

Tomislav Friscic

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279
papers

19,878
citations

73
h-index

134
g-index

341
ext. papers

22,677
ext. citations

8
avg, IF

7.48
L-index

#	Paper	IF	Citations
279	Mechanochemistry: opportunities for new and cleaner synthesis. <i>Chemical Society Reviews</i> , 2012 , 41, 413-47	58.5	1832
278	Mechanochemistry: A Force of Synthesis. <i>ACS Central Science</i> , 2017 , 3, 13-19	16.8	575
277	Supramolecular control of reactivity in the solid state: from templates to ladderanes to metal-organic frameworks. <i>Accounts of Chemical Research</i> , 2008 , 41, 280-91	24.3	553
276	Recent Advances in Understanding the Mechanism of Cocrystal Formation via Grinding. <i>Crystal Growth and Design</i> , 2009 , 9, 1621-1637	3.5	546
275	Supramolecular concepts and new techniques in mechanochemistry: cocrystals, cages, rotaxanes, open metal-organic frameworks. <i>Chemical Society Reviews</i> , 2012 , 41, 3493-510	58.5	459
274	Real-time and in situ monitoring of mechanochemical milling reactions. <i>Nature Chemistry</i> , 2013 , 5, 66-73	17.6	407
273	Improving Mechanical Properties of Crystalline Solids by Cocrystal Formation: New Compressible Forms of Paracetamol. <i>Advanced Materials</i> , 2009 , 21, 3905-3909	24	404
272	A cocrystal strategy to tune the luminescent properties of stilbene-type organic solid-state materials. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12483-6	16.4	396
271	The role of solvent in mechanochemical and sonochemical cocrystal formation: a solubility-based approach for predicting cocrystallisation outcome. <i>CrystEngComm</i> , 2009 , 11, 418-426	3.3	379
270	Mechanochemistry for Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1018-1029	16.4	317
269	Rapid room-temperature synthesis of zeolitic imidazolate frameworks by using mechanochemistry. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9640-3	16.4	312
268	Ion- and liquid-assisted grinding: improved mechanochemical synthesis of metal-organic frameworks reveals salt inclusion and anion templating. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 712-5	16.4	290
267	Screening for inclusion compounds and systematic construction of three-component solids by liquid-assisted grinding. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7546-50	16.4	288
266	Screening for pharmaceutical cocrystal hydrates via neat and liquid-assisted grinding. <i>Molecular Pharmaceutics</i> , 2007 , 4, 347-54	5.6	265
265	New opportunities for materials synthesis using mechanochemistry. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7599		258
264	Applying Hot-Stage Microscopy to Co-Crystal Screening: A Study of Nicotinamide with Seven Active Pharmaceutical Ingredients. <i>Crystal Growth and Design</i> , 2008 , 8, 1697-1712	3.5	258
263	Supramolecular construction of molecular ladders in the solid state. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 232-6	16.4	246

262	Shaping crystals with light: crystal-to-crystal isomerization and photomechanical effect in fluorinated azobenzenes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12556-9	16.4	226
261	Terahertz time-domain spectroscopy and the quantitative monitoring of mechanochemical cocrystal formation. <i>Nature Materials</i> , 2007 , 6, 206-9	27	225
260	Enforced face-to-face stacking of organic semiconductor building blocks within hydrogen-bonded molecular cocrystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2806-7	16.4	225
259	In situ X-ray diffraction monitoring of a mechanochemical reaction reveals a unique topology metal-organic framework. <i>Nature Communications</i> , 2015 , 6, 6662	17.4	221
258	Metal-organic frameworks meet scalable and sustainable synthesis. <i>Green Chemistry</i> , 2017 , 19, 2729-2747	10	220
257	Towards medicinal mechanochemistry: evolution of milling from pharmaceutical solid form screening to the synthesis of active pharmaceutical ingredients (APIs). <i>Chemical Communications</i> , 2016 , 52, 7760-81	5.8	220
256	Isostructural materials achieved by using structurally equivalent donors and acceptors in halogen-bonded cocrystals. <i>Chemistry - A European Journal</i> , 2008 , 14, 747-53	4.8	210
255	Mechanochemical and solvent-free assembly of zirconium-based metal-organic frameworks. <i>Chemical Communications</i> , 2016 , 52, 2133-6	5.8	194
254	The role of mechanochemistry and supramolecular design in the development of pharmaceutical materials. <i>CrystEngComm</i> , 2012 , 14, 2350	3.3	194
253	Control and interconversion of cocrystal stoichiometry in grinding: stepwise mechanism for the formation of a hydrogen-bonded cocrystal. <i>CrystEngComm</i> , 2009 , 11, 470-481	3.3	184
252	Benefits of cocrystallisation in pharmaceutical materials science: an update. <i>Journal of Pharmacy and Pharmacology</i> , 2010 , 62, 1547-59	4.8	181
251	Mechanochemical conversion of a metal oxide into coordination polymers and porous frameworks using liquid-assisted grinding (LAG). <i>CrystEngComm</i> , 2009 , 11, 743	3.3	179
250	A stepwise mechanism for the mechanochemical synthesis of halogen-bonded cocrystal architectures. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7524-5	16.4	172
249	Mechanochemistry for Organic Chemists: An Update. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 18-33	3.2	167
248	High reactivity of metal-organic frameworks under grinding conditions: parallels with organic molecular materials. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3916-9	16.4	163
247	Facile mechanosynthesis of amorphous zeolitic imidazolate frameworks. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14546-9	16.4	155
246	Accelerated aging: a low energy, solvent-free alternative to solvothermal and mechanochemical synthesis of metal-organic materials. <i>Chemical Science</i> , 2012 , 3, 2495	9.4	152
245	Metal-catalyzed organic reactions using mechanochemistry. <i>Tetrahedron Letters</i> , 2015 , 56, 4253-4265	2	151

