

Lucia Maini

List of Publications by Year in descending order

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116
papers

7,073
citations

76294

40
h-index

58549

82
g-index

132
all docs

132
docs citations

132
times ranked

6943
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochemistry: opportunities for new and cleaner synthesis. <i>Chemical Society Reviews</i> , 2012, 41, 413-447.	18.7	2,281
2	Mechanochemical preparation of co-crystals. <i>Chemical Society Reviews</i> , 2013, 42, 7638.	18.7	392
3	Mechanochemical preparation of molecular and supramolecular organometallic materials and coordination networks. <i>Dalton Transactions</i> , 2006, , 1249.	1.6	266
4	From unexpected reactions to a new family of ionic co-crystals: the case of barbituric acid with alkali bromides and caesium iodide. <i>Chemical Communications</i> , 2010, 46, 7715.	2.2	159
5	The growing world of crystal forms. <i>Chemical Communications</i> , 2010, 46, 6232.	2.2	148
6	Design of organometallic molecular and ionic materials. <i>Coordination Chemistry Reviews</i> , 2001, 216-217, 225-248.	9.5	125
7	Reversible Interconversion between Luminescent Isomeric Metal-Organic Frameworks of [Cu ₄ L ₄ (DABCO) ₂] (DABCO=1,4-diazabicyclo[2.2.2]octane). <i>Chemistry - A European Journal</i> , 2010, 16, 1553-1559.	1.7	125
8	The Richest Collection of Tautomeric Polymorphs: The Case of Thiobarbituric Acid. <i>Chemistry - A European Journal</i> , 2010, 16, 4347-4358.	1.7	118
9	Design of hydrogen bonded networks based on organometallic sandwich compounds. <i>Coordination Chemistry Reviews</i> , 2003, 246, 53-71.	9.5	112
10	Polymorph and isomer conversion of complexes based on CuI and PPh ₃ easily observed via luminescence. <i>Dalton Transactions</i> , 2012, 41, 531-539.	1.6	105
11	Mechanochemical Preparation of Hydrogen-Bonded Adducts Between the Diamine 1,4-Diazabicyclo[2.2.2]octane and Dicarboxylic Acids of Variable Chain Length: An X-ray Diffraction and Solid-State NMR Study. <i>Chemistry - A European Journal</i> , 2003, 9, 5538-5548.	1.7	101
12	Ionic Co-crystals of Organic Molecules with Metal Halides: A New Prospect in the Solid Formulation of Active Pharmaceutical Ingredients. <i>Crystal Growth and Design</i> , 2011, 11, 5621-5627.	1.4	91
13	Charge-assisted N-H(+)⋯O(-) and O-H⋯O(-) hydrogen bonds control the supramolecular aggregation of ferrocenedicarboxylic acid and bis-amidines. <i>New Journal of Chemistry</i> , 2000, 24, 547-553.	1.4	88
14	Croconic Acid and Alkali Metal Croconate Salts: Some New Insights into an Old Story. <i>Chemistry - A European Journal</i> , 2002, 8, 1804.	1.7	85
15	The Thermodynamically Stable Form of Solid Barbituric Acid: The Enol Tautomer. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7924-7926.	7.2	81
16	Design, synthesis, characterization and utilization of hydrogen bonded networks based on functionalized organometallic sandwich compounds and the occurrence of crystal polymorphism. <i>Coordination Chemistry Reviews</i> , 2006, 250, 1267-1285.	9.5	75
17	Simple and quantitative mechanochemical preparation of the first zinc and copper complexes of the neuroleptic drug gabapentin. <i>CrystEngComm</i> , 2008, 10, 469.	1.3	75
18	Solid-state reactivity of copper(i) iodide: luminescent 2D-coordination polymers of CuI with saturated bidentate nitrogen bases. <i>New Journal of Chemistry</i> , 2011, 35, 339-344.	1.4	72

