

Matteo Lusi

List of Publications by Year in descending order

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69
papers

3,516
citations

147801

31
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138484

58
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76
all docs

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docs citations

76
times ranked

4027
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Air Capture of CO ₂ by Physisorbent Materials. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14372-14377.	13.8	382
2	Benchmark C ₂ H ₂ /CO ₂ and CO ₂ /C ₂ H ₂ Separation by Two Closely Related Hybrid Ultramicroporous Materials. <i>Chem</i> , 2016, 1, 753-765.	11.7	349
3	Viologen-Based Conjugated Covalent Organic Networks via Zincke Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 9558-9565.	13.7	228
4	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5684-5689.	13.8	161
5	Solid-State Interconversions of Coordination Networks and Hydrogen-Bonded Salts. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1124-1128.	13.8	143
6	Hydrophobic pillared square grids for selective removal of CO ₂ from simulated flue gas. <i>Chemical Communications</i> , 2015, 51, 15530-15533.	4.1	115
7	Solid-Phase Vapor Sorption of Xylenes: Prioritized Selectivity as a Means of Separating All Three Isomers Using a Single Substrate. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3928-3931.	13.8	114
8	Engineering Crystal Properties through Solid Solutions. <i>Crystal Growth and Design</i> , 2018, 18, 3704-3712.	3.0	109
9	Practical and Highly Selective Sulfur Ylide-Mediated Asymmetric Epoxidations and Aziridinations Using a Cheap and Readily Available Chiral Sulfide: Extensive Studies To Map Out Scope, Limitations, and Rationalization of Diastereo- and Enantioselectivities. <i>Journal of the American Chemical Society</i> , 2013, 135, 11951-11966.	13.7	102
10	Simultaneous Self-Assembly of a [2]Catenane, a Trefoil Knot, and a Solomon Link from a Simple Pair of Ligands. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9956-9960.	13.8	99
11	Solid state synthesis of coordination compounds from basic metal salts. <i>CrystEngComm</i> , 2008, 10, 1790.	2.6	96
12	Flue-gas and direct-air capture of CO ₂ by porous metal-organic materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160025.	3.4	80
13	A rough guide to molecular solid solutions: design, synthesis and characterization of mixed crystals. <i>CrystEngComm</i> , 2018, 20, 7042-7052.	2.6	80
14	Crystal engineering of lattice metrics of perhalometallate salts and MOFs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16033-16038.	7.1	65
15	Kitaigorodsky Revisited: Polymorphism and Mixed Crystals of Acridine/Phenazine. <i>Chemistry - A European Journal</i> , 2015, 21, 1735-1742.	3.3	57
16	Expanding the Scope of Molecular Mixed Crystals Enabled by Three Component Solid Solutions. <i>Crystal Growth and Design</i> , 2015, 15, 4098-4103.	3.0	53
17	Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. <i>Journal of the American Chemical Society</i> , 2020, 142, 6896-6901.	13.7	51
18	[Ca ²⁺ -H ₂₁ anion] interactions mediate the templation and anion binding properties of topologically non-trivial metal-organic structures in aqueous solutions. <i>Chemical Science</i> , 2016, 7, 2524-2531.	7.4	50