244	In Situ Monitoring and Mechanism of the Mechanochemical Formation of a Microporous MOF-74 Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2929-32	16.4	143
243	Solid-state dynamic combinatorial chemistry: reversibility and thermodynamic product selection in covalent mechanosynthesis. <i>Chemical Science</i> , 2011 , 2, 696	9.4	129
242	Laboratory real-time and in situ monitoring of mechanochemical milling reactions by Raman spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6193-7	16.4	126
241	Mechanochemical ruthenium-catalyzed olefin metathesis. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2476-9	16.4	117
240	Real-time in situ powder X-ray diffraction monitoring of mechanochemical synthesis of pharmaceutical cocrystals. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11538-41	16.4	116
239	Mineral neogenesis as an inspiration for mild, solvent-free synthesis of bulk microporous metal-organic frameworks from metal (Zn, Co) oxides. <i>Green Chemistry</i> , 2013 , 15, 2121	10	112
238	Single-crystal-to-single-crystal [2 + 2] photodimerizations: from discovery to design. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005 , 220, 351-363	1	111
237	Real-Time and In Situ Monitoring of Mechanochemical Reactions: A New Playground for All Chemists. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4129-40	6.4	110
236	Photo-mechanical azobenzene cocrystals and in situ X-ray diffraction monitoring of their optically-induced crystal-to-crystal isomerisation. <i>Chemical Science</i> , 2014 , 5, 3158-3164	9.4	109
235	In situ and real-time monitoring of mechanochemical milling reactions using synchrotron X-ray diffraction. <i>Nature Protocols</i> , 2013 , 8, 1718-29	18.8	99
234	Mechanosynthesis of pharmaceutically relevant sulfonyl-(thio)ureas. <i>Chemical Communications</i> , 2014 , 50, 5248-50	5.8	98
233	Cocrystal architecture and properties: design and building of chiral and racemic structures by solid-solid reactions. <i>Faraday Discussions</i> , 2007 , 136, 167-78; discussion 213-29	3.6	98
232	Mechanosynthesis of the metallodrug bismuth subsalicylate from Bi ₂ O ₃ and structure of bismuth salicylate without auxiliary organic ligands. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7858-61	16.4	97
231	Guest-Directed Assembly of Caffeine and Succinic Acid into Topologically Different Heteromolecular Host Networks upon Grinding. <i>Crystal Growth and Design</i> , 2008 , 8, 1605-1609	3.5	95
230	Exploring cocrystal-cocrystal reactivity via liquid-assisted grinding: the assembling of racemic and dismantling of enantiomeric cocrystals. <i>Chemical Communications</i> , 2006 , 5009-11	5.8	95
229	A mechanochemical strategy for IRMOF assembly based on pre-designed oxo-zinc precursors. <i>Chemical Communications</i> , 2015 , 51, 4032-5	5.8	94
228	Powder X-ray diffraction as an emerging method to structurally characterize organic solids. <i>Organic Letters</i> , 2007 , 9, 3133-6	6.2	94
227	Chemistry 2.0: Developing a New, Solvent-Free System of Chemical Synthesis Based on Mechanochemistry. <i>Synlett</i> , 2017 , 28, 2066-2092	2.2	93

226	Towards an environmentally-friendly laboratory: dimensionality and reactivity in the mechanosynthesis of metal-organic compounds. <i>Chemical Communications</i> , 2010 , 46, 9191-3	5.8	91
225	Halogen-Bonded Cocrystals as Optical Materials: Next-Generation Control over Light-Matter Interactions. <i>Crystal Growth and Design</i> , 2018 , 18, 1245-1259	3.5	91
224	Template-switching—a supramolecular strategy for the quantitative, gram-scale construction of a molecular target in the solid state. <i>Chemical Communications</i> , 2003 , 1306-1307	5.8	88
223	Schiff bases derived from hydroxyaryl aldehydes: molecular and crystal structure, tautomerism, quinoid effect, coordination compounds. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2013 , 29, 117	1.1	88
222	Development of C-N coupling using mechanochemistry: catalytic coupling of arylsulfonamides and carbodiimides. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9321-4	16.4	87
221	Mineral surface in calcified plaque is like that of bone: further evidence for regulated mineralization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 2030-4	9.4	86
220	Template-Controlled Synthesis in the Solid-State. <i>Topics in Current Chemistry</i> , 2005 , 201-221		86
219	Softening and hardening of macro- and nano-sized organic cocrystals in a single-crystal transformation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8642-6	16.4	85
218	Structural Equivalence of Br and I Halogen Bonds: A Route to Isostructural Materials with Controllable Properties. <i>Chemistry of Materials</i> , 2008 , 20, 6623-6626	9.6	85
217	Directed assembly and reactivity of olefins within a one-dimensional ladder-like coordination polymer based on a dinuclear Zn(II) platform. <i>Chemical Communications</i> , 2005 , 3974-6	5.8	85
216	Advances in Solid-State Transformations of Coordination Bonds: From the Ball Mill to the Aging Chamber. <i>Molecules</i> , 2017 , 22,	4.8	84
215	Testing the Sensitivity of Terahertz Spectroscopy to Changes in Molecular and Supramolecular Structure: A Study of Structurally Similar Cocrystals. <i>Crystal Growth and Design</i> , 2009 , 9, 1452-1460	3.5	83
214	A Cocrystal Strategy to Tune the Luminescent Properties of Stilbene-Type Organic Solid-State Materials. <i>Angewandte Chemie</i> , 2011 , 123, 12691-12694	3.6	81
213	Experimental and database studies of three-centered halogen bonds with bifurcated acceptors present in molecular crystals, cocrystals and salts. <i>CrystEngComm</i> , 2011 , 13, 3224	3.3	80
212	Benign by Design: Green and Scalable Synthesis of Zirconium UiO-Metal-Organic Frameworks by Water-Assisted Mechanochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15841-15849	8.3	77
211	Exploring the Effect of Temperature on a Mechanochemical Reaction by in Situ Synchrotron Powder X-ray Diffraction. <i>Crystal Growth and Design</i> , 2016 , 16, 2342-2347	3.5	76
210	Multi-step and multi-component organometallic synthesis in one pot using orthogonal mechanochemical reactions. <i>Chemical Science</i> , 2014 , 5, 3576	9.4	76
209	Ion- and Liquid-Assisted Grinding: Improved Mechanochemical Synthesis of Metal-Organic Frameworks Reveals Salt Inclusion and Anion Templating. <i>Angewandte Chemie</i> , 2010 , 122, 724-727	3.6	74

