

Michael J Walter

List of Publications by Year in descending order

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Version: 2024-02-01

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	Melting of Garnet Peridotite and the Origin of Komatiite and Depleted Lithosphere. <i>Journal of Petrology</i> , 1998, 39, 29-60.	2.8	1,174
2	Diamonds and the Geology of Mantle Carbon. <i>Reviews in Mineralogy and Geochemistry</i> , 2013, 75, 355-421.	4.8	360
3	Slab melting as a barrier to deep carbon subduction. <i>Nature</i> , 2016, 529, 76-79.	27.8	343
4	Deep Mantle Cycling of Oceanic Crust: Evidence from Diamonds and Their Mineral Inclusions. <i>Science</i> , 2011, 334, 54-57.	12.6	294
5	Primary carbonatite melt from deeply subducted oceanic crust. <i>Nature</i> , 2008, 454, 622-625.	27.8	225
6	Mineral inclusions in sublithospheric diamonds from Collier 4 kimberlite pipe, Juina, Brazil: subducted protoliths, carbonated melts and primary kimberlite magmatism. <i>Contributions To Mineralogy and Petrology</i> , 2010, 160, 489-510.	3.1	165
7	Origin of sub-lithospheric diamonds from the Juina-5 kimberlite (Brazil): constraints from carbon isotopes and inclusion compositions. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	87
8	Tetragonal Almandine-Pyrope Phase, TAPP: finally a name for it, the new mineral jeffbenite. <i>Mineralogical Magazine</i> , 2016, 80, 1219-1232.	1.4	41
9	Evidence for the stability of ultrahydrous stishovite in Earth's lower mantle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 184-189.	7.1	39
10	Slab Transport of Fluids to Deep Focus Earthquake Depths—Thermal Modeling Constraints and Evidence From Diamonds. <i>AGU Advances</i> , 2021, 2, e2020AV000304.	5.4	35
11	Diamonds from Dachine, French Guiana: A unique record of early Proterozoic subduction. <i>Lithos</i> , 2016, 265, 82-95.	1.4	26
12	Evaluating the Formation Pressure of Diamond-Hosted Majoritic Garnets: A Machine Learning Majorite Barometer. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020604.	3.4	23
13	Tetragonal almandine pyrope phase (TAPP): retrograde Mg-perovskite from subducted oceanic crust?. <i>European Journal of Mineralogy</i> , 2012, 24, 587-597.	1.3	22
14	Experimental study of the dehydration of 10-Å... phase, with implications for its H ₂ O content and stability in subducted lithosphere. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 1279-1289.	3.1	20
15	Geochemistry of Silicate and Oxide Inclusions in Sublithospheric Diamonds. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 88, 393-450.	4.8	20
16	Diamonds and the Mantle Geodynamics of Carbon. , 2019, , 89-128.		16
17	Stability and migration of slab-derived carbonate-rich melts above the transition zone. <i>Earth and Planetary Science Letters</i> , 2020, 531, 116000.	4.4	15
18	Water transport to the core-mantle boundary. <i>National Science Review</i> , 2021, 8, nwab007.	9.5	14

#	ARTICLE	IF	CITATIONS
19	CO ₂ -Rich Melts in Earth. , 2019, , 129-162.		10
20	Hydrous SiO ₂ in subducted oceanic crust and H ₂ O transport to the core-mantle boundary. Earth and Planetary Science Letters, 2022, 594, 117708.	4.4	10
21	Hydrous silicate melts and the deep mantle H ₂ O cycle. Earth and Planetary Science Letters, 2022, 581, 117408.	4.4	9
22	Comment on "Discovery of davemaoite, CaSiO ₃ -perovskite, as a mineral from the lower mantle" Science, 2022, 376, eabo0882.	12.6	4
23	Evidence of Volatile-Induced Melting in the Northeast Asian Upper Mantle. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022167.	3.4	3