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19	Crystal Engineering of Organometallic Compounds through Cooperative Strong and Weak Hydrogen Bonds: A Simple Route to Mixed-Metal Systems. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2240-2242.	7.2	71
20	Crystal Polymorphism and Multiple Crystal Forms. <i>Structure and Bonding</i> , 2009, , 25-50.	1.0	71
21	Assembly of Hybrid Organic-Organometallic Materials through Mechanochemical Acid-Base Reactions. <i>Chemistry - A European Journal</i> , 2003, 9, 4362-4370.	1.7	69
22	Combining piracetam and lithium salts: ionic co-crystals and co-drugs?. <i>Chemical Communications</i> , 2012, 48, 8219.	2.2	65
23	¹ H MAS, ¹⁵ N CPMAS, and DFT Investigation of Hydrogen-Bonded Supramolecular Adducts between the Diamine 1,4-Diazabicyclo-[2.2.2]octane and Dicarboxylic Acids of Variable Chain Length. <i>Chemistry of Materials</i> , 2005, 17, 1457-1466.	3.2	60
24	Using Salt Cocrystals to Improve the Solubility of Niclosamide. <i>Crystal Growth and Design</i> , 2015, 15, 1939-1948.	1.4	58
25	Mechanochemical assembly of hydrogen bonded organic-organometallic solid compounds. <i>Chemical Communications</i> , 2002, , 2960-2961.	2.2	56
26	Supramolecular Complexation of Alkali Cations through Mechanochemical Reactions between Crystalline Solids. <i>Chemistry - A European Journal</i> , 2004, 10, 3261-3269.	1.7	52
27	Hydrogen Bonding and Dynamic Behaviour in Crystals and Polymorphs of Dicarboxylic-Diamine Adducts: A Comparison between NMR Parameters and X-ray Diffraction Studies. <i>Chemistry - A European Journal</i> , 2005, 11, 7461-7471.	1.7	52
28	Reversible trapping of acid and base vapours into an amphoteric crystalline material. <i>Chemical Communications</i> , 2001, , 2272-2273.	2.2	49
29	Structural Investigation of Poly(ethylene furanoate) Polymorphs. <i>Polymers</i> , 2018, 10, 296.	2.0	49
30	The crystal structures of chloro and methyl ortho-benzoic acids and their co-crystal: rationalizing similarities and differences. <i>CrystEngComm</i> , 2008, 10, 1848.	1.3	48
31	Novel Organometallic Building Blocks for Crystal Engineering. Synthesis and Structural Characterization of the Dicarboxylic Acid [CrO(<i>l</i> -6-C ₆ H ₅ COOH) ₂], of Two Polymorphs of Its Oxidation Derivative [Cr(<i>l</i> -6-C ₆ H ₅ COOH) ₂]+[PF ₆] ⁻ , and of the Zwitterionic Form [Cr(<i>l</i> -6-C ₆ H ₅ COOH)(<i>l</i> -6-C ₆ H ₅ COO)]. <i>Organometallics</i> , 2001, 20, 1875-1881.	1.1	47
32	Polymorphic gabapentin: thermal behaviour, reactivity and interconversion of forms in solution and solid-state. <i>New Journal of Chemistry</i> , 2008, 32, 1788.	1.4	47
33	Anions Derived from Squaric Acid Form Interionic π -Stack and Layered, Hydrogen-Bonded Superstructures with Organometallic Sandwich Cations: The Magnetic Behaviour of Crystalline [(<i>l</i> -6-C ₆ H ₆) ₂ Cr]+[HC ₄ O ₄] ²⁻ . <i>Chemistry - A European Journal</i> , 2000, 6, 1310-1317.	1.7	46
34	Unexpected solid-solid reaction upon preparation of KBr pellets and its exploitation in supramolecular cation complexation. <i>Chemical Communications</i> , 2002, , 2302-2303.	2.2	45
35	Interanionic(O ⁻)O ⁻ ...â€¦â€¦O(O ⁻) Interactions: A Solid-State and Computational Study of the Ring and Chain Motifs. <i>Chemistry - A European Journal</i> , 2000, 6, 4536-4551.	1.7	44
36	Reversible Gas-Solid Reactions between the Organometallic Zwitterion [(<i>l</i> -5-C ₅ H ₄ COOH)(<i>l</i> -5-C ₅ H ₄ COO)CoIII] and Vapors of Trifluoroacetic and Tetrafluoroboric Acids. <i>Organometallics</i> , 2002, 21, 1315-1318.	1.1	44

