

Shan Gao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11777303/publications.pdf>

Version: 2024-02-01

185
papers

27,849
citations

9264

74
h-index

5394

164
g-index

186
all docs

186
docs citations

186
times ranked

7680
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ analysis of major and trace elements of anhydrous minerals by LA-ICP-MS without applying an internal standard. <i>Chemical Geology</i> , 2008, 257, 34-43.	3.3	3,342
2	Recycling lower continental crust in the North China craton. <i>Nature</i> , 2004, 432, 892-897.	27.8	1,523
3	Reappraisal and refinement of zircon U-Pb isotope and trace element analyses by LA-ICP-MS. <i>Science Bulletin</i> , 2010, 55, 1535-1546.	1.7	1,347
4	Accurate U-Pb Age and Trace Element Determinations of Zircon by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 353-370.	1.9	1,191
5	Improved in situ Hf isotope ratio analysis of zircon using newly designed X skimmer cone and jet sample cone in combination with the addition of nitrogen by laser ablation multiple collector ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1391.	3.0	857
6	Simultaneous determinations of U-Pb age, Hf isotopes and trace element compositions of zircon by excimer laser-ablation quadrupole and multiple-collector ICP-MS. <i>Chemical Geology</i> , 2008, 247, 100-118.	3.3	829
7	Chemical composition of the continental crust as revealed by studies in East China. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1959-1975.	3.9	813
8	Re-Os evidence for replacement of ancient mantle lithosphere beneath the North China craton. <i>Earth and Planetary Science Letters</i> , 2002, 198, 307-322.	4.4	802
9	First evidence of >3.2 Ga continental crust in the Yangtze craton of south China and its implications for Archean crustal evolution and Phanerozoic tectonics. <i>Geology</i> , 2000, 28, 11.	4.4	707
10	Contrasting geochemical and Sm-Nd isotopic compositions of Archean metasediments from the Kongling high-grade terrain of the Yangtze craton: evidence for cratonic evolution and redistribution of REE during crustal anatexis. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2071-2088.	3.9	585
11	Petrology and geochemistry of spinel peridotite xenoliths from Hannuoba and Qixia, North China craton. <i>Lithos</i> , 2004, 77, 609-637.	1.4	505
12	Geochemistry and magmatic history of eclogites and ultramafic rocks from the Chinese continental scientific drill hole: Subduction and ultrahigh-pressure metamorphism of lower crustal cumulates. <i>Chemical Geology</i> , 2008, 247, 133-153.	3.3	504
13	Signal enhancement in laser ablation ICP-MS by addition of nitrogen in the central channel gas. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1093.	3.0	494
14	Upper crustal abundances of trace elements: A revision and update. <i>Chemical Geology</i> , 2008, 253, 205-221.	3.3	482
15	Determination of Forty Two Major and Trace Elements in USGS and NIST SRM Glasses by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2002, 26, 181-196.	3.1	454
16	Geochronology of the Mesozoic volcanic rocks in the Great Xing'an Range, northeastern China: Implications for subduction-induced delamination. <i>Chemical Geology</i> , 2010, 276, 144-165.	3.3	419
17	Wavelet-Signal-Smoothing and Mercury-Removing Device for Laser Ablation Quadrupole and Multiple Collector ICPMS Analysis: Application to Lead Isotope Analysis. <i>Analytical Chemistry</i> , 2015, 87, 1152-1157.	6.5	415
18	Recycling deep cratonic lithosphere and generation of intraplate magmatism in the North China Craton. <i>Earth and Planetary Science Letters</i> , 2008, 270, 41-53.	4.4	412