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19	Colloidal Cu ₂ ZnSn(SSe) ₄ (CZTSSe) Nanocrystals: Shape and Crystal Phase Control to Form Dots, Arrows, Ellipsoids, and Rods. <i>Chemistry of Materials</i> , 2015, 27, 4742-4748.	6.7	49
20	Towards an understanding of the propensity for crystalline hydrate formation by molecular compounds. <i>IUCr</i> , 2016, 3, 430-439.	2.2	49
21	Determining Hydrogen Atom Positions for Hydrogen Bonded Interactions: A Distance-Dependent Neutron-Normalized Method. <i>Crystal Growth and Design</i> , 2011, 11, 5515-5521.	3.0	40
22	Two-step solid-state synthesis of PEPPSI-type compounds. <i>Chemical Communications</i> , 2015, 51, 9632-9635.	4.1	40
23	The effect of centred versus offset interpenetration on C ₂ H ₂ sorption in hybrid ultramicroporous materials. <i>Chemical Communications</i> , 2017, 53, 11592-11595.	4.1	40
24	Theoretical Optimization of Pore Size and Chemistry in SIFSIX-3-M Hybrid Ultramicroporous Materials. <i>Crystal Growth and Design</i> , 2016, 16, 3890-3897.	3.0	37
25	General Routes to Alkyl Phosphatrioxadamantane Ligands. <i>Organometallics</i> , 2008, 27, 3216-3224.	2.3	36
26	Fine-tuning of a thermosalient phase transition by solid solutions. <i>CrystEngComm</i> , 2016, 18, 4699-4703.	2.6	36
27	Unprecedented mechanochemical preparation of 18Crown[6] and 15Crown[5] adducts of ammonium hydrogen sulfate by grinding or kneading. <i>CrystEngComm</i> , 2005, 7, 276.	2.6	35
28	On the propulsion mechanism of "jumping" crystals. <i>Chemical Communications</i> , 2013, 49, 9293.	4.1	35
29	Towards polymorphism control in coordination networks and metallo-organic salts. <i>CrystEngComm</i> , 2010, 12, 4403.	2.6	34
30	Solution and Solid-State Preparation of 18-Crown-6 and 15-Crown-5 Adducts of Hydrogen Sulfate Salts and an Investigation of the Reversible Dehydration Processes. <i>Crystal Growth and Design</i> , 2007, 7, 919-924.	3.0	33
31	The role of weak interactions in controlling the mode of interpenetration in hybrid ultramicroporous materials. <i>Chemical Communications</i> , 2017, 53, 3978-3981.	4.1	33
32	A mechanochemically synthesised solid solution enables engineering of the sorption properties of a Werner clathrate. <i>Chemical Communications</i> , 2012, 48, 12171.	4.1	31
33	Metal-Organic Self-Assembled Trefoil Knots for C-Br Bond Activation. <i>ACS Catalysis</i> , 2019, 9, 1907-1914.	11.2	30
34	Plasticity in zwitterionic drugs: the bending properties of Pregabalin and Gabapentin and their hydrates. <i>IUCr</i> , 2019, 6, 630-634.	2.2	30
35	Solution and Solid-State Preparation of 18-Crown[6] Complexes with M[HSO ₄] _n Salts (M = NH ₄ ⁺ , K ⁺). <i>Chemistry - A European Journal</i> , 2007, 13, 5249-5255.	3.3	29
36	Improving Biopharmaceutical Properties of Vinpocetine Through Cocrystallization. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 3626-3633.	3.3	27

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37	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. <i>Angewandte Chemie</i> , 2018, 130, 5786-5791.	2.0	27
38	Cocrystals Help Break the "Rules" of Isostructurality: Solid Solutions and Polymorphism in the Malic/Tartaric Acid System. <i>Crystal Growth and Design</i> , 2018, 18, 855-863.	3.0	27
39	Dynamic stereoisomerization in inherently chiral bimetallic [2]catenanes. <i>Chemical Communications</i> , 2015, 51, 5840-5843.	4.1	22
40	Potassium S ₂ N-heteroscorpionates: structure and iridaboratrane formation. <i>Dalton Transactions</i> , 2011, 40, 4647.	3.3	21
41	Crystal synthesis of 1,4-phenylenediamine salts and coordination networks. <i>CrystEngComm</i> , 2011, 13, 4324-4331.	2.6	21
42	Investigation into the Solid and Solution Properties of Known and Novel Polymorphs of the Antimicrobial Molecule Clofazimine. <i>Crystal Growth and Design</i> , 2016, 16, 7240-7250.	3.0	21
43	Same or different " that is the question: identification of crystal forms from crystal structure data. <i>CrystEngComm</i> , 2020, 22, 7170-7185.	2.6	21
44	Role of Biorelevant Dissolution Media in the Selection of Optimal Salt Forms of Oral Drugs: Maximizing the Gastrointestinal Solubility and in Vitro Activity of the Antimicrobial Molecule, Clofazimine. <i>ACS Omega</i> , 2017, 2, 8969-8981.	3.5	20
45	The role of solvation in proton transfer reactions: implications for predicting salt/co-crystal formation using the "pKa" rule. <i>Faraday Discussions</i> , 2022, 235, 446-466.	3.2	20
46	Solid-vapour reactions as a post-synthetic modification tool for molecular crystals: the enclathration of benzene and toluene by Werner complexes. <i>Chemical Communications</i> , 2013, 49, 2634.	4.1	19
47	Crystal Engineering Approach to Generate Crystalline Inclusion Compounds in Which 5-Hydroxyisophthalic Acid Serves as a Host. <i>Crystal Growth and Design</i> , 2017, 17, 959-962.	3.0	19
48	Two-Step Mechanochemical Synthesis of Carbene Complexes of Palladium(II) and Platinum(II). <i>Crystal Growth and Design</i> , 2017, 17, 3151-3155.	3.0	19
49	Graph-Set Analysis Helps To Understand Charge Transfer in a Novel Ionic Cocrystal When the "pKa" Rule Fails. <i>Crystal Growth and Design</i> , 2019, 19, 5308-5313.	3.0	19
50	A rare cationic building block that generates a new type of polyhedral network with "cross-linked" topology. <i>Chemical Communications</i> , 2016, 52, 4160-4162.	4.1	18
51	Isostructural coordination polymers: epitaxis vs. solid solution. <i>CrystEngComm</i> , 2011, 13, 4311.	2.6	17
52	How Many Cocrystals Are We Missing? Assessing Two Crystal Engineering Approaches to Pharmaceutical Cocrystal Screening. <i>Crystal Growth and Design</i> , 2022, 22, 1390-1397.	3.0	17
53	Isomerism in rhodium(i) N,S-donor heteroscorpionates: ring substituent and ancillary ligand effects. <i>Dalton Transactions</i> , 2010, 39, 11616.	3.3	16
54	Post-synthetic modifications of cadmium-based knots and links. <i>Chemical Communications</i> , 2016, 52, 7398-7401.	4.1	16

