

# Ru-cheng Wang

## List of Publications by Year in descending order

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76  
papers

2,278  
citations

257450

24  
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223800

46  
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79  
docs citations

79  
times ranked

1622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detrital zircon geochronology of Precambrian basement sequences in the Jiangnan orogen: Dating the assembly of the Yangtze and Cathaysia Blocks. <i>Precambrian Research</i> , 2007, 159, 117-131.	2.7	554
2	Multiple-aged granitoids and related tungsten-tin mineralization in the Nanling Range, South China. <i>Science China Earth Sciences</i> , 2013, 56, 2045-2055.	5.2	136
3	A preliminary study of rare-metal mineralization in the Himalayan leucogranite belts, South Tibet. <i>Science China Earth Sciences</i> , 2017, 60, 1655-1663.	5.2	79
4	Mineralogical evidence for magmatic and hydrothermal processes in the Qitianling oxidized tin-bearing granite (Hunan, South China): EMP and (MC)-LA-ICPMS investigations of three types of titanite. <i>Chemical Geology</i> , 2010, 276, 53-68.	3.3	77
5	Felsic volcanism as a factor driving the end-Permian mass extinction. <i>Science Advances</i> , 2021, 7, eabh1390.	10.3	63
6	Comparison of fluid processes in coexisting wolframite and quartz from a giant vein-type tungsten deposit, South China: Insights from detailed petrography and LA-ICP-MS analysis of fluid inclusions. <i>American Mineralogist</i> , 2019, 104, 1092-1116.	1.9	60
7	Episodic Nb-Ta mineralisation in South China: Constraints from in situ LA-ICP-MS columbite-tantalite U-Pb dating. <i>Ore Geology Reviews</i> , 2019, 105, 71-85.	2.7	58
8	High-pressure minerals in eucrite suggest a small source crater on Vesta. <i>Scientific Reports</i> , 2016, 6, 26063.	3.3	57
9	Two subgroups of A-type granites in the coastal area of Zhejiang and Fujian Provinces, SE China: age and geochemical constraints on their petrogenesis. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2004, 95, 227-236.	0.3	56
10	Zircon U-Pb geochronological framework of Qitianling granite batholith, middle part of Nanling Range, South China. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1279-1294.	0.9	55
11	Geochronological and geochemical constraints on the petrogenesis and geodynamic setting of the Qianlishan granitic pluton, Southeast China. <i>Mineralogy and Petrology</i> , 2015, 109, 253-282.	1.1	53
12	Molecular dynamics insight into the cointercalation of hexadecyltrimethyl-ammonium and acetate ions into smectites. <i>American Mineralogist</i> , 2009, 94, 143-150.	1.9	49
13	The ore-forming magmatic-hydrothermal system of the Piaotang W-Sn deposit (Jiangxi, China) as seen from Li-mica geochemistry. <i>American Mineralogist</i> , 2018, 103, 39-54.	1.9	44
14	Tracking magmatic and hydrothermal Nb-Ta-W-Sn fractionation using mineral textures and composition: A case study from the late Cretaceous Jiepailing ore district in the Nanling Range in South China. <i>Ore Geology Reviews</i> , 2016, 78, 300-321.	2.7	42
15	Spodumene pegmatites from the Pusila pluton in the higher Himalaya, South Tibet: Lithium mineralization in a highly fractionated leucogranite batholith. <i>Lithos</i> , 2020, 358-359, 105421.	1.4	41
16	A combined EMPA and LA-ICP-MS study of Li-bearing mica and Sn-Ti oxide minerals from the Qiguling topaz rhyolite (Qitianling District, China): The role of fluorine in origin of tin mineralization. <i>Ore Geology Reviews</i> , 2015, 65, 779-792.	2.7	39
17	Secondary minerals of weathered orpiment-realgar-bearing tailings in Shimen carbonate-type realgar mine, Changde, Central China. <i>Mineralogy and Petrology</i> , 2015, 109, 1-15.	1.1	38
18	A new style of rare metal granite with Nb-rich mica: The Early Cretaceous Huangshan rare-metal granite suite, northeast Jiangxi Province, southeast China. <i>American Mineralogist</i> , 2018, 103, 1530-1544.	1.9	37