208	Mechanosynthesis of ultra-small monodisperse amine-stabilized gold nanoparticles with controllable size. <i>Green Chemistry</i> , 2014 , 16, 86-89	10	73
207	Rapid Room-Temperature Synthesis of Zeolitic Imidazolate Frameworks by Using Mechanochemistry. <i>Angewandte Chemie</i> , 2010 , 122, 9834-9837	3.6	73
206	Mechanochemical synthesis of Au, Pd, Ru and Re nanoparticles with lignin as a bio-based reducing agent and stabilizing matrix. <i>Faraday Discussions</i> , 2014 , 170, 155-67	3.6	72
205	Mechanochemistry of magnesium oxide revisited: facile derivatisation of pharmaceuticals using coordination and supramolecular chemistry. <i>Chemical Communications</i> , 2010 , 46, 6368-70	5.8	72
204	Predicting stoichiometry and structure of solvates. <i>Chemical Communications</i> , 2010 , 46, 2224-6	5.8	72
203	In Situ Monitoring of the Mechanochemical Synthesis of the Archetypal Metal-Organic Framework HKUST-1: Effect of Liquid Additives on the Milling Reactivity. <i>Inorganic Chemistry</i> , 2017 , 56, 6599-6608	5.1	71
202	Click mechanochemistry: quantitative synthesis of "ready to use" chiral organocatalysts by efficient two-fold thiourea coupling to vicinal diamines. <i>Chemistry - A European Journal</i> , 2012 , 18, 8464-73	4.8	71
201	Mechanochemistry for Synthesis. <i>Angewandte Chemie</i> , 2020 , 132, 1030-1041	3.6	71
200	New solid forms of artemisinin obtained through cocrystallisation. <i>CrystEngComm</i> , 2010 , 12, 4038	3.3	70
199	The First Synthesis of the Sterically Encumbered Adamantoid Phosphazane P4 (N(t) Bu) ₆ : Enabled by Mechanochemistry. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12736-40	16.4	69
198	A model for a solvent-free synthetic organic research laboratory: click-mechanosynthesis and structural characterization of thioureas without bulk solvents. <i>Green Chemistry</i> , 2012 , 14, 2462	10	68
197	A cocrystallisation-based strategy to construct isostructural solids. <i>New Journal of Chemistry</i> , 2008 , 32, 1776	3.6	68
196	Design and construction of a 2D metal organic framework with multiple cavities: a nonregular net with a paracyclophane that codes for multiply fused nodes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14160-1	16.4	68
195	Experimental and Theoretical Evaluation of the Stability of True MOF Polymorphs Explains Their Mechanochemical Interconversions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7952-7957	16.4	65
194	A stepwise mechanism and the role of water in the liquid-assisted grinding synthesis of metal-organic materials. <i>CrystEngComm</i> , 2010 , 12, 2409	3.3	65
193	Carbon dioxide sensitivity of zeolitic imidazolate frameworks. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7471-4	16.4	64
192	Desymmetrisation of aromatic diamines and synthesis of non-symmetrical thiourea derivatives by click-mechanochemistry. <i>Chemical Communications</i> , 2012 , 48, 9705-7	5.8	64
191	Exploring the relationship between cocrystal stability and symmetry: is Wallach's rule applicable to multi-component solids?. <i>Chemical Communications</i> , 2008 , 1644-6	5.8	64

190	Heteroditopic Rebek's imide directs the reactivity of homoditopic olefins within desolvated quaternary assemblies in the solid state. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 646-50	16.4	64
189	Mechanochemical Phosphorylation of Polymers and Synthesis of Flame-Retardant Cellulose Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7951-7959	8.3	63
188	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. <i>Chemical Communications</i> , 2005 , 5748-50	5.8	63
187	Halogen-bonded cocrystallization with phosphorus, arsenic and antimony acceptors. <i>Nature Communications</i> , 2019 , 10, 61	17.4	60
186	Trapping Reactive Intermediates by Mechanochemistry: Elusive Aryl N-Thiocarbamoylbenzotriazoles as Bench-Stable Reagents. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8440-3	16.4	59
185	A test for homology: photoactive crystalline assemblies involving linear templates based on a homologous series of phloroglucinols. <i>Organic Letters</i> , 2004 , 6, 4647-50	6.2	59
184	A mechanochemical strategy for oxidative addition: remarkable yields and stereoselectivity in the halogenation of organometallic Re(I) complexes. <i>Green Chemistry</i> , 2014 , 16, 1087-1092	10	58
183	The mineral phase of calcified cartilage: its molecular structure and interface with the organic matrix. <i>Biophysical Journal</i> , 2009 , 96, 3372-8	2.9	58
182	Screening for Inclusion Compounds and Systematic Construction of Three-Component Solids by Liquid-Assisted Grinding. <i>Angewandte Chemie</i> , 2006 , 118, 7708-7712	3.6	57
181	Quantitative in situ and real-time monitoring of mechanochemical reactions. <i>Faraday Discussions</i> , 2014 , 170, 203-21	3.6	56
180	One-pot mechanosynthesis with three levels of molecular self-assembly: coordination bonds, hydrogen bonds and host-guest inclusion. <i>Chemistry - A European Journal</i> , 2009 , 15, 12644-52	4.8	56
179	Modification of luminescent properties of a coumarin derivative by formation of multi-component crystals. <i>CrystEngComm</i> , 2012 , 14, 5121	3.3	55
178	Clean and Efficient Synthesis Using Mechanochemistry: Coordination Polymers, Metal-Organic Frameworks and Metallodrugs. <i>Croatica Chemica Acta</i> , 2012 , 85, 367-378	0.8	55
177	A three-component modular strategy to extend and link coordination complexes by using halogen bonds to O, S and pi acceptors. <i>Chemistry - A European Journal</i> , 2010 , 16, 7400-3	4.8	55
176	Supramolecular Construction of Molecular Ladders in the Solid State. <i>Angewandte Chemie</i> , 2004 , 116, 234-238	3.6	55
175	Tandem In Situ Monitoring for Quantitative Assessment of Mechanochemical Reactions Involving Structurally Unknown Phases. <i>Chemistry - A European Journal</i> , 2017 , 23, 13941-13949	4.8	52
174	Solvent-Free Enzyme Activity: Quick, High-Yielding Mechanoenzymatic Hydrolysis of Cellulose into Glucose. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2621-2624	16.4	52
173	Enthalpy friction: heat flow modelling of unexpected temperature profiles in mechanochemistry of metal-organic frameworks. <i>Chemical Science</i> , 2018 , 9, 2525-2532	9.4	52