#	ARTICLE	IF	CITATIONS
19	Zircon U-Pb age and Hf-O isotope evidence for Paleoproterozoic metamorphic event in South China. <i>Precambrian Research</i> , 2006, 151, 265-288.	2.7	359
20	Zircon isotope evidence for ~3.5Ga continental crust in the Yangtze craton of China. <i>Precambrian Research</i> , 2006, 146, 16-34.	2.7	348
21	Zircon U-Pb age and Hf isotope evidence for 3.8Ga crustal remnant and episodic reworking of Archean crust in South China. <i>Earth and Planetary Science Letters</i> , 2006, 252, 56-71.	4.4	345
22	Constraints on timing of peak and retrograde metamorphism in the Dabie Shan Ultrahigh-Pressure Metamorphic Belt, east-central China, using U-Th-Pb dating of zircon and monazite. <i>Chemical Geology</i> , 2002, 186, 315-331.	3.3	256
23	How mafic is the lower continental crust?. <i>Earth and Planetary Science Letters</i> , 1998, 161, 101-117.	4.4	247
24	3.45 Ga granitic gneisses from the Yangtze Craton, South China: Implications for Early Archean crustal growth. <i>Precambrian Research</i> , 2014, 242, 82-95.	2.7	245
25	Zircon U-Pb age and trace element evidence for Paleoproterozoic granulite-facies metamorphism and Archean crustal rocks in the Dabie Orogen. <i>Lithos</i> , 2008, 101, 308-322.	1.4	240
26	U-Pb zircon ages and Nd, Sr, and Pb isotopes of lower crustal xenoliths from North China Craton: insights on evolution of lower continental crust. <i>Chemical Geology</i> , 2004, 211, 87-109.	3.3	228
27	Recycled crust controls contrasting source compositions of Mesozoic and Cenozoic basalts in the North China Craton. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2349-2376.	3.9	223
28	Heterogeneous magnesium isotopic composition of the upper continental crust. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6867-6884.	3.9	210
29	Simultaneous in-situ determination of U-Pb age and trace elements in zircon by LA-ICP-MS in 20 µm spot size. <i>Science Bulletin</i> , 2007, 52, 1257-1264.	1.7	209
30	Interaction of adakitic melt-peridotite: Implications for the high-Mg# signature of Mesozoic adakitic rocks in the eastern North China Craton. <i>Earth and Planetary Science Letters</i> , 2008, 265, 123-137.	4.4	207
31	Geochemical and Sr-Nd-Pb isotopic compositions of Cretaceous granitoids: constraints on tectonic framework and crustal structure of the Dabieshan ultrahigh-pressure metamorphic belt, China. <i>Chemical Geology</i> , 2002, 186, 281-299.	3.3	205
32	A wire-signal smoothing device for laser ablation inductively coupled plasma mass spectrometry analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 78, 50-57.	2.9	205
33	A-type granite and adakitic magmatism association in Songpan-Garze fold belt, eastern Tibetan Plateau: Implication for lithospheric delamination. <i>Lithos</i> , 2007, 97, 323-335.	1.4	189
34	Mesozoic crustal thickening of the eastern North China craton: Evidence from eclogite xenoliths and petrologic implications. <i>Geology</i> , 2006, 34, 721.	4.4	186
35	Geochemistry and zircon U-Pb geochronology of Paleoproterozoic arc related granitoid in the Northwestern Yangtze Block and its geological implications. <i>Precambrian Research</i> , 2012, 200-203, 26-37.	2.7	179
36	Geochemistry of lower crustal xenoliths from Neogene Hannuoba basalt, North China craton: implications for petrogenesis and lower crustal composition. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2589-2604.	3.9	173

#	ARTICLE	IF	CITATIONS
37	Episodic crustal growth of North China as revealed by U–Pb age and Hf isotopes of detrital zircons from modern rivers. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2660-2673.	3.9	169
38	Diffusion-driven magnesium and iron isotope fractionation in Hawaiian olivine. <i>Earth and Planetary Science Letters</i> , 2011, 308, 317-324.	4.4	169
39	Geochemistry, zircon U–Pb age and Hf isotope compositions of Paleoproterozoic aluminous A-type granites from the Kongling terrain, Yangtze Block: Constraints on petrogenesis and geologic implications. <i>Gondwana Research</i> , 2012, 22, 140-151.	6.0	169
40	2.6–2.7 Ga crustal growth in Yangtze craton, South China. <i>Precambrian Research</i> , 2013, 224, 472-490.	2.7	162
41	Changes in marine productivity and redox conditions during the Late Ordovician Hirnantian glaciation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 420, 223-234.	2.3	157
42	Age and nature of eclogites in the Huwan shear zone, and the multi-stage evolution of the Qinling-Dabie-Sulu orogen, central China. <i>Earth and Planetary Science Letters</i> , 2009, 277, 345-354.	4.4	146
43	Petrogenesis of Neoproterozoic TTG rocks in the Yangtze Craton and its implication for the formation of Archean TTGs. <i>Precambrian Research</i> , 2014, 254, 73-86.	2.7	141
44	Geochemical, age, and isotopic constraints on the location of the Sino–Korean/Yangtze Suture and evolution of the Northern Dabie Complex, east central China. <i>Bulletin of the Geological Society of America</i> , 2004, 116, 698.	3.3	139
45	Accurate determinations of fifty-four major and trace elements in carbonate by LA–ICP-MS using normalization strategy of bulk components as 100%. <i>Chemical Geology</i> , 2011, 284, 283-295.	3.3	138
46	Volatile organic solvent-induced signal enhancements in inductively coupled plasma-mass spectrometry: a case study of methanol and acetone. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1463-1470.	2.9	131
47	Petrophysical studies on rocks from the Dabie ultrahigh-pressure (UHP) metamorphic belt, Central China: implications for the composition and delamination of the lower crust. <i>Tectonophysics</i> , 1999, 301, 191-215.	2.2	127
48	U–Pb zircon age, geochemical and Sr–Nd–Pb–Hf isotopic constraints on age and origin of alkaline intrusions and associated mafic dikes from Sulu orogenic belt, Eastern China. <i>Lithos</i> , 2008, 106, 365-379.	1.4	127
49	Delamination and destruction of the North China Craton. <i>Science Bulletin</i> , 2009, 54, 3367-3378.	9.0	126
50	In situ sulfur isotopes ($\delta^{34}\text{S}$ and $\delta^{33}\text{S}$) analyses in sulfides and elemental sulfur using high sensitivity cones combined with the addition of nitrogen by laser ablation MC-ICP-MS. <i>Analytica Chimica Acta</i> , 2016, 911, 14-26.	5.4	126
51	Episodic Paleoproterozoic–Paleoproterozoic (3.3–2.0 Ga) granitoid magmatism in Yangtze Craton, South China: Implications for late Archean tectonics. <i>Precambrian Research</i> , 2015, 270, 246-266.	2.7	125
52	Silurian-Devonian provenance changes of South Qinling basins: implications for accretion of the Yangtze (South China) to the North China cratons. <i>Tectonophysics</i> , 1995, 250, 183-197.	2.2	123
53	Contrasting matrix induced elemental fractionation in NIST SRM and rock glasses during laser ablation ICP-MS analysis at high spatial resolution. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 425-430.	3.0	123
54	Mapping lithospheric boundaries using Os isotopes of mantle xenoliths: An example from the North China Craton. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3881-3902.	3.9	118