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37	European Research in Focus: Mechanochemistry for Sustainable Industry (COST Action) Tj ETQq1 1 0.784314 rgBT/Overlock_10 Tf 507	1.2	44
38	Solvent-free preparation of co-crystals of phenazine and acridine with vanillin. <i>Thermochimica Acta</i> , 2010, 507-508, 1-8.	1.2	42
39	Making crystals with a purpose; a journey in crystal engineering at the University of Bologna. <i>IUCr</i> , 2017, 4, 369-379.	1.0	40
40	Heteroâ€Seeding and Solid Mixture to Obtain New Crystalline Forms. <i>Chemistry - A European Journal</i> , 2009, 15, 1508-1515.	1.7	39
41	Mechanochemical preparation of copper iodide clusters of interest for luminescent devices. <i>Faraday Discussions</i> , 2014, 170, 93-107.	1.6	39
42	White luminescence achieved by a multiple thermochromic emission in a hybrid organicâ€inorganic compound based on 3-picolyamine and copper(<sc>i</sc>) iodide. <i>Dalton Transactions</i> , 2016, 45, 17939-17947.	1.6	37
43	Tunable Supramolecular Synthons and Versatile, Water-Soluble Building Blocks for Crystal Engineering: [(Î-5-C5H4COOH)2CoIII]+ and its Zwitterionic Form [(Î-5-C5H4COOH)(Î-5-C5H4COO)CoIII]. <i>Chemistry - A European Journal</i> , 2000, 6, 4227-4235.	1.7	36
44	Gasâ€solid reactions between the different polymorphic modifications of barbituric acid and amines. <i>CrystEngComm</i> , 2006, 8, 756-763.	1.3	36
45	Phosphorescence quantum yield enhanced by intermolecular hydrogen bonds in Cu4I4 clusters in the solid state. <i>Dalton Transactions</i> , 2014, 43, 9448.	1.6	35
46	1,4-Hydroxybiradical Behavior Revealed through Crystal StructureâSolid-State Reactivity Correlations. <i>Journal of the American Chemical Society</i> , 2004, 126, 3511-3520.	6.6	34
47	Organometallic building blocks for crystal engineering. Synthesis, structure and hydrogen bonding interactions in [Fe(Î-5-C5H4Î-CH2(CH3)OH)2], [Fe(Î-5-C5H3(CH3)COOH)2],		

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55	From Solid-State Structure and Dynamics to Crystal Engineering. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3597-3605.	1.0	29
56	Chloride-Modulated Insertion Reactions of Dimethylallene across the Pd-C Bond in Palladium Methyl Complexes Bearing Potentially Tridentate Pyridylthioether Ligands. <i>Organometallics</i> , 2003, 22, 3230-3238.	1.1	28
57	Reversible solid-state interconversion of rhodizonic acid H ₂ C ₆ O ₆ into H ₆ C ₆ O ₈ and the solid-state structure of the rhodizonate dianion C ₆ O ₆ ²⁻ (aromatic or non-aromatic?). <i>New Journal of Chemistry</i> , 2001, 25, 1221-1223.	1.4	27
58	Supramolecular gas-solid reaction between formic acid vapours and solid [CoIII(1-5-C ₅ H ₄ COOH)(1-5-C ₅ H ₄ COO)]. <i>Chemical Communications</i> , 2002, , 2296-2297.	2.2	27
59	Organometallic crystal engineering with multidentate building blocks and template guest size effect. Supra-anionic organic frameworks obtained from cyclobutane-1,2,3,4-tetracarboxylic and trans-acotinic acids. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 2611-2618.	1.1	26
60	Mechanical mixing of molecular crystals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 115-123.	2.0	25
61	Targeting ordered oligothiophene fibers with enhanced functional properties by interplay of self-assembly and wet lithography. <i>Journal of Materials Chemistry</i> , 2012, 22, 20852.	6.7	25
62	Chemical design enables the control of conformational polymorphism in functional 2,3-thieno(bis)imide-ended materials. <i>Chemical Communications</i> , 2015, 51, 2033-2035.	2.2	25
63	Anhydrous ionic co-crystals of cyanuric acid with LiCl and NaCl. <i>CrystEngComm</i> , 2017, 19, 1366-1369.	1.3	25
64	Switch On/Switch Off Signal in an MOF-Guest Crystalline Device. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4459-4465.	1.0	24
65	Dual luminescence in solid CuI(piperazine): hypothesis of an emissive 1-D delocalized excited state. <i>Dalton Transactions</i> , 2015, 44, 13003-13006.	1.6	24
66	Solid-state versus solution preparation of two crystal forms of [HN(CH ₂ CH ₂) ₃ NH][OOC(CH ₂)COOH] ₂ . Polymorphs or hydrogen bond isomers?. <i>Chemical Communications</i> , 2004, , 976.	2.2	23
67	Grinding of an organometallic crystalline material leads to quantitative formation of a hydrated polymorph. <i>Chemical Communications</i> , 1999, , 937-938.	2.2	22
68	Transition from a charge-opposed (+)N-H...N(+) inter-cation hydrogen bonded form of the salt [HN(CH ₂ CH ₂) ₃ N][OOC(HC≡CH)COOH] to the more traditional charge-assisted (+)N-H...O(=O) cation-anion hydrogen bonded pseudo-polymorph upon hydration. <i>CrystEngComm</i> , 2004, 6, 236-238.	1.3	22
69	Structure determination of novel ionic co-crystals from powder data: the use of rigid fragments in simulated annealing algorithms. <i>CrystEngComm</i> , 2012, 14, 3521.	1.3	21
70	Tuning polymorphism in 2,3-thienoimide capped oligothiophene based field-effect transistors by implementing vacuum and solution deposition methods. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5601-5608.	2.7	21
71	Phthalic acid, a versatile building block in organic-organometallic crystal engineering. <i>New Journal of Chemistry</i> , 1999, 23, 17-24.	1.4	20
72	Seeds obtained from a hydrated polymorph permit crystallisation of an elusive anhydrous organometallic zwitterion. <i>Chemical Communications</i> , 1999, , 1949-1950.	2.2	19