172	One-step, solvent-free mechanochemical synthesis of silver nanoparticle-infused lignin composites for use as highly active multidrug resistant antibacterial filters. <i>RSC Advances</i> , 2016 , 6, 58365-58370	3.7	52
171	Rational Synthesis of Mixed-Metal Microporous Metal-Organic Frameworks with Controlled Composition Using Mechanochemistry. <i>Chemistry of Materials</i> , 2019 , 31, 5494-5501	9.6	49
170	Tunable recognition of the steroid alpha-face by adjacent pi-electron density. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13216-21	11.5	48
169	Mechanochemical synthesis of nitrosobenzenes: a proof-of-principle study in combining solvent-free synthesis with solvent-free separations. <i>Green Chemistry</i> , 2012 , 14, 1597	10	46
168	Persistent One-Dimensional Face-to-Face π -Stacks within Organic Cocrystals. <i>Crystal Growth and Design</i> , 2006 , 6, 2427-2428	3.5	46
167	General application of mechanochemistry to templated solid-state reactivity: rapid and solvent-free access to crystalline supermolecules. <i>Chemical Communications</i> , 2008 , 5713-5	5.8	45
166	Engineering cocrystal and polymorph architecture via pseudoseeding. <i>Chemical Communications</i> , 2009 , 773-5	5.8	41
165	The effect of milling frequency on a mechanochemical organic reaction monitored by in situ Raman spectroscopy. <i>Beilstein Journal of Organic Chemistry</i> , 2017 , 13, 2160-2168	2.5	40
164	A Large Family of Halogen-Bonded Cocrystals Involving Metal-Organic Building Blocks with Open Coordination Sites. <i>Crystal Growth and Design</i> , 2017 , 17, 6169-6173	3.5	39
163	Mimicking mineral neogenesis for the clean synthesis of metal-organic materials from mineral feedstocks: coordination polymers, MOFs and metal oxide separation. <i>Green Chemistry</i> , 2014 , 16, 121-132 ¹⁰		39
162	Solid state grinding as a tool to aid enantiomeric resolution by cocrystallisation. <i>Chemical Communications</i> , 2012 , 48, 11340-2	5.8	39
161	Green and rapid mechanochemical synthesis of high-porosity NU- and UiO-type metal-organic frameworks. <i>Chemical Communications</i> , 2018 , 54, 6999-7002	5.8	39
160	Highlights from Faraday Discussion 170: challenges and opportunities of modern mechanochemistry, Montreal, Canada, 2014. <i>Chemical Communications</i> , 2015 , 51, 6248-56	5.8	38
159	Laboratory Real-Time and In Situ Monitoring of Mechanochemical Milling Reactions by Raman Spectroscopy. <i>Angewandte Chemie</i> , 2014 , 126, 6307-6311	3.6	38
158	Synthesis of an extended halogen-bonded metal-organic structure in a one-pot mechanochemical reaction that combines covalent bonding, coordination chemistry and supramolecular synthesis. <i>CrystEngComm</i> , 2014 , 16, 10169-10172	3.3	38
157	High Reactivity of Metal-Organic Frameworks under Grinding Conditions: Parallels with Organic Molecular Materials. <i>Angewandte Chemie</i> , 2010 , 122, 4008-4011	3.6	38
156	Highly Photostable and Fluorescent Microporous Solids Prepared via Solid-State Entrapment of Boron Dipyrromethene Dyes in a Nascent Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16882-16887	16.4	38
155	Oxidative Mechanochemistry: Direct, Room-Temperature, Solvent-Free Conversion of Palladium and Gold Metals into Soluble Salts and Coordination Complexes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2667-2671	16.4	36

154	A rational approach to screen for hydrated forms of the pharmaceutical derivative magnesium naproxen using liquid-assisted grinding. <i>CrystEngComm</i> , 2011 , 13, 3125	3.3	36
153	Controlling the Polymorphism and Topology Transformation in Porphyrinic Zirconium Metal-Organic Frameworks via Mechanochemistry. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19214-19220	16.4	36
152	Switching between halogen- and hydrogen-bonding in stoichiometric variations of a cocrystal of a phosphine oxide. <i>CrystEngComm</i> , 2012 , 14, 6110	3.3	35
151	Observation of a two-dimensional halogen-bonded cocrystal at sub-monolayer coverage using synchrotron X-ray diffraction. <i>Chemical Communications</i> , 2011 , 47, 2526-8	5.8	35
150	Manometric real-time studies of the mechanochemical synthesis of zeolitic imidazolate frameworks. <i>Chemical Science</i> , 2020 , 11, 2141-2147	9.4	35
149	Efficient and Rapid Mechanochemical Assembly of Platinum(II) Squares for Guanine Quadruplex Targeting. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16913-16922	16.4	34
148	Introducing Students to Mechanochemistry via Environmentally Friendly Organic Synthesis Using a Solvent-Free Mechanochemical Preparation of the Antidiabetic Drug Tolbutamide. <i>Journal of Chemical Education</i> , 2019 , 96, 766-771	2.4	34
147	Photo-induced motion of azo dyes in organized media: from single and liquid crystals, to MOFs and machines. <i>CrystEngComm</i> , 2016 , 18, 7204-7211	3.3	34
146	Development of C-N Coupling Using Mechanochemistry: Catalytic Coupling of Arylsulfonamides and Carbodiimides. <i>Angewandte Chemie</i> , 2014 , 126, 9475-9478	3.6	34
145	Comparison of isomeric meta- and para-diiodotetrafluorobenzene as halogen bond donors in crystal engineering. <i>New Journal of Chemistry</i> , 2018 , 42, 10584-10591	3.6	33
144	Controlling Dichroism of Molecular Crystals by Cocrystallization. <i>Crystal Growth and Design</i> , 2016 , 16, 541-545	3.5	33
143	Hypergolic zeolitic imidazolate frameworks (ZIFs) as next-generation solid fuels: Unlocking the latent energetic behavior of ZIFs. <i>Science Advances</i> , 2019 , 5, eaav9044	14.3	31
142	Computational evaluation of metal pentazolate frameworks: inorganic analogues of azolate metal-organic frameworks. <i>Chemical Science</i> , 2018 , 9, 3367-3375	9.4	31
141	Minerals with metal-organic framework structures. <i>Science Advances</i> , 2016 , 2, e1600621	14.3	31
140	Mechanoenzymatic Breakdown of Chitinous Material to N-Acetylglucosamine: The Benefits of a Solventless Environment. <i>ChemSusChem</i> , 2019 , 12, 3481-3490	8.3	30
139	Cyclophanes and Ladderanes: Molecular Targets for Supramolecular Chemists. <i>Supramolecular Chemistry</i> , 2005 , 17, 47-51	1.8	30
138	A chlorine-free protocol for processing germanium. <i>Science Advances</i> , 2017 , 3, e1700149	14.3	29
137	Azo-phenyl stacking: a persistent self-assembly motif guides the assembly of fluorinated cis-azobenzenes into photo-mechanical needle crystals. <i>Chemical Communications</i> , 2016 , 52, 2103-6	5.8	29

