

C E Lesher

List of Publications by Year in descending order

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17
papers

1,623
citations

687363

13
h-index

940533

16
g-index

17
all docs

17
docs citations

17
times ranked

1531
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition and origin of rhyolite melt intersected by drilling in the Krafla geothermal field, Iceland. Contributions To Mineralogy and Petrology, 2013, 165, 327-347.	3.1	54
2	Huang et al. reply. Nature, 2011, 472, E2-E3.	27.8	11
3	Self-diffusion in Silicate Melts: Theory, Observations and Applications to Magmatic Systems. Reviews in Mineralogy and Geochemistry, 2010, 72, 269-309.	4.8	52
4	Isotope fractionation in silicate melts by thermal diffusion. Nature, 2010, 464, 396-400.	27.8	185
5	Application of calorimetry on a chip to high-pressure materials. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9187-9191.	7.1	12
6	Effects of melt depletion on the density and seismic velocity of garnet and spinel lherzolite. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	251
7	Cooling process recorded in subglacially erupted rhyolite glasses: Rapid quenching, thermal buffering, and the formation of meltwater. Journal of Geophysical Research, 2004, 109, .	3.3	9
8	Preparation of a ZrO ₂ -Al ₂ O ₃ nanocomposite by high-pressure sintering of spray-pyrolyzed powders. Journal of Materials Research, 1999, 14, 834-840.	2.6	17
9	Evidence from the rare-earth-element record of mantle melting for cooling of the Tertiary Iceland plume. Nature, 1998, 395, 591-594.	27.8	118
10	The effects of liquid immiscibility and thermal diffusion on oxygen isotopes in silicate liquids. Contributions To Mineralogy and Petrology, 1998, 133, 373-381.	3.1	62
11	Generation and Polybaric Differentiation of East Greenland Early Tertiary Flood Basalts. Journal of Petrology, 1997, 38, 231-275.	2.8	93
12	Kinetics of Sr and Nd exchange in silicate liquids: Theory, experiments, and applications to uphill diffusion, isotopic equilibration, and irreversible mixing of magmas. Journal of Geophysical Research, 1994, 99, 9585-9604.	3.3	135
13	Geochemical constraints on mantle melting during creation of the North Atlantic basin. Nature, 1993, 363, 712-715.	27.8	95
14	Thermal Diffusion in Petrology. , 1991, , 396-451.		25
15	Decoupling of chemical and isotopic exchange during magma mixing. Nature, 1990, 344, 235-237.	27.8	283
16	Assimilation of granite by basaltic magma at Burnt Lava flow, Medicine Lake volcano, northern California: Decoupling of heat and mass transfer. Contributions To Mineralogy and Petrology, 1988, 99, 320-343.	3.1	139
17	Effects of silicate liquid composition on mineral-liquid element partitioning from Soret diffusion studies. Journal of Geophysical Research, 1986, 91, 6123-6141.	3.3	82