Maria Chiara Dalconi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reaction kinetics and microstructural characteristics of iron-rich-laterite-based phosphate binder. Construction and Building Materials, 2022, 320, 126302.	7.2	12
2	An Atomistic Model Describing the Structure and Morphology of Cu-Doped C-S-H Hardening Accelerator Nanoparticles. Nanomaterials, 2022, 12, 342.	4.1	9
3	Pursuing unprecedented anisotropic morphologies of halide-free Pd nanoparticles by tuning their nucleation and growth. Dalton Transactions, 2022, 51, 11476-11484.	3.3	2
4	Unusual Luminescence of Quartz from La Sassa, Tuscany: Insights on the Crystal and Defect Nanostructure of Quartz Further Developments. Minerals (Basel, Switzerland), 2022, 12, 828.	2.0	0
5	Retention of phosphorus and fluorine in phosphogypsum for cemented paste backfill: Experimental and numerical simulation studies. Environmental Research, 2022, 214, 113775.	7.5	15
6	Cement-stabilized contaminated soil: Understanding Pb retention with XANES and Raman spectroscopy. Science of the Total Environment, 2021, 752, 141826.	8.0	29
7	Highly Graphitized Fe-N-C Electrocatalysts Prepared from Chitosan Hydrogel Frameworks. Catalysts, 2021, 11, 390.	3.5	15
8	A Fresh View on Limestone Calcined Clay Cement (LC3) Pastes. Materials, 2021, 14, 3037.	2.9	24
9	The crystal structure of a new calcium aluminate phase containing formate. Cement and Concrete Research, 2021, 146, 106490.	11.0	3
10	A multi-scale methods comparison to provide granitoid rocks thermal conductivity. Construction and Building Materials, 2021, 304, 124612.	7.2	2
11	Stabilization of lead contaminated soil with traditional and alternative binders. Journal of Hazardous Materials, 2020, 382, 120990.	12.4	59
12	Impact shock origin of diamonds in ureilite meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25310-25318.	7.1	28
13	Upcycling of polyurethane into iron-nitrogen-carbon electrocatalysts active for oxygen reduction reaction. Electrochimica Acta, 2020, 362, 137200.	5.2	36
14	Climbing the oxygen reduction reaction volcano plot with laser ablation synthesis of Pt _x Y nanoalloys. Catalysis Science and Technology, 2020, 10, 4503-4508.	4.1	25
15	Nanoseeds as modifiers of the cement hydration kinetics. , 2020, , 257-269.		2
16	Mesoporous Carbon with Different Density of Thiophenicâ€Like Functional Groups and Their Effect on Oxygen Reduction. ChemSusChem, 2019, 12, 4229-4239.	6.8	29
17	Water Availability and Deformation Processes in Smectiteâ€Rich Gouges During Seismic Slip. Journal of Geophysical Research: Solid Earth, 2019, 124, 10855-10876.	3.4	7
18	Alkali-activated calcined smectite clay blended with waste calcium carbonate as a low-carbon binder. Journal of Cleaner Production, 2018, 184, 41-49.	9.3	36

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19	Recycling trachyte waste from the quarry to the brick industry: Effects on physical and mechanical properties, and durability of new bricks. Construction and Building Materials, 2018, 166, 792-807.	7.2	25
20	On the preparation of concentrated gypsum slurry to reuse sulfate-process TiO2 byproduct stream. Journal of Cleaner Production, 2018, 195, 1468-1475.	9.3	3
21	Looking Like Gold: Chlorite and Talc Transformation in the Golden Slip Ware Production (Swat Valley,) Tj ETQq1 1	0,784314 2.0	rgBT /Overl
22	Role of Polycarboxylate-ether superplasticizers on cement hydration kinetics and microstructural development. MATEC Web of Conferences, 2018, 149, 01004.	0.2	0
23	Improving the performance of PCE superplasticizers in early stiffening Portland cement. Construction and Building Materials, 2017, 130, 83-91.	7.2	14
24	Disentangling the effects of conservation agriculture practices on the vertical distribution of soil organic carbon. Evidence of poor carbon sequestration in North- Eastern Italy. Agriculture, Ecosystems and Environment, 2016, 230, 68-78.	5.3	64
25	Kinetic Model of Calcium-Silicate Hydrate Nucleation and Growth in the Presence of PCE Superplasticizers. Crystal Growth and Design, 2016, 16, 646-654.	3.0	33
26	<i>Inâ€5itu</i> XRD Measurement and Quantitative Analysis of Hydrating Cement: Implications for Sulfate Incorporation in C–S–H. Journal of the American Ceramic Society, 2015, 98, 1259-1264.	3.8	29
27	Examining microstructural evolution of Portland cements by in-situ synchrotron micro-tomography. Journal of Materials Science, 2015, 50, 1805-1817.	3.7	33
28	Direct Imaging of Nucleation Mechanisms by Synchrotron Diffraction Micro-Tomography: Superplasticizer-Induced Change of C–S–H Nucleation in Cement. Crystal Growth and Design, 2015, 15, 20-23.	3.0	27
29	Imaging of nano-seeded nucleation in cement pastes by X-ray diffraction tomography. International Journal of Materials Research, 2014, 105, 628-631.	0.3	20
30	Simulation of the hydration kinetics and elastic moduli of cement mortars by microstructural modelling. Cement and Concrete Composites, 2014, 52, 54-63.	10.7	26
31	Understanding cement hydration at the microscale: new opportunities from `pencil-beam' synchrotron X-ray diffraction tomography. Journal of Applied Crystallography, 2013, 46, 142-152.	4.5	31
32	X-ray powder diffraction clustering and quantitative phase analysis on historic mortars. European Journal of Mineralogy, 2013, 25, 165-175.	1.3	24
33	3D imaging of complex materials: the case of cement. International Journal of Materials Research, 2012, 103, 145-150.	0.3	11
34	Multifractal Analysis of Calcium Silicate Hydrate (<scp><scp>C</scp></scp> – <scp><scp>S</scp>–<scp>sa€"<scp><scp>H</scp> <scp>X</scp>â€ray Diffraction Microtomography. Journal of the American Ceramic Society, 2012, 95, 2647-2652.</scp></scp></scp>	3.8	23
35	Temperature-resolved synchrotron X-ray diffraction of nanocrystalline titania in solvent: the effect of Cr–Sb and V–Sb doping. Journal of Nanoparticle Research, 2011, 13, 711-719.	1.9	4
36	Towards three-dimensional quantitative reconstruction of cement microstructure by X-ray diffraction microtomography. Journal of Applied Crystallography, 2011, 44, 272-280.	4.5	28