- 136 Cu²⁺ sorption from aqueous media by a recyclable Ca²⁺ framework. *Inorganic Chemistry Frontiers*, **2017**, 4, 773-781 6.8 28
- 135 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 9.6 27
- 134 Crystal engineering rescues a solution organic synthesis in a cocrystallization that confirms the configuration of a molecular ladder. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 10974-9 11.5 27
- 133 A Step Towards a [2.2]Paracyclophane: A Single Crystal to Single Crystal Reaction Involving a Hydrogen-Bonded Molecular Assembly with Multiple Reaction Centres. *Australian Journal of Chemistry*, **2006**, 59, 613 1.2 27
- 132 Real-Time In Situ Powder X-ray Diffraction Monitoring of Mechanochemical Synthesis of Pharmaceutical Cocrystals. *Angewandte Chemie*, **2013**, 125, 11752-11755 3.6 26
- 131 Assembly and dichroism of a four-component halogen-bonded metal-organic cocrystal salt solvate involving dicyanoaurate(I) acceptors. *Faraday Discussions*, **2017**, 203, 441-457 3.6 25
- 130 Fluorinated azobenzenes with highly strained geometries for halogen bond-driven self-assembly in the solid state. *CrystEngComm*, **2015**, 17, 73-80 3.3 25
- 129 Functionality in metal-organic framework minerals: proton conductivity, stability and potential for polymorphism. *Chemical Science*, **2019**, 10, 4923-4929 9.4 24
- 128 Supercritical Carbon Dioxide Enables Rapid, Clean, and Scalable Conversion of a Metal Oxide into Zeolitic Metal-Organic Frameworks. *Crystal Growth and Design*, **2018**, 18, 3222-3228 3.5 24
- 127 One-step ligand exchange and switching from hydrophobic to water-stable hydrophilic superparamagnetic iron oxide nanoparticles by mechanochemical milling. *Chemical Communications*, **2016**, 52, 3054-7 5.8 24
- 126 Characterisation of organic solid forms and real-time in situ monitoring of their transformations using solid-state fluorescence. *CrystEngComm*, **2013**, 15, 5100 3.3 24
- 125 monitoring of mechanochemical synthesis of calcium urea phosphate fertilizer cocrystal reveals highly effective water-based autocatalysis. *Chemical Science*, **2020**, 11, 2350-2355 9.4 23
- 124 Solvent-Free Enzyme Activity: Quick, High-Yielding Mechanoenzymatic Hydrolysis of Cellulose into Glucose. *Angewandte Chemie*, **2018**, 130, 2651-2654 3.6 23
- 123 Mechanoenzymatic Transformations in the Absence of Bulk Water: A More Natural Way of Using Enzymes. *ChemBioChem*, **2020**, 21, 742-758 3.8 23
- 122 Redox-promoted associative assembly of metal-organic materials. *Chemical Science*, **2016**, 7, 707-712 9.4 22
- 121 Theoretical Prediction and Experimental Evaluation of Topological Landscape and Thermodynamic Stability of a Fluorinated Zeolitic Imidazolate Framework. *Chemistry of Materials*, **2019**, 31, 3777-3783 9.6 22
- 120 Simple, scalable mechanosynthesis of metal-organic frameworks using liquid-assisted resonant acoustic mixing (LA-RAM). *Chemical Science*, **2020**, 11, 7578-7584 9.4 22
- 119 In situ monitoring of vapour-induced assembly of pharmaceutical cocrystals using a benchtop powder X-ray diffractometer. *Chemical Communications*, **2016**, 52, 5120-3 5.8 22

118	Isostructural organic binary-host frameworks with tuneable and diversely decorated inclusion cavities. <i>CrystEngComm</i> , 2012 , 14, 7898	3.3	22
117	Self-assembled metal-organic squares derived from linear templates as exemplified by a polydentate ligand that provides access to both a polygon and polyhedron. <i>Chemical Communications</i> , 2004 , 270-1	5.8	22
116	Real-Time in Situ Monitoring of Particle and Structure Evolution in the Mechanochemical Synthesis of UiO-66 Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2020 , 20, 49-54	3.5	22
115	Accelerated ageing reactions: towards simpler, solvent-free, low energy chemistry. <i>Green Chemistry</i> , 2020 , 22, 5881-5901	10	22
114	Size-Control by Anion Templating in Mechanochemical Synthesis of Hemicucurbiturils in the Solid State. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6230-6234	16.4	21
113	The First Synthesis of the Sterically Encumbered Adamantoid Phosphazane P4(NtBu)6: Enabled by Mechanochemistry. <i>Angewandte Chemie</i> , 2016 , 128, 12928-12932	3.6	21
112	Rapid and facile solvent-free mechanosynthesis in a cell lysis mill: preparation and mechanochemical complexation of aminobenzoquinones. <i>CrystEngComm</i> , 2014 , 16, 7180	3.3	21
111	Mechanosynthesis of the Metallodrug Bismuth Subsalcylate from Bi2O3 and Structure of Bismuth Salicylate without Auxiliary Organic Ligands. <i>Angewandte Chemie</i> , 2011 , 123, 8004-8007	3.6	21
110	Torsion Angle Effect on the Activation of UiO Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15788-15794	9.5	20
109	Solvent-Free Mechanochemical Synthesis of Ultrasmall Nickel Phosphide Nanoparticles and Their Application as a Catalyst for the Hydrogen Evolution Reaction (HER). <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12014-12024	8.3	20
108	Solid-state mechanochemical Functionalization of poly(ethylene glycol). <i>Beilstein Journal of Organic Chemistry</i> , 2017 , 13, 1963-1968	2.5	19
107	Use of a "Shoe-Last" Solid-State Template in the Mechanochemical Synthesis of High-Porosity RHO-Zinc Imidazolate. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10104-10108	16.4	19
106	Welcoming Gallium- and Indium-Fumarate MOFs to the Family: Synthesis, Comprehensive Characterization, Observation of Porous Hydrophobicity, and CO Dynamics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28582-28596	9.5	19
105	[2.2]Paracyclophane as a Target of the Organic Solid State: Emergent Properties via Supramolecular Construction. <i>Israel Journal of Chemistry</i> , 2012 , 52, 53-59	3.4	19
104	Softening and Hardening of Macro- and Nano-Sized Organic Cocrystals in a Single-Crystal Transformation. <i>Angewandte Chemie</i> , 2011 , 123, 8801-8805	3.6	19
103	Double inclusion of ferrocene within a doubly interpenetrated three-dimensional framework based on a resorcin[4]arene. <i>Journal of Organometallic Chemistry</i> , 2003 , 666, 43-48	2.3	19
102	Challenging the Ostwald rule of stages in mechanochemical cocrystallisation. <i>Chemical Science</i> , 2020 , 11, 10092-10100	9.4	19
101	Efficient Enzymatic Hydrolysis of Biomass Hemicellulose in the Absence of Bulk Water. <i>Molecules</i> , 2019 , 24,	4.8	19

