

# C E Lesher

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12055162/publications.pdf>

Version: 2024-02-01

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