Xuan-Ce Wang

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105 6,757 40 81 g-index

107 7,715 4.4 5.71 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
105	Recycling lower continental crust in the North China craton. <i>Nature</i> , 2004 , 432, 892-7	50.4	1314
104	Penglai Zircon Megacrysts: A Potential New Working Reference Material for Microbeam Determination of HfD Isotopes and UPb Age. <i>Geostandards and Geoanalytical Research</i> , 2010 , 34, 117-1	3 ³ .6	610
103	Petrogenesis and tectonic significance of the ~ 850 Ma Gangbian alkaline complex in South China: Evidence from in situ zircon UPb dating, HfD isotopes and whole-rock geochemistry. <i>Lithos</i> , 2010 , 114, 1-15	2.9	389
102	Role of mantle-derived magma in genesis of early Yanshanian granites in the Nanling Range, South China: in situ zircon Hf-O isotopic constraints. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1262-12	278	256
101	U P b 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	4.2	198
100	SIMS UPb zircon geochronology of porphyry CuAu(Mo) deposits in the Yangtze River Metallogenic Belt, eastern China: Magmatic response to early Cretaceous lithospheric extension. <i>Lithos</i> , 2010 , 119, 427-438	2.9	186
99	The Early Permian active continental margin and crustal growth of the Cathaysia Block: In situ UPb, LuHf and O isotope analyses of detrital zircons. <i>Chemical Geology</i> , 2012 , 328, 195-207	4.2	171
98	Revisiting the I -type adakites I bf the Lower Yangtze River Belt, central eastern China: In-situ zircon HfD isotope and geochemical constraints. <i>Chemical Geology</i> , 2013 , 345, 1-15	4.2	167
97	The Bikou basalts in the northwestern Yangtze block, South China: Remnants of 820-810 Ma continental flood basalts?. <i>Bulletin of the Geological Society of America</i> , 2008 , 120, 1478-1492	3.9	162
96	Temperature, Pressure, and Composition of the Mantle Source Region of Late Cenozoic Basalts in Hainan Island, SE Asia: a Consequence of a Young Thermal Mantle Plume close to Subduction Zones?. <i>Journal of Petrology</i> , 2012 , 53, 177-233	3.9	159
95	Deep carbon cycles constrained by a large-scale mantle Mg isotope anomaly in eastern China. <i>National Science Review</i> , 2017 , 4, 111-120	10.8	149
94	Ca. 825 Ma komatiitic basalts in South China: First evidence for >1500 LC mantle melts by a Rodinian mantle plume. <i>Geology</i> , 2007 , 35, 1103	5	139
93	Paleoproterozoic evolution of the eastern Alxa Block, westernmost North China: Evidence from in situ zircon UPb dating and HfD isotopes. <i>Gondwana Research</i> , 2012 , 21, 838-864	5.1	126
92	Variable involvements of mantle plumes in the genesis of mid-Neoproterozoic basaltic rocks in South China: A review. <i>Gondwana Research</i> , 2009 , 15, 381-395	5.1	116
91	Episodic Precambrian crust growth: Evidence from U P b ages and Hf D isotopes of zircon in the Nanhua Basin, central South China. <i>Precambrian Research</i> , 2012 , 222-223, 386-403	3.9	108
90	Integrated in situ zircon UPb age and HfD isotopes for the Helanshan khondalites in North China Craton: Juvenile crustal materials deposited in active or passive continental margin?. <i>Precambrian Research</i> , 2012 , 222-223, 143-158	3.9	107
89	Geochronological and geochemical results from Mesozoic basalts in southern South China Block support the flat-slab subduction model. <i>Lithos</i> , 2012 , 132-133, 127-140	2.9	103

88	Post-kinematic lithospheric delamination of the WuyiMunkai orogen in South China: Evidence from ca. 435Ma high-Mg basalts. <i>Lithos</i> , 2012 , 154, 115-129	2.9	103
87	Eocene Neo-Tethyan slab breakoff constrained by 45 Ma oceanic island basalt E ype magmatism in southern Tibet. <i>Geology</i> , 2016 , 44, 283-286	5	97
86	Origin of arc-like continental basalts: Implications for deep-Earth fluid cycling and tectonic discrimination. <i>Lithos</i> , 2016 , 261, 5-45	2.9	96
85	Identification of an ancient mantle reservoir and young recycled materials in the source region of a young mantle plume: Implications for potential linkages between plume and plate tectonics. <i>Earth and Planetary Science Letters</i> , 2013 , 377-378, 248-259	5.3	96
