

Zhu-Yin Chu

List of Publications by Year in descending order

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50
papers

2,042
citations

331670

21
h-index

233421

45
g-index

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all docs

50
docs citations

50
times ranked

1514
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined chemical separation of Lu, Hf, Rb, Sr, Sm and Nd from a single rock digest and precise and accurate isotope determinations of Lu ¹⁷⁶ Hf, Rb ⁸⁷ Sr and Sm ¹⁴⁷ Nd isotope systems using Multi-Collector ICP-MS and TIMS. <i>International Journal of Mass Spectrometry</i> , 2010, 290, 120-126.	1.5	355
2	Temporal Evolution of the Lithospheric Mantle beneath the Eastern North China Craton. <i>Journal of Petrology</i> , 2009, 50, 1857-1898.	2.8	237
3	Triassic Nb-enriched basalts, magnesian andesites, and adakites of the Qiangtang terrane (Central) Tj ETQq1 1 0.784314 rgBT /Overlo <i>Mineralogy and Petrology</i> , 2008, 155, 473-490.	3.1	185
4	Precise determination of Sm, Nd concentrations and Nd isotopic compositions at the nanogram level in geological samples by thermal ionization mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1534.	3.0	131
5	A rapid single column separation scheme for high-precision Sr ⁸⁷ Nd ¹⁴³ Pb isotopic analysis in geological samples using thermal ionization mass spectrometry. <i>Analytical Methods</i> , 2015, 7, 4793-4802.	2.7	98
6	Rapid separation scheme of Sr, Nd, Pb, and Hf from a single rock digest using a tandem chromatography column prior to isotope ratio measurements by mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1150-1159.	3.0	93
7	Precise and accurate determination of Sm, Nd concentrations and Nd isotopic compositions in geological samples by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1237.	3.0	91
8	Evaluation of Sr chemical purification technique for natural geological samples using common cation-exchange and Sr-specific extraction chromatographic resin prior to MC-ICP-MS or TIMS measurement. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 516.	3.0	76
9	Source of highly potassic basalts in northeast China: Evidence from Re ¹⁸⁷ Os, Sr ⁸⁷ Nd ¹⁴³ Hf isotopes and PGE geochemistry. <i>Chemical Geology</i> , 2013, 357, 52-66.	3.3	63
10	A practical method for determination of molybdenite Re-Os age by inductively coupled plasma-mass spectrometry combined with Carius tube-HNO ₃ digestion. <i>Analytical Methods</i> , 2010, 2, 575.	2.7	55
11	Geochemistry of ultrapotassic volcanic rocks in Xiaogulihe NE China: Implications for the role of ancient subducted sediments. <i>Lithos</i> , 2014, 208-209, 53-66.	1.4	52
12	A Comprehensive Method for Precise Determination of Re, Os, Ir, Ru, Pt, Pd Concentrations and Os Isotopic Compositions in Geological Samples. <i>Geostandards and Geoanalytical Research</i> , 2015, 39, 151-169.	3.1	50
13	Contrasting provenance of Late Archean metasedimentary rocks from the Wutai Complex, North China Craton: detrital zircon U ²³⁸ Pb, whole-rock Sm ¹⁴⁷ Nd isotopic, and geochemical data. <i>International Journal of Earth Sciences</i> , 2008, 97, 443-458.	1.8	36
14	Precise determination of radiogenic Sr and Nd isotopic ratios and Rb, Sr, Sm, Nd elemental concentrations in four coal ash and coal fly ash reference materials using isotope dilution thermal ionization mass spectrometry. <i>Microchemical Journal</i> , 2019, 146, 906-913.	4.5	36
15	Single-step separation scheme and high-precision isotopic ratios analysis of Sr ⁸⁷ Nd ¹⁴³ Hf in silicate materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1467-1476.	3.0	35
16	Skarn-type tungsten mineralization associated with the Caledonian (Silurian) Niutangjie granite, northern Guangxi, China. <i>Science China Earth Sciences</i> , 2014, 57, 1551-1566.	5.2	31
17	A study on the Dushiling tungsten-copper deposit in the Miao ¹⁴⁷ ershan-Yuechengling area, Northern Guangxi, China: Implications for variations in the mineralization of multi-aged composite granite plutons. <i>Science China Earth Sciences</i> , 2016, 59, 2121-2141.	5.2	29
18	Direct High-Precision Measurements of the ⁸⁷ Sr/ ⁸⁶ Sr Isotope Ratio in Natural Water without Chemical Separation Using Thermal Ionization Mass Spectrometry Equipped with 10 ¹² Ω Resistors. <i>Analytical Chemistry</i> , 2015, 87, 7426-7432.	6.5	27

