

Lie-Wen Xie

List of Publications by Year in descending order

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76
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2931
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#	ARTICLE	IF	CITATIONS
1	Hf isotopic compositions of the standard zircons and baddeleyites used in U-Pb geochronology. <i>Chemical Geology</i> , 2006, 234, 105-126.	3.3	2,230
2	In situ simultaneous determination of trace elements, U-Pb and Lu-Hf isotopes in zircon and baddeleyite. <i>Science Bulletin</i> , 2008, 53, 1565-1573.	9.0	488
3	Tracing magma mixing in granite genesis: in situ U-Pb dating and Hf-isotope analysis of zircons. <i>Contributions To Mineralogy and Petrology</i> , 2006, 153, 177-190.	3.1	434
4	Combined chemical separation of Lu, Hf, Rb, Sr, Sm and Nd from a single rock digest and precise and accurate isotope determinations of Lu-Hf, Rb-Sr and Sm-Nd isotope systems using Multi-Collector ICP-MS and TIMS. <i>International Journal of Mass Spectrometry</i> , 2010, 290, 120-126.	1.5	355
5	Zircon U-Pb and Hf isotopic constraints on the Early Archean crustal evolution in Anshan of the North China Craton. <i>Precambrian Research</i> , 2008, 167, 339-362.	2.7	329
6	Sr and Nd isotopic compositions of apatite reference materials used in U-Th-Pb geochronology. <i>Chemical Geology</i> , 2014, 385, 35-55.	3.3	234
7	Metamorphic growth and recrystallization of zircon: Distinction by simultaneous in-situ analyses of trace elements, U-Th-Pb and Lu-Hf isotopes in zircons from eclogite-facies rocks in the Sulu orogen. <i>Lithos</i> , 2010, 114, 132-154.	1.4	229
8	Early Permian plutons from the northern North China Block: constraints on continental arc evolution and convergent margin magmatism related to the Central Asian Orogenic Belt. <i>International Journal of Earth Sciences</i> , 2009, 98, 1441-1467.	1.8	226
9	In situ perovskite Sr-Nd isotopic constraints on the petrogenesis of the Ordovician Mengyin kimberlites in the North China Craton. <i>Chemical Geology</i> , 2009, 264, 24-42.	3.3	214
10	Hf isotopic compositions of the standard zircons for U-Pb dating. <i>Science Bulletin</i> , 2004, 49, 1642-1648.	1.7	152
11	High-precision Mg isotope analyses of low-Mg rocks by MC-ICP-MS. <i>Chemical Geology</i> , 2014, 390, 9-21.	3.3	144
12	U-Pb and Hf isotopic study of detrital zircons from the Lianjiang khondalite, North China Craton, and their tectonic implications. <i>Geological Magazine</i> , 2009, 146, 701-716.	1.5	124
13	Non-KREEP origin for Chang'e-5 basalts in the Procellarum KREEP Terrane. <i>Nature</i> , 2021, 600, 59-63.	27.8	124
14	Mantle transition zone-derived EM1 component beneath NE China: Geochemical evidence from Cenozoic potassic basalts. <i>Earth and Planetary Science Letters</i> , 2017, 465, 16-28.	4.4	122
15	Palaeoproterozoic Khondalite Belt in the western North China Craton: New evidence from SHRIMP dating and Hf isotope composition of zircons from metamorphic rocks in the Bayan Ul-Helan Mountains area. <i>Science Bulletin</i> , 2007, 52, 2984-2994.	1.7	113
16	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
17	In situ Nd isotopic measurement of natural geological materials by LA-MC-ICPMS. <i>Science Bulletin</i> , 2008, 53, 1062-1070.	9.0	89
18	In situ U-Pb dating of titanite by LA-ICPMS. <i>Science Bulletin</i> , 2012, 57, 2506-2516.	1.7	81

