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List of Publications by Year
in descending order

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275	25,278	6233 80	7931 149
papers	citations	h-index	g-index

341	341	341	14573
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanochemistry: opportunities for new and cleaner synthesis. Chemical Society Reviews, 2012, 41, 413-447.	18.7	2,281
2	Mechanochemistry: A Force of Synthesis. ACS Central Science, 2017, 3, 13-19.	5.3	868
3	Recent Advances in Understanding the Mechanism of Cocrystal Formation via Grinding. Crystal Growth and Design, 2009, 9, 1621-1637.	1.4	637
4	Mechanochemistry for Synthesis. Angewandte Chemie - International Edition, 2020, 59, 1018-1029.	7.2	615
5	Supramolecular Control of Reactivity in the Solid State: From Templates to Ladderanes to Metalâ^'Organic Frameworks. Accounts of Chemical Research, 2008, 41, 280-291.	7.6	613
6	Supramolecular concepts and new techniques in mechanochemistry: cocrystals, cages, rotaxanes, open metalâ€"organic frameworks. Chemical Society Reviews, 2012, 41, 3493.	18.7	531
7	Real-time and in situ monitoring of mechanochemical milling reactions. Nature Chemistry, 2013, 5, 66-73.	6.6	493
8	The role of solvent in mechanochemical and sonochemical cocrystal formation: a solubility-based approach for predicting cocrystallisation outcome. CrystEngComm, 2009, 11, 418-426.	1.3	479
9	A Cocrystal Strategy to Tune the Luminescent Properties of Stilbeneâ€Type Organic Solidâ€State Materials. Angewandte Chemie - International Edition, 2011, 50, 12483-12486.	7.2	463
10	Improving Mechanical Properties of Crystalline Solids by Cocrystal Formation: New Compressible Forms of Paracetamol. Advanced Materials, 2009, 21, 3905-3909.	11.1	451
11	Rapid Roomâ€Temperature Synthesis of Zeolitic Imidazolate Frameworks by Using Mechanochemistry. Angewandte Chemie - International Edition, 2010, 49, 9640-9643.	7.2	378
12	Ionâ€•and Liquidâ€Assisted Grinding: Improved Mechanochemical Synthesis of Metalâ€"Organic Frameworks Reveals Salt Inclusion and Anion Templating. Angewandte Chemie - International Edition, 2010, 49, 712-715.	7.2	343
13	Screening for Inclusion Compounds and Systematic Construction of Three-Component Solids by Liquid-Assisted Grinding. Angewandte Chemie - International Edition, 2006, 45, 7546-7550.	7.2	339
14	Metalâ€"organic frameworks meet scalable and sustainable synthesis. Green Chemistry, 2017, 19, 2729-2747.	4.6	327
15	New opportunities for materials synthesis using mechanochemistry. Journal of Materials Chemistry, 2010, 20, 7599.	6.7	313
16	Towards medicinal mechanochemistry: evolution of milling from pharmaceutical solid form screening to the synthesis of active pharmaceutical ingredients (APIs). Chemical Communications, 2016, 52, 7760-7781.	2.2	303
17	In situ X-ray diffraction monitoring of a mechanochemical reaction reveals a unique topology metal-organic framework. Nature Communications, 2015, 6, 6662.	5.8	294
18	Applying Hot-Stage Microscopy to Co-Crystal Screening: A Study of Nicotinamide with Seven Active Pharmaceutical Ingredients. Crystal Growth and Design, 2008, 8, 1697-1712.	1.4	293

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19	Screening for Pharmaceutical Cocrystal Hydrates via Neat and Liquid-Assisted Grinding. Molecular Pharmaceutics, 2007, 4, 347-354.	2.3	288
20	Supramolecular Construction of Molecular Ladders in the Solid State. Angewandte Chemie - International Edition, 2004, 43, 232-236.	7.2	269
