

# Monica Dapiaggi

## List of Publications by Year in descending order

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48  
papers

1,118  
citations

394421

19  
h-index

414414

32  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1730  
citing authors

#	ARTICLE	IF	CITATIONS
1	Average and local atomic-scale structure in BaZr <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> (x = 0.10, 0.20, 0.40) ceramics by high-energy x-ray diffraction and Raman spectroscopy. Journal of Physics Condensed Matter, 2014, 26, 065901.	1.8	103
2	Multiscale understanding of tricalcium silicate hydration reactions. Scientific Reports, 2018, 8, 8544.	3.3	92
3	High-Temperature Polymorphism in Metastable BiMnO <sub>3</sub> . Chemistry of Materials, 2005, 17, 6457-6467.	6.7	80
4	A kinetic study of the quartz-cristobalite phase transition. Journal of the European Ceramic Society, 2013, 33, 3403-3410.	5.7	76
5	Thermal expansion in cuprite-type structures from 10 K to decomposition temperature: Cu <sub>2</sub> O and Ag <sub>2</sub> O. Journal of Applied Crystallography, 2003, 36, 1461-1463.	4.5	73
6	Ferroelectric BaTiO <sub>3</sub> Nanowires by a Topochemical Solid-State Reaction. Chemistry of Materials, 2009, 21, 5058-5065.	6.7	67
7	Donor doping of K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> ceramics with strontium and its implications to grain size, phase composition and crystal structure. Journal of the European Ceramic Society, 2017, 37, 2073-2082.	5.7	47
8	Local structure and Ca/Si ratio in C-S-H gels from hydration of blends of tricalcium silicate and silica fume. Cement and Concrete Research, 2021, 143, 106405.	11.0	45
9	P-V equation of State, thermal expansion, and P-T stability of synthetic zincochromite (ZnCr <sub>2</sub> O <sub>4</sub> ) Tj ETQq1 1 0.784314 rgBT /Overlock	1.9	44
10	The formation of silica high temperature polymorphs from quartz: Influence of grain size and mineralising agents. Journal of the European Ceramic Society, 2015, 35, 4547-4555.	5.7	42
11	Structure-property correlations and origin of relaxor behaviour in BaCexTi <sub>1-x</sub> O <sub>3</sub> . Acta Materialia, 2018, 152, 258-268.	7.9	37
12	Fe-Doped Zirconium Oxide Produced by Self-Sustained High-Temperature Synthesis: Evidence for an Fe-Zr Direct Bond. Journal of the American Chemical Society, 1999, 121, 301-307.	13.7	34
13	Negative (and very low) thermal expansion in ReO <sub>3</sub> from 5 to 300 K. Journal of Applied Crystallography, 2009, 42, 253-258.	4.5	29
14	Microscopic strain in synthetic pyrope-grossular solid solutions determined by synchrotron X-ray powder diffraction at 5 K: The relationship to enthalpy of mixing behavior. American Mineralogist, 2005, 90, 506-509.	1.9	28
15	Incorporation of Trivalent Cations in Synthetic Garnets A <sub>3</sub> B <sub>5</sub> O <sub>12</sub> (A = Y, Lu-La, B = Al, Fe, Ga). Journal of Physical Chemistry B, 2006, 110, 6561-6568.	2.6	28
16	Phase transformations and reaction kinetics during the temperature-induced oxidation of natural olivine. American Mineralogist, 2003, 88, 1560-1574.	1.9	25
17	Negative thermal expansion in cuprite-type compounds: A combined synchrotron XRPD, EXAFS, and computational study of Cu <sub>2</sub> O and Ag <sub>2</sub> O. Journal of Physics and Chemistry of Solids, 2006, 67, 1918-1922.	4.0	24
18	The effect of oxidation and reduction on thermal expansion of magnetite from 298 to 1173K at different vacuum conditions. Journal of Solid State Chemistry, 2004, 177, 1713-1716.	2.9	22