#	ARTICLE	IF	CITATIONS
55	Petrogenesis of Late Mesozoic mafic dykes in the Jiaodong Peninsula, eastern North China Craton and implications for the foundering of lower crust. <i>Lithos</i> , 2009, 113, 621-639.	1.4	117
56	Zircon U–Pb and trace element data from rocks of the Huaiyan Complex: New insights into the late Paleoproterozoic collision between the Eastern and Western Blocks of the North China Craton. <i>Precambrian Research</i> , 2010, 178, 59-71.	2.7	112
57	Destruction of the North China Craton: Delamination or thermal/chemical erosion? Mineral chemistry and oxygen isotope insights from websterite xenoliths. <i>Gondwana Research</i> , 2013, 23, 119-129.	6.0	112
58	A local aerosol extraction strategy for the determination of the aerosol composition in laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1192.	3.0	111
59	Zircon U–Pb geochronology and major, trace elemental and Sr–Nd–Pb isotopic geochemistry of mafic dykes in western Shandong Province, east China: Constrains on their petrogenesis and geodynamic significance. <i>Chemical Geology</i> , 2008, 255, 329-345.	3.3	109
60	Rare-earth element patterns in conodont albid crowns: Evidence for massive inputs of volcanic ash during the latest Permian biocrisis?. <i>Global and Planetary Change</i> , 2013, 105, 135-151.	3.5	107
61	Zircon U–Pb age and Sr–Nd–Hf isotope geochemistry of Permian granodiorite and associated gabbro in the Songliao Block, NE China and implications for growth of juvenile crust. <i>Lithos</i> , 2010, 114, 423-436.	1.4	101
62	Continental origin of eclogites in the North Qinling terrane and its tectonic implications. <i>Precambrian Research</i> , 2013, 230, 13-30.	2.7	101
63	Accurate Determination of Sr Isotopic Compositions in Clinopyroxene and Silicate Glasses by LA-ICP-MS . <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 85-99.	3.1	100
64	Lithium isotopic composition and concentration of the deep continental crust. <i>Chemical Geology</i> , 2008, 255, 47-59.	3.3	98
65	Compositional evolution of the upper continental crust through time, as constrained by ancient glacial diamictites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 186, 316-343.	3.9	98
66	Timing of UHP metamorphism in the Hong'an area, western Dabie Mountains, China: evidence from zircon U–Pb age, trace element and Hf isotope composition. <i>Contributions To Mineralogy and Petrology</i> , 2007, 155, 123-133.	3.1	95
67	Pb isotopes of granitoids suggest Devonian accretion of Yangtze (South China) craton to North China craton. <i>Geology</i> , 1997, 25, 1015.	4.4	91
68	Zircon U–Pb age, geochemistry and Sr–Nd–Pb isotopic compositions of adakitic volcanic rocks from Jiaodong, Shandong Province, Eastern China: Constraints on petrogenesis and implications. <i>Journal of Asian Earth Sciences</i> , 2009, 35, 445-458.	2.3	88
69	Geochemistry of peridotite xenoliths in Early Cretaceous high-Mg# diorites from the Central Orogenic Block of the North China Craton: The nature of Mesozoic lithospheric mantle and constraints on lithospheric thinning. <i>Chemical Geology</i> , 2010, 270, 257-273.	3.3	87
70	The 2.65 Ga A-type granite in the northeastern Yangtze craton: Petrogenesis and geological implications. <i>Precambrian Research</i> , 2015, 258, 247-259.	2.7	87
71	Melting-induced fluid flow during exhumation of gneisses of the Sulu ultrahigh-pressure terrane. <i>Lithos</i> , 2010, 120, 490-510.	1.4	85
72	In situ U–Pb dating and trace element analysis of zircons in thin sections of eclogite: Refining constraints on the ultra high-pressure metamorphism of the Sulu terrane, China. <i>Chemical Geology</i> , 2010, 269, 237-251.	3.3	84