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73	The hydrogen oxalate anion allows one-dimensional columnar aggregation of organometallic sandwich cations. <i>New Journal of Chemistry</i> , 2002, 26, 1280-1286.	1.4	19
74	The mechanism of olefin exchange in platinum(0) pyridyl- ϵ -methanimine and pyridyl- ϵ -thioether complexes. A kinetic study. <i>Dalton Transactions RSC</i> , 2002, , 3696-3704.	2.3	19
75	Reversible gas-solids reactions between the organometallic zwitterion [CoIII(η -5-C ₅ H ₄ COOH)(η -5-C ₅ H ₄ COO)] and vapours of difluoro- and chloro-acetic acids. <i>CrystEngComm</i> , 2003, 5, 154-158.	1.3	19
76	Asymmetric Synthesis of 1,2-Diamines by the Addition of Allylic Zinc and Magnesium Reagents to	1.2	17
77	Thermodynamically versus Kinetically Controlled Self-Assembly of a Naphthalenediimide- ϵ -Thiophene Derivative: From Crystalline, Fluorescent, n-Type Semiconducting 1D Needles to Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16864-16871.	4.0	17
78	Supramolecular co-ordination networks constructed via pi-stacking interactions and charge-assisted hydrogen bonds. <i>CrystEngComm</i> , 1999, 1, 15.	1.3	16
79	Synergic effect of unsaturated inner bridges and polymorphism for tuning the optoelectronic properties of 2,3-thieno(bis)imide based materials. <i>Journal of Materials Chemistry C</i> , 2015, 3, 121-131.	2.7	16
80	Making and converting organometallic pseudo-polymorphs via non-solution methods. <i>Dalton Transactions RSC</i> , 2000, , 3969-3975.	2.3	15
81	Study of the regioselectivity and diastereoselectivity in the addition of 3-substituted-2-propenylmetal reagents to N,N'-di[1(S)-phenylethyl]ethanediimine. <i>Tetrahedron</i> , 2002, 58, 8679-8688.	1.0	15
82	Crystal Polymorphism and Multiple Crystal Forms. <i>Structure and Bonding</i> , 2009, , 87-95.	1.0	14
83	Crystal Forms of Enzalutamide and a Crystal Engineering Route to Drug Purification. <i>Crystal Growth and Design</i> , 2018, 18, 3774-3780.	1.4	13
84	Structure-Mechanical Relationships in Polymorphs of an Organic Semiconductor (C ₄ -NT ₃ N). <i>Crystal Growth and Design</i> , 2020, 20, 884-891.	1.4	13
85	Structural Insights into the Vapochromic Behavior of Pt- and Pd-Based Compounds. <i>Inorganic Chemistry</i> , 2021, 60, 6349-6366.	1.9	13
86	Two concomitant polymorphs and two isomorphous forms with different chemical compositions, which transform into the same substance upon thermal treatment. <i>CrystEngComm</i> , 2002, 4, 277-281.	1.3	12
87	The synthesis of palladacyclopentadienyl derivatives from rigid bis-alkynes and their use as precursors in the synthesis of fluoroanthene-like cycles under mild conditions. A reactivity investigation. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 2342-2345.	0.8	12
88	Multifunctional coordination polymers based on copper ($\langle \text{Cu} \rangle$) and mercaptonicotinic ligands: synthesis, and structural, optical and electrical characterization. <i>Dalton Transactions</i> , 2020, 49, 10545-10553.	1.6	12
89	Organometallic crystals engineering. <i>Journal of Organometallic Chemistry</i> , 2000, 593-594, 101-108.	0.8	11
90	Mechanochemistry, an Easy Technique to Boost the Synthesis of CuI Pyrazine Coordination Polymers. <i>Crystal Growth and Design</i> , 2019, 19, 4395-4403.	1.4	11

