Alison R Pawley

List of Publications by Year
in descending order

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26 papers	1,154 citations	567281 15 h-index	552781 26 g-index
26 all docs	26 docs citations	26 times ranked	1002 citing authors

#	Article	IF	Citations
1	The stability of antigorite in the systems MgO-SiO₂-H₂O (MSH) and MgO-Al₂O₃-SiO₂-H₂O (MASH): The effects of Al³⁺substitution on high-pressure stability. American Mineralogist, 2003, 88, 99-108.	1.9	169
2	Water Sources for Subduction Zone Volcanism: New Experimental Constraints. Science, 1993, 260, 664-667.	12.6	150
3	The pressure and temperature stability limits of lawsonite: implications for H2O recycling in subduction zones. Contributions To Mineralogy and Petrology, 1994, 118, 99-108.	3.1	132
4	The effect of oxygen fugacity on the solubility of carbon-oxygen fluids in basaltic melt. Earth and Planetary Science Letters, 1992, 110, 213-225.	4.4	128
5	The high-pressure stability of talc and 10 Aa phase; potential storage sites for H₂O in subduction zones. American Mineralogist, 1995, 80, 998-1003.	1.9	113
6	Chlorite stability in mantle peridotite: the reaction clinochlore+enstatite=forsterite+pyrope+H2O. Contributions To Mineralogy and Petrology, 2003, 144, 449-456.	3.1	75
7	Experimental partitioning of F and Cl between olivine, orthopyroxene and silicate melt at Earth's mantle conditions. Chemical Geology, 2015, 416, 65-78.	3.3	62
8	In Situ Observation of the Formation of 10 Å Phase from Talc + H2O at Mantle Pressures and Temperatures. Science, 1999, 286, 940-942.	12.6	52
9	Double carbonate breakdown reactions at high pressures: an experimental study in the system CaOâ€“MgOâ€“FeOâ€“MnOâ€“CO2. Contributions To Mineralogy and Petrology, 2006, 152, 365-373.	3.1	38
10	The high-pressure stability of Mg-sursassite in a model hydrous peridotite: a possible mechanism for the deep subduction of significant volumes of H2O. Contributions To Mineralogy and Petrology, 2002, 142, 714-723.	3.1	35
11	An infrared spectroscopic study of the OH stretching frequencies of talc and 10-A phase to 10 GPa. American Mineralogist, 2007, 92, 525-531.	1.9	33
12	Experimental study of the compositions and stabilities of synthetic nybÃ¶ite and nybÃ¶ite-glaucophane amphiboles. European Journal of Mineralogy, 1992, 4, 171-192.	1.3	30
13	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
14	Stability of clinohumite in the system MgO-SiO2-H2O. Contributions To Mineralogy and Petrology, 2000, 138, 284-291.	3.1	17
15	Particle-Vane Interaction Probability in Gas Turbine Engines. Journal of Turbomachinery, 2019, 141, .	1.7	17
16	Effect of water on the fluorine and chlorine partitioning behavior between olivine and silicate melt. Contributions To Mineralogy and Petrology, 2017, 172, 15.	3.1	15
17	Halogen behaviour in subduction zones: Eclogite facies rocks from the Western and Central Alps. Geochimica Et Cosmochimica Acta, 2018, 243, 1-23.	3.9	15
18	Hydroxyl stretching in phyllosilicates at high pressures and temperatures: an infrared spectroscopic study. Physics and Chemistry of Minerals, 2011, 38, 753-765.	0.8	13

#	Article	IF	Citations
19	Fluorine partitioning between humite-group minerals and aqueous fluids: implications for volatile storage in the upper mantle. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	12
20	Volume behavior of the 10 A phase at high pressures and temperatures, with implications for H2O content. American Mineralogist, 2010, 95, 1671-1678.	1.9	9
21	The effect of solid solution on the stability of talc and 10-Ã... phase. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	5
22	Halogens in Eclogite Facies Minerals from the Western Gneiss Region, Norway. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.0	5
23	Further complexities of the 10 A phase revealed by infrared spectroscopy and X-ray diffraction. American Mineralogist, 2014, 99, 712-719.	1.9	3
24	Sodium amphibole in the post-glaucophane high-pressure domain: The role of eckermannite. American Mineralogist, 2018, 103, 989-992.	1.9	2
25	Formation of High-Temperature Minerals From an Evaporite-Rich Dust in Gas Turbine Engine Ingestion Tests. Journal of Turbomachinery, 2021, 143, .	1.7	2
26	Generalized Predictions of Particle-Vane Retention Probability in Gas Turbine Engines. Journal of Turbomachinery, 2021, 143, .	1.7	2