# Michael J Walter

List of Publications by Year
in descending order



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|---|---|---|---|
| 23 papers | 2,959 citations | 567281 15 h-index | 713466 21 g-index |
| 25 all docs | 25 docs citations | 25 times ranked | 2159 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hydrous silicate melts and the deep mantle H2O cycle. Earth and Planetary Science Letters, 2022, 581, 117408. | 4.4 | 9 |
| 2 | Comment on â€œDiscovery of davemaoite, CaSiO <sub>3</sub> -perovskite, as a mineral from the lower mantleâ€• Science, 2022, 376, eabo0882. | 12.6 | 4 |
| 3 | Geochemistry of Silicate and Oxide Inclusions in Sublithospheric Diamonds. Reviews in Mineralogy and Geochemistry, 2022, 88, 393-450. | 4.8 | 20 |
| 4 | Hydrous SiO2 in subducted oceanic crust and H2O transport to the core-mantle boundary. Earth and Planetary Science Letters, 2022, 594, 117708. | 4.4 | 10 |
| 5 | Evaluating the Formation Pressure of Diamondâ€Hosted Majoritic Garnets: A Machine Learning Majorite Barometer. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020604. | 3.4 | 23 |
| 6 | Slab Transport of Fluids to Deep Focus Earthquake Depthsâ€”Thermal Modeling Constraints and Evidence From Diamonds. AGU Advances, 2021, 2, e2020AV000304. | 5.4 | 35 |
| 7 | Evidence of Volatileâ€Induced Melting in the Northeast Asian Upper Mantle. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022167. | 3.4 | 3 |
| 8 | Water transport to the coreâ€“mantle boundary. National Science Review, 2021, 8, nwab007. | 9.5 | 14 |
| 9 | Stability and migration of slab-derived carbonate-rich melts above the transition zone. Earth and Planetary Science Letters, 2020, 531, 116000. | 4.4 | 15 |
| 10 | Evidence for the stability of ultrahydrous stishovite in Earthâ€™s lower mantle. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 184-189. | 7.1 | 39 |
| 11 | Diamonds and the Mantle Geodynamics of Carbon. , 2019, , 89-128. | | 16 |
| 12 | CO2-Rich Melts in Earth. , 2019, , 129-162. | | 10 |
| 13 | Tetragonal Almandine-Pyrope Phase, TAPP: finally a name for it, the new mineral jeffbenite. Mineralogical Magazine, 2016, 80, 1219-1232. | 1.4 | 41 |
| 14 | Diamonds from Dachine, French Guiana: A unique record of early Proterozoic subduction. Lithos, 2016, 265, 82-95. | 1.4 | 26 |
| 15 | Slab melting as a barrier to deep carbon subduction. Nature, 2016, 529, 76-79. | 27.8 | 343 |
| 16 | Origin of sub-lithospheric diamonds from the Juina-5 kimberlite (Brazil): constraints from carbon isotopes and inclusion compositions. Contributions To Mineralogy and Petrology, 2014, 168, 1. | 3.1 | 87 |
| 17 | Diamonds and the Geology of Mantle Carbon. Reviews in Mineralogy and Geochemistry, 2013, 75, 355-421. | 4.8 | 360 |
| 18 | Tetragonal almandine pyrope phase (TAPP): retrograde Mg-perovskite from subducted oceanic crust?. European Journal of Mineralogy, 2012, 24, 587-597. | 1.3 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Deep Mantle Cycling of Oceanic Crust: Evidence from Diamonds and Their Mineral Inclusions. Science, 2011, 334, 54-57. | 12.6 | 294 |
| 20 | Experimental study of the dehydration of 10-Ã... phase, with implications for its H2O content and stability in subducted lithosphere. Contributions To Mineralogy and Petrology, 2011, 162, 1279-1289. | 3.1 | 20 |
| 21 | Mineral inclusions in sublithospheric diamonds from Collier 4 kimberlite pipe, Juina, Brazil: subducted protoliths, carbonated melts and primary kimberlite magmatism. Contributions To Mineralogy and Petrology, 2010, 160, 489-510. | 3.1 | 165 |
| 22 | Primary carbonatite melt from deeply subducted oceanic crust. Nature, 2008, 454, 622-625. | 27.8 | 225 |
| 23 | Melting of Garnet Peridotite and the Origin of Komatiite and Depleted Lithosphere. Journal of Petrology, 1998, 39, 29-60. | 2.8 | 1,174 |