21	Shaping Crystals with Light: Crystal-to-Crystal Isomerization and Photomechanical Effect in Fluorinated Azobenzenes. Journal of the American Chemical Society, 2013, 135, 12556-12559.	6.6	268
22	Terahertz time-domain spectroscopy and the quantitative monitoring of mechanochemical cocrystal formation. Nature Materials, 2007, 6, 206-209.	13.3	266
23	Mechanochemical and solvent-free assembly of zirconium-based metalâ€“organic frameworks. Chemical Communications, 2016, 52, 2133-2136.	2.2	256
24	Enforced Face-to-Face Stacking of Organic Semiconductor Building Blocks within Hydrogen-Bonded Molecular Cocrystals. Journal of the American Chemical Society, 2006, 128, 2806-2807.	6.6	250
25	Mechanochemistry for Organic Chemists: An Update. European Journal of Organic Chemistry, 2018, 2018, 18-33.	1.2	245
26	Isostructural Materials Achieved by Using Structurally Equivalent Donors and Acceptors in Halogenâ€Bonded Cocrystals. Chemistry - A European Journal, 2008, 14, 747-753.	1.7	236
27	The role of mechanochemistry and supramolecular design in the development of pharmaceutical materials. CrystEngComm, 2012, 14, 2350.	1.3	226
28	Mechanochemical conversion of a metal oxide into coordination polymers and porous frameworks using liquid-assisted grinding (LAG). CrystEngComm, 2009, 11, 743.	1.3	214
29	Control and interconversion of cocrystal stoichiometry in grinding: stepwise mechanism for the formation of a hydrogen-bonded cocrystal. CrystEngComm, 2009, 11, 470-481.	1.3	204
30	Benefits of cocrystallisation in pharmaceutical materials science: an update. Journal of Pharmacy and Pharmacology, 2010, 62, 1547-1559.	1.2	200
31	In Situ Monitoring and Mechanism of the Mechanochemical Formation of a Microporous MOF-74 Framework. Journal of the American Chemical Society, 2016, 138, 2929-2932.	6.6	194
32	A Stepwise Mechanism for the Mechanochemical Synthesis of Halogen-Bonded Cocrystal Architectures. Journal of the American Chemical Society, 2008, 130, 7524-7525.	6.6	184
33	Facile Mechanosynthesis of Amorphous Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2011, 133, 14546-14549.	6.6	184
34	High Reactivity of Metalâ€“Organic Frameworks under Grinding Conditions: Parallels with Organic Molecular Materials. Angewandte Chemie - International Edition, 2010, 49, 3916-3919.	7.2	183
35	Accelerated aging: a low energy, solvent-free alternative to solvothermal and mechanochemical synthesis of metalâ€“organic materials. Chemical Science, 2012, 3, 2495-2500.	3.7	181
36	Metal-catalyzed organic reactions using mechanochemistry. Tetrahedron Letters, 2015, 56, 4253-4265.	0.7	172

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37	Solid-state dynamic combinatorial chemistry: reversibility and thermodynamic product selection in covalent mechanosynthesis. Chemical Science, 2011, 2, 696.	3.7	165
38	Laboratory Realâ€Time and In Situ Monitoring of Mechanochemical Milling Reactions by Raman Spectroscopy. Angewandte Chemie - International Edition, 2014, 53, 6193-6197.	7.2	160
39	Mechanochemistry for Synthesis. Angewandte Chemie, 2020, 132, 1030-1041.	1.6	153
40	Real-Time and In Situ Monitoring of Mechanochemical Reactions: A New Playground for All Chemists. Journal of Physical Chemistry Letters, 2015, 6, 4129-4140.	2.1	149
41	Realâ€Time Inâ€…Situ Powder Xâ€ray Diffraction Monitoring of Mechanochemical Synthesis of Pharmaceutical Cocrystals. Angewandte Chemie - International Edition, 2013, 52, 11538-11541.	7.2	141
