

W-D Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

6,015
citations

40
h-index

76
g-index

134
ext. papers

7,027
ext. citations

4.5
avg, IF

5.91
L-index

#	Paper	IF	Citations
119	Geochemistry and genesis of the Nadun Nb-enriched arc basalt in the Duolong mineral district, western Tibet: Indication of ridge subduction. <i>Geoscience Frontiers</i> , 2022 , 13, 101283	6	2
118	Large iron isotope fractionation during mantle wedge serpentinization: Implications for iron isotopes of arc magmas. <i>Earth and Planetary Science Letters</i> , 2022 , 583, 117423	5.3	2
117	Reply to B 'plume interaction induced migration of the hawaiian-emperor seamounts' a step too far? <i>Science Bulletin</i> , 2022 , 67, 1221-1221	10.6	
116	Oligocene magmatic accretion and transtensional tectonics in the Central Basin Fault rift of the West Philippine back-arc basin: New insights from high-resolution multichannel seismic data. <i>Marine and Petroleum Geology</i> , 2022 , 105703	4.7	
115	The big mantle wedge and decratonic gold deposits. <i>Science China Earth Sciences</i> , 2021 , 64, 1451-1462	4.6	12
114	Basalt derived from highly refractory mantle sources during early Izu-Bonin-Mariana arc development. <i>Nature Communications</i> , 2021 , 12, 1723	17.4	7
113	The Caroline Ridge fault system and implications for the bending-related faulting of incoming oceanic plateaus. <i>Gondwana Research</i> , 2021 , 92, 133-148	5.1	2
112	Plume-ridge interaction induced migration of the Hawaiian-Emperor seamounts. <i>Science Bulletin</i> , 2021 ,	10.6	6
111	MORB-like $\delta^{66}\text{Fe}$ values unveil the effect of subduction on the South China Sea basalts. <i>Chemical Geology</i> , 2021 , 569, 120124	4.2	3
110	Calcium isotopic fractionation during magma differentiation: Constraints from volcanic glasses from the eastern Manus Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 305, 228-242	5.5	2
109	Three late-Mesozoic fluorite deposit belts in southeast China and links to subduction of the (paleo-) Pacific plate. <i>Ore Geology Reviews</i> , 2021 , 129, 103865	3.2	6
108	Investigation of an oceanic plateau formation and rifting initiation model implied by the Caroline Ridge on the Caroline Plate, western Pacific. <i>International Geology Review</i> , 2021 , 63, 193-207	2.3	4
107	Genesis and mineralization potential of the Late Cretaceous Chemen granodioritic intrusion in the southern Gangdese magmatic belt, Tibet. <i>Journal of Asian Earth Sciences</i> , 2021 , 217, 104829	2.8	1
106	Global continental volcanism controlled the evolution of the oceanic nickel reservoir. <i>Earth and Planetary Science Letters</i> , 2021 , 572, 117116	5.3	2
105	Ca-Sr isotope and chemical evidence for distinct sources of carbonatite and silicate mantle metasomatism. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 312, 158-179	5.5	0
104	The synchronic Cenozoic subduction initiations in the west Pacific induced by the closure of the Neo-Tethys Ocean. <i>Science Bulletin</i> , 2020 , 65, 2068-2071	10.6	12
103	Trace element characteristics of pyrite in Dongguashan Cu (Au) deposit, Tongling region, China. <i>Solid Earth Sciences</i> , 2020 , 5, 233-246	1.7	4

