

# Ren-Xu Chen

## List of Publications by Year in descending order

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51  
papers

3,109  
citations

159358

30  
h-index

189595

50  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial melting, fluid supercriticality and element mobility in ultrahigh-pressure metamorphic rocks during continental collision. <i>Earth-Science Reviews</i> , 2011, 107, 342-374.	4.0	315
2	Chemical geodynamics of continental subduction-zone metamorphism: Insights from studies of the Chinese Continental Scientific Drilling (CCSD) core samples. <i>Tectonophysics</i> , 2009, 475, 327-358.	0.9	299
3	Metamorphic growth and recrystallization of zircon: Distinction by simultaneous in-situ analyses of trace elements, U <sup>235</sup> -Th <sup>232</sup> -Pb and Lu <sup>176</sup> -Hf isotopes in zircons from eclogite-facies rocks in the Sulu orogen. <i>Lithos</i> , 2010, 114, 132-154.	0.6	229
4	The transport of water in subduction zones. <i>Science China Earth Sciences</i> , 2016, 59, 651-682.	2.3	194
5	Regional metamorphism at extreme conditions: Implications for orogeny at convergent plate margins. <i>Journal of Asian Earth Sciences</i> , 2017, 145, 46-73.	1.0	142
6	Element mobility in mafic and felsic ultrahigh-pressure metamorphic rocks during continental collision. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5244-5266.	1.6	140
7	TC/EA-MS online determination of hydrogen isotope composition and water concentration in eclogitic garnet. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 687-698.	0.3	110
8	Metamorphic growth and recrystallization of zircons in extremely 18O-depleted rocks during eclogite-facies metamorphism: Evidence from U <sup>235</sup> -Pb ages, trace elements, and O <sup>18</sup> -Hf isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4877-4898.	1.6	110
9	Tectonic driving of Neoproterozoic glaciations: Evidence from extreme oxygen isotope signature of meteoric water in granite. <i>Earth and Planetary Science Letters</i> , 2007, 256, 196-210.	1.8	105
10	Origin of retrograde fluid in ultrahigh-pressure metamorphic rocks: Constraints from mineral hydrogen isotope and water content changes in eclogite-gneiss transitions in the Sulu orogen. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2299-2325.	1.6	102
11	Ultrahigh-pressure metamorphic rocks in the Dabie-Sulu orogenic belt: compositional inheritance and metamorphic modification. <i>Geological Society Special Publication</i> , 2019, 474, 89-132.	0.8	89
12	Zircon U <sup>235</sup> -Pb age and Hf isotope evidence for contrasting origin of bimodal protoliths for ultrahigh-pressure metamorphic rocks from the Chinese Continental Scientific Drilling project. <i>Journal of Metamorphic Geology</i> , 2007, 25, 873-894.	1.6	85
13	Zr-in-rutile thermometry of eclogite in the Dabie orogen: Constraints on rutile growth during continental subduction-zone metamorphism. <i>Journal of Asian Earth Sciences</i> , 2011, 40, 427-451.	1.0	77
14	Metamorphic zirconology of continental subduction zones. <i>Journal of Asian Earth Sciences</i> , 2017, 145, 149-176.	1.0	77
15	The tectonic transition from oceanic subduction to continental subduction: Zirconological constraints from two types of eclogites in the North Qaidam orogen, northern Tibet. <i>Lithos</i> , 2016, 244, 122-139.	0.6	63
16	Mineral hydrogen isotopes and water contents in ultrahigh-pressure metabasite and metagranite: Constraints on fluid flow during continental subduction-zone metamorphism. <i>Chemical Geology</i> , 2011, 281, 103-124.	1.4	49
17	Multiple episodes of anatexis in a collisional orogen: Zircon evidence from migmatite in the Dabie orogen. <i>Lithos</i> , 2015, 212-215, 247-265.	0.6	49
18	The crust-mantle interaction in continental subduction channels: Zircon evidence from orogenic peridotite in the Sulu orogen. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 687-712.	1.4	49