#	ARTICLE	IF	CITATIONS
73	Applications of LA-ICP-MS in the elemental analyses of geological samples. <i>Science Bulletin</i> , 2013, 58, 3863-3878.	1.7	81
74	U-Pb age, trace-element, and Hf-isotope compositions of zircon in a quartz vein from eclogite in the western Dabie Mountains: Constraints on fluid flow during early exhumation of ultrahigh-pressure rocks. <i>American Mineralogist</i> , 2009, 94, 303-312.	1.9	78
75	Total Rock Dissolution Using Ammonium Bifluoride (NH ₄ HF ₂) in Screw-Top Teflon Vials: A New Development in Open-Vessel Digestion. <i>Analytical Chemistry</i> , 2012, 84, 10686-10693.	6.5	77
76	Geochronological and geochemical constraints on the petrogenesis of alkaline ultramafic dykes from southwest Guizhou Province, SW China. <i>Lithos</i> , 2010, 114, 253-264.	1.4	75
77	Processes controlling highly siderophile element fractionations in xenolithic peridotites and their influence on Os isotopes. <i>Earth and Planetary Science Letters</i> , 2010, 297, 287-297.	4.4	75
78	Platinum group element abundances in the upper continental crust revisited – New constraints from analyses of Chinese loess. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 93, 63-76.	3.9	73
79	Physical properties of ultrahigh-pressure metamorphic rocks from the Sulu terrain, eastern central China: implications for the seismic structure at the Donghai (CCSD) drilling site. <i>Tectonophysics</i> , 2002, 354, 315-330.	2.2	72
80	Seismic properties and densities of middle and lower crustal rocks exposed along the North China Geoscience Transect. <i>Earth and Planetary Science Letters</i> , 1996, 139, 439-455.	4.4	69
81	In situ Nd isotope analyses in geological materials with signal enhancement and non-linear mass dependent fractionation reduction using laser ablation MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 232-244.	3.0	69
82	Deep subduction of continental crust in accretionary orogen: Evidence from U–Pb dating on diamond-bearing zircons from the Qinling orogen, central China. <i>Lithos</i> , 2014, 190-191, 420-429.	1.4	68
83	Age and geochemistry of Silurian gabbroic rocks in the Tongbai orogen, central China: Implications for the geodynamic evolution of the North Qinling arc–back-arc system. <i>Lithos</i> , 2013, 179, 1-15.	1.4	64
84	Genesis of adakitic granitoids by partial melting of thickened lower crust and its implications for early crustal growth: A case study from the Huichizi pluton, Qinling orogen, central China. <i>Lithos</i> , 2015, 238, 1-12.	1.4	64
85	Geochemistry of eclogite xenoliths in Mesozoic adakitic rocks from Xuzhou-Suzhou area in central China and their tectonic implications. <i>Lithos</i> , 2009, 107, 269-280.	1.4	63
86	Accurate determination of lithium isotope ratios by MC-ICP-MS without strict matrix-matching by using a novel washing method. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 390-397.	3.0	63
87	In-situ trace elements and Li and Sr isotopes in peridotite xenoliths from Kuandian, North China Craton: Insights into Pacific slab subduction-related mantle modification. <i>Chemical Geology</i> , 2013, 354, 107-123.	3.3	62
88	Recycling of sediment into the mantle source of K-rich mafic rocks: Sr–Nd–Hf–O isotopic evidence from the Fushui complex in the Qinling orogen. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	62
89	Platinum-group element abundances and Re–Os isotopic systematics of the upper continental crust through time: Evidence from glacial diamictites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 191, 1-16.	3.9	61
90	Silurian granulite-facies metamorphism, and coeval magmatism and crustal growth in the Tongbai orogen, central China. <i>Lithos</i> , 2011, 125, 249-271.	1.4	60