100	Experimental and Theoretical Investigation of Structures, Stoichiometric Diversity, and Bench Stability of Cocrystals with a Volatile Halogen Bond Donor. <i>Crystal Growth and Design</i> , 2018 , 18, 2387-2398	3.5	18
99	Heteroditopic Rebek's Imide Directs the Reactivity of Homoditopic Olefins within Desolvated Quaternary Assemblies in the Solid State. <i>Angewandte Chemie</i> , 2006 , 118, 662-666	3.6	18
98	Towards the systematic crystallisation of molecular ionic cocrystals: insights from computed crystal form landscapes. <i>Faraday Discussions</i> , 2018 , 211, 401-424	3.6	17
97	Trapping Reactive Intermediates by Mechanochemistry: Elusive Aryl N-Thiocarbamoylbenzotriazoles as Bench-Stable Reagents. <i>Angewandte Chemie</i> , 2015 , 127, 8560-8563	3.6	17
96	Towards Controlling the Reactivity of Enzymes in Mechanochemistry: Inert Surfaces Protect β -Glucosidase Activity During Ball Milling. <i>ChemSusChem</i> , 2020 , 13, 106-110	8.3	17
95	Carbodiimide insertion into sulfonimides: one-step route to azepine derivatives via a two-atom saccharin ring expansion. <i>Chemical Communications</i> , 2017 , 53, 901-904	5.8	16
94	Thermodynamic Evidence of Structural Transformations in CO-Loaded Metal-Organic Framework Zn(MeIm) from Heat Capacity Measurements. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4833-4841	16.4	16
93	Molecular Recognition of Steroid Hormones in the Solid State: Stark Differences in Cocrystallization of β -Estradiol and Estrone. <i>Crystal Growth and Design</i> , 2015 , 15, 1492-1501	3.5	16
92	Supramolecular imidazolium frameworks: direct analogues of metal azolate frameworks with charge-inverted node-and-linker structure. <i>Chemical Communications</i> , 2015 , 51, 8924-7	5.8	15
91	Heat capacity and thermodynamic functions of crystalline and amorphous forms of the metal organic framework zinc 2-ethylimidazolate, Zn(EtIm) ₂ . <i>Journal of Chemical Thermodynamics</i> , 2018 , 116, 341-351	2.9	15
90	Microporosity of a Guanidinium Organodisulfonate Hydrogen-Bonded Framework. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1997-2002	16.4	15
89	Understanding geology through crystal engineering: coordination complexes, coordination polymers and metal-organic frameworks as minerals. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018 , 74, 539-559	1.8	15
88	Scalable Mechanochemical Amorphization of Bimetallic Cu-Zn MOF-74 Catalyst for Selective CO Reduction Reaction to Methanol. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3070-3077	9.5	15
87	Hypergolic Triggers as Co-crystal Formers: Co-crystallization for Creating New Hypergolic Materials with Tunable Energy Content. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18399-18404	16.4	14
86	Disappearing Polymorphs in Metal-Organic Framework Chemistry: Unexpected Stabilization of a Layered Polymorph over an Interpenetrated Three-Dimensional Structure in Mercury Imidazolate. <i>Chemistry - A European Journal</i> , 2020 , 26, 1811-1818	4.8	14
85	Oxidative Mechanochemistry: Direct, Room-Temperature, Solvent-Free Conversion of Palladium and Gold Metals into Soluble Salts and Coordination Complexes. <i>Angewandte Chemie</i> , 2018 , 130, 2697-2701	3.6	13
84	Combined diffraction and density functional theory calculations of halogen-bonded cocrystal monolayers. <i>Langmuir</i> , 2013 , 29, 14903-11	4	13
83	Isostructurality in three-component crystals achieved by the combination of persistent hydrogen bonding motifs and solvent inclusion. <i>CrystEngComm</i> , 2013 , 15, 1332	3.3	13

82	Contrasts between organic participation in apatite biomineralization in brachiopod shell and vertebrate bone identified by nuclear magnetic resonance spectroscopy. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 282-8	4.1	13
81	Linker Substituents Control the Thermodynamic Stability in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21720-21729	16.4	12
80	Mechanochemical Synthesis of Short DNA Fragments. <i>Chemistry - A European Journal</i> , 2020 , 26, 8857-8861	18	12
79	The monolayer structure of 1,2-bis(4-pyridyl)ethylene physisorbed on a graphite surface. <i>Molecular Physics</i> , 2013 , 111, 73-79	1.7	12
78	Metal-Organic Frameworks as Fuels for Advanced Applications: Evaluating and Modifying the Combustion Energy of Popular MOFs. <i>Chemistry of Materials</i> , 2019 , 31, 4882-4888	9.6	11
77	Mechanochemical Synthesis, Accelerated Aging, and Thermodynamic Stability of the Organic Mineral Pectite and Its Cadmium Analogue. <i>ACS Omega</i> , 2019 , 4, 5486-5495	3.9	11
76	Catalytic Room-Temperature C-N Coupling of Amides and Isocyanates by Using Mechanochemistry. <i>ChemSusChem</i> , 2020 , 13, 2966-2972	8.3	11
75	A Template-Controlled Solid-State Reaction for the Organic Chemistry Laboratory. <i>Journal of Chemical Education</i> , 2005 , 82, 1679	2.4	11
74	Heat capacity and thermodynamic functions of crystalline forms of the metal-organic framework zinc 2-methylimidazolate, Zn(MeIm) ₂ . <i>Journal of Chemical Thermodynamics</i> , 2019 , 136, 160-169	2.9	9
73	Ab Initio Prediction of Metal-Organic Framework Structures. <i>Chemistry of Materials</i> , 2020 , 32, 5835-5844	9.6	9
72	NMR-Enhanced Crystallography Aids Open Metal-Organic Framework Discovery Using Solvent-Free Accelerated Aging. <i>Chemistry of Materials</i> , 2020 , 32, 4273-4281	9.6	9
71	Environmentally-Friendly Designs and Syntheses of Metal-Organic Frameworks (MOFs). <i>ACS Symposium Series</i> , 2014 , 161-183	0.4	9
70	Air oxidation of sulfur mustard gas simulants using a pyrene-based metal-organic framework photocatalyst. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 2422-2427	3	9
69	Open versus Interpenetrated: Switchable Supramolecular Trajectories in Mechanochemical Synthesis of a Halogen-Bonded Borromean Network. <i>CheM</i> , 2021 , 7, 146-154	16.2	9
68	Enzymatic depolymerization of highly crystalline polyethylene terephthalate enabled in moist-solid reaction mixtures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
67	Geomimetic approaches in the design and synthesis of metal-organic frameworks. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180221	3	8
66	Carbon Dioxide Sensitivity of Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie</i> , 2014 , 126, 7601-7604	16	8
65	Three-component molecular assembly using mechanochemical grinding. <i>Annales De Chimie: Science Des Matériaux</i> , 2009 , 34, 415-428	2.1	8