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19	Differentiated rare-element mineralization in an ongoniteâ€“topazite composite dike at the Xianghualing tin district, Southern China: An electron-microprobe study on the evolution from niobiumâ€“tantalum-oxides to cassiterite. <i>Ore Geology Reviews</i> , 2015, 65, 761-778.	2.7	33
20	Skarn-type tungsten mineralization associated with the Caledonian (Silurian) Niutangjie granite, northern Guangxi, China. <i>Science China Earth Sciences</i> , 2014, 57, 1551-1566.	5.2	31
21	Cadmium(II) Complexes Adsorbed on Clay Edge Surfaces: Insight from First Principles Molecular Dynamics Simulation. <i>Clays and Clay Minerals</i> , 2016, 64, 337-347.	1.3	31
22	A study on the Dushiling tungsten-copper deposit in the Miaoâ€™ershan-Yuechengling area, Northern Guangxi, China: Implications for variations in the mineralization of multi-aged composite granite plutons. <i>Science China Earth Sciences</i> , 2016, 59, 2121-2141.	5.2	29
23	Bioleaching of chalcopyrite by <i>Acidithiobacillus ferrooxidans</i> . <i>Minerals Engineering</i> , 2013, 53, 184-192.	4.3	28
24	Sulfur Transformation in Microbially Mediated Pyrite Oxidation by <i>Acidithiobacillus ferrooxidans</i> : Insights From X-ray Photoelectron Spectroscopy-Based Quantitative Depth Profiling. <i>Geomicrobiology Journal</i> , 2016, 33, 118-134.	2.0	28
25	Petrogenetic differences between the Middle-Late Jurassic Cu-Pb-Zn-bearing and W-bearing granites in the Nanling Range, South China: A case study of the Tongshanling and Weijia deposits in southern Hunan Province. <i>Science China Earth Sciences</i> , 2017, 60, 1220-1236.	5.2	27
26	Understanding the Heterogeneous Nucleation of Heavy Metal Phyllosilicates on Clay Edges with First-Principles Molecular Dynamics. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13704-13712.	10.0	25
27	Diversity of Mesozoic tin-bearing granites in the Nanling and adjacent regions, South China: Distinctive mineralogical patterns. <i>Science China Earth Sciences</i> , 2017, 60, 1909-1919.	5.2	23
28	A tin-mineralized topaz rhyolite dike with coeval topaz granite enclaves at Qiguling in the Qitianling tin district, southern China. <i>Lithos</i> , 2013, 170-171, 252-268.	1.4	21
29	Experimental Constraints on Intensive Crystallization Parameters and Fractionation in A-Type Granites: A Case Study on the Qitianling Pluton, South China. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10132-10152.	3.4	20
30	Tolerance and Biosorption of Heavy Metals by <i>Cupriavidus metallidurans</i> strain XXXD-1 Isolated from a Subsurface Laneway in the Qixiashan Pb-Zn Sulfide Mine in Eastern China. <i>Geomicrobiology Journal</i> , 2012, 29, 274-286.	2.0	19
31	Timing of hydrothermal activity associated with the Douzhashan uranium-bearing granite and its significance for uranium mineralization in northeastern Guangxi, China. <i>Science Bulletin</i> , 2013, 58, 4319-4328.	1.7	19
32	Mineralogical characteristics of unusual black talc ores in Guangfeng County, Jiangxi Province, China. <i>Applied Clay Science</i> , 2013, 74, 37-46.	5.2	19
33	Yttrium zoning in garnet from the Xihuashan granitic complex and its petrological implications. <i>Science Bulletin</i> , 2003, 48, 1611-1615.	1.7	18
34	Zircon U-Pb dating confirms existence of a Caledonian scheelite-bearing aplitic vein in the Penggongmiao granite batholith, South Hunan. <i>Science Bulletin</i> , 2011, 56, 2031-2036.	1.7	18
35	Molecular simulation study on K+â€“Clâˆ’ ion pair in geological fluids. <i>Acta Geochimica</i> , 2017, 36, 1-8.	1.7	18
36	Neoproterozoic mineralization in a hydrothermal cassiterite-sulfide deposit at Jiumao, northern Guangxi, South China: Mineral-scale constraints on metal origins and ore-forming processes. <i>Ore Geology Reviews</i> , 2018, 94, 172-192.	2.7	18