#	ARTICLE	IF	CITATIONS
91	Single zircon U-Pb dating of the Kongling high-grade metamorphic terrain: Evidence for >3.2 Ga old continental crust in the Yangtze craton. <i>Science in China Series D: Earth Sciences</i> , 2001, 44, 326-335.	0.9	59
92	Onset of oxidative weathering of continents recorded in the geochemistry of ancient glacial diamictites. <i>Earth and Planetary Science Letters</i> , 2014, 408, 87-99.	4.4	59
93	First direct evidence of sedimentary carbonate recycling in subduction-related xenoliths. <i>Scientific Reports</i> , 2015, 5, 11547.	3.3	57
94	Calcium Isotopic Compositions of Sixteen <sc>USGS</sc> Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 93-106.	3.1	55
95	Mesozoicâ€Cenozoic mantle evolution beneath the North China Craton: A new perspective from Hfâ€Nd isotopes of basalts. <i>Gondwana Research</i> , 2015, 27, 1574-1585.	6.0	54
96	The recognizing of ca. 1.95 Ga tectono-thermal event in Kongling nucleus and its significance for the evolution of Yangtze Block, South China. <i>Science Bulletin</i> , 2001, 46, 326-329.	1.7	52
97	Record of multiple stage channelized fluid and melt activities in deeply subducted slab from zircon Uâ€Pb age and Hfâ€O isotope compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 144, 1-24.	3.9	51
98	Continental growth through accreted oceanic arc: Zircon Hfâ€O isotope evidence for granitoids from the Qinling orogen. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 182, 109-130.	3.9	51
99	Eclogite-melt/peridotite reaction: Experimental constrains on the destruction mechanism of the North China Craton. <i>Science China Earth Sciences</i> , 2010, 53, 797-809.	5.2	50
100	Reâ€Os evidence for the age and origin of peridotites from the Dabieâ€Sulu ultrahigh pressure metamorphic belt, China. <i>Chemical Geology</i> , 2007, 236, 323-338.	3.3	49
101	Measured and calculated seismic velocities and densities for granulites from xenolith occurrences and adjacent exposed lower crustal sections: A comparative study from the North China craton. <i>Journal of Geophysical Research</i> , 2000, 105, 18965-18976.	3.3	48
102	Geochronology, geochemistry, and isotope compositions of Piaoichi S-type granitic intrusion in the Qinling orogen, central China: Petrogenesis and tectonic significance. <i>Lithos</i> , 2014, 202-203, 347-362.	1.4	47
103	Suppression of interferences for direct determination of arsenic in geological samples by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1263.	3.0	46
104	NH4F assisted high pressure digestion of geological samples for multi-element analysis by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 408.	3.0	44
105	The uncertainty budget of the multi-element analysis of glasses using LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 122-130.	3.0	43
106	Magnesium isotopic composition of the deep continental crust. <i>American Mineralogist</i> , 2016, 101, 243-252.	1.9	42
107	Reassessment of HF/HNO3 Decomposition Capability in the High-Pressure Digestion of Felsic Rocks for Multi-Element Determination by ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2012, 36, 271-289.	3.1	41
108	Rapid bulk rock decomposition by ammonium fluoride (NH4F) in open vessels at an elevated digestion temperature. <i>Chemical Geology</i> , 2013, 355, 144-152.	3.3	41

#	ARTICLE	IF	CITATIONS
109	Pyroxenite and peridotite xenoliths from Hexigten, Inner Mongolia: Insights into the Paleo-Asian Ocean subduction-related melt/fluid–peridotite interaction. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 435-454.	3.9	40
110	Determination of boron isotope compositions of geological materials by laser ablation MC-ICP-MS using newly designed high sensitivity skimmer and sample cones. <i>Chemical Geology</i> , 2014, 386, 22-30.	3.3	39
111	Structure and composition of the continental crust in East China. <i>Science in China Series D: Earth Sciences</i> , 1999, 42, 129-140.	0.9	37
112	Widespread Neoproterozoic (~ 2.7–2.6 Ga) magmatism of the Yangtze craton, South China, as revealed by modern river detrital zircons. <i>Gondwana Research</i> , 2017, 42, 1-12.	6.0	36
113	Trace element and Sr isotope records of multi-episode carbonatite metasomatism on the eastern margin of the North China Craton. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 220-237.	2.5	35
114	Average chemical compositions of post-Archean sedimentary and volcanic rocks from the Qinling Orogenic Belt and its adjacent North China and Yangtze Cratons. <i>Chemical Geology</i> , 1991, 92, 261-282.	3.3	34
115	Sensitivity improvement in laser ablation inductively coupled plasma mass spectrometry achieved using a methane/argon and methanol/water/argon mixed gas plasma. <i>Analyst</i> , 2011, 136, 4925.	3.5	34
116	Poissot's ratio of eclogite: the role of retrogression. <i>Earth and Planetary Science Letters</i> , 2001, 192, 523-531.	4.4	32
117	Results for Rarely Determined Elements in MPI-ING, USGS and NIST SRM Glasses Using Laser Ablation ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2009, 33, 319-335.	3.1	32
118	Accurate determination of elements in silicate glass by nanosecond and femtosecond laser ablation ICP-MS at high spatial resolution. <i>Chemical Geology</i> , 2015, 400, 11-23.	3.3	32
119	Geochemistry of early Paleozoic alkali dyke swarms in south Qinling and its geological significance. <i>Science in China Series D: Earth Sciences</i> , 2003, 46, 1292-1306.	0.9	31
120	Pb and Nd isotopic composition of the Jigongshan granite: constraints on crustal structure of Tongbaishan in the middle part of the Qinling–Tongbai–Dabie orogenic belt, Central China. <i>Lithos</i> , 2004, 73, 215-227.	1.4	31
121	Garnet-rich granulite xenoliths from the Hannuoba basalts, North China: Petrogenesis and implications for the Mesozoic crust-mantle interaction. <i>Journal of Earth Science (Wuhan, China)</i> , 2010, 21, 669-691.	3.2	31
122	Reassessment of HF/HNO ₃ Decomposition Capability in the High-Pressure Digestion of Felsic Rocks for Multi-Element Determination by ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2012, , no-no.	3.1	31
123	Simultaneous Determination of Major and Trace Elements in Fused Volcanic Rock Powders Using a Hermetic Vessel Heater and LA–ICP–MS. <i>Geostandards and Geoanalytical Research</i> , 2013, 37, 207-229.	3.1	31
124	Geochemical and isotopic constraints on the age and origin of mafic dikes from eastern Shandong Province, eastern North China Craton. <i>International Geology Review</i> , 2012, 54, 1389-1400.	2.1	30
125	LA–ICP–MS monazite U–Pb age and trace element constraints on the granulite-facies metamorphism in the Tongbai orogen, central China. <i>Journal of Asian Earth Sciences</i> , 2014, 82, 90-102.	2.3	30
126	Observations of Large Mass-Independent Fractionation Occurring in MC-ICPMS: Implications for Determination of Accurate Isotope Amount Ratios. <i>Analytical Chemistry</i> , 2011, 83, 8999-9004.	6.5	29

