

Luca Palin

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

939
citations

516710

16
h-index

454955

30
g-index

42
all docs

42
docs citations

42
times ranked

1311
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ XAS and XRPD Parametric Rietveld Refinement To Understand Dealumination of Y Zeolite Catalyt. Journal of the American Chemical Society, 2010, 132, 667-678.	13.7	174
2	Combined, Modulation Enhanced X-ray Powder Diffraction and Raman Spectroscopic Study of Structural Transitions in the Spin Crossover Material [Fe(Htrz) ₂ (trz)](BF ₄). Journal of Physical Chemistry C, 2011, 115, 1323-1329.	3.1	91
3	Template Burning inside TS-1 and Fe-MFI Molecular Sieves: An in Situ XRPD Study. Journal of the American Chemical Society, 2003, 125, 14549-14558.	13.7	79
4	Facile preparation methods of hydrotalcite layered materials and their structural characterization by combined techniques. Inorganica Chimica Acta, 2018, 470, 36-50.	2.4	71
5	Structural Characterisation of Complex Layered Double Hydroxides and TGA-MS Study on Thermal Response and Carbonate Contamination in Nitrate- and Organic-Exchanged Hydrotalcites. Chemistry - A European Journal, 2015, 21, 14975-14986.	3.3	53
6	Kinematic diffraction on a structure with periodically varying scattering function. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 327-335.	0.3	42
7	Structural characterization and thermal and chemical stability of bioactive molecule-hydrotalcite (LDH) nanocomposites. Physical Chemistry Chemical Physics, 2013, 15, 13418.	2.8	41
8	Development of a Fast and Clean Intercalation Method for Organic Molecules into Layered Double Hydroxides. Crystal Growth and Design, 2013, 13, 1162-1169.	3.0	40
9	Patterson selectivity by modulation-enhanced diffraction. Journal of Applied Crystallography, 2012, 45, 458-470.	4.5	32
10	The Use of POSS-Based Nanoadditives for Cable-Grade PVC: Effects on its Thermal Stability. Polymers, 2019, 11, 1105.	4.5	24
11	Untangling diffraction intensity: modulation enhanced diffraction on ZrO ₂ powder. Journal of Applied Crystallography, 2012, 45, 738-747.	4.5	21
12	Chemical selectivity in structure determination by the time dependent analysis of in situ XRPD data: a clear view of Xe thermal behavior inside a MFI zeolite. Physical Chemistry Chemical Physics, 2015, 17, 17480-17493.	2.8	20
13	Rationalization of Dye Uptake on Titania Slides for Dye-Sensitized Solar Cells by a Combined Chemometric and Structural Approach. ChemSusChem, 2014, 7, 3039-3052.	6.8	19
14	High-Throughput Preparation of New Photoactive Nanocomposites. ChemSusChem, 2016, 9, 1279-1289.	6.8	18
15	New Hints on the Maya Blue Formation Process by PCA-Assisted In Situ XRPD/PDF and Optical Spectroscopy. Chemistry - A European Journal, 2019, 25, 11503-11511.	3.3	17
16	Investigating Surface vs Bulk Kinetics in the Formation of a Molecular Complex via Solid-State Reaction by Simultaneous Raman/X-ray Powder Diffraction. Crystal Growth and Design, 2009, 9, 3396-3404.	3.0	16
17	Facile Intercalation of Organic Molecules into Hydrotalcites by Liquid-Assisted Grinding: Yield Optimization by a Chemometric Approach. Crystal Growth and Design, 2015, 15, 5368-5374.	3.0	16
18	Understanding the Ion Exchange Process in LDH Nanomaterials by Fast In Situ XRPD and PCA-Assisted Kinetic Analysis. Journal of Nanomaterials, 2019, 2019, 1-9.	2.7	16