64	Rapid mechanoenzymatic saccharification of lignocellulosic biomass without bulk water or chemical pre-treatment. <i>Green Chemistry</i> , 2020 , 22, 3877-3884	10	8
63	Mechanochemical methods for the transfer of electrons and exchange of ions: inorganic reactivity from nanoparticles to organometallics. <i>Chemical Society Reviews</i> , 2021 , 50, 8279-8318	58.5	8
62	The Morpholinyl Oxygen Atom as an Acceptor Site for Halogen-Bonded Cocrystallization of Organic and Metal-Organic Units. <i>Crystal Growth and Design</i> , 2020 , 20, 3617-3624	3.5	7
61	Metal-Organic Frameworks: Mechanochemical Synthesis Strategies 2014 , 1-19		7
60	Monolayer structures of 4,4'-bipyridine on graphite at sub-monolayer coverage. <i>Molecular Physics</i> , 2011 , 109, 477-481	1.7	7
59	Microporosity of a Guanidinium Organodisulfonate Hydrogen-Bonded Framework. <i>Angewandte Chemie</i> , 2020 , 132, 2013-2018	3.6	7
58	Total Syntheses Supramolecular Style: Solid-State Construction of [2.2]Cyclophanes with Modular Control of Stereochemistry. <i>Crystal Growth and Design</i> , 2020 , 20, 2584-2589	3.5	7
57	A diverse view of science to catalyse change. <i>Nature Chemistry</i> , 2020 , 12, 773-776	17.6	7
56	In situ monitoring of mechanochemical covalent organic framework formation reveals templating effect of liquid additive. <i>CheM</i> , 2021 , 7, 1639-1652	16.2	7
55	Cocrystal trimorphism as a consequence of the orthogonality of halogen- and hydrogen-bonds synthons. <i>Chemical Communications</i> , 2019 , 55, 14066-14069	5.8	7
54	Database Investigation of Halogen Bonding and Halogen-Halogen Interactions between Porphyrins: Emergence of Robust Supramolecular Motifs and Frameworks. <i>Crystal Growth and Design</i> , 2021 , 21, 1810-1832	3.5	7
53	Halogen bonding to the azulene π -system: cocrystal design of pleochroism. <i>Chemical Communications</i> , 2020 , 56, 15145-15148	5.8	6
52	Hypergolic Triggers as Co-crystal Formers: Co-crystallization for Creating New Hypergolic Materials with Tunable Energy Content. <i>Angewandte Chemie</i> , 2019 , 131, 18570-18575	3.6	6
51	Clean Enzymatic depolymerization of highly crystalline polyethylene terephthalate in moist-solid reaction mixtures		6
50	Solvent-free ageing reactions of rare earth element oxides: from geomimetic synthesis of new metal-organic materials towards a simple, environmentally friendly separation of scandium. <i>Green Chemistry</i> , 2020 , 22, 4364-4375	10	5
49	Mechanochemical reactions of cocrystals: comparing theory with experiment in the making and breaking of halogen bonds in the solid state. <i>Chemical Communications</i> , 2020 , 56, 8293-8296	5.8	5
48	Mechanochemical nanoparticle functionalization for liquid crystal nanocomposites based on COOH-pyridine heterosynthons. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1789-1796	7.1	5
47	Why pregnenolone and progesterone, two structurally similar steroids, exhibit remarkably different cocrystallization with aromatic molecules. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 898-904	3.6	5

46	Mechanochemistry vs. solution growth: striking differences in bench stability of a cimetidine salt based on a synthetic method. <i>CrystEngComm</i> , 2018 , 20, 7242-7247	3.3	5
45	Mechanochemistry in transition metal-catalyzed reactions. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 32, 100524	7.9	5
44	Investigation of BINOL-3,3'-dicarboxylate as a ligand for the formation of extended coordination-based structures. <i>Supramolecular Chemistry</i> , 2018 , 30, 488-503	1.8	4
43	Crystal and molecular structure of Rebek's imide. <i>Journal of Chemical Crystallography</i> , 2004 , 34, 171-174	0.5	4
42	Enantiomeric bis(micro-N,N'-hexamethylenedisalicylaldiminato)dicopper(II) complexes. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002 , 58, m313-5		4
41	Crystal and molecular structure of trans,trans-9,10-bis(4-pyridylethenyl)anthracene. <i>Journal of Structural Chemistry</i> , 2005 , 46, S171-S174	0.9	4
40	Size-Control by Anion Templating in Mechanochemical Synthesis of Hemicucurbiturils in the Solid State. <i>Angewandte Chemie</i> , 2019 , 131, 6296-6300	3.6	3
39	Drug-Nutraceutical Co-Crystal and Salts for Making New and Improved Bi-Functional Analgesics. <i>Pharmaceutics</i> , 2020 , 12,	6.4	3
38	Exploring the Scope of Macrocyclic "Shoe-last" Templates in the Mechanochemical Synthesis of RHO Topology Zeolitic Imidazolate Frameworks (ZIFs). <i>Molecules</i> , 2020 , 25,	4.8	3
37	Chapter 7:Ball-milling Mechanochemical Synthesis of Coordination Bonds: Discrete Units, Polymers and Porous Materials. <i>RSC Green Chemistry</i> ,151-189	0.9	3
36	He I photoelectron spectra and gas-phase electronic structures of end-functionalized [3]- and [5]-ladderanes. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1493-6	2.8	3
35	Increasing the Landscape of Structural Motifs in Co-crystals of Resorcinols with Ditopic Aromatics: A One-dimensional Stacked Hydrogen-Bonded Polymer Involving a Phenanthroline. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 456, 155-162	0.5	3
34	From Mineralogy to Crystal Engineering: Potential for Polymorphism in the MetalOrganic Framework Mineral Zhemchuzhnikovite and Its Synthetic Analogues. <i>Crystal Growth and Design</i> , 2020 , 20, 525-532	3.5	3
33	Real-Time Observation of "Soft" Magic-Size Clusters during Hydrolysis of the Model Metallodrug Bismuth Disalicylate. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16332-16336	16.4	3
32	A Truly Polymorphic Issue in Honor of Prof Joel Bernstein. <i>Crystal Growth and Design</i> , 2020 , 20, 2819-2823	3.5	2
31	Naturally occurring metal-organic frameworks. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015 , 71, s57-s58	1.7	2
30	Chapter 8:Application of Mechanochemistry in the Synthesis and Discovery of New Pharmaceutical Forms: Co-crystals, Salts and Coordination Compounds. <i>RSC Drug Discovery Series</i> , 2011 , 154-187	0.6	2
29	Using terahertz time-domain spectroscopy to identify pharmaceutical cocrystals 2007 ,		2