#	ARTICLE	IF	CITATIONS
127	Pressure-dependent compatibility of iron in garnet: Insights into the origin of ferropicritic melt. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 356-377.	3.9	28
128	The origin and response of zircon in eclogite to metamorphism during the multi-stage evolution of the Huwan Shear Zone, China: Insights from U-Pb isotopic and trace element geochemistry. <i>Gondwana Research</i> , 2013, 23, 726-747.	6.0	27
129	Improved Inter-calibration of Faraday Cup and Ion Counting for <i>In Situ</i> Pb Isotope Measurements Using LA-ICP-MS: Application to the Study of the Origin of the Fangshan Pluton, North China. <i>Geostandards and Geoanalytical Research</i> , 2015, 39, 467-487.	3.1	27
130	Paleo-Asian oceanic subduction-related modification of the lithospheric mantle under the North China Craton: Evidence from peridotite xenoliths in the Datong basalts. <i>Lithos</i> , 2016, 261, 109-127.	1.4	27
131	Microgeochemistry of rutile and zircon in eclogites from the CCSD main hole: Implications for the fluid activity and thermo-history of the UHP metamorphism. <i>Lithos</i> , 2010, 115, 51-64.	1.4	26
132	U-Pb zircon age, geochemical and Sr-Nd isotopic data as constraints on the petrogenesis and emplacement time of the Precambrian mafic dyke swarms in the North China Craton (NCC). <i>Lithos</i> , 2012, 140-141, 38-52.	1.4	26
133	Signal enhancement in laser ablation inductively coupled plasma-mass spectrometry using water and/or ethanol vapor in combination with a shielded torch. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 536.	3.0	26
134	Geochemistry and U-Pb zircon geochronology of Late-Mesozoic lavas from Xishan, Beijing. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 50-67.	0.9	25
135	Geochemistry of high-Mg andesites from the early Cretaceous Yixian Formation, western Liaoning: Implications for lower crustal delamination and Sr/Y variations. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 904-914.	0.9	25
136	Big insights from tiny peridotites: Evidence for persistence of Precambrian lithosphere beneath the eastern North China Craton. <i>Tectonophysics</i> , 2015, 650, 104-112.	2.2	25
137	An Sm-Nd isotopic dating study of the Archean Kongling Complex in the Huangling area of the Yangtze Craton. <i>Science Bulletin</i> , 1998, 43, 1187-1191.	1.7	24
138	Accurate Determination of Rare Earth Elements in USGS, NIST SRM, and MPI-DING Glasses by Excimer LA-ICP-MS at High Spatial Resolution. <i>Spectroscopy Letters</i> , 2008, 41, 228-236.	1.0	24
139	Direct Determination of Tellurium in Geological Samples by Inductively Coupled Plasma Mass Spectrometry Using Ethanol as a Matrix Modifier. <i>Applied Spectroscopy</i> , 2006, 60, 781-785.	2.2	22
140	Comparative Sr-Nd-Hf-Os-Pb isotope systematics of xenolithic peridotites from Yangyuan, North China Craton: Additional evidence for a Paleoproterozoic age. <i>Chemical Geology</i> , 2012, 332-333, 1-14.	3.3	22
141	Geochemical, Sr-Nd isotopic, and zircon U-Pb geochronological constraints on the petrogenesis of Late Paleoproterozoic mafic dykes within the northern North China Craton, Shanxi Province, China. <i>Precambrian Research</i> , 2013, 236, 182-192.	2.7	21
142	Zircon U-Pb age, geochemical, and Sr-Nd-Hf isotopic constraints on the origin of mafic dykes in the Shaanxi Province, North China Craton, China. <i>Lithos</i> , 2013, 175-176, 244-254.	1.4	21
143	Review of High-Precision Sr Isotope Analyses of Low-Sr Geological Samples. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 763-774.	3.2	21
144	An Investigation of Digestion Methods for Trace Elements in Bauxite and Their Determination in Ten Bauxite Reference Materials Using Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 195-216.	3.1	21