42	Mechanochemistry. Chemical Society Reviews, 2013, 42, 7494.	18.7	139
43	Photo-mechanical azobenzene cocrystals and in situ X-ray diffraction monitoring of their optically-induced crystal-to-crystal isomerisation. Chemical Science, 2014, 5, 3158-3164.	3.7	139
44	Mechanochemical Ruthenium-Catalyzed Olefin Metathesis. Journal of the American Chemical Society, 2015, 137, 2476-2479.	6.6	134
45	Mineral neogenesis as an inspiration for mild, solvent-free synthesis of bulk microporous metalâ€“organic frameworks from metal (Zn, Co) oxides. Green Chemistry, 2013, 15, 2121.	4.6	133
46	In situ and real-time monitoring of mechanochemical milling reactions using synchrotron X-ray diffraction. Nature Protocols, 2013, 8, 1718-1729.	5.5	132
47	Single-crystal-to-single-crystal [2Â+Â2] photodimerizations: from discovery to design. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 351-363.	0.4	129
48	Benign by Design: Green and Scalable Synthesis of Zirconium UiO-Metalâ€“Organic Frameworks by Water-Assisted Mechanochemistry. ACS Sustainable Chemistry and Engineering, 2018, 6, 15841-15849.	3.2	120
49	Chemistry 2.0: Developing a New, Solvent-Free System of Chemical Synthesis Based on Mechanochemistry. Synlett, 2017, 28, 2066-2092.	1.0	119
50	A mechanochemical strategy for IRMOF assembly based on pre-designed oxo-zinc precursors. Chemical Communications, 2015, 51, 4032-4035.	2.2	117
51	Advances in Solid-State Transformations of Coordination Bonds: From the Ball Mill to the Aging Chamber. Molecules, 2017, 22, 144.	1.7	116
52	Halogen-Bonded Cocrystals as Optical Materials: Next-Generation Control over Lightâ€“Matter Interactions. Crystal Growth and Design, 2018, 18, 1245-1259.	1.4	115
53	Mechanosynthesis of pharmaceutically relevant sulfonyl-(thio)ureas. Chemical Communications, 2014, 50, 5248-5250.	2.2	114
54	Mechanosynthesis of the Metallodrug Bismuth Subsalicylate from Bi₂O₃ and Structure of Bismuth Salicylate without Auxiliary Organic Ligands. Angewandte Chemie - International Edition, 2011, 50, 7858-7861.	7.2	110

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55	Cocrystal architecture and properties: design and building of chiral and racemic structures by solidâ€“solid reactions. Faraday Discussions, 2007, 136, 167.	1.6	103
56	Development of Cï£¿N Coupling Using Mechanochemistry: Catalytic Coupling of Arylsulfonamides and Carbodiimides. Angewandte Chemie - International Edition, 2014, 53, 9321-9324.	7.2	103
57	Exploring cocrystalâ€“cocrystal reactivity via liquid-assisted grinding: the assembling of racemic and dismantling of enantiomeric cocrystals. Chemical Communications, 2006, , 5009-5011.	2.2	102
58	Towards an environmentally-friendly laboratory: dimensionality and reactivity in the mechanosynthesis of metalâ€“organic compounds. Chemical Communications, 2010, 46, 9191.	2.2	101
59	Powder X-ray Diffraction as an Emerging Method to Structurally Characterize Organic Solids. Organic Letters, 2007, 9, 3133-3136.	2.4	100
60	Guest-Directed Assembly of Caffeine and Succinic Acid into Topologically Different Heteromolecular Host Networks upon Grinding. Crystal Growth and Design, 2008, 8, 1605-1609.	1.4	100
61	â€˜Template-switchingâ€™: a supramolecular strategy for the quantitative, gram-scale construction of a molecular target in the solid state. Chemical Communications, 2003, , 1306-1307.	2.2	99
