

Maria Chiara Dalconi

List of Publications by Year in descending order

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60
papers

1,453
citations

236925

25
h-index

345221

36
g-index

62
all docs

62
docs citations

62
times ranked

1871
citing authors

#	ARTICLE	IF	CITATIONS
1	Rietveld Refinement on X-Ray Diffraction Patterns of Bioapatite in Human Fetal Bones. Biophysical Journal, 2003, 84, 2021-2029.	0.5	93
2	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
3	Roman coloured and opaque glass: a chemical and spectroscopic study. Applied Physics A: Materials Science and Processing, 2006, 83, 239-245.	2.3	71
4	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
5	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
6	Stabilization of lead contaminated soil with traditional and alternative binders. Journal of Hazardous Materials, 2020, 382, 120990.	12.4	59
7	Ni ²⁺ ion sites in hydrated and dehydrated forms of Ni-exchanged zeolite ferrierite. Microporous and Mesoporous Materials, 2000, 39, 423-430.	4.4	51
8	XAS investigation of tantalum and niobium in nanostructured TiO ₂ anatase. Journal of Solid State Chemistry, 2004, 177, 1781-1788.	2.9	48
9	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
10	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
11	Upcycling of polyurethane into iron-nitrogen-carbon electrocatalysts active for oxygen reduction reaction. Electrochimica Acta, 2020, 362, 137200.	5.2	36
12	Examining microstructural evolution of Portland cements by in-situ synchrotron micro-tomography. Journal of Materials Science, 2015, 50, 1805-1817.	3.7	33
13	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
14	In situ time resolved synchrotron powder diffraction study of mordenite. European Journal of Mineralogy, 2003, 15, 485-493.	1.3	32
15	Site preference and local geometry of Sc in garnets: Part II. The crystal-chemistry of octahedral Sc in the andradite-Ca ₃ Sc ₂ Si ₃ O ₁₂ join. American Mineralogist, 2006, 91, 1240-1248.	1.9	32
16	Structural Relaxation around Cr ³⁺ in YAlO ₃ ~YCrO ₃ Perovskites from Electron Absorption Spectra. Journal of Physical Chemistry A, 2009, 113, 13772-13778.	2.5	32
17	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
18	<i>In-situ</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

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19	Mesoporous Carbon with Different Density of Thiophenic-Like Functional Groups and Their Effect on Oxygen Reduction. <i>ChemSusChem</i> , 2019, 12, 4229-4239.	6.8	29
20	Cement-stabilized contaminated soil: Understanding Pb retention with XANES and Raman spectroscopy. <i>Science of the Total Environment</i> , 2021, 752, 141826.	8.0	29
21	Towards three-dimensional quantitative reconstruction of cement microstructure by X-ray diffraction microtomography. <i>Journal of Applied Crystallography</i> , 2011, 44, 272-280.	4.5	28
22	Impact shock origin of diamonds in ureilite meteorites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25310-25318.	7.1	28
23	Site preference and local geometry of Sc in garnets: Part I. Multifarious mechanisms in the pyrope-grossular join. <i>American Mineralogist</i> , 2006, 91, 1230-1239.	1.9	27
24	Direct Imaging of Nucleation Mechanisms by Synchrotron Diffraction Micro-Tomography: Superplasticizer-Induced Change of Ca-Sr-H Nucleation in Cement. <i>Crystal Growth and Design</i> , 2015, 15, 20-23.	3.0	27
25	Simulation of the hydration kinetics and elastic moduli of cement mortars by microstructural modelling. <i>Cement and Concrete Composites</i> , 2014, 52, 54-63.	10.7	26
26	Recycling trachyte waste from the quarry to the brick industry: Effects on physical and mechanical properties, and durability of new bricks. <i>Construction and Building Materials</i> , 2018, 166, 792-807.	7.2	25
27	Climbing the oxygen reduction reaction volcano plot with laser ablation synthesis of Pt _x Y nanoalloys. <i>Catalysis Science and Technology</i> , 2020, 10, 4503-4508.	4.1	25
28	X-ray powder diffraction clustering and quantitative phase analysis on historic mortars. <i>European Journal of Mineralogy</i> , 2013, 25, 165-175.	1.3	24
29	A Fresh View on Limestone Calcined Clay Cement (LC3) Pastes. <i>Materials</i> , 2021, 14, 3037.	2.9	24
30	Multifractal Analysis of Calcium Silicate Hydrate (C-S-H) Mapped by X-ray Diffraction Microtomography. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2647-2652.	3.8	23
31	Over-loaded Cu-ZSM-5 upon heating treatment: A time resolved X-ray diffraction study. <i>Microporous and Mesoporous Materials</i> , 2006, 94, 139-147.	4.4	20
32	Imaging of nano-seeded nucleation in cement pastes by X-ray diffraction tomography. <i>International Journal of Materials Research</i> , 2014, 105, 628-631.	0.3	20
33	Characterization of trace Nd and Ce site preference and coordination in natural melanites: a combined X-ray diffraction and high-energy XAFS study. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 495-502.	0.8	19
34	Highly Graphitized Fe-N-C Electrocatalysts Prepared from Chitosan Hydrogel Frameworks. <i>Catalysts</i> , 2021, 11, 390.	3.5	15
35	Retention of phosphorus and fluorine in phosphogypsum for cemented paste backfill: Experimental and numerical simulation studies. <i>Environmental Research</i> , 2022, 214, 113775.	7.5	15
36	Changes in the local coordination of trace rare-earth elements in garnets by high-energy XAFS: new data on dysprosium. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 162-167.	0.8	14