84	Continental flood basalts derived from the hydrous mantle transition zone. <i>Nature Communications</i> , 2015 , 6, 7700	17.4	91
83	Phanerozoic amalgamation of the Alxa Block and North China Craton: Evidence from Paleozoic granitoids, UPb geochronology and SrNdPbHfD isotope geochemistry. <i>Gondwana Research</i> , 2016 , 32, 105-121	5.1	72
82	Palaeomagnetic, geochronological and geochemical study of Mesoproterozoic Lakhna Dykes in the Bastar Craton, India: Implications for the Mesoproterozoic supercontinent. <i>Lithos</i> , 2013 , 174, 125-143	2.9	72
81	Partial melting of thickened continental crust in central Tibet: Evidence from geochemistry and geochronology of Eocene adakitic rhyolites in the northern Qiangtang Terrane. <i>Earth and Planetary Science Letters</i> , 2015 , 414, 30-44	5.3	71
80	Neoproterozoic S-type granites in the Alxa Block, westernmost North China and tectonic implications: In situ zircon U-Pb-Hf-O isotopic and geochemical constraints. <i>Numerische Mathematik</i> , 2014 , 314, 110-153	5.3	67
79	Geochemical and Hftld isotope data of Nanhua rift sedimentary and volcaniclastic rocks indicate a Neoproterozoic continental flood basalt provenance. <i>Lithos</i> , 2011 , 127, 427-440	2.9	63
78	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	3.7	62
77	Measurement of the Isotopic Composition of Molybdenum in Geological Samples by MC-ICP-MS using a Novel Chromatographic Extraction Technique. <i>Geostandards and Geoanalytical Research</i> , 2014 , 38, 345-354	3.6	58
76	Integrated in situ UPb age and HfD analyses of zircon from Suixian Group in northern Yangtze: New insights into the Neoproterozoic low-180 magmas in the South China Block. <i>Precambrian Research</i> , 2016 , 273, 151-164	3.9	58
75	Determination of Platinum-Group Elements and Re-Os Isotopes using ID-ICP-MS and N-TIMS from a Single Digestion after Two-Stage Column Separation. <i>Geostandards and Geoanalytical Research</i> , 2014 , 38, 37-50	3.6	57
74	The Willouran basic province of South Australia: Its relation to the Guibei large igneous province in South China and the breakup of Rodinia. <i>Lithos</i> , 2010 , 119, 569-584	2.9	57
73	Nonglacial origin for low-180 Neoproterozoic magmas in the South China Block: Evidence from new in-situ oxygen isotope analyses using SIMS. <i>Geology</i> , 2011 , 39, 735-738	5	55
72	Mid-Neoproterozoic angular unconformity in the Yangtze Block revisited: Insights from detrital zircon UPb age and HfD isotopes. <i>Precambrian Research</i> , 2015 , 266, 165-178	3.9	53
71	Precambrian evolution of the Chinese Central Tianshan Block: Constraints on its tectonic affinity to the Tarim Craton and responses to supercontinental cycles. <i>Precambrian Research</i> , 2017 , 295, 24-37	3.9	48

70	Paleoproterozoic S-type granites in the Helanshan Complex, Khondalite Belt, North China Craton: Implications for rapid sediment recycling during slab break-off. <i>Precambrian Research</i> , 2014 , 254, 59-72	3.9	48
69	New insights into the metallogeny of MVT Zn-Pb deposits: A case study from the Nayongzhi in South China, using field data, fluid compositions, and in situ S-Pb isotopes. <i>American Mineralogist</i> , 2018 , 103, 91-108	2.9	42
68	Petrogenesis of early Jurassic basalts in southern Jiangxi Province, South China: Implications for the thermal state of the Mesozoic mantle beneath South China. <i>Lithos</i> , 2016 , 256-257, 311-330	2.9	42
67	Genesis of the 1.21 Ga Marnda Moorn large igneous province by plumelithosphere interaction. <i>Precambrian Research</i> , 2014 , 241, 85-103	3.9	41
66	Reassessment of Hydrofluoric Acid Desilicification in the Carius Tube Digestion Technique for ReDs Isotopic Determination in Geological Samples. <i>Geostandards and Geoanalytical Research</i> , 2015 , 39, 17-30	3.6	40
65	Age and paleomagnetism of the 1210Ma Gnowangerup Braser dyke swarm, Western Australia, and implications for late Mesoproterozoic paleogeography. <i>Precambrian Research</i> , 2014 , 246, 1-15	3.9	40