102	Multiple element mapping and in-situ S isotopes of Au-carrying pyrite of Shuiyindong gold deposit, southwestern China using NanoSIMS: Constraints on Au sources, ore fluids, and mineralization processes. <i>Ore Geology Reviews</i> , 2020 , 123, 103576	3.2	10
101	Calcium isotopic signatures of depleted mid-ocean ridge basalts from the northeastern Pacific. <i>Journal of Oceanology and Limnology</i> , 2020 , 38, 1476-1487	1.5	3
100	Zinc isotopic systematics of the South China Sea basalts and implications for its behavior during plate subduction. <i>Chemical Geology</i> , 2020 , 541, 119582	4.2	5
99	Discovery of supercritical carbon dioxide in a hydrothermal system. <i>Science Bulletin</i> , 2020 , 65, 958-964	10.6	17
98	Significant $\delta^{44}/^{40}\text{Ca}$ variations between carbonate- and clay-rich marine sediments from the Lesser Antilles forearc and implications for mantle heterogeneity. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 276, 239-257	5.5	6
97	Early cretaceous transformation from Pacific to Neo-Tethys subduction in the SW Pacific Ocean: Constraints from Pb-Sr-Nd-Hf isotopes of the Philippine arc. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 285, 21-40	5.5	3
96	Manshanian Movement induced by the westward subduction of the paleo-Pacific plate. <i>Solid Earth Sciences</i> , 2020 , 5, 103-114	1.7	10
95	Analogous diagenetic conditions of dark enclave and its host granite derived by magma mixing: Evidence for a post-mixing magmatic process. <i>Lithos</i> , 2020 , 356-357, 105373	2.9	3
94	High oxygen fugacity magma: implication for the destruction of the North China Craton. <i>Acta Geochimica</i> , 2020 , 39, 161-171	2.2	10
93	Gold and sulfur sources of the Taipingdong Carlin-type gold deposit: Constraints from simultaneous determination of sulfur isotopes and trace elements in pyrite using nanoscale secondary ion mass spectroscopy. <i>Ore Geology Reviews</i> , 2020 , 117, 103299	3.2	10
92	Calcium isotopic fractionation during plate subduction: Constraints from back-arc basin basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 270, 379-393	5.5	17
91	Petrogenesis of Early Cretaceous adakites in Tongguanshan Cu-Au polymetallic deposit, Tongling region, Eastern China. <i>Ore Geology Reviews</i> , 2020 , 126, 103717	3.2	3
90	Plate convergence in the Indo-Pacific region. <i>Journal of Oceanology and Limnology</i> , 2020 , 38, 1008-1017	1.5	8
89	Lithium systematics in global arc magmas and the importance of crustal thickening for lithium enrichment. <i>Nature Communications</i> , 2020 , 11, 5313	17.4	8
88	Plate subduction, oxygen fugacity, and mineralization. <i>Journal of Oceanology and Limnology</i> , 2020 , 38, 64-74	1.5	21
87	Global atmospheric oxygen variations recorded by Th/U systematics of igneous rocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18854-18859	11.5	18
86	Comparative geochemical study of scheelite from the Shizhuyuan and Xianglushan tungsten skarn deposits, South China: Implications for scheelite mineralization. <i>Ore Geology Reviews</i> , 2019 , 109, 448-464	3.2	23
85	Geochemical and Geochronological Constraints on the Origin and Emplacement of the East Taiwan Ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 2110-2133	3.6	7

84	In situ elemental and Sr-O isotopic studies on apatite from the Xu-Huai intrusion at the southern margin of the North China Craton: Implications for petrogenesis and metallogeny. <i>Chemical Geology</i> , 2019 , 510, 200-214	4.2	25
83	Geochronology and geochemistry of the Late Cretaceous Xinpeng granitic intrusion, South China: Implication for Sn-W mineralization. <i>Ore Geology Reviews</i> , 2019 , 113, 103075	3.2	13
82	The Magma Engine and subduction initiation. <i>Acta Geochimica</i> , 2019 , 38, 611-612	2.2	3
81	Rhenium enrichment in the northwest Pacific arc. <i>Ore Geology Reviews</i> , 2019 , 115, 103176	3.2	6
80	The Magma Engine and the driving force of plate tectonics. <i>Chinese Science Bulletin</i> , 2019 , 64, 2988-3006	2.9	11
79	A new model for porphyry W mineralization in a world-class tungsten metallogenic belt. <i>Ore Geology Reviews</i> , 2019 , 107, 501-512	3.2	13
78	Source of ore-forming fluids of the Yangshan gold field, western Qinling orogen, China: Evidence from microthermometry, noble gas isotopes and in situ sulfur isotopes of Au-carrying pyrite. <i>Ore Geology Reviews</i> , 2019 , 105, 404-422	3.2	15
77	Subduction Erosion, Crustal Structure, and an Evolutionary Model of the Northern Yap Subduction Zone: New Observations From the Latest Geophysical Survey. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 166-182	3.6	10
76	Major Miocene geological events in southern Tibet and eastern Asia induced by the subduction of the Ninetyeast Ridge. <i>Acta Geochimica</i> , 2018 , 37, 395-401	2.2	14
75	Geochemical constraints on genesis of Paleoproterozoic A-type granite in the south margin of North China Craton. <i>Lithos</i> , 2018 , 304-307, 489-500	2.9	21
74	A 20 m.y. long-lived successive mineralization in the giant Dahutang W-Cu-Mo deposit, South China. <i>Ore Geology Reviews</i> , 2018 , 95, 401-407	3.2	24
73	Late Cretaceous granitic magmatism and mineralization in the Yingwuling W-Bi deposit, South China: Constraints from zircon and cassiterite U-Pb geochronology and whole-rock geochemistry. <i>Ore Geology Reviews</i> , 2018 , 96, 115-129	3.2	34
72	Post-ridge-subduction acceleration of the Indian plate induced by slab rollback. <i>Solid Earth Sciences</i> , 2018 , 3, 1-7	1.7	19
71	Calcium Isotopic Compositions of Normal Mid-Ocean Ridge Basalts From the Southern Juan de Fuca Ridge. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 1303-1313	3.6	34
70	Formation of A-type granites in the Lower Yangtze River Belt: A perspective from apatite geochemistry. <i>Lithos</i> , 2018 , 304-307, 125-134	2.9	35
69	Palaeoarchean materials in the Tibetan Plateau indicated by zircon. <i>International Geology Review</i> , 2018 , 60, 1061-1072	2.3	7
68	Comment on Did China Import Metals from Africa in the Bronze Age? <i>Archaeometry</i> , 2018 , 60, 1036-1039	2.6	5
67	Insights into the origin of coexisting A1- and A2-type granites: Implications from zircon Hf-O isotopes of the Huayangong intrusion in the Lower Yangtze River Belt, eastern China. <i>Lithos</i> , 2018 , 318-319, 230-243	2.9	21