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19	High-precision U-Pb geochronology of the Jurassic anliao Biotite from Jinchang (western Liaoning Province, China): Age constraints on the rise of feathered dinosaurs and eutherian mammals. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3983-3992.	2.5	24
20	Ce-Nd separation by solid-phase micro-extraction and its application to high-precision ¹⁴² Nd/ ¹⁴⁴ Nd measurements using TIMS in geological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 895-902.	3.0	23
21	Separation of Nd from geological samples by a single TODGA resin column for high precision Nd isotope analysis as NdO ⁺ by TIMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 2053-2060.	3.0	23
22	Precise Determination of Sm and Nd Concentrations and Nd Isotopic Compositions in Highly Depleted Ultramafic Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2014, 38, 61-72.	3.1	21
23	High-Precision Measurement of ¹⁸⁶ Os/ ¹⁸⁸ Os and ¹⁸⁷ Os/ ¹⁸⁸ Os: Isobaric Oxide Corrections with In-Run Measured Oxygen Isotope Ratios. <i>Analytical Chemistry</i> , 2015, 87, 8765-8771.	6.5	18
24	Precise measurement of Cr isotope ratios using a highly sensitive Nb ₂ O ₅ emitter by thermal ionization mass spectrometry and an improved procedure for separating Cr from geological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2375-2383.	3.0	18
25	Petrogenesis of Cenozoic basalts in central-eastern China: Constraints from Re-Os and PGE geochemistry. <i>Lithos</i> , 2017, 278-281, 72-83.	1.4	18
26	Calculation methods for direct internal mass fractionation correction of spiked isotopic ratios from multi-collector mass spectrometric measurements. <i>International Journal of Mass Spectrometry</i> , 2011, 299, 87-93.	1.5	16
27	Accurate and precise determination of Lu and Hf contents and Hf isotopic composition at the sub-nanogram level in geological samples using MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1256-1262.	3.0	16
28	Re-Os isotopic constraint to the age of iron komatiites in the Neoproterozoic Guyang greenstone belt, North China Craton. <i>Science Bulletin</i> , 2010, 55, 3197-3204.	1.7	15
29	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
30	Sr Isotope Analysis of Picogram-Level Samples by Thermal Ionization Mass Spectrometry Using a Highly Sensitive Silicotungstic Acid Emitter. <i>Analytical Chemistry</i> , 2019, 91, 7288-7294.	6.5	14
31	Constraints on the Ediacaran-Cambrian boundary in deep-water realm in South China: Evidence from zircon CA-ID-TIMS U-Pb ages from the topmost Liuchapo Formation. <i>Science China Earth Sciences</i> , 2020, 63, 1176-1187.	5.2	14
32	A method to estimate the pre-eruptive water content of basalts: Application to the Wudalianchi-Erkeshan-Keluo volcanic field, Northeastern China. <i>American Mineralogist</i> , 2020, 105, 149-161.	1.9	13
33	Evaluation of sample dissolution method for Sm-Nd isotopic analysis of scheelite. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 509.	3.0	12
34	Cenozoic Cooling History of Lincang Granitoid Batholith in Western Yunnan: Evidence from Fission Track Data. <i>Chinese Journal of Geophysics</i> , 2006, 49, 129-137.	0.2	10
35	Composition of the lithospheric mantle in the northern part of Siberian craton: Constraints from peridotites in the Obnazhennaya kimberlite. <i>Lithos</i> , 2017, 294-295, 383-396.	1.4	10
36	A low-blank two-column chromatography separation strategy based on a KMnO ₄ oxidizing reagent for Cr isotope determination in micro-silicate samples by thermal ionization mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1938-1945.	3.0	10