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37	In-situ XRPD of hydrating cement with lab instrument: reflection vs. transmission measurements. , 2011, , 155-162.		1
38	X-ray diffraction microtomography (XRD-CT), a novel tool for non-invasive mapping of phase development in cement materials. Analytical and Bioanalytical Chemistry, 2010, 397, 2131-2136.	3.7	71
39	Dehydration and rehydration processes in gmelinite: An in situ X-ray single-crystal study. American Mineralogist, 2010, 95, 1773-1782.	1.9	14
40	Molecular H2O in armenite, BaCa2Al6Si9O30·2H2O, and epididymite, Na2Be2Si6O15·H2O: Heat capacity, entropy and local-bonding behavior of confined H2O in microporous silicates. Geochimica Et Cosmochimica Acta, 2010, 74, 5202-5215.	3.9	10
41	Middle to late Miocene Middle Eastern climate from stable oxygen and carbon isotope data, southern Alborz mountains, N Iran. Earth and Planetary Science Letters, 2010, 300, 125-138.	4.4	88
42	Investigation on the hydrated and dehydrated forms of the ion-exchanged microporous stannosilicate EMS-2. Microporous and Mesoporous Materials, 2009, 117, 414-422.	4.4	4
43	Application of the Rietveld method for the investigation of mortars: a case study on the archaeological site of Thamusida (Morocco). European Journal of Mineralogy, 2009, 21, 457-465.	1.3	8
44	Structural Relaxation around Cr ³⁺ in YAlO ₃ â^'YCrO ₃ Perovskites from Electron Absorption Spectra. Journal of Physical Chemistry A, 2009, 113, 13772-13778.	2.5	32
45	Magnesium K-edge EXAFS study of bond-length behavior in synthetic pyrope-grossular garnet solid solutions. American Mineralogist, 2008, 93, 495-498.	1.9	12
46	The effect of cation siting in Co,Ag-ferrierite on CH4-NOx-SCR. Studies in Surface Science and Catalysis, 2008, 174, 1039-1044.	1.5	1
47	Site preference and local geometry of Sc in garnets: Part II. The crystal-chemistry of octahedral Sc in the andradite-Ca3Sc2Si3O12 join. American Mineralogist, 2006, 91, 1240-1248.	1.9	32
48	Distinct local environments for Ca along the non-ideal pyrope–grossular solid solution: A new model based on crystallographic and EXAFS analysis. Chemical Geology, 2006, 225, 347-359.	3.3	13
49	Over-loaded Cu-ZSM-5 upon heating treatment: A time resolved X-ray diffraction study. Microporous and Mesoporous Materials, 2006, 94, 139-147.	4.4	20
50	Roman coloured and opaque glass: a chemical and spectroscopic study. Applied Physics A: Materials Science and Processing, 2006, 83, 239-245.	2.3	71
51	Site preference and local geometry of Sc in garnets: Part I. Multifarious mechanisms in the pyrope-grossular join. American Mineralogist, 2006, 91, 1230-1239.	1.9	27
52	Co- and Ni-exchanged ferrierite: The contribution of synchrotron X-ray diffraction data to siting of TMIs. Catalysis Today, 2005, 110, 345-350.	4.4	6
53	Mineralogical study of historical bricks from the Great Palace of the Byzantine Emperors in Istanbul based on powder X-ray diffraction data. European Journal of Mineralogy, 2005, 17, 777-784.	1.3	9
54	XAS investigation of tantalum and niobium in nanostructured TiO2 anatase. Journal of Solid State Chemistry, 2004, 177, 1781-1788.	2.9	48

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55	Changes in the local coordination of trace rare-earth elements in garnets by high-energy XAFS: new data on dysprosium. Physics and Chemistry of Minerals, 2004, 31, 162-167.	0.8	14
56	Siting and coordination of cobalt in ferrierite: XRD and EXAFS studies at different Co loadings. Microporous and Mesoporous Materials, 2003, 62, 191-200.	4.4	41
57	Rietveld Refinement on X-Ray Diffraction Patterns of Bioapatite in Human Fetal Bones. Biophysical Journal, 2003, 84, 2021-2029.	0.5	93
58	In situ time resolved synchrotron powder diffraction study of mordenite. European Journal of Mineralogy, 2003, 15, 485-493.	1.3	32
59	Characterization of trace Nd and Ce site preference and coordination in natural melanites: a combined X-ray diffraction and high-energy XAFS study. Physics and Chemistry of Minerals, 2002, 29, 495-502.	0.8	19
60	Ni2+ ion sites in hydrated and dehydrated forms of Ni-exchanged zeolite ferrierite. Microporous and Mesoporous Materials, 2000, 39, 423-430.	4.4	51