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37	Dehydration and rehydration processes in gmelinite: An in situ X-ray single-crystal study. <i>American Mineralogist</i> , 2010, 95, 1773-1782.	1.9	14
38	Improving the performance of PCE superplasticizers in early stiffening Portland cement. <i>Construction and Building Materials</i> , 2017, 130, 83-91.	7.2	14
39	Distinct local environments for Ca along the non-ideal pyrope-grossular solid solution: A new model based on crystallographic and EXAFS analysis. <i>Chemical Geology</i> , 2006, 225, 347-359.	3.3	13
40	Magnesium K-edge EXAFS study of bond-length behavior in synthetic pyrope-grossular garnet solid solutions. <i>American Mineralogist</i> , 2008, 93, 495-498.	1.9	12
41	Reaction kinetics and microstructural characteristics of iron-rich-laterite-based phosphate binder. <i>Construction and Building Materials</i> , 2022, 320, 126302.	7.2	12
42	3D imaging of complex materials: the case of cement. <i>International Journal of Materials Research</i> , 2012, 103, 145-150.	0.3	11
43	Molecular H ₂ O in armenite, BaCa ₂ Al ₆ Si ₉ O ₃₀ ·2H ₂ O, and epididymite, Na ₂ Be ₂ Si ₆ O ₁₅ ·H ₂ O: Heat capacity, entropy and local-bonding behavior of confined H ₂ O in microporous silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5202-5215.	3.9	10
44	Mineralogical study of historical bricks from the Great Palace of the Byzantine Emperors in Istanbul based on powder X-ray diffraction data. <i>European Journal of Mineralogy</i> , 2005, 17, 777-784.	1.3	9
45	An Atomistic Model Describing the Structure and Morphology of Cu-Doped C-S-H Hardening Accelerator Nanoparticles. <i>Nanomaterials</i> , 2022, 12, 342.	4.1	9
46	Application of the Rietveld method for the investigation of mortars: a case study on the archaeological site of Thamusida (Morocco). <i>European Journal of Mineralogy</i> , 2009, 21, 457-465.	1.3	8
47	Looking Like Gold: Chlorite and Talc Transformation in the Golden Slip Ware Production (Swat Valley,) Tj ETQq1 1 0,784314 rgBT /Overl	2.0	7
48	Water Availability and Deformation Processes in Smectite-Rich Gouges During Seismic Slip. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10855-10876.	3.4	7
49	Co- and Ni-exchanged ferrierite: The contribution of synchrotron X-ray diffraction data to siting of TMs. <i>Catalysis Today</i> , 2005, 110, 345-350.	4.4	6
50	Investigation on the hydrated and dehydrated forms of the ion-exchanged microporous stannosilicate EMS-2. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 414-422.	4.4	4
51	Temperature-resolved synchrotron X-ray diffraction of nanocrystalline titania in solvent: the effect of Cr and Sb doping. <i>Journal of Nanoparticle Research</i> , 2011, 13, 711-719.	1.9	4
52	On the preparation of concentrated gypsum slurry to reuse sulfate-process TiO ₂ byproduct stream. <i>Journal of Cleaner Production</i> , 2018, 195, 1468-1475.	9.3	3
53	The crystal structure of a new calcium aluminate phase containing formate. <i>Cement and Concrete Research</i> , 2021, 146, 106490.	11.0	3
54	Nanoseeds as modifiers of the cement hydration kinetics. , 2020, , 257-269.		2

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55	A multi-scale methods comparison to provide granitoid rocks thermal conductivity. Construction and Building Materials, 2021, 304, 124612.	7.2	2
56	Pursuing unprecedented anisotropic morphologies of halide-free Pd nanoparticles by tuning their nucleation and growth. Dalton Transactions, 2022, 51, 11476-11484.	3.3	2
57	The effect of cation siting in Co,Ag-ferrierite on CH ₄ -NO _x -SCR. Studies in Surface Science and Catalysis, 2008, 174, 1039-1044.	1.5	1
58	In-situ XRPD of hydrating cement with lab instrument: reflection vs. transmission measurements. , 2011, , 155-162.		1
59	Role of Polycarboxylate-ether superplasticizers on cement hydration kinetics and microstructural development. MATEC Web of Conferences, 2018, 149, 01004.	0.2	0
60	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