66	Mineral paragenesis, fluid inclusions, H ₂ O isotopes and ore-forming processes of the giant Dahutang W ₆ Cu ₁ Mo deposit, South China. <i>Ore Geology Reviews</i> , 2018 , 99, 116-150	3.2	20
65	Genesis of the Gaosong Sn ₁ W deposit, Gejiu district, SW China: Constraints from in situ LA-ICP-MS cassiterite U ₁ Pb dating and trace element fingerprinting. <i>Ore Geology Reviews</i> , 2018 , 92, 627-642	3.2	50
64	Mid-Late Cretaceous igneous activity in South China: the Qianjia example, Hainan Island. <i>International Geology Review</i> , 2018 , 60, 1665-1683	2.3	12
63	Mantle Source and Magmatic Evolution of the Dying Spreading Ridge in the South China Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 4385-4399	3.6	16
62	Adakitic rocks associated with the Shilu copper-molybdenum deposit in the Yangchun Basin, South China, and their tectonic implications. <i>Acta Geochimica</i> , 2017 , 36, 132-150	2.2	40
61	Oxygen fugacity and porphyry mineralization: A zircon perspective of Dexing porphyry Cu deposit, China. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 206, 343-363	5.5	114
60	Combined zircon and cassiterite U ₁ Pb dating of the Piaotang granite-related tungsten-in deposit, southern Jiangxi tungsten district, China. <i>Ore Geology Reviews</i> , 2017 , 82, 268-284	3.2	99
59	Cassiterite U-Pb geochronology constrains magmatic-hydrothermal evolution in complex evolved granite systems: The classic Erzgebirge tin province (Saxony and Bohemia). <i>Geology</i> , 2017 , 45, 1095-1098	5	86
58	The formation of the Late Cretaceous Xishan Sn ₁ W deposit, South China: Geochronological and geochemical perspectives. <i>Lithos</i> , 2017 , 290-291, 253-268	2.9	42
57	Nanosecond laser ablation tandem inductively coupled plasma mass and optical emission spectrometry for micro-chemical elemental analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2017 , 32, 2246-2253	3.7	1
56	Major transition of continental basalts in the Early Cretaceous: Implications for the destruction of the North China Craton. <i>Chemical Geology</i> , 2017 , 470, 93-106	4.2	37
55	Marine Carbonate Component in the Mantle Beneath the Southeastern Tibetan Plateau: Evidence From Magnesium and Calcium Isotopes. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 9729-9744	2.6	40
54	The initiation of plate subduction. <i>Solid Earth Sciences</i> , 2017 , 2, 89-90	1.7	4
53	Dating cassiterite using laser ablation ICP-MS. <i>Ore Geology Reviews</i> , 2016 , 72, 313-322	3.2	86
52	Generation of Late Mesozoic Qianlishan A ₂ -type granite in Nanling Range, South China: Implications for Shizhuyuan W ₆ Bn mineralization and tectonic evolution. <i>Lithos</i> , 2016 , 266-267, 435-452	2.9	90
51	Initiation and evolution of the South China Sea: an overview. <i>Acta Geochimica</i> , 2016 , 35, 215-225	2.2	56
50	The Taylor Moon. <i>Acta Geochimica</i> , 2016 , 35, 14-14	2.2	0
49	Oceanic anoxic events, subduction style and molybdenum mineralization. <i>Solid Earth Sciences</i> , 2016 , 1, 64-73	1.7	30

