

Maria Rita Cicconi

List of Publications by Year in descending order

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46
papers

1,051
citations

430754

18
h-index

434063

31
g-index

50
all docs

50
docs citations

50
times ranked

1191
citing authors

#	ARTICLE	IF	CITATIONS
1	Chairside CAD/CAM materials. Part 1: Measurement of elastic constants and microstructural characterization. Dental Materials, 2017, 33, 84-98.	1.6	287
2	XAS determination of the Fe local environment and oxidation state in phonolite glasses. American Mineralogist, 2011, 96, 631-636.	0.9	56
3	Effect of alkalis on the Fe oxidation state and local environment in peralkaline rhyolitic glasses. American Mineralogist, 2012, 97, 468-475.	0.9	55
4	Near-liquidus growth of feldspar spherulites in trachytic melts: 3D morphologies and implications in crystallization mechanisms. Lithos, 2015, 216-217, 93-105.	0.6	39
5	Fracture anisotropy in texturized lithium disilicate glass-ceramics. Journal of Non-Crystalline Solids, 2018, 481, 457-469.	1.5	39
6	The effect of the [Na/(Na+K)] ratio on Fe speciation in phonolitic glasses. American Mineralogist, 2015, 100, 1610-1619.	0.9	30
7	Iodine solubility and speciation in glasses. Scientific Reports, 2019, 9, 7758.	1.6	27
8	Spectroscopic study of the role of alkaline earth oxides in mixed borate glasses - site basicity, polarizability and glass structure. Journal of Non-Crystalline Solids, 2020, 533, 119892.	1.5	27
9	Europium oxidation state and local structure in silicate glasses. American Mineralogist, 2012, 97, 918-929.	0.9	26
10	Combined Differential scanning calorimetry, Raman and Brillouin spectroscopies: A multiscale approach for materials investigation. Analytica Chimica Acta, 2018, 998, 37-44.	2.6	26
11	Cerium/aluminum correlation in aluminosilicate glasses and optical silica fiber preforms. Journal of Non-Crystalline Solids, 2017, 475, 85-95.	1.5	24
12	Silicate Glasses. Springer Handbooks, 2019, , 441-503.	0.3	24
13	Chemical tunability of europium emission in phosphate glasses. Journal of Luminescence, 2017, 183, 53-61.	1.5	20
14	Concurrent kinetics of crystallization and toughening in multicomponent biomedical SiO ₂ -Li ₂ O-P ₂ O ₅ -ZrO ₂ glass-ceramics. Journal of Non-Crystalline Solids, 2021, 554, 120607.	1.5	20
15	XAS investigation of rare earth elements in sodium disilicate glasses. Journal of Non-Crystalline Solids, 2013, 362, 162-168.	1.5	19
16	Optical Properties and Bismuth Redox in Bi-Doped High-Silica Al ³⁺ -Si Glasses. Journal of Physical Chemistry C, 2018, 122, 19777-19792.	1.5	19
17	Femtosecond laser direct writing in SiO ₂ -Al ₂ O ₃ binary glasses and thermal stability of <i>Type II</i> permanent modifications. Journal of the American Ceramic Society, 2020, 103, 4286-4294.	1.9	19
18	Europium structural environment in a sodium disilicate glass by XAS. Journal of Non-Crystalline Solids, 2010, 356, 1749-1753.	1.5	18

