration of mid-ocean-ridge melts from mantle source to crust: A Re-Os isotopic perspectiveâ€•[Earth Planet. Sci. Lett. 531 (2020) 115969]. Earth and Planetary Science Letters, 2020, 535, 116136. | 4.4 | 2 |
| 52 | The subantarctic lithospheric mantle. Geological Society Memoir, 2023, 56, 115-132. | 1.7 | 2 |
| 53 | High-precision tungsten isotopic measurement by negative thermal ionization mass spectrometry (NTIMS). Acta Petrologica Sinica, 2019, 35, 606-616. | 0.8 | 1 |
| 54 | New insights into the mantle source of a large igneous province from highly siderophile element and Sr-Nd-Os isotope compositions of carbonate-rich ultramafic lamprophyres. Geochimica Et Cosmochimica Acta, 2022, 326, 77-96. | 3.9 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Sulfide Aggregation in Ophiolitic Dunite Channels Explains Osâ€isotope Mismatch between Oceanic Crust and Mantle. Acta Geologica Sinica, 2020, 94, 66-66. | 1.4 | 0 |
| 56 | Permian Remelting and Maturity of Continental Crust Revealed by the Daqing Peraluminous Granitic Batholith, Inner Mongolia. Lithosphere, 2022, 2022, . | 1.4 | 0 |