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37	Incremental Emplacement of the Late Jurassic Midcrustal, Lopolithic Qitianling Pluton, South China, Revealed by AMS and Bouguer Gravity Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9249-9268.	3.4	17
38	Generation of lithium-bearing pegmatite deposits within the Songpan-Ganze orogenic belt, East Tibet. <i>Lithos</i> , 2020, 354-355, 105281.	1.4	17
39	Young asteroidal fluid activity revealed by absolute age from apatite in carbonaceous chondrite. <i>Nature Communications</i> , 2016, 7, 12844.	12.8	15
40	First-Principles Molecular Dynamics Insight into Fe <sup>2+</sup> Complexes Adsorbed on Edge Surfaces of Clay Minerals. <i>Clays and Clay Minerals</i> , 2012, 60, 341-347.	1.3	14
41	Strontiohurlbutite, SrBe <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> , a new mineral from Nanping No. 31 pegmatite, Fujian Province, Southeastern China. <i>American Mineralogist</i> , 2014, 99, 494-499.	1.9	14
42	Acidity constants and redox potentials of uranyl ions in hydrothermal solutions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26040-26048.	2.8	13
43	Study of the minerogenetic mechanism and origin of Qinghai nephrite from Golmud, Qinghai, Northwest China. <i>Science China Earth Sciences</i> , 2016, 59, 1597-1609.	5.2	13
44	Primary Sn-rich titanite in the Qitianling granite, Hunan Province, southern China: An important type of tin-bearing mineral and its implications for tin exploration. <i>Science Bulletin</i> , 2009, 54, 798-805.	9.0	12
45	Molecular Dynamics Study of Fe-Containing Smectites. <i>Clays and Clay Minerals</i> , 2010, 58, 89-96.	1.3	12
46	Mineralogy and geochemistry of the newly discovered Late Mesozoic granite-pegmatite and associated Sn-Nb-Ta-Be mineralization in the Miao'ershan-Yuechengling composite batholith, northern Guangxi, South China. <i>Journal of Asian Earth Sciences</i> , 2020, 190, 104149.	2.3	12
47	Petrogenesis of the concealed Daqing intrusion in Guangxi and its tectonic significance: Constraints from geochemistry, zircon U-Pb dating and Nd-Hf isotopic compositions. <i>Science China Earth Sciences</i> , 2014, 57, 1723-1740.	5.2	11
48	Differentiation and accumulation of fluids in A-type granites: Evidence from accessory mineral study. <i>Science Bulletin</i> , 2000, 45, 1609-1613.	1.7	10
49	Petrogenesis and shock metamorphism of the enriched ilmenitic shergottite Northwest Africa 7755. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2437-2457.	1.6	10
50	Early Cretaceous tectonomagmatic evolution and basin development of western Bangong-Nujiang suture: A complete history of soft collision. <i>Lithos</i> , 2019, 344-345, 360-373.	1.4	10
51	Li and B isotopic fractionation at the magmatic-hydrothermal transition of highly evolved granites. <i>Lithos</i> , 2020, 376-377, 105753.	1.4	10
52	Sr-rich apatite from the Dangzishan leucitite-ijolite xenoliths (Heilongjiang Province): Mineralogy and mantle-fluid metasomatism. <i>Science Bulletin</i> , 2011, 56, 53-63.	1.7	9
53	Uranyl Arsenate Complexes in Aqueous Solution: Insights from First-Principles Molecular Dynamics Simulations. <i>Inorganic Chemistry</i> , 2018, 57, 5801-5809.	4.0	9
54	Th-rich zircon from peralkali A-type granite: Mineralogical features and petrological implications. <i>Science Bulletin</i> , 2005, 50, 809-817.	1.7	8