62	Testing the Sensitivity of Terahertz Spectroscopy to Changes in Molecular and Supramolecular Structure: A Study of Structurally Similar Cocrystals. Crystal Growth and Design, 2009, 9, 1452-1460.	1.4	99
63	Schiff bases derived from hydroxyaryl aldehydes: molecular and crystal structure, tautomerism, quinoid effect, coordination compounds. Macedonian Journal of Chemistry and Chemical Engineering, 2013, 29, 117.	0.2	99
64	The First Synthesis of the Sterically Encumbered Adamantoid Phosphazane P₄(N^tBu)₆: Enabled by Mechanochemistry. Angewandte Chemie - International Edition, 2016, 55, 12736-12740.	7.2	98
65	In Situ Monitoring of the Mechanosynthesis of the Archetypal Metalâ€“Organic Framework HKUST-1: Effect of Liquid Additives on the Milling Reactivity. Inorganic Chemistry, 2017, 56, 6599-6608.	1.9	98
66	Mechanochemical Phosphorylation of Polymers and Synthesis of Flame-Retardant Cellulose Nanocrystals. ACS Sustainable Chemistry and Engineering, 2019, 7, 7951-7959.	3.2	98
67	Rational Synthesis of Mixed-Metal Microporous Metalâ€“Organic Frameworks with Controlled Composition Using Mechanochemistry. Chemistry of Materials, 2019, 31, 5494-5501.	3.2	96
68	Structural Equivalence of Br and I Halogen Bonds: A Route to Isostructural Materials with Controllable Properties. Chemistry of Materials, 2008, 20, 6623-6626.	3.2	95
69	Mineral Surface in Calcified Plaque Is Like That of Bone. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 2030-2034.	1.1	95
70	Exploring the Effect of Temperature on a Mechanochemical Reaction by in Situ Synchrotron Powder X-ray Diffraction. Crystal Growth and Design, 2016, 16, 2342-2347.	1.4	93
71	Experimental and Theoretical Evaluation of the Stability of True MOF Polymorphs Explains Their Mechanochemical Interconversions. Journal of the American Chemical Society, 2017, 139, 7952-7957.	6.6	93
72	Softening and Hardening of Macroâ€•and Nanoâ€Sized Organic Cocrystals in a Singleâ€Crystal Transformation. Angewandte Chemie - International Edition, 2011, 50, 8642-8646.	7.2	92

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73	Mechanosynthesis of ultra-small monodisperse amine-stabilized gold nanoparticles with controllable size. Green Chemistry, 2014, 16, 86-89.	4.6	92
74	Template-Controlled Synthesis in the Solid-State. Topics in Current Chemistry, 0, , 201-221.	4.0	91
75	Directed assembly and reactivity of olefins within a one-dimensional ladder-like coordination polymer based on a dinuclear Zn(ii) platform. Chemical Communications, 2005, , 3974.	2.2	87
76	Multi-step and multi-component organometallic synthesis in one pot using orthogonal mechanochemical reactions. Chemical Science, 2014, 5, 3576.	3.7	87
77	Experimental and database studies of three-centered halogen bonds with bifurcated acceptors present in molecular crystals, cocrystals and salts. CrystEngComm, 2011, 13, 3224.	1.3	85
78	Scalable Mechanochemical Amorphization of Bimetallic Cuâ^'Zn MOF-74 Catalyst for Selective CO₂ Reduction Reaction to Methanol. ACS Applied Materials & Interfaces, 2021, 13, 3070-3077.	4.0	84
79	Mechanochemistry of magnesium oxide revisited: facile derivatisation of pharmaceuticals using coordination and supramolecular chemistry. Chemical Communications, 2010, 46, 6368.	2.2	82
80	Mechanochemical synthesis of Au, Pd, Ru and Re nanoparticles with lignin as a bio-based reducing agent and stabilizing matrix. Faraday Discussions, 2014, 170, 155-167.	1.6	81