48	Fractionation of Cu and Mo isotopes caused by vapor-liquid partitioning, evidence from the Dahutang W-Cu-Mo ore field. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 1725-1739	3.6	26
47	Origin of the mysterious Yin-Shang bronzes in China indicated by lead isotopes. <i>Scientific Reports</i> , 2016 , 6, 23304	4.9	20
46	The formation of Qulong adakites and their relationship with porphyry copper deposit: Geochemical constraints. <i>Lithos</i> , 2015 , 220-223, 60-80	2.9	43
45	Zircon U/Pb ages and geochemical characteristics of granitoids in Nagqu area, Tibet. <i>Lithos</i> , 2015 , 231, 92-102	2.9	18
44	Melt percolation in the Songshugou ultramafic massif of the Qinling orogenic belt, Central China. <i>International Geology Review</i> , 2015 , 57, 1326-1339	2.3	6
43	Multiple Mesozoic magma processes formed the 240±85 Ma composite Weishan pluton, South China: evidence from geochronology, geochemistry, and Sr-Nd isotopes. <i>International Geology Review</i> , 2015 , 57, 1189-1217	2.3	18
42	Porphyry deposits and oxidized magmas. <i>Ore Geology Reviews</i> , 2015 , 65, 97-131	3.2	331
41	A 'hidden' 18O-enriched reservoir in the sub-arc mantle. <i>Scientific Reports</i> , 2014 , 4, 4232	4.9	30
40	Mineralogical study of sediment-hosted gold deposits in the Yangshan ore field, Western Qinling Orogen, Central China. <i>Journal of Asian Earth Sciences</i> , 2014 , 85, 40-52	2.8	15
39	The geochemical characteristics of Haiyang A-type granite complex in Shandong, eastern China. <i>Lithos</i> , 2014 , 200-201, 142-156	2.9	37
38	Shapinggou: the largest Climax-type porphyry Mo deposit in China. <i>International Geology Review</i> , 2014 , 56, 313-331	2.3	39
37	Geochemistry of magmatic and hydrothermal zircon from the highly evolved Baerzhe alkaline granite: implications for Zr/Nb mineralization. <i>Mineralium Deposita</i> , 2014 , 49, 451-470	4.8	105
36	An XPS study on the valence states of arsenic in arsenian pyrite: Implications for Au deposition mechanism of the Yang-shan Carlin-type gold deposit, western Qinling belt. <i>Journal of Asian Earth Sciences</i> , 2013 , 62, 363-372	2.8	16
35	The link between reduced porphyry copper deposits and oxidized magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 103, 263-275	5.5	279
34	Major Nb/Ta Fractionation Recorded in Garnet Amphibolite Facies Metagabbro. <i>Journal of Geology</i> , 2013 , 121, 255-274	2	29
33	High Oxygen Fugacity and Slab Melting Linked to Cu Mineralization: Evidence from Dexing Porphyry Copper Deposits, Southeastern China. <i>Journal of Geology</i> , 2013 , 121, 289-305	2	95
32	Destruction of the North China Craton Induced by Ridge Subductions. <i>Journal of Geology</i> , 2013 , 121, 197-213	2	69
31	Large-scale gold mineralization in eastern China induced by an Early Cretaceous clockwise change in Pacific plate motions. <i>International Geology Review</i> , 2013 , 55, 311-321	2.3	62