#	ARTICLE	IF	CITATIONS
145	Niobium and Tantalum Concentrations in NIST SRM 610 Revisited. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 347-360.	3.1	20
146	Triassic high-pressure metamorphism in the Huwan shear zone: Tracking the initial subduction of continental crust in the whole Dabie orogen. <i>Lithos</i> , 2012, 136-139, 60-72.	1.4	20
147	Discovery of dunite and pyroxenite xenoliths in Mesozoic diorite at Jinling, western Shandong and its significance. <i>Science Bulletin</i> , 2003, 48, 1599-1604.	1.7	19
148	Zircon U-Pb age and Sr-Nd-Hf isotopic constraints on the age and origin of Triassic mafic dikes, Dalian area, Northeast China. <i>International Geology Review</i> , 2013, 55, 249-262.	2.1	19
149	Further investigation into ICP-induced elemental fractionation in LA-ICP-MS using a local aerosol extraction strategy. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 941-949.	3.0	19
150	Direct Determination of Si Isotope Ratios in Natural Waters and Commercial Si Standards by Ion Exclusion Chromatography Multicollector Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 9301-9308.	6.5	18
151	Geochemistry of the high-Mg andesites at Zhangwu, western Liaoning: Implication for delamination of newly formed lower crust. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 1773-1786.	0.9	17
152	Zircon U-Pb geochronological, geochemical, and Sr-Nd isotope data for Early Cretaceous mafic dykes in the Tancheng-Lujiang Fault area of the Shandong Province, China: Constraints on the timing of magmatism and magma genesis. <i>Journal of Asian Earth Sciences</i> , 2015, 98, 247-260.	2.3	17
153	Repeated modification of lithospheric mantle in the eastern North China Craton: Constraints from SHRIMP zircon U-Pb dating of dunite xenoliths in western Shandong. <i>Science Bulletin</i> , 2012, 57, 651-659.	1.7	16
154	Multiple exsolutions in a rare clinopyroxene megacryst from the Hannuoba basalt, North China: Implications for subducted slab-related crustal thickening and recycling. <i>Lithos</i> , 2013, 177, 136-147.	1.4	16
155	The Role of Earth's Deep Volatile Cycling in the Generation of Intracratonic High-Mg Andesites: Implication for Lithospheric Thinning Beneath the North China Craton. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1305-1323.	3.4	16
156	Sr-Nd isotopic and geochemical constraints on provenance of late Paleozoic to early Cretaceous sedimentary rocks in the Western Hills of Beijing, North China: Implications for the uplift of the northern North China Craton. <i>Sedimentary Geology</i> , 2012, 245-246, 17-28.	2.1	15
157	Mesozoic high-Mg andesites from the Daohugou area, Inner Mongolia: Upper-crustal fractional crystallization of parental melt derived from metasomatized lithospheric mantle wedge. <i>Lithos</i> , 2018, 302-303, 535-548.	1.4	14
158	Direct Determination of Ag in Geological Samples by Membrane Desolvation-Inductively Coupled Plasma-Mass Spectrometer. <i>Chinese Journal of Analytical Chemistry</i> , 2008, 36, 1493-1498.	1.7	13
159	K-Ar Ages and Geochemical + Sr-Nd Isotopic Compositions of Adakitic Volcanic Rocks, Western Shandong Province, Eastern China: Foundering of the Lower Continental Crust. <i>International Geology Review</i> , 2008, 50, 763-779.	2.1	13
160	Two-Stage Exhumation of Ultrahigh-Pressure Metamorphic Rocks from the Western Dabie Orogen, Central China. <i>Journal of Geology</i> , 2011, 119, 15-31.	1.4	13
161	U-Pb zircon ages, geochemical and Sr-Nd-Pb isotopic constraints on the dating and origin of intrusive complexes in the Sulu orogen, eastern China. <i>International Geology Review</i> , 2011, 53, 61-83.	2.1	13
162	Geophysical properties of the lower crustal granulites from the Qinling Orogenic Belt, China. <i>Tectonophysics</i> , 1992, 204, 401-408.	2.2	12