81	A model for a solvent-free synthetic organic research laboratory: click-mechanosynthesis and structural characterization of thioureas without bulk solvents. Green Chemistry, 2012, 14, 2462.	4.6	80
82	Click Mechanochemistry: Quantitative Synthesis of â€œReady to Useâ€•Chiral Organocatalysts by Efficient Twoâ€Fold Thiourea Coupling to Vicinal Diamines. Chemistry - A European Journal, 2012, 18, 8464-8473.	1.7	79
83	Predicting stoichiometry and structure of solvates. Chemical Communications, 2010, 46, 2224.	2.2	78
84	Halogen-bonded cocrystallization with phosphorus, arsenic and antimony acceptors. Nature Communications, 2019, 10, 61.	5.8	78
85	A cocrystallisation-based strategy to construct isostructural solids. New Journal of Chemistry, 2008, 32, 1776.	1.4	77
86	Enthalpy vs. friction: heat flow modelling of unexpected temperature profiles in mechanochemistry of metalâ€“organic frameworks. Chemical Science, 2018, 9, 2525-2532.	3.7	77
87	Desymmetrisation of aromatic diamines and synthesis of non-symmetrical thiourea derivatives by click-mechanochemistry. Chemical Communications, 2012, 48, 9705.	2.2	76
88	Design and Construction of a 2D Metal Organic Framework with Multiple Cavities:Â A Nonregular Net with a Paracyclophane that Codes for Multiply Fused Nodes. Journal of the American Chemical Society, 2005, 127, 14160-14161.	6.6	75
89	New solid forms of artemisinin obtained through cocrystallisation. CrystEngComm, 2010, 12, 4038.	1.3	75
90	A stepwise mechanism and the role of water in the liquid-assisted grinding synthesis of metalâ€“organic materials. CrystEngComm, 2010, 12, 2409.	1.3	74

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91	Trapping Reactive Intermediates by Mechanochemistry: Elusive Aryl Nâ€Thiocarbamoylbenzotriazoles as Benchâ€Stable Reagents. Angewandte Chemie - International Edition, 2015, 54, 8440-8443.	7.2	74
92	Quantitative in situ and real-time monitoring of mechanochemical reactions. Faraday Discussions, 2014, 170, 203-221.	1.6	73
93	Controlling the Polymorphism and Topology Transformation in Porphyrinic Zirconium Metalâ€“Organic Frameworks via Mechanochemistry. Journal of the American Chemical Society, 2019, 141, 19214-19220.	6.6	73
94	Solventâ€Free Enzyme Activity: Quick, Highâ€Yielding Mechanoenzymatic Hydrolysis of Cellulose into Glucose. Angewandte Chemie - International Edition, 2018, 57, 2621-2624.	7.2	72
95	Carbon Dioxide Sensitivity of Zeolitic Imidazolate Frameworks. Angewandte Chemie - International Edition, 2014, 53, 7471-7474.	7.2	71
96	Heteroditopic Rebek's Imide Directs the Reactivity of Homoditopic Olefins within Desolvated Quaternary Assemblies in the Solid State. Angewandte Chemie - International Edition, 2006, 45, 646-650.	7.2	70
97	Exploring the relationship between cocrystal stability and symmetry: is Wallach's rule applicable to multi-component solids?. Chemical Communications, 2008, , 1644.	2.2	70
98	A mechanochemical strategy for oxidative addition: remarkable yields and stereoselectivity in the halogenation of organometallic Re(<scp>i</scp>) complexes. Green Chemistry, 2014, 16, 1087-1092.	4.6	70
99	Tandem In Situ Monitoring for Quantitative Assessment of Mechanochemical Reactions Involving Structurally Unknown Phases. Chemistry - A European Journal, 2017, 23, 13941-13949.	1.7	70
100	Reversing the code of a template-directed solid-state synthesis: a bipyridine template that directs a single-crystal-to-single-crystal [2 + 2] photodimerisation of a dicarboxylic acid. Chemical Communications, 2005, , 5748.	2.2	69
