# Renbiao Tao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9478104/publications.pdf

Version: 2024-02-01

| 20 | 445 | 686830 13 | 794141 19 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 20 | 20 | 20 | 451 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | 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 Earthâ€™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<sub>2</sub>CO<sub>3</sub> 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<sub>2</sub>O system: Implications for H<sub>2</sub>O- and K-cycles in subduction zones. American Mineralogist, 2017, 102, 1922-1933. | 0.9 | 5 |
| 18 | Dataset for H<sub>2</sub>, CH<sub>4</sub> 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 waterâ€“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 Earthâ€™s mantle. Journal of Asian Earth Sciences, 2020, 197, 104389. | 1.0 | 0 |