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19	A Kinetic Study of Thermal Decomposition of Limestone Using <i>In Situ</i> High Temperature X-Ray Powder Diffraction. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2491-2498.	3.8	21
20	Synthesis of bulk tetragonal zirconia without stabilizer: The role of precursor nanopowders. <i>Journal of the European Ceramic Society</i> , 2012, 32, 343-352.	5.7	16
21	High temperature reactions in mold flux slags: Kinetic versus composition control. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2852-2860.	3.1	15
22	Local Structure of Si-Al-Ca-Na-O Glasses from Coupled Neutron and X-ray Total Scattering Data. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13114-13123.	2.6	15
23	Comparison of total scattering data from various sources: the case of a nanometric spinel. <i>Powder Diffraction</i> , 2015, 30, S65-S69.	0.2	14
24	Complex thermal evolution of size-stabilized tetragonal zirconia. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1038-1041.	4.0	13
25	Study of the negative thermal expansion of cuprite-type structures by means of temperature-dependent pair distribution function analysis: Preliminary results. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2182-2186.	4.0	11
26	Mechanisms of Zinc Oxide Nanocrystalline Thin Film Formation by Thermal Degradation of Metal-Loaded Hydrogels. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25108-25117.	3.1	11
27	Accuracy in quantitative phase analysis of mixtures with large amorphous contents. The case of zircon-rich sanitary-ware glazes. <i>Journal of Applied Crystallography</i> , 2014, 47, 136-145.	4.5	10
28	Synthesis of Fully Dense Anatase TiO <sub>2</sub> Through High Pressure Field Assisted Rapid Sintering. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 205-208.	0.4	8
29	Transport properties in bulk nanocrystalline Sm-doped ceria with doping content between 2 and 30at.%. <i>Solid State Ionics</i> , 2012, 225, 412-415.	2.7	7
30	Aluminosilicate-based glasses structural investigation by high-energy X-ray diffraction. <i>Journal of Materials Science</i> , 2016, 51, 8845-8860.	3.7	7
31	Modeling the Structure of Complex Aluminosilicate Glasses: The Effect of Zinc Addition. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2526-2537.	2.6	7
32	Local distortion and octahedral tilting in BaCe <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> perovskite. <i>Journal of Applied Crystallography</i> , 2018, 51, 1283-1294.	4.5	7
33	High resolution spatial analyses of trace elements in coccoliths reveal new insights into element incorporation in coccolithophore calcite. <i>Scientific Reports</i> , 2020, 10, 9825.	3.3	7
34	In situ high-temperature X-ray and neutron powder diffraction study of cation partitioning in synthetic Mg(Fe <sub>0.5</sub> Al <sub>0.5</sub> ) <sub>2</sub> O <sub>4</sub> spinel. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 11-19.	0.8	6
35	The role of local structural distortions in the stabilisation of undoped nanocrystalline tetragonal zirconia. <i>Materials Chemistry and Physics</i> , 2014, 147, 395-402.	4.0	6
36	Structural Study of Nano-Sized Gahnite (ZnAl <sub>2</sub> O <sub>4</sub> ): From the Average to the Local Scale. <i>Nanomaterials</i> , 2020, 10, 824.	4.1	6

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37	Characterization of omphacite jade from the Po valley, Piedmont, Italy. <i>Journal of Gemmology</i> , 2006, 30, 215-226.	0.2	6
38	Structure of soda-lime-aluminosilicate glasses as revealed by in-situ synchrotron powder diffraction experiments. <i>Journal of Non-Crystalline Solids</i> , 2021, 568, 120932.	3.1	5
39	Synthesis of Fully Dense Nanostabilized Undoped Tetragonal Zirconia. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2092-2097.	3.8	4
40	Thermal Expansion and Excess Properties of $\text{Al}_2\text{SiO}_5$ -kermanite-Gehlenite Synthetic Solid Solution Series. <i>Materials Science Forum</i> , 2004, 443-444, 401-406.	0.3	3
41	Effects of limestone petrography and calcite microstructure on OPC clinker raw meals burnability. <i>Mineralogy and Petrology</i> , 2017, 111, 793-806.	1.1	3
42	High temperature investigation of $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-ZnO-Na}_2\text{O}$ glass for ceramic-glaze: in situ/ex-situ synchrotron diffraction and conventional approaches. <i>Ceramics International</i> , 2018, 44, 6395-6401.	4.8	3
43	Characterisation of scheelite $\text{La}_{0.16}\text{Nb}_{0.84}\text{O}_{4.08}$ ion conductor by combined synchrotron techniques: Structure, W oxidation state and interdiffusion. <i>Journal of Alloys and Compounds</i> , 2021, 857, 157532.	5.5	3
44	The local and average structure of $\text{Ba}(\text{Ti}, \text{Ce})\text{O}_3$ perovskite solid solution: effect of cerium concentration and particle size. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1280-1287.	2.4	3
45	Control of the amorphous content in traditional ceramics by means of alternative fluxing agents. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1831-1838.	5.7	2
46	How did the carrier shell <i>Xenophora crispa</i> (Körnig, 1825) build its shell? Evidence from the Recent and fossil record. <i>Lethaia</i> , 2020, 53, 439-451.	1.4	1
47	Quantification of Classified Nickel Species in Spent FFC Catalysts. <i>Waste and Biomass Valorization</i> , 0, , 1.	3.4	1
48	Structural disorder in spinel-like nanoparticles probed by total scattering. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s83-s83.	0.1	0