101	The Mineral Phase of Calcified Cartilage: Its Molecular Structure and Interface with the Organic Matrix. Biophysical Journal, 2009, 96, 3372-3378.	0.2	67
102	Clean and Efficient Synthesis Using Mechanochemistry: Coordination Polymers, Metal-Organic Frameworks and Metallodrugs. Croatica Chemica Acta, 2012, 85, 367-378.	0.1	67
103	A Test for Homology:â€‰ Photoactive Crystalline Assemblies Involving Linear Templates Based on a Homologous Series of Phloroglucinols. Organic Letters, 2004, 6, 4647-4650.	2.4	64
104	Manometric real-time studies of the mechanochemical synthesis of zeolitic imidazolate frameworks. Chemical Science, 2020, 11, 2141-2147.	3.7	64
105	Green and rapid mechanosynthesis of high-porosity NU- and UiO-type metalâ€“organic frameworks. Chemical Communications, 2018, 54, 6999-7002.	2.2	63
106	A Threeâ€Component Modular Strategy to Extend and Link Coordination Complexes by Using Halogen Bonds to O, S and Ïâ€ Acceptors. Chemistry - A European Journal, 2010, 16, 7400-7403.	1.7	62
107	Enzymatic depolymerization of highly crystalline polyethylene terephthalate enabled in moist-solid reaction mixtures. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	62
108	Oneâ€Pot Mechanosynthesis with Three Levels of Molecular Selfâ€Assembly: Coordination Bonds, Hydrogen Bonds and Hostâ€“Guest Inclusion. Chemistry - A European Journal, 2009, 15, 12644-12652.	1.7	61

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109	One-step, solvent-free mechanosynthesis of silver nanoparticle-infused lignin composites for use as highly active multidrug resistant antibacterial filters. RSC Advances, 2016, 6, 58365-58370.	1.7	61
110	Modification of luminescent properties of a coumarin derivative by formation of multi-component crystals. CrystEngComm, 2012, 14, 5121.	1.3	59
111	The effect of milling frequency on a mechanochemical organic reaction monitored by in situ Raman spectroscopy. Beilstein Journal of Organic Chemistry, 2017, 13, 2160-2168.	1.3	58
112	Highly Photostable and Fluorescent Microporous Solids Prepared via Solid-State Entrapment of Boron Dipyrromethene Dyes in a Nascent Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 16882-16887.	6.6	56
113	Simple, scalable mechanosynthesis of metalâ€“organic frameworks using liquid-assisted resonant acoustic mixing (LA-RAM). Chemical Science, 2020, 11, 7578-7584.	3.7	55
114	Tunable recognition of the steroid Î±-face by adjacent Ï€-electron density. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13216-13221.	3.3	54
115	General application of mechanochemistry to templated solid-state reactivity: rapid and solvent-free access to crystalline supermolecules. Chemical Communications, 2008, , 5713.	2.2	52
116	Oxidative Mechanochemistry: Direct, Roomâ€Temperature, Solventâ€Free Conversion of Palladium and Gold Metals into Soluble Salts and Coordination Complexes. Angewandte Chemie - International Edition, 2018, 57, 2667-2671.	7.2	52
117	Hypergolic zeolitic imidazolate frameworks (ZIFs) as next-generation solid fuels: Unlocking the latent energetic behavior of ZIFs. Science Advances, 2019, 5, eaav9044.	4.7	52
118	Mechanosynthesis of nitrosobenzenes: a proof-of-principle study in combining solvent-free synthesis with solvent-free separations. Green Chemistry, 2012, 14, 1597.	4.6	50