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37	Nd isotopic characteristics of Proterozoic metasedimentary rocks and constraints on their provenance in the eastern segment of Central Tianshan Belt, Xinjiang*. <i>Progress in Natural Science: Materials International</i> , 2003, 13, 908-913.	4.4	9
38	High-Precision $^{143}\text{Nd}/^{144}\text{Nd}$ Ratios from NdO^+ Data Corrected with in-Run Measured Oxygen Isotope Ratios. <i>Analytical Chemistry</i> , 2014, 86, 11141-11150.	6.5	8
39	Archeanâ€Paleoproterozoic Lithospheric Mantle at the Northern Margin of the North China Craton Represented by Tectonically Exhumed Peridotites. <i>Acta Geologica Sinica</i> , 2017, 91, 2041-2057.	1.4	8
40	Ancient Refertilization Process Preserved in the Plagioclase Peridotites: An Example From the Shuanggou Ophiolite, Southwest China. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017552.	3.4	7
41	Revisiting Rhenium-Osmium Isotopic Investigations of Petroleum Systems: From Geochemical Behaviours to Geological Interpretations. <i>Journal of Earth Science (Wuhan, China)</i> , 2021, 32, 1226-1249.	3.2	7
42	Determination of Lead Elemental Concentration and Isotopic Ratios in Coal Ash and Coal Fly Ash Reference Materials Using Isotope Dilution Thermal Ionization Mass Spectrometry. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4772.	2.6	6
43	Geochemistry and ^{206}Pb geochronology of $^{40}\text{Ar}/^{39}\text{Ar}$ bentonites from the Pingliang Formation of the Upper Ordovician in Gansu, North China, and their tectonic implications. <i>Geological Journal</i> , 2020, 55, 3522-3536.	1.3	5
44	A Chromatographic Method for Separation of Tungsten (W) from Silicate Samples for High-Precision Isotope Analysis Using Negative Thermal Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 11987-11993.	6.5	5
45	Analytical Methods for Os Isotope Ratios and Re-PGE Mass Fractions in Geological Samples. <i>Frontiers in Chemistry</i> , 2020, 8, 615839.	3.6	4
46	Determination of $^{87}\text{Rb}/^{86}\text{Sr}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ ratios and $^{87}\text{Rb}/^{87}\text{Sr}$ contents on the same filament loading for geological samples by isotope dilution thermal ionization mass spectrometry. <i>Talanta</i> , 2021, 233, 122537.	5.5	4
47	Chalcopyrite from the Xiaotongchang Cu Deposit: A New Sulfide Reference Material for Lowâ€Level $^{187}\text{Re}/^{187}\text{Os}$ Geochronology. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 321-332.	3.1	4
48	Determination of Re, Os, Ir, Ru, Pt, Pd Mass Fractions and $^{187}\text{Os}/^{188}\text{Os}$ Ratios of Organicâ€Rich Geological Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 333-349.	3.1	3
49	Geochemical and Sr-Nd isotopic study of alkaline syenites in Liangtun-Kuangdonggou, Liaoning Province, China: Evidence for enriched mantle before 1.86 Ga and implications. <i>Diqiu Huaxue</i> , 2005, 24, 232-242.	0.5	2
50	An Acid-Based Method for Highly Effective Baddeleyite Separation from Gram-Sized Mafic Rocks. <i>ACS Omega</i> , 2022, 7, 3634-3638.	3.5	0