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55	Desymmetrization by Asymmetric Copper-Catalyzed Intramolecular C-H Insertion Reactions of $\hat{I}\pm$ -Diazo- \hat{I}^2 -oxosulfones. <i>Journal of Organic Chemistry</i> , 2019, 84, 7543-7563.	3.2	14
56	The heterogeneous crystallization of a novel solvate of clozapine base in the presence of excipients. <i>CrystEngComm</i> , 2018, 20, 4370-4382.	2.6	13
57	A mixed molecular salt of lithium and sodium breaks the Hume-Rothery rules for solid solutions. <i>Chemical Communications</i> , 2019, 55, 2297-2300.	4.1	13
58	Diversity in a simple co-crystal: racemic and kryptoracemic behaviour. <i>Chemical Communications</i> , 2016, 52, 8309-8312.	4.1	11
59	Solution and calorimetric thermodynamic study of a new 1:1 sulfamethazine-3-methylsalicylic acid co-crystal. <i>CrystEngComm</i> , 2020, 22, 3463-3473.	2.6	10
60	Temperature-dependent guest reorientation: a reversible order-disorder transformation in a single crystal. <i>CrystEngComm</i> , 2014, 16, 36-38.	2.6	9
61	Microwave assisted slurry conversion crystallization for manufacturing of new co-crystals of sulfamethazine and sulfamerazine. <i>CrystEngComm</i> , 2020, 22, 1381-1394.	2.6	8
62	Supramolecular Synthons Promiscuity in Phosphoric Acid-Dihydrogen Phosphate Ionic Cocrystals. <i>Crystal Growth and Design</i> , 2022, 22, 3333-3342.	3.0	8
63	Hygroscopicity of lithium coordination polymers and their solid solutions. <i>CrystEngComm</i> , 2018, 20, 5940-5944.	2.6	6
64	Cortisone and cortisol break hydrogen-bonding rules to make a drug-prodrug solid solution. <i>IUCr</i> , 2020, 7, 1124-1130.	2.2	4
65	Hydrogen-Bond Analysis: Statistical and Computational versus Experimental Position Refinement. <i>Crystal Growth and Design</i> , 2014, 14, 3480-3484.	3.0	2
66	Crystallographic evidences of the nature of homopolar H...H interactions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s541-s541.	0.3	0
67	Design and synthesis of molecular materials: mixed crystals for finer engineering. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s59-s59.	0.1	0
68	Topochemical control in desolvation of coordination polymers. <i>IUCr</i> , 2015, 2, 166-167.	2.2	0
69	Crystallographic evidences of the nature of homopolar H...H interactions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s165-s165.	0.3	0