

# Didier Laporte

## List of Publications by Year in descending order

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30  
papers

1,445  
citations

304743

22  
h-index

454955

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g-index

30  
all docs

30  
docs citations

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times ranked

1429  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure homogenization of olivine-hosted CO <sub>2</sub> -rich melt inclusions in a piston cylinder: insight into the volatile content of primary mantle melts. <i>European Journal of Mineralogy</i> , 2022, 34, 325-349.	1.3	3
2	Water quantification in silicate glasses by Raman spectroscopy: Correcting for the effects of confocality, density and ferric iron. <i>Chemical Geology</i> , 2018, 483, 312-331.	3.3	40
3	The diffusion coefficients of noble gases (He, Ar) in a synthetic basaltic liquid: One-dimensional diffusion experiments. <i>Chemical Geology</i> , 2018, 480, 35-43.	3.3	6
4	Argon behavior in basaltic melts in presence of a mixed H <sub>2</sub> O-CO <sub>2</sub> fluid at upper mantle conditions. <i>Chemical Geology</i> , 2017, 448, 100-109.	3.3	4
5	Raman characterization of synthetic magnesian calcites. <i>American Mineralogist</i> , 2016, 101, 2525-2538.	1.9	63
6	Multidiffusion mechanisms for noble gases (He, Ne, Ar) in silicate glasses and melts in the transition temperature domain: Implications for glass polymerization. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 107-126.	3.9	13
7	Thermally Induced Modifications and Phase Transformations of Red Coral Mg-Calcite Skeletons from Infrared Spectroscopy and High Resolution Synchrotron Powder Diffraction Analyses. <i>Crystal Growth and Design</i> , 2015, 15, 3690-3706.	3.0	9
8	Experimental derivation of nepheline syenite and phonolite liquids by partial melting of upper mantle peridotites. <i>Earth and Planetary Science Letters</i> , 2014, 404, 319-331.	4.4	60
9	Formation of U-depleted rhyolite from a basanite at El Hierro, Canary Islands. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 601-622.	3.1	29
10	Experimental melting of hydrous peridotite-pyroxenite mixed sources: Constraints on the genesis of silica-undersaturated magmas beneath volcanic arcs. <i>Earth and Planetary Science Letters</i> , 2013, 384, 42-56.	4.4	41
11	Experimental Study of the Stability of a Dolomite + Coesite Assemblage in Contact With Peridotite: Implications for Sediment-Mantle Interaction and Diamond Formation During Subduction. <i>Journal of Petrology</i> , 2012, 53, 391-417.	2.8	17
12	Simulating bubble number density of rhyolitic pumices from Plinian eruptions: constraints from fast decompression experiments. <i>Bulletin of Volcanology</i> , 2010, 72, 735-746.	3.0	53
13	New experimental determination of Li and B partition coefficients during upper mantle partial melting. <i>Contributions To Mineralogy and Petrology</i> , 2009, 157, 313-325.	3.1	48
14	An experimental study of focused magma transport and basalt-peridotite interactions beneath mid-ocean ridges: implications for the generation of primitive MORB compositions. <i>Contributions To Mineralogy and Petrology</i> , 2009, 157, 429-451.	3.1	53
15	An experimental study of pyroxenite partial melts at 1 and 1.5GPa: Implications for the major-element composition of Mid-Ocean Ridge Basalts. <i>Earth and Planetary Science Letters</i> , 2009, 288, 335-347.	4.4	122
16	Olivine-hosted melt inclusions and melting processes beneath the FAMOUS zone (Mid-Atlantic Ridge). <i>Chemical Geology</i> , 2007, 240, 129-150.	3.3	42
17	Experimental and textural investigation of welding: effects of compaction, sintering, and vapor-phase crystallization in the rhyolitic Rattlesnake Tuff. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 142, 89-104.	2.1	41
18	An experimental study of Ostwald ripening of olivine and plagioclase in silicate melts: implications for the growth and size of crystals in magmas. <i>Contributions To Mineralogy and Petrology</i> , 2005, 150, 37-53.	3.1	80

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19	A new experimental technique for extracting liquids from peridotite at very low degrees of melting: application to partial melting of depleted peridotite. Contributions To Mineralogy and Petrology, 2004, 146, 463-484.	3.1	105
20	Dihedral angle measurements and infiltration property of SiO <sub>2</sub> -rich melts in mantle peridotite assemblages. Contributions To Mineralogy and Petrology, 2004, 148, 1-12.	3.1	23
21	Kinetics of bubble nucleation in a rhyolitic melt: an experimental study of the effect of ascent rate. Earth and Planetary Science Letters, 2004, 218, 521-537.	4.4	127
22	Morphological analysis of olivine grains annealed in an iron-nickel matrix: Experimental constraints on the origin of pallasites and on the thermal history of their parent bodies. Meteoritics and Planetary Science, 2003, 38, 427-444.	1.6	23
23	Experimental investigation of the kinetics of Ostwald ripening of quartz in silicic melts. Contributions To Mineralogy and Petrology, 2001, 142, 361-373.	3.1	69
24	Ultrafast mantle impregnation by carbonatite melts. Geology, 2000, 28, 283-285.	4.4	13
25	Experimental study of homogeneous bubble nucleation in rhyolitic magmas. Geophysical Research Letters, 1999, 26, 3505-3508.	4.0	64
26	Importance of fluid immiscibility in the H <sub>2</sub> O-NaCl-CO <sub>2</sub> system and selective CO <sub>2</sub> entrapment in granulites: experimental phase diagram at 5-7 kbar, 900°C and wetting textures. European Journal of Mineralogy, 1998, 10, 1109-1124.	1.3	68
27	Inconsistencies between cpx-grt geothermometry and field observations: example of the peraluminous eclogites from Beni Bousera (North Morocco). Terra Nova, 1997, 9, 83-86.	2.1	10
28	Experimental and theoretical constraints on melt distribution in crustal sources: the effect of crystalline anisotropy on melt interconnectivity. Chemical Geology, 1995, 124, 161-184.	3.3	128
29	Direct Observation of Near-Equilibrium Pore Geometry in Synthetic Quartzites at 600°C-800°C and 2-10.5 Kbar. Journal of Geology, 1991, 99, 873-878.	1.4	53
30	Significance of low symmetry fabrics in magmatic rocks. Journal of Structural Geology, 1991, 13, 337-347.	2.3	38