119	Persistent One-Dimensional Face-to-Face Ï€-Stacks within Organic Cocrystals. Crystal Growth and Design, 2006, 6, 2427-2428.	1.4	49
120	Challenging the Ostwald rule of stages in mechanochemical cocrystallisation. Chemical Science, 2020, 11, 10092-10100.	3.7	49
121	Minerals with metal-organic framework structures. Science Advances, 2016, 2, e1600621.	4.7	48
122	Efficient and Rapid Mechanochemical Assembly of Platinum(II) Squares for Guanine Quadruplex Targeting. Journal of the American Chemical Society, 2017, 139, 16913-16922.	6.6	48
123	Mechanoenzymatic Breakdown of Chitinous Material to Nâ€Acetylglucosamine: The Benefits of a Solventless Environment. ChemSusChem, 2019, 12, 3481-3490.	3.6	47
124	Solid state grinding as a tool to aid enantiomeric resolution by cocrystallisation. Chemical Communications, 2012, 48, 11340.	2.2	46
125	Mimicking mineral neogenesis for the clean synthesis of metalâ€“organic materials from mineral feedstocks: coordination polymers, MOFs and metal oxide separation. Green Chemistry, 2014, 16, 121-132.	4.6	46
126	Highlights from Faraday discussion 170: Challenges and opportunities of modern mechanochemistry, Montreal, Canada, 2014. Chemical Communications, 2015, 51, 6248-6256.	2.2	45

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127	Microporosity of a Guanidinium Organodisulfonate Hydrogenâ€Bonded Framework. Angewandte Chemie - International Edition, 2020, 59, 1997-2002.	7.2	45
128	Introducing Students to Mechanochemistry via Environmentally Friendly Organic Synthesis Using a Solvent-Free Mechanochemical Preparation of the Antidiabetic Drug Tolbutamide. Journal of Chemical Education, 2019, 96, 766-771.	1.1	44
129	Engineering cocrystal and polymorph architecture via pseudoseeding. Chemical Communications, 2009, , 773.	2.2	43
130	Accelerated ageing reactions: towards simpler, solvent-free, low energy chemistry. Green Chemistry, 2020, 22, 5881-5901.	4.6	43
131	A Large Family of Halogen-Bonded Cocrystals Involving Metalâ€“Organic Building Blocks with Open Coordination Sites. Crystal Growth and Design, 2017, 17, 6169-6173.	1.4	42
132	Comparison of isomericmeta- andpara-diiodotetrafluorobenzene as halogen bond donors in crystal engineering. New Journal of Chemistry, 2018, 42, 10584-10591.	1.4	42
133	Real-Time in Situ Monitoring of Particle and Structure Evolution in the Mechanochemical Synthesis of UiO-66 Metalâ€“Organic Frameworks. Crystal Growth and Design, 2020, 20, 49-54.	1.4	42
134	Switching between halogen- and hydrogen-bonding in stoichiometric variations of a cocrystal of a phosphine oxide. CrystEngComm, 2012, 14, 6110.	1.3	41
135	Synthesis of an extended halogen-bonded metalâ€“organic structure in a one-pot mechanochemical reaction that combines covalent bonding, coordination chemistry and supramolecular synthesis. CrystEngComm, 2014, 16, 10169-10172.	1.3	41
136	Controlling Dichroism of Molecular Crystals by Cocrystallization. Crystal Growth and Design, 2016, 16, 541-545.	1.4	41
137	A chlorine-free protocol for processing germanium. Science Advances, 2017, 3, e1700149.	4.7	41
138	A rational approach to screen for hydrated forms of the pharmaceutical derivative magnesium naproxen using liquid-assisted grinding. CrystEngComm, 2011, 13, 3125.	1.3	40
139	Photo-induced motion of azo dyes in organized media: from single and liquid crystals, to MOFs and machines. CrystEngComm, 2016, 18, 7204-7211.	1.3	40