28	Mechanochemical Metathesis between AgNO and NaX (X = Cl, Br, I) and AgXNO Double-Salt Formation. <i>Inorganic Chemistry</i> , 2020 , 59, 12200-12208	5.1	2
27	A Diverse View of Science to Catalyse Change. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18306-18310	6.1	1
26	Thermodynamics Model for Mechanochemical Synthesis of Gold Nanoparticles: Implications for Solvent-Free Nanoparticle Production. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1886-1897	5.6	2
25	Mechanochemistry for sustainable and efficient dehydrogenation/hydrogenation. <i>Canadian Journal of Chemistry</i> , 2021 , 99, 93-112	0.9	2
24	Time-Dependent Density-Functional Theory for Modeling Solid-State Fluorescence Emission of Organic Multicomponent Crystals. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 7514-7521	2.8	2
23	'Template-switching': a supramolecular strategy for the quantitative, gram-scale construction of a molecular target in the solid state. <i>Chemical Communications</i> , 2003 , 1306-7	5.8	2
22	No regioselectivity for the steroid β -face in cocrystallization of exemestane with aromatic cocrystal formers based on phenanthrene and pyrene. <i>Canadian Journal of Chemistry</i> , 2020 , 98, 386-393	0.9	1
21	Supramolecular Interactions 2012 ,		1
20	A diverse view of science to catalyse change: valuing diversity leads to scientific excellence, the progress of science and, most importantly, it is simply the right thing to do. We must value diversity not only in words, but also in actions. <i>Canadian Journal of Chemistry</i> , 2020 , 98, 597-600	0.9	1
19	Rapid mechanoenzymatic saccharification of lignocellulosic biomass without bulk water or chemical pre-treatment		1
18	Frontispiece: Mechanochemical Synthesis of Short DNA Fragments. <i>Chemistry - A European Journal</i> , 2020 , 26,	4.8	1
17	A diverse view of science to catalyse change. <i>Croatica Chemica Acta</i> , 2020 , 93, 77-81	0.8	1
16	Professor William Jones and His Materials Chemistry Group: Innovations and Advances in the Chemistry of Solids. <i>Crystal Growth and Design</i> , 2019 , 19, 1479-1487	3.5	1
15	Inverted metal-organic frameworks: isorecticular decoration with organic anions using principles of supramolecular chemistry. <i>Journal of Coordination Chemistry</i> , 2021 , 74, 169-177	1.6	1
14	Metal-organic frameworks as hypergolic additives for hybrid rockets.. <i>Chemical Science</i> , 2022 , 13, 3424-3436	4.16	1
13	Toward Mechanochemical Synthesis of Metal-Organic Frameworks: From Coordination Polymers and Lattice Inclusion Compounds to Porous Materials 2010 , 267-299		0
12	Metal-Catalyzed Organic Reactions by Resonant Acoustic Mixing**. <i>Angewandte Chemie</i> , 2021 , 15030	3.6	0
11	Metal-Catalyzed Organic Reactions by Resonant Acoustic Mixing.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202115030	16.4	0

- 10 A Diverse View of Science to Catalyse Change. *Angewandte Chemie*, **2020**, 132, 18462-18466 3.6 ○
- 9 After 200 Years: The Structure of Bleach and Characterization of Hypohalite Ions by Single-Crystal X-Ray Diffraction*. *Angewandte Chemie - International Edition*, **2021**, 60, 24400-24405 16.4 ○
- 8 Simplifying and expanding the scope of boron imidazolate framework (BIF) synthesis using mechanochemistry. *Chemical Science*, **2021**, 12, 14499-14506 9.4 ○
- 7 Rücktitelbild: Size-Control by Anion Templating in Mechanochemical Synthesis of Hemicucurbiturils in the Solid State (Angew. Chem. 19/2019). *Angewandte Chemie*, **2019**, 131, 6524-6524 3.6
- 6 Cover Feature: Mechanochemistry for Organic Chemists: An Update (Eur. J. Org. Chem. 1/2018). *European Journal of Organic Chemistry*, **2018**, 2018, 2-2 3.2
- 5 Mechanochemically Enhanced Organic Transformations **2018**, 155-182
- 4 Carbon: Inorganic Chemistry **2015**, 1-16
- 3 Innenrücktitelbild: Real-Time In Situ Powder X-ray Diffraction Monitoring of Mechanochemical Synthesis of Pharmaceutical Cocrystals (Angew. Chem. 44/2013). *Angewandte Chemie*, **2013**, 125, 11881-11881 3.6
- 2 A new class of anionic metallohelicates based on salicylic and terephthalic acid units, accessible in solution and by mechanochemistry. *Chemical Communications*, **2021**, 57, 5143-5146 5.8
- 1 Making Crystals by Reactions in Crystals. Supramolecular Approaches to Crystal-to-Crystal Transformations within Molecular Co-Crystals 176-192