Matteo Lusi

List of Publications by Year in descending order

69 papers	3,516 citations	147801 31 h-index	138484 58 g-index
76 all docs	76 docs citations	76 times ranked	4027 citing authors

#	Article	IF	Citations
1	How Many Cocrystals Are We Missing? Assessing Two Crystal Engineering Approaches to Pharmaceutical Cocrystal Screening. Crystal Growth and Design, 2022, 22, 1390-1397.	3.0	17
2	Supramolecular Synthon Promiscuity in Phosphoric Acidâ€“Dihydrogen Phosphate Ionic Cocrystals. Crystal Growth and Design, 2022, 22, 3333-3342.	3.0	8
3	The role of solvation in proton transfer reactions: implications for predicting salt/co-crystal formation using the Î”pK_a rule. Faraday Discussions, 2022, 235, 446-466.	3.2	20
4	Same or different â€“ that is the question: identification of crystal forms from crystal structure data. CrystEngComm, 2020, 22, 7170-7185.	2.6	21
5	Solution and calorimetric thermodynamic study of a new 1â€‰:â€‰1 sulfamethazineâ€“3-methylsalicylic acid co-crystal. CrystEngComm, 2020, 22, 3463-3473.	2.6	10
6	Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. Journal of the American Chemical Society, 2020, 142, 6896-6901.	13.7	51
7	Microwave assisted slurry conversion crystallization for manufacturing of new co-crystals of sulfamethazine and sulfamerazine. CrystEngComm, 2020, 22, 1381-1394.	2.6	8
8	Cortisone and cortisol break hydrogen-bonding rules to make a drugâ€“prodrug solid solution. IUCrJ, 2020, 7, 1124-1130.	2.2	4
9	Graph-Set Analysis Helps To Understand Charge Transfer in a Novel Ionic Cocrystal When the Î”pK_a Rule Fails. Crystal Growth and Design, 2019, 19, 5308-5313.	3.0	19
10	Desymmetrization by Asymmetric Copper-Catalyzed Intramolecular Câ€“H Insertion Reactions of Î±-Diazo-Î²-oxosulfones. Journal of Organic Chemistry, 2019, 84, 7543-7563.	3.2	14
11	Metalâ€“Organic Self-Assembled Trefoil Knots for Câ€“Br Bond Activation. ACS Catalysis, 2019, 9, 1907-1914.	11.2	30
12	A mixed molecular salt of lithium and sodium breaks the Hume-Rothery rules for solid solutions. Chemical Communications, 2019, 55, 2297-2300.	4.1	13
13	Plasticity in zwitterionic drugs: the bending properties of Pregabalin and Gabapentin and their hydrates. IUCrJ, 2019, 6, 630-634.	2.2	30
14	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gateâ€Opening at Methane Storage Pressures. Angewandte Chemie - International Edition, 2018, 57, 5684-5689.	13.8	161
15	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gateâ€Opening at Methane Storage Pressures. Angewandte Chemie, 2018, 130, 5786-5791.	2.0	27
16	Engineering Crystal Properties through Solid Solutions. Crystal Growth and Design, 2018, 18, 3704-3712.	3.0	109
17	Cocrystals Help Break the â€œRulesâ€•of Isostructurality: Solid Solutions and Polymorphism in the Malic/Tartaric Acid System. Crystal Growth and Design, 2018, 18, 855-863.	3.0	27
18	A rough guide to molecular solid solutions: design, synthesis and characterization of mixed crystals. CrystEngComm, 2018, 20, 7042-7052.	2.6	80