140	In situ monitoring of mechanochemical synthesis of calcium urea phosphate fertilizer cocrystal reveals highly effective water-based autocatalysis. Chemical Science, 2020, 11, 2350-2355.	3.7	40
141	Mechanically Activated Solvent-Free Assembly of Ultrasmall Bi₂S₃ Nanoparticles: A Novel, Simple, and Sustainable Means To Access Chalcogenide Nanoparticles. Chemistry of Materials, 2017, 29, 7766-7773.	3.2	39
142	Computational evaluation of metal pentazolate frameworks: inorganic analogues of azolate metalâ€“organic frameworks. Chemical Science, 2018, 9, 3367-3375.	3.7	39
143	Mechanoenzymatic Transformations in the Absence of Bulk Water: A More Natural Way of Using Enzymes. ChemBioChem, 2020, 21, 742-758.	1.3	38
144	Cu²⁺ sorption from aqueous media by a recyclable Ca²⁺ framework. Inorganic Chemistry Frontiers, 2017, 4, 773-781.	3.0	37

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145	Mechanochemical methods for the transfer of electrons and exchange of ions: inorganic reactivity from nanoparticles to organometallics. Chemical Society Reviews, 2021, 50, 8279-8318.	18.7	37
146	Supercritical Carbon Dioxide Enables Rapid, Clean, and Scalable Conversion of a Metal Oxide into Zeolitic Metalâ€“Organic Frameworks. Crystal Growth and Design, 2018, 18, 3222-3228.	1.4	36
147	Linker Substituents Control the Thermodynamic Stability in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 21720-21729.	6.6	36
148	In situ monitoring of mechanochemical covalent organic framework formation reveals templating effect of liquid additive. CheM, 2021, 7, 1639-1652.	5.8	36
149	Observation of a two-dimensional halogen-bonded cocrystal at sub-monolayer coverage using synchrotron X-ray diffraction. Chemical Communications, 2011, 47, 2526-2528.	2.2	35
150	Azoâ‹¯phenyl stacking: a persistent self-assembly motif guides the assembly of fluorinated cis-azobenzenes into photo-mechanical needle crystals. Chemical Communications, 2016, 52, 2103-2106.	2.2	35
151	Efficient Enzymatic Hydrolysis of Biomass Hemicellulose in the Absence of Bulk Water. Molecules, 2019, 24, 4206.	1.7	35
152	Solventâ€Free Enzyme Activity: Quick, Highâ€Yielding Mechanoenzymatic Hydrolysis of Cellulose into Glucose. Angewandte Chemie, 2018, 130, 2651-2654.	1.6	34
153	Sizeâ€Control by Anion Templating in Mechanochemical Synthesis of Hemicucurbiturils in the Solid State. Angewandte Chemie - International Edition, 2019, 58, 6230-6234.	7.2	34
154	Solvent-Free Mechanochemical Synthesis of Ultrasmall Nickel Phosphide Nanoparticles and Their Application as a Catalyst for the Hydrogen Evolution Reaction (HER). ACS Sustainable Chemistry and Engineering, 2020, 8, 12014-12024.	3.2	34
155	Toward Mechanistic Understanding of Mechanochemical Reactions Using Real-Time In Situ Monitoring. Accounts of Chemical Research, 2022, 55, 1262-1277.	7.6	34
156	Mechanochemistry: a web themed issue. Chemical Communications, 2013, 49, 5349.	2.2	33
157	Cyclophanes and Ladderanes: Molecular Targets for Supramolecular Chemists. Supramolecular Chemistry, 2005, 17, 47-51.	1.5	32
158	Functionality in metalâ€“organic framework minerals: proton conductivity, stability and potential for polymorphism. Chemical Science, 2019, 10, 4923-4929.	3.7	32
159	One-step ligand exchange and switching from hydrophobic to water-stable hydrophilic superparamagnetic iron oxide nanoparticles by mechanochemical milling. Chemical Communications, 2016, 52, 3054-3057.	2.2	31
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