30	Formation of the world's largest REE deposit through protracted fluxing of carbonatite by subduction-derived fluids. <i>Scientific Reports</i> , 2013 , 3,	4.9	86
29	Formation of the world's largest molybdenum metallogenic belt: a plate-tectonic perspective on the Qinling molybdenum deposits. <i>International Geology Review</i> , 2012 , 54, 1093-1112	2.3	37
28	Geochemical Constraints on Adakites of Different Origins and Copper Mineralization. <i>Journal of Geology</i> , 2012 , 120, 105-120	2	116
27	A-type granite belts of two chemical subgroups in central eastern China: Indication of ridge subduction. <i>Lithos</i> , 2012 , 150, 26-36	2.9	137
26	The formation of the Dabaoshan porphyry molybdenum deposit induced by slab rollback. <i>Lithos</i> , 2012 , 150, 101-110	2.9	160
25	Crustal Melting and Flow beneath Northern Tibet: Evidence from Mid-Miocene to Quaternary Strongly Peraluminous Rhyolites in the Southern Kunlun Range. <i>Journal of Petrology</i> , 2012 , 53, 2523-2566 ²⁹	2.9	68
24	Partitioning of Nb and Ta between rutile and felsic melt and the fractionation of Nb/Ta during partial melting of hydrous metabasalt. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 1673-1692	5.5	109
23	Geochronology of the Xihuashan Tungsten Deposit in Southeastern China: Constraints from ReOs and U/Pb Dating. <i>Resource Geology</i> , 2011 , 61, 414-423	1	35
22	Mesozoic large magmatic events and mineralization in SE China: oblique subduction of the Pacific plate. <i>International Geology Review</i> , 2011 , 53, 704-726	2.3	146
21	Improved Application of Bomb Carbon in Teeth for Forensic Investigation. <i>Radiocarbon</i> , 2010 , 52, 706-716	1.6	11
20	High-precision analysis of Sr/Ca and Mg/Ca ratios in corals by laser ablation inductively coupled plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 84-87	3.7	19
19	Quartz Thermoluminescence—Another Potential Paleo-Thermometer for Studies of Sedimentary Basin Thermal History. <i>Chinese Journal of Geophysics</i> , 2010 , 53, 103-112		6
18	Ridge subduction and porphyry copper-gold mineralization: An overview. <i>Science China Earth Sciences</i> , 2010 , 53, 475-484	4.6	221
17	Geology, geochemistry, and genesis of Axi: A Paleozoic low-sulfidation type epithermal gold deposit in Xinjiang, China. <i>Ore Geology Reviews</i> , 2009 , 36, 265-281	3.2	85
16	Natural and experimental constraints on formation of the continental crust based on niobium-tantalum fractionation. <i>International Geology Review</i> , 2009 , 51, 473-501	2.3	51
15	Constancy of Nb/U in the mantle revisited. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 3542-3549	5.5	81
14	SHRIMP zircon U-Pb dating from K-bentonite in the top of Ordovician of Wangjiawan Section, Yichang, Hubei, China. <i>Science in China Series D: Earth Sciences</i> , 2008 , 51, 493-498		23
13	The golden transformation of the Cretaceous plate subduction in the west Pacific. <i>Earth and Planetary Science Letters</i> , 2007 , 262, 533-542	5.3	560

12	Monazite, iron oxide and barite exsolutions in apatite aggregates from CCSD drillhole eclogites and their geological implications. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 2896-2905	5.5	62
11	Making continental crust through slab melting: Constraints from niobium-tantalum fractionation in UHP metamorphic rutile. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 4770-4782	5.5	95
10	Zircon Ce ⁴⁺ /Ce ³⁺ ratios and ages for Yulong ore-bearing porphyries in eastern Tibet. <i>Mineralium Deposita</i> , 2006 , 41, 152-159	4.8	214
9	Release of gold-bearing fluids in convergent margin magmas prompted by magnetite crystallization. <i>Nature</i> , 2004 , 431, 975-8	50.4	250
8	The mechanism of Re enrichment in arc magmas: evidence from Lau Basin basaltic glasses and primitive melt inclusions. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 101-114	5.3	64
7	Enhanced mantle-to-crust rhenium transfer in undegassed arc magmas. <i>Nature</i> , 2003 , 422, 294-7	50.4	111
6	Evidence for rhenium enrichment in the mantle wedge from submarine arc-like volcanic glasses (Papua New Guinea). <i>Geology</i> , 2003 , 31, 845	5	66
5	Carboniferous and Triassic eclogites in the western Dabie Mountains, east-central China: evidence for protracted convergence of the North and South China Blocks. <i>Journal of Metamorphic Geology</i> , 2002 , 20, 873-886	4.4	166
4	Timing of Synorogenic Granitoids in the South Qinling, Central China: Constraints on the Evolution of the Qinling-Dabie Orogenic Belt. <i>Journal of Geology</i> , 2002 , 110, 457-468	2	196
3	Mid-paleozoic collision in the north Qinling: Sm-Nd, Rb-Sr and ⁴⁰ Ar/ ³⁹ Ar ages and their tectonic implications. <i>Journal of Asian Earth Sciences</i> , 2002 , 21, 69-76	2.8	95
2	The Rotation of the Pacific Plate Induced by the Ontong Java Large Igneous Province. <i>Journal of Earth Science (Wuhan, China)</i> , 1	2.2	1
1	Characterization of subduction initiation. <i>Journal of Oceanology and Limnology</i> , 1	1.5	0