

Rebecca A Lange

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7328755/publications.pdf>

Version: 2024-02-01

18
papers

1,393
citations

759233

12
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	Densities of Na ₂ O-K ₂ O-CaO-MgO-FeO-Fe ₂ O ₃ -Al ₂ O ₃ -TiO ₂ -SiO ₂ liquids: New measurements and derived partial molar properties. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2931-2946.	3.9	656
2	A revised model for the density and thermal expansivity of K ₂ O-Na ₂ O-CaO-MgO-Al ₂ O ₃ -SiO ₂ liquids from 700 to 1900 K: extension to crustal magmatic temperatures. <i>Contributions To Mineralogy and Petrology</i> , 1997, 130, 1-11.	3.1	203
3	Heat capacities of Fe ₂ O ₃ -bearing silicate liquids. <i>Contributions To Mineralogy and Petrology</i> , 1992, 110, 311-320.	3.1	112
4	Multi-technique equation of state for Fe ₂ SiO ₄ melt and the density of Fe-bearing silicate melts from 0 to 161 GPa. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	76
5	New acoustic velocity measurements on CaO-MgO-Al ₂ O ₃ -SiO ₂ liquids: Reevaluation of the volume and compressibility of CaMgSi ₂ O ₆ -CaAl ₂ Si ₂ O ₈ liquids to 25 GPa. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
6	Temperature independent thermal expansivities of sodium aluminosilicate melts between 713 and 1835 K. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4989-4996.	3.9	47
7	The albite fusion curve re-examined: New experiments and the high-pressure density and compressibility of high albite and NaAlSi ₃ O ₈ liquid. <i>American Mineralogist</i> , 2007, 92, 1573-1585.	1.9	46
8	The partial molar volume and thermal expansivity of TiO ₂ in alkali silicate melts: Systematic variation with Ti coordination. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2379-2393.	3.9	44
9	The partial molar volume of Fe ₂ O ₃ in alkali silicate melts: Evidence for an average Fe ³⁺ coordination number near five. <i>American Mineralogist</i> , 2006, 91, 385-393.	1.9	43
10	The density and compressibility of CaO-FeO-SiO ₂ liquids at one bar: Evidence for four-coordinated Fe ²⁺ in the CaFeO ₂ component. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 120, 206-219.	3.9	25
11	Density and sound speed measurements on model basalt (An-Di-Hd) liquids at one bar: New constraints on the partial molar volume and compressibility of the FeO component. <i>Earth and Planetary Science Letters</i> , 2014, 388, 283-292.	4.4	20
12	Acoustic velocity measurements on Na ₂ O-TiO ₂ -SiO ₂ liquids: Evidence for a highly compressible TiO ₂ component related to five-coordinated Ti. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4314-4326.	3.9	17
13	An ultrasonic frequency sweep interferometer for liquids at high temperature: 1. Acoustic model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	12
14	The compressibility of CaCO ₃ -Li ₂ CO ₃ -Na ₂ CO ₃ -K ₂ CO ₃ liquids: application to natrocarbonatite and CO ₂ -bearing nephelinite liquids from Oldoinyo Lengai. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	11
15	Determination of the limiting fictive temperature of silicate glasses from calorimetric and dilatometric methods: Application to low-temperature liquid volume measurements. <i>American Mineralogist</i> , 2001, 86, 1331-1344.	1.9	10
16	An ultrasonic frequency sweep interferometer for liquids at high temperature: 2. Mechanical assembly, signal processing, and application. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	10
17	Origin of Compositional Gradients with Temperature in the High-SiO ₂ Rhyolite Portion of the Bishop Tuff: Constraints on Mineral-Melt-Fluid Reactions in the Parental Mush. <i>Journal of Petrology</i> , 2021, 62, .	2.8	4
18	Constraints on Early Paleozoic deep-ocean oxygen concentrations from the iron geochemistry of the Bay of Islands ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 0, .	2.5	0