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19	Magnesium isotopic variation of oceanic island basalts generated by partial melting and crustal recycling. <i>Earth and Planetary Science Letters</i> , 2017, 463, 127-135.	4.4	79
20	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
21	Recycled ancient ghost carbonate in the Pitcairn mantle plume. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8682-8687.	7.1	73
22	SAO1 – A Proposed Zircon Reference Material for Microbeam U–Pb Age and Hf–O Isotopic Determination. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 103-123.	3.1	69
23	South China provenance of the lower-grade Penglai Group north of the Sulu UHP orogenic belt, eastern China: Evidence from detrital zircon ages and Nd-Hf isotopic composition. <i>Geochemical Journal</i> , 2007, 41, 29-45.	1.0	62
24	Using Mg isotope ratios to trace Cenozoic weathering changes: A case study from the Chinese Loess Plateau. <i>Chemical Geology</i> , 2014, 376, 31-43.	3.3	62
25	U–Pb age determination of schorlomite garnet by laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 231-239.	3.0	44
26	High-Precision Measurements of the $^{143}\text{Nd}/^{144}\text{Nd}$ Isotope Ratio in Certified Reference Materials without Nd and Sm Separation by Multiple Collector Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Letters</i> , 2009, 43, 142-150.	1.8	42
27	PbSL dating of garnet and staurolite: Constraints on the Paleoproterozoic crustal evolution of the Eastern Block, North China Craton. <i>Journal of Asian Earth Sciences</i> , 2011, 42, 142-154.	2.3	41
28	In situ U–Pb dating of bastnaesite by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1017-1023.	3.0	41
29	Accurate and precise <i>in situ</i> U–Pb isotope dating of wolframite series minerals <i>via</i> LA-SF-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2191-2203.	3.0	37
30	Improved in situ zircon U–Pb dating at high spatial resolution (5–16 μm) by laser ablation–single collector–sector field–ICP–MS using Jet sample and X skimmer cones. <i>International Journal of Mass Spectrometry</i> , 2020, 456, 116394.	1.5	33
31	In Situ U–Th–Pb Dating and Sr–Nd Isotope Analysis of Bastnaesite by LA–(MC)–ICP–MS. <i>Geostandards and Geoanalytical Research</i> , 2019, 43, 543-565.	3.1	32
32	Isotopic Compositions (Li – B – Si – O – Mg – Sr – Nd – Hf – Pb) and Fe^{2+}/Fe Ratios of Three Synthetic Andesite Glass Reference Materials (ARM–1, ARM–2, ARM–3). <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 719-745.	3.1	32
33	Geochemistry of Middle Triassic gabbros from northern Liaoning, North China: origin and tectonic implications. <i>Geological Magazine</i> , 2009, 146, 540-551.	1.5	31
34	A trio of laser ablation in concert with two ICP–MSs: Simultaneous, pulse–by–pulse determination of U–Pb discordant ages and a single spot Hf isotope ratio analysis in complex zircons from petrographic thin sections. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	28
35	Magnesium isotopic fractionation during basalt differentiation as recorded by evolved magmas. <i>Earth and Planetary Science Letters</i> , 2021, 565, 116954.	4.4	28
36	Separation of magnesium from meteorites and terrestrial silicate rocks for high-precision isotopic analysis using multiple collector-inductively coupled plasma-mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1878.	3.0	25

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37	High spatial resolution in situ U–Pb dating using laser ablation multiple ion counting inductively coupled plasma mass spectrometry (LA-MIC-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 975-986.	3.0	24
38	High precision analysis of Mg isotopic composition in olivine by laser ablation MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1773.	3.0	23
39	Pyrite Rb-Sr, Sm-Nd and Fe isotopic constraints on the age and genesis of the Qingchengzi Pb-Zn deposits, northeastern China. <i>Ore Geology Reviews</i> , 2020, 117, 103324.	2.7	22
40	Nephelinites in eastern China originating from the mantle transition zone. <i>Chemical Geology</i> , 2021, 576, 120276.	3.3	22
41	In situ simultaneous measurement of Rb–Sr/Sm–Nd or Sm–Nd/Lu–Hf isotopes in natural minerals using laser ablation multi-collector ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 994-1000.	3.0	19
42	Light Mg Isotopic Composition in the Mantle Beyond the Big Mantle Wedge Beneath eastern Asia. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8043-8056.	3.4	19
43	Magnesium and oxygen isotopes in Roberts Victor eclogites. <i>Chemical Geology</i> , 2016, 438, 73-83.	3.3	18
44	Hf isotopes of zircon megacrysts from the Cenozoic basalts in eastern China. <i>Science Bulletin</i> , 2005, 50, 2602-2611.	1.7	17
45	A novel sample cell for reducing the Position Effect in laser ablation MC-ICP-MS isotopic measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1571-1578.	3.0	16
46	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
47	U-Pb isotopic dating of cassiterite: Development of reference materials and in situ applications by LA-SF-ICP-MS. <i>Chemical Geology</i> , 2022, 593, 120754.	3.3	16
48	High-precision simultaneous determination of $^{147}\text{Sm}/^{144}\text{Nd}$ and $^{143}\text{Nd}/^{144}\text{Nd}$ ratios in Sm–Nd mixtures using multi-collector inductively coupled plasma mass spectrometry and its comparison to isotope dilution analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 79-80, 82-87.	2.9	15
49	In situ calcite U–Pb geochronology by high-sensitivity single-collector LA-SF-ICP-MS. <i>Science China Earth Sciences</i> , 2022, 65, 1146-1160.	5.2	15
50	An Improved Procedure for the Determination of Ferrous Iron Mass Fraction in Silicate Rocks Using a Schlenk Line-Based Digestion Apparatus to Exclude Oxygen. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 411-425.	3.1	14
51	Evidence for rutile-bearing eclogite in the mantle sources of the Cenozoic Zhejiang basalts, eastern China. <i>Lithos</i> , 2019, 324-325, 152-164.	1.4	14
52	Further characterization of SA01 and SA02 zircon reference materials for Si and Zr isotopic compositions via femtosecond laser ablation MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2192-2201.	3.0	14
53	U–Th–Pb geochronology and simultaneous analysis of multiple isotope systems in geological samples by LA-MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1600-1615.	3.0	13
54	Natural Clinopyroxene Reference Materials for in situ Sr Isotopic Analysis via LA-MC-ICP-MS. <i>Frontiers in Chemistry</i> , 2020, 8, 594316.	3.6	12