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55	Formation of phosphorus-rich olivine in Dar al Gani 978 carbonaceous chondrite through fluid-assisted metamorphism. <i>American Mineralogist</i> , 2017, 102, 98-107.	1.9	8
56	A New Potential Caledonian-Indosinian Ore Concentration Area: Evidence from Diagenesis and Mineralization Ages of the Miao'ershan-Yuechengling Region. <i>Acta Geologica Sinica</i> , 2017, 91, 743-744.	1.4	8
57	Roles of adhered <i>Paenibacillus polymyxa</i> in the dissolution and flotation of bauxite: a dialytic investigation. <i>Frontiers of Earth Science</i> , 2010, 4, 167-173.	0.5	7
58	Anorthite dissolution promoted by bacterial adhesion: Direct evidence from dialytic experiment. <i>Science China Earth Sciences</i> , 2011, 54, 204-211.	5.2	7
59	Color-inducing elements and mechanisms in nephrites from Golmud, Qinghai, NW China: Insights from spectroscopic and compositional analyses. <i>Journal of Mineralogical and Petrological Sciences</i> , 2016, 111, 313-325.	0.9	7
60	Structures and Acidity Constants of Silver-Sulfide Complexes in Hydrothermal Fluids: A First-Principles Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8435-8443.	2.5	6
61	Interstratification of graphene-like carbon layers within black talc from Southeastern China: Implications to sedimentary talc formation. <i>American Mineralogist</i> , 2016, 101, 1668-1678.	1.9	6
62	Petrogenesis of Nb-Ta aplo-pegmatites and fine-grained granites from the Early Cretaceous Huangshan rare-metal granite suite, northeast Jiangxi Province, southeast China. <i>Lithos</i> , 2019, 346-347, 105150.	1.4	6
63	Three-Dimensional P-wave Velocity Structure of the Zhuxi Ore Deposit, South China Revealed by Control-Source First-Arrival Tomography. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 148.	2.0	6
64	Redox potentials of aryl derivatives from hybrid functional based first principles molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14911-14917.	2.8	4
65	Mengxianminite (Ca <sub>2</sub> Sn <sub>2</sub> Mg <sub>3</sub> Al <sub>8</sub> [(BO <sub>3</sub> )(BeO <sub>4</sub> )O <sub>6</sub> ] <sub>2</sub> ) a new borate mineral from Xianghualing skarn, Hunan Province, China, with a highly unusual chemical combination (B + Be + Sn). <i>American Mineralogist</i> , 2017, 102, 2136-2141.	1.9	4
66	Highly Zn, Mn-rich calcite in calcareous tufa from the Qixiashan Pb-Zn Mine, Nanjing: a possible candidate for Zn-Mn removal from mining impacted waters. <i>Science Bulletin</i> , 2009, 54, 1376-1383.	9.0	3
67	Pb-rich sulfide phase in CM chondrites: Constraints on its origin on the CM parent body. <i>Meteoritics and Planetary Science</i> , 2016, 51, 56-69.	1.6	3
68	An example of high- <i>T</i> , high-symmetry crystallization: Spherical (Mg,Fe)-oxides formed by particle attachment in the shocked martian meteorite Northwest Africa 7755. <i>American Mineralogist</i> , 2019, 104, 150-157.	1.9	3
69	Anionic effect on nanostructure and morphology of bio-schwertmannite dynamically produced within cellular reproduction. <i>Nanomaterials and Nanotechnology</i> , 2020, 10, 184798042095755.	3.0	3
70	Precise and accurate Lu-Hf isotope analysis of columbite-group minerals by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1643-1656.	3.0	3
71	Geochronology and geochemistry of the PiaOac granites: Implication for Late Cretaceous magmatism and metallogeny in NE Vietnam. <i>Ore Geology Reviews</i> , 2022, 142, 104727.	2.7	3
72	Granites: Origin and associated mineralization. <i>Science China Earth Sciences</i> , 2018, 61, 1932-1933.	5.2	2

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73	Mineralogy and Geochemistry of Sr-Bearing Phosphates from the Nanping No. 31 Pegmatite (SE China): Implications for Sr Circulation and Post-Magmatic Processes in Granitic Systems. Minerals (Basel), 11, 1-14. 2021. 10.3390/min11040144	10.784	14
74	Granites: From felsic rocks to the recorder of continental evolution. Science China Earth Sciences, 2015, 58, 2353-2354.	5.2	1
75	Genesis of Halloysite from the Weathering of Muscovite: Insights from Microscopic Observations of a Weathered Granite in the Gaoling Area, Jingdezhen, China. Applied Clay Science, 2015, 114, 422.	5.2	0
76	A molecular simulation study of Cs-Cl and Cs-F ion pairs in hydrothermal fluids. Acta Geochimica, 0, , 1.	1.7	0