64	Overlapping SrNdHfD isotopic compositions in Permian mafic enclaves and host granitoids in Alxa Block, NW China: Evidence for crusthantle interaction and implications for the generation of silicic igneous provinces. <i>Lithos</i> , 2015 , 230, 133-145	2.9	38
63	Ore genesis of the Fule Pb Zn deposit and its relationship with the Emeishan Large Igneous Province: Evidence from mineralogy, bulk C O S and in situ S Pb isotopes. <i>Gondwana Research</i> , 2018 , 54, 161-179	5.1	38
62	Mid-Neoproterozoic diabase dykes from Xide in the western Yangtze Block, South China: New evidence for continental rifting related to the breakup of Rodinia supercontinent. <i>Precambrian Research</i> , 2015 , 268, 339-356	3.9	36
61	The Tongde Picritic Dikes in the Western Yangtze Block: Evidence for Ca. 800-Ma Mantle Plume Magmatism in South China during the Breakup of Rodinia. <i>Journal of Geology</i> , 2010 , 118, 509-522	2	36
60	Initial breakup of supercontinent Rodinia as recorded by ca 860B40 Ma bimodal volcanism along the southeastern margin of the Yangtze Block, South China. <i>Precambrian Research</i> , 2017 , 296, 148-167	3.9	28
59	Single-step separation scheme and high-precision isotopic ratios analysis of SrNdHf in silicate materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2014 , 29, 1467-1476	3.7	28
58	Pyroxenite-derived Early Cretaceous lavas in the Liaodong Peninsula: Implication for metasomatism and thinning of the lithospheric mantle beneath North China Craton. <i>Lithos</i> , 2015 , 227, 77-93	2.9	27
57	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) [] Resistors. <i>Analytical Chemistry</i> , 2015 , 87, 7426-32	7.8	21
56	Paleogene igneous intrusion and its effect on thermal maturity of organic-rich mudstones in the Beibuwan Basin, South China Sea. <i>Marine and Petroleum Geology</i> , 2017 , 86, 733-750	4.7	21
55	Continental flood basalts of the Huashan Group, northern margin of the Yangtze block [] implications for the breakup of Rodinia. <i>International Geology Review</i> , 2013 , 55, 1865-1884	2.3	21
54	Newly identified 1.89 Ga mafic dyke swarm in the Archean Yilgarn Craton, Western Australia suggests a connection with India. <i>Precambrian Research</i> , 2019 , 329, 156-169	3.9	21
53	Disequilibrium-induced initial Os isotopic heterogeneity in gram aliquots of single basaltic rock powders: Implications for dating and source tracing. <i>Chemical Geology</i> , 2015 , 406, 10-17	4.2	20

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52	New insights into the origin of early Cambrian carbonate-hosted Pb-Zn deposits in South China: A case study of the Maliping Pb-Zn deposit. <i>Gondwana Research</i> , 2019 , 70, 88-103	5.1	19	
51	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		19	
50	Late Carboniferous N-MORB-type basalts in central Inner Mongolia, China: Products of hydrous melting in an intraplate setting?. <i>Lithos</i> , 2016 , 261, 55-71	2.9	19	
49	Middle Jurassic MORB-type gabbro, high-Mg diorite, calc-alkaline diorite and granodiorite in the Ando area, central Tibet: Evidence for a slab roll-back of the Bangong-Nujiang Ocean. <i>Lithos</i> , 2016 , 264, 315-328	2.9	19	
48	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	4.8	19	
47	Organic tracers from biomass burning in snow from the coast to the ice sheet summit of East Antarctica. <i>Atmospheric Environment</i> , 2019 , 201, 231-241	5.3	15	
46	Role of deep-Earth water cycling in the growth and evolution of continental crust: Constraints from Cretaceous magmatism in southeast China. <i>Lithos</i> , 2018 , 302-303, 126-141	2.9	15	
45	CeIIId separation by solid-phase micro-extraction and its application to high-precision 142Nd/144Nd measurements using TIMS in geological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 895-902	3.7	15	
44	Identification of ca. 850 Ma high-temperature strongly peraluminous granitoids in southeastern Guizhou Province, South China: A result of early extension along the southern margin of the Yangtze Block. <i>Precambrian Research</i> , 2018 , 308, 18-34	3.9	14	
43	Precise measurement of Cr isotope ratios using a highly sensitive Nb2O5 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	3.7	14	