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55	KV01 zircon—A potential New Archean reference material for microbeam U-Pb age and Hf-O isotope determinations. <i>Science China Earth Sciences</i> , 2020, 63, 1780-1790.	5.2	12
56	Characterization of the potential reference material SA02 for micro-beam U—Pb geochronology and Hf—O isotopic composition analysis of zircon. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 368-374.	3.0	12
57	In situ determination of hafnium isotopes from rutile using LA-MC-ICP-MS. <i>Science China Earth Sciences</i> , 2015, 58, 2134-2144.	5.2	11
58	Evaluation of plasma condition, concentration effect, position effect, and nickel-doping method on non-matrix-matched Fe isotopic analysis by femtosecond laser ablation multi-collector inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 189, 106374.	2.9	11
59	Grove Mountains 020090 enriched Iherzolitic shergottite: A two-stage formation model. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1572-1589.	1.6	9
60	High-Precision Sr—Nd—Hf—Pb Isotopic Composition of Chinese Geological Standard Glass Reference Materials CGSGâ€1, CGSGâ€2, CGSGâ€4 and CGSGâ€5 by MC—ICP—MS and TIMS. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 567-579.		9
61	Sub-basin scale inhomogeneity of mantle in the South China Sea revealed by magnesium isotopes. <i>Science Bulletin</i> , 2021, 66, 740-748.	9.0	9
62	Natural Allanite Reference Materials for <i>In Situ</i> U—Th—Pb and Sm—Nd Isotopic Measurements by LA—(MC)—ICP—MS. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 169-203.	3.1	9
63	A natural plagioclase reference material for microbeam Sr isotopic analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1706-1714.	3.0	8
64	Analytical feasibility of a new reference material (IRMM-524A Fe metal) for the <i>in situ</i> Fe isotopic analysis of pyrite and ilmenite without matrix effects by femtosecond LA-MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1835-1845.	3.0	8
65	<i>In situ</i> U—Pb geochronology of vesuvianite by LA-SF-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 69-81.	3.0	7
66	Precise and Accurate Determination of Lu and Hf Contents, and Hf Isotopic Compositions in Chinese Rock Reference Materials by MC—ICP—MS. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 553-565.	3.1	6
67	Accurate measurement of neodymium isotopic composition using Neptune MC-ICP-MS. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2008, 3, 94-98.	0.4	5
68	Geochemical evidence for the characteristic of the 1908 Tunguska explosion body in Siberia, Russia. <i>Science in China Series D: Earth Sciences</i> , 2001, 44, 1029-1037.	0.9	3
69	Extreme iron isotope variation of pyrite in the Muping gold deposit, Jiaodong: Implication for tracing metal origin. <i>Ore Geology Reviews</i> , 2021, 139, 104431.	2.7	3
70	Iron and sulfur isotope fractionation during pyrite dissolution-precipitation revealed by in-situ isotopic analyses in the Muping gold deposit (Jiaodong, China). <i>Journal of Asian Earth Sciences</i> , 2022, 230, 105217.	2.3	3
71	Zircon Hf isotope composition of metamorphic eclogite from Xindian, Dabie Terrain. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 1013-1020.	0.9	2
72	Thermal structure of the Dabie eclogite-bearing terrane revealed from the results of Ti-in-zircon thermometry. <i>Geological Society Special Publication</i> , 2019, 474, 309-330.	1.3	2

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73	<i>In situ</i> sequential U ²³⁵ /Pb age and Sm ¹⁴⁷ /Nd systematics measurements of natural LREE-enriched minerals using single laser ablation multi-collector inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 510-517.	3.0	2
74	Early sulfur-rich magmatism on the ungrouped achondrite Northwest Africa 7325 differentiated parent body. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1951-1978.	1.6	2
75	Further Characterization of the BB Zircon via SIMS and MC-ICP-MS for Li, O, and Hf Isotopic Compositions. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 774.	2.0	1
76	In-run measuring ¹⁷⁷ Hf/ ¹⁶⁰ O/ ¹⁷⁷ Hf as a routine technique for in-situ Hf isotopic compositions analysis in zirconium-bearing minerals by laser ablation MC-ICP-MS. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 194, 106486.	2.9	1