

# Carmela Freda

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11420559/publications.pdf>

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18  
papers

1,398  
citations

471509

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docs citations

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1147  
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#	ARTICLE	IF	CITATIONS
1	Large mafic eruptions at Alban Hills Volcanic District (Central Italy): Chronostratigraphy, petrography and eruptive behavior. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 179, 217-232.	2.1	128
2	Solubility of H <sub>2</sub> O and CO <sub>2</sub> in ultrapotassic melts at 1200 and 1250 °C and pressure from 50 to 500 MPa. <i>American Mineralogist</i> , 2009, 94, 105-120.	1.9	127
3	Amorphous Materials: Properties, structure, and Durability: Oxidation state of iron in hydrous phono-tephritic melts. <i>American Mineralogist</i> , 2008, 93, 1493-1504.	1.9	124
4	Magma-carbonate interaction: An experimental study on ultrapotassic rocks from Alban Hills (Central Italy). <i>Lithos</i> , 2008, 101, 397-415.	1.4	103
5	Carbonate assimilation in magmas: A reappraisal based on experimental petrology. <i>Lithos</i> , 2010, 114, 503-514.	1.4	102
6	Eruptive history and petrologic evolution of the Albano multiple maar (Alban Hills, Central Italy). <i>Bulletin of Volcanology</i> , 2006, 68, 567-591.	3.0	101
7	Time-dependent geochemistry of clinopyroxene from the Alban Hills (Central Italy): Clues to the source and evolution of ultrapotassic magmas. <i>Lithos</i> , 2006, 86, 330-346.	1.4	97
8	Carbonate Assimilation in Open Magmatic Systems: the Role of Melt-bearing Skarns and Cumulate-forming Processes. <i>Journal of Petrology</i> , 2009, 50, 361-385.	2.8	83
9	CO <sub>2</sub> -driven large mafic explosive eruptions: the Pozzolane Rosse case study from the Colli Albani Volcanic District (Italy). <i>Bulletin of Volcanology</i> , 2011, 73, 241-256.	3.0	82
10	Halogen diffusion in a basaltic melt. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3570-3580.	3.9	77
11	Sulfur diffusion in basaltic melts. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5061-5069.	3.9	69
12	Magma Chambers Emplaced in Carbonate Substrate: Petrogenesis of Skarn and Cumulate Rocks and Implications for CO <sub>2</sub> Degassing in Volcanic Areas. <i>Journal of Petrology</i> , 2012, 53, 2307-2332.	2.8	68
13	Primary magmatic calcite reveals origin from crustal carbonate. <i>Lithos</i> , 2014, 190-191, 191-203.	1.4	57
14	Paleozoic metasomatism at the origin of Mediterranean ultrapotassic magmas: Constraints from time-dependent geochemistry of Colli Albani volcanic products (Central Italy). <i>Lithos</i> , 2016, 244, 151-164.	1.4	53
15	Pyroclast Tracking Velocimetry illuminates bomb ejection and explosion dynamics at Stromboli (Italy) and Yasur (Vanuatu) volcanoes. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5384-5397.	3.4	52
16	Ising models of undercooled binary system crystallization; comparison with experimental and pegmatite textures. <i>American Mineralogist</i> , 1999, 84, 725-732.	1.9	32
17	Origin of crystal-poor, differentiated magmas: insights from thermal gradient experiments. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 49-65.	3.1	29
18	Low pressure experiments in piston cylinder apparatus: Calibration of newly designed 25mm furnace assemblies to P=150MPa. <i>Chemical Geology</i> , 2012, 312-313, 74-79.	3.3	14