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19	Hygroscopicity of lithium coordination polymers and their solid solutions. CrystEngComm, 2018, 20, 5940-5944.	2.6	6
20	The heterogeneous crystallization of a novel solvate of clozapine base in the presence of excipients. CrystEngComm, 2018, 20, 4370-4382.	2.6	13
21	Crystal Engineering Approach to Generate Crystalline Inclusion Compounds in Which 5-Hydroxyisophthalic Acid Serves as a Host. Crystal Growth and Design, 2017, 17, 959-962.	3.0	19
22	The role of weak interactions in controlling the mode of interpenetration in hybrid ultramicroporous materials. Chemical Communications, 2017, 53, 3978-3981.	4.1	33
23	Two-Step Mechanochemical Synthesis of Carbene Complexes of Palladium(II) and Platinum(II). Crystal Growth and Design, 2017, 17, 3151-3155.	3.0	19
24	Viologen-Based Conjugated Covalent Organic Networks via Zincke Reaction. Journal of the American Chemical Society, 2017, 139, 9558-9565.	13.7	228
25	Flue-gas and direct-air capture of CO ₂ by porous metalâ€“organic materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160025.	3.4	80
26	The effect of centred versus offset interpenetration on C₂H₂ sorption in hybrid ultramicroporous materials. Chemical Communications, 2017, 53, 11592-11595.	4.1	40
27	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. ACS Omega, 2017, 2, 8969-8981.	3.5	20
28	Benchmark C2H2/CO2 and CO2/C2H2 Separation by Two Closely Related Hybrid Ultramicroporous Materials. CheM, 2016, 1, 753-765.	11.7	349
29	Towards an understanding of the propensity for crystalline hydrate formation by molecular compounds. IUCrJ, 2016, 3, 430-439.	2.2	49
30	Fine-tuning of a thermosalient phase transition by solid solutions. CrystEngComm, 2016, 18, 4699-4703.	2.6	36
31	Post-synthetic modifications of cadmium-based knots and links. Chemical Communications, 2016, 52, 7398-7401.	4.1	16
32	Improving Biopharmaceutical Properties of Vinpocetine Through Cocrystallization. Journal of Pharmaceutical Sciences, 2016, 105, 3626-3633.	3.3	27
33	Investigation into the Solid and Solution Properties of Known and Novel Polymorphs of the Antimicrobial Molecule Clofazimine. Crystal Growth and Design, 2016, 16, 7240-7250.	3.0	21
34	Diversity in a simple co-crystal: racemic and kryptoracemic behaviour. Chemical Communications, 2016, 52, 8309-8312.	4.1	11
35	Theoretical Optimization of Pore Size and Chemistry in SIFSIX-3-M Hybrid Ultramicroporous Materials. Crystal Growth and Design, 2016, 16, 3890-3897.	3.0	37
36	A rare cationic building block that generates a new type of polyhedral network with â€œcross-linkedâ€• pto topology. Chemical Communications, 2016, 52, 4160-4162.	4.1	18