#	ARTICLE	IF	CITATIONS
19	Ca neighbors from XANES spectroscopy: A tool to investigate structure, redox, and nucleation processes in silicate glasses, melts, and crystals. <i>American Mineralogist</i> , 2016, 101, 1232-1235.	0.9	18
20	Magmas are the Largest Repositories and Carriers of Earth's Redox Processes. <i>Elements</i> , 2020, 16, 173-178.	0.5	18
21	Competition between two redox states in silicate melts: An in-situ experiment at the Fe K-edge and Eu L3-edge. <i>American Mineralogist</i> , 2015, 100, 1013-1016.	0.9	17
22	Influence of Vanadium on Optical and Mechanical Properties of Aluminosilicate Glasses. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	17
23	Nucleation mechanisms in a SiO ₂ -Li ₂ O-P ₂ O ₅ -ZrO ₂ biomedical glass-ceramic: Insights on crystallisation, residual glasses and Zr ⁴⁺ structural environment. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1762-1775.	2.8	16
24	Dioxygen Oxidation Cu(II) → Cu(III) in the Copper Complex of <i>cyclo(Lys-d-His-²Ala-His)</i> : A Case Study by EXAFS and XANES Approach. <i>Inorganic Chemistry</i> , 2012, 51, 7969-7976.	1.9	14
25	The [4]Fe ³⁺ -O distance in synthetic kimzeyite garnet, Ca ₃ Zr ₂ [Fe ₂ SiO ₁₂]. <i>European Journal of Mineralogy</i> , 2012, 24, 783-790.	0.4	14
26	Cerium speciation in silicate glasses: Structure-property relationships. <i>Journal of Non-Crystalline Solids</i> , 2021, 563, 120785.	1.5	13
27	North American microtektites are more oxidized than tektites. <i>American Mineralogist</i> , 2013, 98, 1930-1937.	0.9	11
28	Determining the local pressure during aerosol deposition using glass memory. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2443-2452.	1.9	11
29	Earth's Electrodes. <i>Elements</i> , 2020, 16, 157-160.	0.5	11
30	Natural Glasses. <i>Springer Handbooks</i> , 2019, , 771-812.	0.3	11
31	Australasian microtektites from Antarctica: XAS determination of the Fe oxidation state. <i>Meteoritics and Planetary Science</i> , 2014, 49, 696-705.	0.7	10
32	The effect of oxygen fugacity and Na/(Na+K) ratio on iron speciation in pantelleritic glasses. <i>Journal of Non-Crystalline Solids</i> , 2017, 478, 65-74.	1.5	10
33	Toughening by revitrification of Li ₂ SiO ₃ crystals in Obsidian® dental glass-ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104739.	1.5	8
34	In situ combined stress- and temperature-dependent Raman spectroscopy of Li-doped (Na,K)NbO ₃ . <i>Journal of the American Ceramic Society</i> , 2022, 105, 2735-2743.	1.9	8
35	The Influence of Glass Composition on Iodine Solubility. <i>MRS Advances</i> , 2019, 4, 971-979.	0.5	7
36	Thermal Evolutions to Glass-Ceramics Bearing Calcium Tungstate Crystals in Borate Glasses Doped with Photoluminescent Eu ³⁺ Ions. <i>Materials</i> , 2021, 14, 952.	1.3	7

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37	Devitrification Behavior of Sol-Gel Derived ZrO ₂ -SiO ₂ Rare-Earth Doped Glasses: Correlation between Structural and Optical Properties. <i>Ceramics</i> , 2018, 1, 274-286.	1.0	6
38	Iron oxidation state and local structure in North American tektites. , 2010, , .		5
39	An in-situ XANES investigation of the interactions between iron, manganese and antimony in silicate melts. <i>Journal of Non-Crystalline Solids</i> , 2018, 502, 227-235.	1.5	5
40	The influence of codoping on optical properties and glass connectivity of silica fiber preforms. <i>Ceramics International</i> , 2020, 46, 26251-26259.	2.3	5
41	Temperature-dependent ferroelastic behaviour of antiferroelectric AgNbO ₃ . <i>Acta Materialia</i> , 2022, 232, 117931.	3.8	4
42	Non-Magmatic Glasses. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 965-1014.	2.2	4
43	Fabrication of Bariumtrisulphide Thin Films as Precursors for Chalcogenide Perovskites. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	0.7	4
44	Europium structural role in silicate glasses: Reduction kinetics at low oxygen fugacity. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012179.	0.3	3
45	Tektite glasses from Belize, Central America: Petrography, geochemistry, and search for a possible meteoritic component. <i>Geochimica Et Cosmochimica Acta</i> , 2022, , .	1.6	3
46	Bismuth optical properties and redox in aluminosilicate glasses. , 2017, , .		0