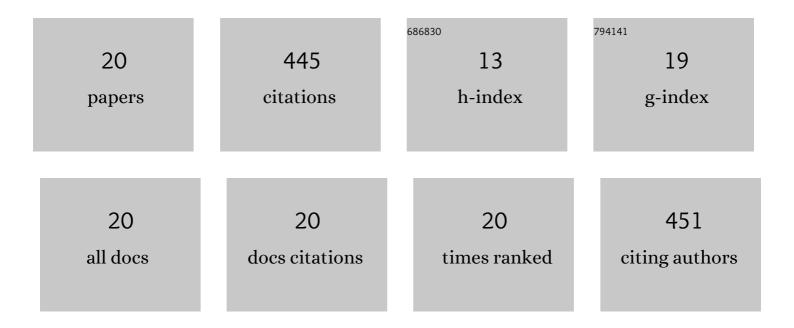
Renbiao Tao

List of Publications by Year in descending order

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Ρενβίλο Τλο

#	Article	IF	CITATIONS
1	Cold deep subduction recorded by remnants of a Paleoproterozoic carbonated slab. Nature Communications, 2018, 9, 2790.	5.8	75
2	Formation of abiotic hydrocarbon from reduction of carbonate in subduction zones: Constraints from petrological observation and experimental simulation. Geochimica Et Cosmochimica Acta, 2018, 239, 390-408.	1.6	70
3	Experimental determination of siderite stability at high pressure. American Mineralogist, 2013, 98, 1565-1572.	0.9	43
4	Recovery of an oxidized majorite inclusion from Earth's deep asthenosphere. Science Advances, 2017, 3, e1601589.	4.7	33
5	The effect of Fe on the stability of dolomite at high pressure: Experimental study and petrological observation in eclogite from southwestern Tianshan, China. Geochimica Et Cosmochimica Acta, 2014, 143, 253-267.	1.6	32
6	Significant contrast in the Mg-C-O isotopes of carbonate between carbonated eclogite and marble from the S.W. Tianshan UHP subduction zone: Evidence for two sources of recycled carbon. Chemical Geology, 2018, 483, 65-77.	1.4	26
7	Temperature-induced amorphization in CaCO3 at high pressure and implications for recycled CaCO3 in subduction zones. Nature Communications, 2019, 10, 1963.	5.8	24
8	A Review of H2, CH4, and Hydrocarbon Formation in Experimental Serpentinization Using Network Analysis. Frontiers in Earth Science, 2020, 8, .	0.8	24
9	Experimental investigation of Fe3+-rich majoritic garnet and its effect on majorite geobarometer. Geochimica Et Cosmochimica Acta, 2018, 225, 1-16.	1.6	17
10	Redox evolution of western Tianshan subduction zone and its effect on deep carbon cycle. Geoscience Frontiers, 2020, 11, 915-924.	4.3	17
11	High-pressure experimental constraints of partitioning behavior of Si and S at the Mercury's inner core boundary. Earth and Planetary Science Letters, 2021, 562, 116849.	1.8	15
12	Si-Disordering in MgAl2O4-Spinel under High P-T Conditions, with Implications for Si-Mg Disorder in Mg2SiO4-Ringwoodite. Minerals (Basel, Switzerland), 2018, 8, 210.	0.8	14
13	The formation of graphite-rich eclogite vein in S.W. Tianshan (China) and its implication for deep carbon cycling in subduction zone. Chemical Geology, 2020, 533, 119430.	1.4	13
14	Recycled calcium carbonate is an efficient oxidation agent under deep upper mantle conditions. Communications Earth & Environment, 2021, 2, .	2.6	13
15	High-pressure experimental verification of rutile-ilmenite oxybarometer: Implications for the redox state of the subduction zone. Science China Earth Sciences, 2017, 60, 1817-1825.	2.3	10
16	The K ₂ CO ₃ fusion curve revisited: New experiments at pressures up to 12 GPa. Journal of Mineralogical and Petrological Sciences, 2016, 111, 241-251.	0.4	8
17	Phase relations and formation of K-bearing Al-10 Ã phase in the MORB+H ₂ O system: Implications for H ₂ O- and K-cycles in subduction zones. American Mineralogist, 2017, 102, 1922-1933.	0.9	5
18	Dataset for H ₂ , CH ₄ and organic compounds formation during experimental serpentinization. Geoscience Data Journal, 2021, 8, 90-100.	1.8	4

#	Article	IF	CITATIONS
19	Realization of parallel experiments in a diamond anvil cell and their application to water–mineral interactions at high-pressure and high-temperature conditions. Review of Scientific Instruments, 2022, 93, .	0.6	2
20	An experimental study of trace element mobility during dehydration of lawsonite blueschist along different P-T paths: Implications for geochemical heterogeneity of Earth's mantle. Journal of Asian Earth Sciences, 2020, 197, 104389.	1.0	0