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37	[Câ€“Hâ‹¯anion] interactions mediate the templation and anion binding properties of topologically non-trivial metalâ€“organic structures in aqueous solutions. Chemical Science, 2016, 7, 2524-2531.	7.4	50
38	Design and synthesis of molecular materials: mixed crystals for finer engineering. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s59-s59.	0.1	0
39	Direct Air Capture of CO₂ by Physisorbent Materials. Angewandte Chemie - International Edition, 2015, 54, 14372-14377.	13.8	382
40	Topochemical control in desolvation of coordination polymers. IUCrJ, 2015, 2, 166-167.	2.2	0
41	Expanding the Scope of Molecular Mixed Crystals Enabled by Three Component Solid Solutions. Crystal Growth and Design, 2015, 15, 4098-4103.	3.0	53
42	Colloidal Cu2ZnSn(SSe)4 (CZTSSe) Nanocrystals: Shape and Crystal Phase Control to Form Dots, Arrows, Ellipsoids, and Rods. Chemistry of Materials, 2015, 27, 4742-4748.	6.7	49
43	Two-step solid-state synthesis of PEPPSI-type compounds. Chemical Communications, 2015, 51, 9632-9635.	4.1	40
44	Hydrophobic pillared square grids for selective removal of CO₂ from simulated flue gas. Chemical Communications, 2015, 51, 15530-15533.	4.1	115
45	Kitaigorodsky Revisited: Polymorphism and Mixed Crystals of Acridine/Phenazine. Chemistry - A European Journal, 2015, 21, 1735-1742.	3.3	57
46	Dynamic stereoisomerization in inherently chiral bimetallic [2]catenanes. Chemical Communications, 2015, 51, 5840-5843.	4.1	22
47	Hydrogen-Bond Analysis: Statistical and Computational versus Experimental Position Refinement. Crystal Growth and Design, 2014, 14, 3480-3484.	3.0	2
48	Temperature-dependent guest reorientation: a reversible orderâ€“disorder transformation in a single crystal. CrystEngComm, 2014, 16, 36-38.	2.6	9
49	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. Journal of the American Chemical Society, 2013, 135, 11951-11966.	13.7	102
50	On the propulsion mechanism of â€œjumpingâ€•crystals. Chemical Communications, 2013, 49, 9293.	4.1	35
51	Solidâ€“vapour reactions as a post-synthetic modification tool for molecular crystals: the enclathration of benzene and toluene by Werner complexes. Chemical Communications, 2013, 49, 2634.	4.1	19
52	Simultaneous Selfâ€Assembly of a [2]Catenane, a Trefoil Knot, and a Solomon Link from a Simple Pair of Ligands. Angewandte Chemie - International Edition, 2013, 52, 9956-9960.	13.8	99
53	Crystallographic evidences of the nature of homopolar H...H interactions. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s541-s541.	0.3	0
54	Crystallographic evidences of the nature of homopolar H...H interactions. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s165-s165.	0.3	0

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55	A mechanochemically synthesised solid solution enables engineering of the sorption properties of a Werner clathrate. Chemical Communications, 2012, 48, 12171.	4.1	31
56	Solidâ€"Vapor Sorption of Xylenes: Prioritized Selectivity as a Means of Separating All Three Isomers Using a Single Substrate. Angewandte Chemie - International Edition, 2012, 51, 3928-3931.	13.8	114
57	Determining Hydrogen Atom Positions for Hydrogen Bonded Interactions: A Distance-Dependent Neutron-Normalized Method. Crystal Growth and Design, 2011, 11, 5515-5521.	3.0	40
58	Potassium S2N-heteroscorpionates: structure and iridaboratrane formation. Dalton Transactions, 2011, 40, 4647.	3.3	21
59	Isostructural coordination polymers: epitaxis vs. solid solution. CrystEngComm, 2011, 13, 4311.	2.6	17
60	Crystal synthesis of 1,4-phenylenediamine salts and coordination networks. CrystEngComm, 2011, 13, 4324-4331.	2.6	21
61	Towards polymorphism control in coordination networks and metallo-organic salts. CrystEngComm, 2010, 12, 4403.	2.6	34
62	Crystal engineering of lattice metrics of perhalometallate salts and MOFs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16033-16038.	7.1	65
63	Isomerism in rhodium(i) N,S-donor heteroscorpionates: ring substituent and ancillary ligand effects. Dalton Transactions, 2010, 39, 11616.	3.3	16
64	General Routes to Alkyl Phosphatrioxaadamantane Ligands. Organometallics, 2008, 27, 3216-3224.	2.3	36
65	Solid state synthesis of coordination compounds from basic metal salts. CrystEngComm, 2008, 10, 1790.	2.6	96
66	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. Crystal Growth and Design, 2007, 7, 919-924.	3.0	33
67	Solution and Solid-State Preparation of 18-Crown[6] Complexes with M[HSO4]n Salts (M = NH4+, K+,) Tj ETQq1 1 0.784314 rgBT /O Chemistry - A European Journal, 2007, 13, 5249-5255.	3.3	29
68	Solid-State Interconversions of Coordination Networks and Hydrogen-Bonded Salts. Angewandte Chemie - International Edition, 2007, 46, 1124-1128.	13.8	143
69	Unprecedented mechanochemical preparation of 18Crown[6] and 15Crown[5] adducts of ammonium hydrogen sulfate by grinding or kneading. CrystEngComm, 2005, 7, 276.	2.6	35