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91	Quantifying API polymorphs in formulations using X-ray powder diffraction and multivariate standard addition method combined with net analyte signal analysis. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 130, 36-43.	1.9	11
92	Mechanistic studies of heterophase protonation and deprotonation reactions of solid [CoIII($\dot{5}$ â€“C5H4COOH)($\dot{5}$ â€“C5H4COO)] using supermicroscopy. <i>CrystEngComm</i> , 2003, 5, 474-479.	1.3	10
93	Solidâ€“gas reactions between 1,3-dimethylbarbituric acid and amines. A structural and spectroscopic study. <i>New Journal of Chemistry</i> , 2007, 31, 1935.	1.4	10
94	A synergic approach of X-ray powder diffraction and Raman spectroscopy for crystal structure determination of 2,3-thienoimide capped oligothiophenes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3630-3636.	1.3	10
95	Molecular mechanics-assisted crystal engineering of solid state photoreactions: application to the Yang photocyclization of $\dot{1}$ -1-norbornylacetophenone derivatives. <i>Tetrahedron Letters</i> , 2005, 46, 1141-1144.	0.7	9
96	A novel 2D non-interpenetrated copper(I) iodide coordination polymer with trans-1,4-diaminocyclohexane. <i>Inorganica Chimica Acta</i> , 2012, 382, 162-166.	1.2	8
97	Exploring the ancient chemistry of mercury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	8
98	Crystal synthesis of hybrid organometallicâ€“inorganic hydrogen bonded salts of acid oxoanions. <i>Dalton Transactions</i> , 2004, , 2432-2437.	1.6	6
99	Crystal form selectivity by humidity control: the case of the ionic co-crystals of nicotinamide and CaCl2. <i>CrystEngComm</i> , 2014, 16, 7452-7458.	1.3	6
100	One Molecule, Four Colors: Discovering the Polymorphs of a Thieno(bis)imide Oligomer. <i>Crystal Growth and Design</i> , 2019, 19, 2594-2603.	1.4	6
101	Discovering Crystal Forms of the Novel Molecular Semiconductor OEG-BTBT. <i>Crystal Growth and Design</i> , 2022, 22, 1680-1690.	1.4	6
102	Thorough investigation on the high-temperature polymorphism of dipentyl-perylenediimide: thermal expansion <i>vs.</i> polymorphic transition. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8089-8100.	2.7	6
103	Crystal Structure and Physicochemical Characterization of Ambazone Monohydrate, Anhydrous, and Acetate Salt Solvate. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 3594-3601.	1.6	5
104	Rubbing induced reversible fluorescence switching in thiophene-based organic semiconductor films by mechanical amorphisation. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	5
105	Crystal Engineering with Ferrocene Compounds. , 0, , 465-498.		4
106	Crystal forms of the hydrogen oxalate salt of o-desmethylvenlafaxineâ€“. <i>Journal of Pharmacy and Pharmacology</i> , 2015, 67, 823-829.	1.2	4
107	Crystal growth and spectroscopic studies of new ammonium potassium zinc sulfate hexahydrate single crystal. <i>Vibrational Spectroscopy</i> , 2019, 104, 102942.	1.2	4
108	Novel Cu(I)-5-nitropyridine-2-thiol Cluster with NIR Emission: Structural and Photophysical Characterization. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10190-10198.	1.5	4

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109	From isomorphous to "œanisomorphous" ionic co-crystals of barbituric acid upon dehydration and return. CrystEngComm, 2016, 18, 4651-4657.	1.3	3
110	Hydrogen Bonding Interactions Between Ions: A Powerful Tool in Molecular Crystal Engineering. ChemInform, 2004, 35, no.	0.1	2
111	On the crystal forms of NDI-C6: annealing and deposition procedures to access elusive polymorphs. Faraday Discussions, 0, 235, 490-507.	1.6	2
112	Organometallic Crystal Engineering. , 2007, , 555-588.		1
113	Study of the Regioselectivity and Diastereoselectivity in the Addition of 3-Substituted-2-propenylmetal Reagents to N,N"²-Di[1(S)-phenylethyl]ethanediamine.. ChemInform, 2003, 34, no.	0.1	0
114	The reaction of the organometallic acid [(1-5-C5H4COOH)2CoIII]+ with HBr and HI. Preparation and characterisation of [(1-5-C5H4COOH)2CoIII]Br and [(1-5-C5H4COOH)2CoIII]I and hydrogen bridges between cations. Journal of Molecular Structure, 2003, 647, 113-119.	1.8	0
115	Direct derivation of the crystalline fraction of highly potent active pharmaceutical ingredients by X-ray powder diffraction. European Journal of Pharmaceutical Sciences, 2021, 159, 105692.	1.9	0
116	Crystal Engineering from Weakness to Strength "œ" an Overview. , 2002, , 335-353.		0