42	Mesozoic adakites in the Lingqiu Basin of the central North China Craton: Partial melting of underplated basaltic lower crust. <i>Geochemical Journal</i> , 2006 , 40, 447-461	0.9	14	
41	The Role of Earth's Deep Volatile Cycling in the Generation of Intracontinental High-Mg Andesites: Implication for Lithospheric Thinning Beneath the North China Craton. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 1305-1323	3.6	13	
40	1.39 Ga mafic dyke swarm in southwestern Yilgarn Craton marks Nuna to Rodinia transition in the West Australian Craton. <i>Precambrian Research</i> , 2018 , 316, 291-304	3.9	13	
39	Generation of continental intraplate alkali basalts and implications for deep carbon cycle. <i>Earth-Science Reviews</i> , 2020 , 201, 103073	10.2	13	
38	Early differentiation of the bulk silicate Earth as recorded by the oldest mantle reservoir. <i>Precambrian Research</i> , 2013 , 238, 52-60	3.9	11	
37	Pyroxenite-derived Cenozoic basaltic magmatism in central Inner Mongolia, eastern China: Potential contributions from the subduction of the Paleo-Pacific and Paleo-Asian oceanic slabs in the Mantle Transition Zone. <i>Lithos</i> , 2019 , 332-333, 39-54	2.9	11	
36	No plate tectonic shutdown in the early Paleoproterozoic: Constraints from the ca. 2.4 Ga granitoids in the Quanji Massif, NW China. <i>Journal of Asian Earth Sciences</i> , 2019 , 172, 221-242	2.8	11	
35	A Neoproterozoic low-🛮 80 magmatic ring around South China: Implications for configuration and breakup of Rodinia supercontinent. <i>Earth and Planetary Science Letters</i> , 2021 , 575, 117196	5.3	11	

34	Identifying late Carboniferous sanukitoids in Halallate Mountain, Northwest China: new constraint on the closing time of remnant ocean basin in West Junggar. <i>International Geology Review</i> , 2017 , 59, 1116-1130	2.3	10
33	Chemical heterogeneity of the Emeishan mantle plume: Evidence from highly siderophile element abundances in picrites. <i>Journal of Asian Earth Sciences</i> , 2014 , 79, 191-205	2.8	10
32	Detrital record of late-stage silicic volcanism in the Emeishan large igneous province. <i>Gondwana Research</i> , 2020 , 79, 197-208	5.1	10
31	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	7.8	9
30	The 825 Ma Yiyang highMgO basalts of central South China: Insights from OsHfMd data. <i>Chemical Geology</i> , 2018 , 502, 107-121	4.2	9
29	Hydrous parental magmas of Early to Middle Permian gabbroic intrusions in western Inner Mongolia, North China: New constraints on deep-Earth fluid cycling in the Central Asian Orogenic Belt. <i>Journal of Asian Earth Sciences</i> , 2017 , 144, 184-204	2.8	8
28	In situ U-Pb geochronology and geochemistry of a 1.13 Ga mafic dyke suite at Bunger Hills, East Antarctica: The end of the Albany-Fraser Orogeny. <i>Precambrian Research</i> , 2018 , 310, 76-92	3.9	8
27	A low-blank two-column chromatography separation strategy based on a KMnO4 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	3.7	8
26	Petrogenesis of Cretaceous shoshonitic rocks in the northern Wuyi Mountains, South China: A result of the roll-back of a flat-slab?. <i>Lithos</i> , 2017 , 288-289, 125-142	2.9	8
25	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		8
24	Early crustal evolution of the Yangtze Block: Constraints from zircon U-Pb-Hf isotope systematics of 3.1¶.9¶Ga granitoids in the Cuoke Complex, SW China. <i>Precambrian Research</i> , 2021 , 357, 106155	3.9	7
23	Petrogenesis of ca. 830IMa Lushan bimodal volcanic rocks at the southeastern margin of the Yangtze Block, South China: Implications for asthenospheric upwelling and reworking of juvenile crust. <i>Precambrian Research</i> , 2020 , 342, 105673	3.9	6
22	Molybdenum isotopic behavior during intense weathering of basalt on Hainan Island, South China. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 287, 180-204	5.5	6
21	Detrital zircon U-Pb ages and whole-rock geochemistry of early Paleozoic metasedimentary rocks in the Mongolian Altai: Insights into the tectonic affinity of the whole Altai-Mongolian terrane. <i>Bulletin of the Geological Society of America</i> , 2020 , 132, 477-494	3.9	6
