

Ren-Xu Chen

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49
papers

2,428
citations

28
h-index

49
g-index

52
ext. papers

2,781
ext. citations

3.8
avg, IF

5.3
L-index

#	Paper	IF	Citations
49	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	3.1	260
48	Partial melting, fluid supercriticality and element mobility in ultrahigh-pressure metamorphic rocks during continental collision. <i>Earth-Science Reviews</i> , 2011 , 107, 342-374	10.2	258
47	Metamorphic growth and recrystallization of zircon: Distinction by simultaneous in-situ analyses of trace elements, U Th Pb and Lu/Hf isotopes in zircons from eclogite-facies rocks in the Sulu orogen. <i>Lithos</i> , 2010 , 114, 132-154	2.9	202
46	The transport of water in subduction zones. <i>Science China Earth Sciences</i> , 2016 , 59, 651-682	4.6	148
45	Element mobility in mafic and felsic ultrahigh-pressure metamorphic rocks during continental collision. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 5244-5266	5.5	125
44	Metamorphic growth and recrystallization of zircons in extremely 18O-depleted rocks during eclogite-facies metamorphism: Evidence from U ^{Pb} ages, trace elements, and O ^{Hf} isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 4877-4898	5.5	95
43	Regional metamorphism at extreme conditions: Implications for orogeny at convergent plate margins. <i>Journal of Asian Earth Sciences</i> , 2017 , 145, 46-73	2.8	91
42	Origin of retrograde fluid in ultrahigh-pressure metamorphic rocks: Constraints from mineral hydrogen isotope and water content changes in eclogitegneiss transitions in the Sulu orogen. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 2299-2325	5.5	91
41	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	5.3	90
40	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	1.6	85
39	Zircon U ^{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	4.4	74
38	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	2.8	67
37	Metamorphic zirconology of continental subduction zones. <i>Journal of Asian Earth Sciences</i> , 2017 , 145, 149-176	2.8	52
36	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	2.9	48
35	Ultrahigh-pressure metamorphic rocks in the Dabie-Bulu orogenic belt: compositional inheritance and metamorphic modification. <i>Geological Society Special Publication</i> , 2019 , 474, 89-132	1.7	45
34	Oxygen isotope geochemistry of ultrahigh-pressure metamorphic rocks from 2000m core samples of the Chinese Continental Scientific Drilling. <i>Chemical Geology</i> , 2007 , 242, 51-75	4.2	45
33	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	4.2	44

32	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	4.4	41
31	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	2.9	40
30	Multiple episodes of anatexis in a collisional orogen: Zircon evidence from migmatite in the Dabie orogen. <i>Lithos</i> , 2015 , 212-215, 247-265	2.9	36
29	Fluid action on zircon growth and recrystallization during quartz veining within UHP eclogite: Insights from U-Pb ages, O-18 isotopes and trace elements. <i>Lithos</i> , 2012 , 136-139, 126-144	2.9	36
28	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	4.4	36
27	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	2.9	35
26	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	2.9	34
25	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	3.6	34
24	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	5.1	33
23	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, 1386-92	2.2	30
22	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	5.1	29
21	Geochemical constraints on the protoliths of eclogites and blueschists from North Qilian, northern Tibet. <i>Chemical Geology</i> , 2016 , 421, 26-43	4.2	25
20	Dehydration and anatexis of UHP metagranite during continental collision in the Sulu orogen. <i>Journal of Metamorphic Geology</i> , 2014 , 32, 915-936	4.4	25
19	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	3.9	22
18	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	2.3	21
17	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	3.9	18
16	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	4.2	17
15	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	5.3	15

14 Distribution, cycling and impact of water in the Earth's interior. *National Science Review*, **2017**, 4, 879-891. 10.8 15

13 Water contents and hydrogen isotopes in nominally anhydrous minerals from UHP metamorphic rocks in the Dabie-Sulu orogenic belt. *Science Bulletin*, **2013**, 58, 4384-4389 13

12 Crustal Metasomatism at the Slab-Mantle Interface in a Continental Subduction Channel: Geochemical Evidence From Orogenic Peridotite in the Sulu Orogen. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 2174-2198 3.6 11

11 Water in garnet pyroxenite from the Sulu orogen: Implications for crust-mantle interaction in continental subduction zone. *Chemical Geology*, **2018**, 478, 18-38 4.2 8

10 Granulites record the tectonic evolution from collisional thickening to extensional thinning of the Tongbai orogen in central China. *Journal of Metamorphic Geology*, **2020**, 38, 265-295 4.4 7

9 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/Bt isotopic composition. *International Journal of Earth Sciences*, **2010**, 99, 727-743 2.2 6

8 Extreme metamorphism and metamorphic facies series at convergent plate boundaries: Implications for supercontinent dynamics 6

7 Geochemical evidence from coesite-bearing jadeite quartzites for large-scale flow of metamorphic fluids in a continental subduction channel. *Geochimica Et Cosmochimica Acta*, **2019**, 265, 354-370 5.5 4

6 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. *Lithos*, **2019**, 346-347, 105158 2.9 3

5 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. *Lithos*, **2021**, 388-389, 106071 2.9 2

4 Peritectic minerals record partial melting of the deeply subducted continental crust in the Sulu orogen. *Journal of Metamorphic Geology*, 4.4 2

3 The composition of garnet in granite and pegmatite from the Gangdese orogen in southeastern Tibet: Constraints on pegmatite petrogenesis. *American Mineralogist*, **2021**, 106, 265-281 2.9 2

2 Elevation of zircon Hf isotope ratios during crustal anatexis: Evidence from migmatites close to the eastern Himalayan syntaxis in southeastern Tibet. *Lithos*, **2022**, 412-413, 106592 2.9 1

1 Contrasting zircon and garnet behaviors during metamorphic transformation from eclogite to granulite facies: Constraints from orogenic metabasites from North Qaidam in northern Tibet. *Journal of Asian Earth Sciences*, **2021**, 220, 104924 2.8