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19	Monitoring the Formation of H-MCM-22 by a Combined XRPD and Computational Study of the Decomposition of the Structure Directing Agent. <i>Chemistry of Materials</i> , 2011, 23, 4900-4909.	6.7	14
20	Improved multivariate analysis for fast and selective monitoring of structural dynamics by <i>in situ</i> X-ray powder diffraction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2175-2187.	2.8	14
21	Light Weight, Easy Formable and Non-Toxic Polymer-Based Composites for Hard X-ray Shielding: A Theoretical and Experimental Study. <i>International Journal of Molecular Sciences</i> , 2020, 21, 833.	4.1	14
22	Development and characterization of a novel bioresorbable and bioactive biomaterial based on polyvinyl acetate, calcium carbonate and coralline hydroxyapatite. <i>Materials Research</i> , 2011, 14, 25-30.	1.3	13
23	Epoxy resins composites for X-ray shielding materials additivated by coated barium sulfate with improved dispersibility. <i>Materials Today Communications</i> , 2021, 26, 101888.	1.9	13
24	Crystal structure and solid-state transformations of Zn-triethanolamine-acetate complexes to ZnO. <i>CrystEngComm</i> , 2012, 14, 4472.	2.6	11
25	Principal component analysis for automatic extraction of solid-state kinetics from combined <i>in situ</i> experiments. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19560-19571.	2.8	11
26	POSS as building-blocks for the preparation of polysilsesquioxanes through an innovative synthetic approach. <i>Dalton Transactions</i> , 2015, 44, 2042-2046.	3.3	10
27	CO ₂ adsorption in Y zeolite: a structural and dynamic view by a novel principal-component-analysis-assisted <i>in situ</i> single-crystal X-ray diffraction experiment. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 214-222.	0.1	9
28	On the structure of superbasic (MgO) _n sites solvated in a faujasite zeolite. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18503-18514.	2.8	7
29	In vitro release kinetics and physical, chemical and mechanical characterization of a POVIAC [®] /CaCO ₃ /HAP-200 composite. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 259-270.	3.6	6
30	In Situ X-ray Diffraction Study of Xe and CO ₂ Adsorption in Y Zeolite: Comparison between Rietveld and PCA-Based Analysis. <i>Crystals</i> , 2020, 10, 483.	2.2	5
31	The low-temperature structure of nopinone. <i>Zeitschrift für Kristallographie</i> , 2008, 223, 602-604.	1.1	4
32	On the Rehydration of Organic Layered Double Hydroxides to form Low-Ordered Carbon/LDH Nanocomposites. <i>Inorganics</i> , 2018, 6, 79.	2.7	4
33	A structural investigation of the four phases of 7-oxabicyclo[2.2.1]heptane. <i>Zeitschrift für Kristallographie</i> , 2007, 222, 487-491.	1.1	3
34	Low-Cost Biobased Coatings for AM60 Magnesium Alloys for Food Contact and Harsh Environment Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4915.	4.1	3
35	Multivariate versus traditional quantitative phase analysis of X-ray powder diffraction and fluorescence data of mixtures showing preferred orientation and microabsorption. <i>Journal of Applied Crystallography</i> , 2022, 55, 837-850.	4.5	3
36	Solvothermal synthesis and structural characterization of three polyoxotitanium-organic acid clusters. <i>RSC Advances</i> , 2021, 11, 25068-25078.	3.6	1

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37	XRF and XRPD data sets in ternary mixtures with high level micro-absorption and/or preferred orientations problems for phase quantification analysis. <i>Data in Brief</i> , 2021, 36, 107043.	1.0	1
38	Modulation-enhanced diffraction: a new tool to study transient structural phases and solve structures. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s105-s105.	0.3	1
39	Carbonate contamination in nitrate and organic hydrotalcites by XRPD/TGA-GC-MS. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C955-C955.	0.1	1
40	Structural characterization of the of inorganic and organic hydrotalcites. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C238-C238.	0.1	1
41	Absolute structure and structure-function relationships of 4R,2- β and 4S,2- β Pidotimod [®] . <i>Journal of Molecular Structure</i> , 2017, 1147, 810-814.	3.6	0