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19	Oxygen isotope geochemistry of ultrahigh-pressure metamorphic rocks from 200–4000 m core samples of the Chinese Continental Scientific Drilling. <i>Chemical Geology</i> , 2007, 242, 51-75.	1.4	48
20	Episodic fluid action during exhumation of deeply subducted continental crust: Geochemical constraints from zoisite–quartz vein and host metabasite in the Dabie orogen. <i>Lithos</i> , 2012, 155, 146-166.	0.6	45
21	Partial melting of deeply subducted continental crust during exhumation: insights from felsic veins and host UHP metamorphic rocks in North Qaidam, northern Tibet. <i>Journal of Metamorphic Geology</i> , 2015, 33, 671-694.	1.6	45
22	Fluid action on zircon growth and recrystallization during quartz veining within UHP eclogite: Insights from U–Pb ages, O–Hf isotopes and trace elements. <i>Lithos</i> , 2012, 136-139, 126-144.	0.6	43
23	Mineral oxygen isotope and hydroxyl content changes in ultrahigh-pressure eclogite–gneiss contacts from Chinese Continental Scientific Drilling Project cores. <i>Journal of Metamorphic Geology</i> , 2007, 25, 165-186.	1.6	42
24	Multistage growth of garnet in ultrahigh-pressure eclogite during continental collision in the Dabie orogen: Constrained by trace elements and U–Pb ages. <i>Lithos</i> , 2011, 127, 101-127.	0.6	42
25	An online method combining a thermal conversion elemental analyzer with isotope ratio mass spectrometry for the determination of hydrogen isotope composition and water concentration in geological samples. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1386-1392.	0.7	40
26	Zirconological tracing of transition between aqueous fluid and hydrous melt in the crust: Constraints from pegmatite vein and host gneiss in the Sulu orogen. <i>Lithos</i> , 2013, 162-163, 157-174.	0.6	40
27	Whole-rock and zircon geochemical distinction between oceanic- and continental-type eclogites in the North Qaidam orogen, northern Tibet. <i>Gondwana Research</i> , 2017, 44, 67-88.	3.0	40
28	Tectonic evolution from oceanic subduction to continental collision during the closure of Paleotethyan ocean: Geochronological and geochemical constraints from metamorphic rocks in the Hong'an orogen. <i>Gondwana Research</i> , 2015, 28, 348-370.	3.0	39
29	Extreme metamorphism and metamorphic facies series at convergent plate boundaries: Implications for supercontinent dynamics. , 2021, 17, 1647-1685.		39
30	Tectonic evolution of convergent plate margins and its geological effects. <i>Science China Earth Sciences</i> , 2022, 65, 1247-1276.	2.3	37
31	Geochemical constraints on the protoliths of eclogites and blueschists from North Qilian, northern Tibet. <i>Chemical Geology</i> , 2016, 421, 26-43.	1.4	32
32	Dehydration and anatexis of UHP metagranite during continental collision in the Sulu orogen. <i>Journal of Metamorphic Geology</i> , 2014, 32, 915-936.	1.6	30
33	Crust–Mantle Interaction in a Continental Subduction Channel: Evidence from Orogenic Peridotites in North Qaidam, Northern Tibet. <i>Journal of Petrology</i> , 2017, 58, 191-226.	1.1	30
34	Two episodes of partial melting in ultrahigh-pressure migmatites from deeply subducted continental crust in the Sulu orogen, China. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 1521-1542.	1.6	28
35	Geochronology and Stable Isotope Geochemistry of UHP Metamorphic Rocks at Taohang in the Sulu Orogen, East-Central China. <i>International Geology Review</i> , 2007, 49, 259-286.	1.1	24
36	Distribution, cycling and impact of water in the Earth's interior. <i>National Science Review</i> , 2017, 4, 879-891.	4.6	21

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37	Crustal Metasomatism at the Slab-Mantle Interface in a Continental Subduction Channel: Geochemical Evidence From Orogenic Peridotite in the Sulu Orogen. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2174-2198.	1.4	21
38	Garnet geochemistry records the action of metamorphic fluids in ultrahigh-pressure dioritic gneiss from the Sulu orogen. <i>Chemical Geology</i> , 2015, 398, 46-60.	1.4	20
39	Water contents and hydrogen isotopes in nominally anhydrous minerals from UHP metamorphic rocks in the Dabie-Sulu orogenic belt. <i>Science Bulletin</i> , 2013, 58, 4384-4389.	1.7	19
40	Fluid-rock interaction and geochemical transport during protolith emplacement and continental collision: A tale from Qinglongshan ultrahigh-pressure metamorphic rocks in the Sulu orogen. <i>Numerische Mathematik</i> , 2014, 314, 357-399.	0.7	18
41	Granulites record the tectonic evolution from collisional thickening to extensional thinning of the Tongbai orogen in central China. <i>Journal of Metamorphic Geology</i> , 2020, 38, 265-295.	1.6	17
42	The composition of garnet in granite and pegmatite from the Gangdese orogen in southeastern Tibet: Constraints on pegmatite petrogenesis. <i>American Mineralogist</i> , 2021, 106, 265-281.	0.9	12
43	Geochemical evidence from coesite-bearing jadeite quartzites for large-scale flow of metamorphic fluids in a continental subduction channel. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 354-370.	1.6	10
44	Water in garnet pyroxenite from the Sulu orogen: Implications for crust-mantle interaction in continental subduction zone. <i>Chemical Geology</i> , 2018, 478, 18-38.	1.4	9
45	Peritectic minerals record partial melting of the deeply subducted continental crust in the Sulu orogen. <i>Journal of Metamorphic Geology</i> , 2022, 40, 87-120.	1.6	8
46	Isotopic disequilibrium in ultrahigh-pressure and retrograde metamorphism of eclogite and gneiss from the Chinese Continental Scientific Drilling in the Sulu orogen, China: evidence from mineral Nd-Sr-O isotopic composition. <i>International Journal of Earth Sciences</i> , 2010, 99, 727-743.	0.9	6
47	Evolution of serpentinite from seafloor hydration to subduction zone metamorphism: Petrology and geochemistry of serpentinite from the ultrahigh pressure North Qaidam orogen in northern Tibet. <i>Lithos</i> , 2019, 346-347, 105158.	0.6	6
48	Fluid-present and fluid-absent melting of muscovite in migmatites in the Himalayan orogen: Constraints from major and trace element zoning and phase equilibrium relationships. <i>Lithos</i> , 2021, 388-389, 106071.	0.6	5
49	æ±†èšæŷâ-è³/4¹ç¼~æž,,é€æ¼”âCE-âšâ...¶âœ°è~æ•â²”. <i>SCIENTIA SINICA Terrae</i> , 2022, 52, 1213-1242.	0.1	5
50	Contrasting zircon and garnet behaviors during metamorphic transformation from eclogite to granulite facies: Constraints from orogenic metabasites from North Qaidam in northern Tibet. <i>Journal of Asian Earth Sciences</i> , 2021, 220, 104924.	1.0	2
51	Elevation of zircon Hf isotope ratios during crustal anatexis: Evidence from migmatites close to the eastern Himalayan syntaxis in southeastern Tibet. <i>Lithos</i> , 2022, 412-413, 106592.	0.6	2