#	ARTICLE	IF	CITATIONS
163	Improved performance of a shielded torch using ethanol in inductively coupled plasmaâ€“sector field mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 106, 36-44.	2.9	12
164	Variation of molybdenum isotopes in molybdenite from porphyry and vein Mo deposits in the Gangdese metallogenic belt, Tibetan plateau and its implications. <i>Mineralium Deposita</i> , 2016, 51, 201-210.	4.1	12
165	Ablation Characteristic of Ilmenite using <scp>UV</scp> Nanosecond and Femtosecond Lasers: Implications for Nonâ€“Matrixâ€“Matched Quantification. <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 477-491.	3.1	11
166	Direct Quantitative Determination of Trace Elements in Fineâ€“Grained Whole Rocks by Laser Ablationâ€“Inductively Coupled Plasmaâ€“Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 7-22.	3.1	10
167	Step-like growth of the continental crust in South China: evidence from detrital zircons in Yangtze River sediments. <i>Lithos</i> , 2018, 320-321, 155-171.	1.4	10
168	Titanite evidence for Triassic thickened lower crust along southeastern margin of North China Craton. <i>Lithos</i> , 2014, 206-207, 277-288.	1.4	9
169	Nb/Ta variations of mafic volcanics on the Archean-Proterozoic boundary: Implications for the Nb/Ta imbalance. <i>Science in China Series D: Earth Sciences</i> , 2005, 48, 1106.	0.9	8
170	Geochemistry of Dabeigou Basalt in Chengde Basin, Hebei Province and Constraints on Lithospheric Mantle Thinning of North China Craton. <i>Earth Science Frontiers</i> , 2007, 14, 98-108.	0.6	8
171	A preliminary study of isopropyl alcohol matrix effect and correction in ICP-MS. <i>Chinese Chemical Letters</i> , 2007, 18, 1297-1300.	9.0	8
172	Petrogenetic significance of high Fe/Mn ratios of the Cenozoic basalts from eastern China. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 229-239.	0.9	8
173	Reply to the comment by Zhang et al. on: â€œFirst finding of A-type and adakitic magmatism association in Songpanâ€“Garze fold belt, eastern Tibetan Plateau: Implication for lithospheric delaminationâ€“. <i>Lithos</i> , 2008, 103, 565-568.	1.4	8
174	Modification of the lithospheric mantle by melt derived from recycled continental crust evidenced by wehrlite xenoliths in Early Cretaceous high-Mg diorites from western Shandong, China. <i>Science China Earth Sciences</i> , 2012, 55, 1972-1986.	5.2	8
175	Determination of Primary Magnetic Minerals of a Weathered Metapelite Xenolith from Zhouba Region, North China, by Combining Thermomagnetic Runs and Low-Temperature Measurements. <i>Chinese Journal of Geophysics</i> , 2005, 48, 946-952.	0.2	7
176	Magnetic study of mafic granulite xenoliths from the Hannuoba basalt, north China. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	7
177	Episodic Mesozoic thickening and reworking of the North China Archean lower crust correlated to the fast-spreading Pacific plate. <i>Journal of Asian Earth Sciences</i> , 2014, 80, 63-74.	2.3	7
178	Ce anomaly in minerals of eclogite and garnet pyroxenite from Dabie-Sulu ultrahigh pressure metamorphic belt: Tacking subducted sediment formed under oxidizing conditions. <i>Science in China Series D: Earth Sciences</i> , 2004, 47, 920-930.	0.9	6
179	Zircon U-Pb ages of olivine pyroxenite xenolith from Hannuoba: Links between the 97â€“158 Ma basaltic underplating and granulite-facies metamorphism. <i>Science Bulletin</i> , 2004, 49, 1055-1062.	1.7	6
180	Geochemical, Srâ€“Ndâ€“Pb isotope, and zircon Uâ€“Pb geochronological constraints on the origin of Early Permian mafic dikes, northern North China Craton. <i>International Geology Review</i> , 2013, 55, 1626-1640.	2.1	6

#	ARTICLE	IF	CITATIONS
181	Garnet–spinel–corundum–quartz-bearing titanohematite veins in eclogite from the Sulu ultrahigh-pressure terrane: Imprint of a short-lived, high-temperature metamorphic stage. <i>Journal of Asian Earth Sciences</i> , 2011, 42, 704-714.	2.3	5
182	Poisson's ratio of eclogite: Implications for lower crustal delamination of orogens. <i>Science in China Series D: Earth Sciences</i> , 2003, 46, 909-918.	0.9	4
183	Age and origin of a Palaeozoic nepheline syenite from northern Shanxi Province, China: U–Pb zircon age and whole-rock geochemical and Sr–Nd isotopic constraints. <i>International Geology Review</i> , 2012, 54, 1296-1308.	2.1	3
184	Application of an Orthogonal Method for Optimizing an Inductively Coupled Plasma Mass Spectrometer.. <i>Analytical Sciences</i> , 2002, 18, 701-704.	1.6	2
185	The rise of atomic spectrometry in China over the past 25 years. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1803.	3.0	1