20	Do Supercontinent-Superplume Cycles Control the Growth and Evolution of Continental Crust?. <i>Journal of Earth Science (Wuhan, China)</i> , 2020 , 31, 1142-1169	2.2	6
19	Differentiation of the early silicate Earth as recorded by 142 Nd- 143 Nd in 3.8B.0 Ga rocks from the Anshan Complex, North China Craton. <i>Precambrian Research</i> , 2017 , 301, 86-101	3.9	5
18	Decoupling of isotopes between magmatic zircons and their mafic host rocks: A case study from the ca. 830[Ma Jiabang dolerite, South China. <i>Precambrian Research</i> , 2022 , 369, 106519	3.9	5
17	Pyroxene 40Ar/39Ar Dating of Basalt and Applications to Large Igneous Provinces and Precambrian Stratigraphic Correlations. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 8313-8330	3.6	4

LIST OF PUBLICATIONS

16	Geochemical and SrNd isotopic variations in a deep-sea sediment core from Eastern Indian Ocean: Constraints on dust provenances, paleoclimate and volcanic eruption history in the last 300,000 years. <i>Marine Geology</i> , 2015 , 367, 38-49	3.3	4
15	The South China piece in the Rodinian puzzle: A reply to the comment by Munteanu and Wilson. <i>Precambrian Research</i> , 2009 , 171, 77-79	3.9	4
14	Generation of Late Cretaceous Jilln basalts through asthenosphere-slab interaction in South China. <i>Bulletin of the Geological Society of America</i> , 2020 , 132, 1316-1332	3.9	4
13	Miocene adakites in south Tibet: Partial melting of the thickened Lhasa juvenile mafic lower crust with the involvement of ancient Indian continental crust compositions. <i>Bulletin of the Geological Society of America</i> , 2020 , 132, 1273-1290	3.9	3
12	Derivation of Jurassic HIMU-like intraplate basalts from mantle transition zone in South China: New geochemical constraints from olivine-hosted melt inclusion. <i>Lithos</i> , 2020 , 354-355, 105337	2.9	3
11	Long-lived low Th/U Pacific-type isotopic mantle domain: Constraints from Nd and Pb isotopes of the Paleo-Asian Ocean mantle. <i>Earth and Planetary Science Letters</i> , 2021 , 567, 117006	5.3	3
10	Direct Rubidium-Strontium Dating of Hydrocarbon Charge Using Small Authigenic Illitic Clay Aliquots from the Silurian Bituminous Sandstone in the Tarim Basin, NW China. <i>Scientific Reports</i> , 2019 , 9, 12565	4.9	2
9	Zircon U-Pb ages of olivine pyroxenite xenolith from Hannuoba: Links between the 97?158 Ma basaltic under-plating and granulite-facies metamorphism. <i>Science Bulletin</i> , 2004 , 49, 1055		2
8	Decoupling between Oxygen and Radiogenic Isotopes: Evidence for Generation of Juvenile Continental Crust by Partial Melting of Subducted Oceanic Crust. <i>Journal of Earth Science (Wuhan, China)</i> , 2021 , 32, 1212-1225	2.2	2
7	Comment on B ehavior of Re and Os during contact between an aqueous solution and oil: Consequences for the application of the ReDs geochronometer to petroleum[Geochim. Cosmochim. Acta 158 (2015) 101]. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 186, 344-347	5.5	2
6	Dating mafic magmatism by integrating baddeleyite, zircon and apatite UPb geochronology: A case study of Proterozoic mafic dykes/sills in the North China Craton. <i>Lithos</i> , 2021 , 380-381, 105820	2.9	2
5	First Direct Dating of Alteration of Paleo-Oil Pools Using Rubidium-Strontium Pyrite Geochronology. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 606	2.4	1
4	Tracing mantle sources in the northern Lau back-arc basin by independent component analysis of basalt isotopic compositions. <i>International Geology Review</i> , 2020 , 62, 938-954	2.3	1
3	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	2.2	О
2	Styles of Trench-parallel Mid-ocean Ridge Subduction Affect Cenozoic Geological Evolution in circum-Pacific Continental Margins. <i>Geophysical Research Letters</i> ,	4.9	O
1	Reply to the comment on: B etrogenesis of cretaceous shoshonitic rocks in the northern Wuyi Mountains, South China: A result of the roll-back of a flat-slab? Iby Tian and Wang (2020). <i>Lithos</i> , 2020 , 366-367, 105563	2.9	