Luca Palin

List of Publications by Year
in descending order

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	Multivariate versus traditional quantitative phase analysis of X-ray powder diffraction and fluorescence data of mixtures showing preferred orientation and microabsorption. Journal of Applied Crystallography, 2022, 55, 837-850.	4.5	3
2	Epoxy resins composites for X-ray shielding materials additivated by coated barium sulfate with improved dispersibility. Materials Today Communications, 2021, 26, 101888.	1.9	13
3	Solvothermal synthesis and structural characterization of three polyoxotitanium-organic acid clusters. RSC Advances, 2021, 11, 25068-25078.	3.6	1
4	Low-Cost Biobased Coatings for AM60 Magnesium Alloys for Food Contact and Harsh Environment Applications. International Journal of Molecular Sciences, 2021, 22, 4915.	4.1	3
5	XRF and XRPD data sets in ternary mixtures with high level micro-absorption and/or preferred orientations problems for phase quantification analysis. Data in Brief, 2021, 36, 107043.	1.0	1
6	In Situ X-ray Diffraction Study of Xe and CO2 Adsorption in Y Zeolite: Comparison between Rietveld and PCA-Based Analysis. Crystals, 2020, 10, 483.	2.2	5
7	Light Weight, Easy Formable and Non-Toxic Polymer-Based Composites for Hard X-ray Shielding: A Theoretical and Experimental Study. International Journal of Molecular Sciences, 2020, 21, 833.	4.1	14
8	The Use of POSS-Based Nanoadditives for Cable-Grade PVC: Effects on its Thermal Stability. Polymers, 2019, 11, 1105.	4.5	24
9	New Hints on the Maya Blue Formation Process by PCAâ€Assisted In Situ XRPD/PDF and Optical Spectroscopy. Chemistry - A European Journal, 2019, 25, 11503-11511.	3.3	17
10	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
11	CO₂ adsorption in Y zeolite: a structural and dynamic view by a novel principal-component-analysis-assisted in situ single-crystal X-ray diffraction experiment. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 214-222.	0.1	9
12	Improved multivariate analysis for fast and selective monitoring of structural dynamics by in situ X-ray powder diffraction. Physical Chemistry Chemical Physics, 2018, 20, 2175-2187.	2.8	14
13	Facile preparation methods of hydrotalcite layered materials and their structural characterization by combined techniques. Inorganica Chimica Acta, 2018, 470, 36-50.	2.4	71
14	On the Rehydration of Organic Layered Double Hydroxides to form Low-Ordered Carbon/LDH Nanocomposites. Inorganics, 2018, 6, 79.	2.7	4
15	Principal component analysis for automatic extraction of solid-state kinetics from combined in situ experiments. Physical Chemistry Chemical Physics, 2018, 20, 19560-19571.	2.8	11
16	On the structure of superbasic (MgO)_n sites solvated in a faujasite zeolite. Physical Chemistry Chemical Physics, 2018, 20, 18503-18514.	2.8	7
17	Absolute structure and structure-function relationships of 4R,2â€²R and 4S,2â€²S PidotimodÂ®. Journal of Molecular Structure, 2017, 1147, 810-814.	3.6	0
18	Highâ€Throughput Preparation of New Photoactive Nanocomposites. ChemSusChem, 2016, 9, 1279-1289.	6.8	18

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19	Structural Characterisation of Complex Layered Double Hydroxides and TGAâ€GCâ€MS Study on Thermal Response and Carbonate Contamination in Nitrateâ€and Organicâ€Exchanged Hydrotalcites. Chemistry - A European Journal, 2015, 21, 14975-14986.	3.3	53
20	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
21	POSS as building-blocks for the preparation of polysilsesquioxanes through an innovative synthetic approach. Dalton Transactions, 2015, 44, 2042-2046.	3.3	10
22	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
23	Rationalization of Dye Uptake on Titania Slides for Dyeâ€Sensitized Solar Cells by a Combined Chemometric and Structural Approach. ChemSusChem, 2014, 7, 3039-3052.	6.8	19
24	Carbonate contamination in nitrate and organic hydrotalcites by XRPD/TGA-GC-MS. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C955-C955.	0.1	1
25	Structural characterization of the of inorganic and organic hydrotalcites. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C238-C238.	0.1	1
26	Structural characterization and thermal and chemical stability of bioactive moleculeâ€“hydrotalcite (LDH) nanocomposites. Physical Chemistry Chemical Physics, 2013, 15, 13418.	2.8	41
27	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
28	Crystal structure and solid-state transformations of Znâ€“triethanolamineâ€“acetate complexes to ZnO. CrystEngComm, 2012, 14, 4472.	2.6	11
29	Patterson selectivity by modulation-enhanced diffraction. Journal of Applied Crystallography, 2012, 45, 458-470.	4.5	32
30	Untangling diffraction intensity: modulation enhanced diffraction on ZrO2powder. Journal of Applied Crystallography, 2012, 45, 738-747.	4.5	21
31	In vitro release kinetics and physical, chemical and mechanical characterization of a POVIAC Â® /CaCO 3 /HAP-200 composite. Journal of Materials Science: Materials in Medicine, 2012, 23, 259-270.	3.6	6
32	Combined, Modulation Enhanced X-ray Powder Diffraction and Raman Spectroscopic Study of Structural Transitions in the Spin Crossover Material [Fe(Htrz)₂(trz)](BF₄). Journal of Physical Chemistry C, 2011, 115, 1323-1329.	3.1	91
33	Development and characterization of a novel bioresorbable and bioactive biomaterial based on polyvinyl acetate, calcium carbonate and coralline hydroxyapatite. Materials Research, 2011, 14, 25-30.	1.3	13
34	Monitoring the Formation of H-MCM-22 by a Combined XRPD and Computational Study of the Decomposition of the Structure Directing Agent. Chemistry of Materials, 2011, 23, 4900-4909.	6.7	14
35	Kinematic diffraction on a structure with periodically varying scattering function. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 327-335.	0.3	42
36	In Situ XAS and XRPD Parametric Rietveld Refinement To Understand Dealumination of Y Zeolite Catalyst. Journal of the American Chemical Society, 2010, 132, 667-678.	13.7	174

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37	Modulation-enhanced diffraction: a new tool to study transient structural phases and solve structures. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s105-s105.	0.3	1
38	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
39	The low-temperature structure of nopinone. Zeitschrift FÃ¼r Kristallographie, 2008, 223, 602-604.	1.1	4
40	A structural investigation of the four phases of 7-oxabicyclo[2.2.1]heptane. Zeitschrift FÃ¼r Kristallographie, 2007, 222, 487-491.	1.1	3
41	Template Burning inside TS-1 and Fe-MFI Molecular Sieves:Â An in Situ XRPD Study. Journal of the American Chemical Society, 2003, 125, 14549-14558.	13.7	79