

# Elena Boldyreva

## List of Publications by Year in descending order

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Version: 2024-02-01

315  
papers

8,460  
citations

47004

47  
h-index

71682

76  
g-index

325  
all docs

325  
docs citations

325  
times ranked

5578  
citing authors

#	ARTICLE	IF	CITATIONS
1	Substituting steel for a polymer in a jar for ball milling does matter. CrystEngComm, 2022, 24, 1700-1703.	2.6	9
2	Crystallography relevant to Mars and Galilean icy moons: crystal behavior of kieserite-type monohydrate sulfates at extraterrestrial conditions down to 15 K. IUCrJ, 2022, 9, 194-203.	2.2	6
3	Relating Excited States to the Dynamics of Macroscopic Strain in Photoresponsive Crystals. Inorganic Chemistry, 2022, 61, 3573-3585.	4.0	9
4	Clathrate Hydrates of Organic Solvents as Auxiliary Intermediates in Pharmaceutical Research and Development: Improving Dissolution Behaviour of a New Anti-Tuberculosis Drug, Perchlozon. Pharmaceutics, 2022, 14, 495.	4.5	1
5	Defogging the view through a milling jar. Nature Chemistry, 2022, 14, 10-12.	13.6	5
6	A new monohydrated molecular salt of GABA with l-tartaric acid: the structure-forming role of water. CrystEngComm, 2021, 23, 6086-6092.	2.6	1
7	Role of Mixing and Milling in Mechanochemical Synthesis (Review). Russian Journal of Inorganic Chemistry, 2021, 66, 433-453.	1.3	60
8	Phase transition in an organic ferroelectric: glycinium phosphite, with and without X-ray radiation damage. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 365-370.	1.1	10
9	Tribochemistry, Mechanical Alloying, Mechanochemistry: What is in a Name?. Frontiers in Chemistry, 2021, 9, 685789.	3.6	108
10	Charge density studies of multicentre two-electron bonding of an anion radical at non-ambient temperature and pressure. IUCrJ, 2021, 8, 644-654.	2.2	8
11	N <sub>2</sub> O <sub>2</sub> icing in single-crystal in-house X-ray diffraction experiments using an open-flow helium cryostat. Journal of Applied Crystallography, 2021, 54, 1271-1275.	4.5	1
12	A new guaninate hydrate K <sup>+</sup> ·C <sub>5</sub> H <sub>4</sub> N <sub>5</sub> O <sup>+</sup> ·H <sub>2</sub> O: crystal structure from 100 to 300 K in a comparison with 2Na <sup>+</sup> ·C <sub>5</sub> H <sub>3</sub> N <sub>5</sub> O <sup>+</sup> ·7H <sub>2</sub> O. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 808-818.	1.1	1
13	Co-crystals of polyhalogenated diaminobenzonitriles with 18-crown-6: effect of fluorine on the stoichiometry and supramolecular structure. CrystEngComm, 2021, 23, 4767-4781.	2.6	4
14	Theoretical Study of the Grinding and Homogenization of a Binary Mixture of Reactive Powders in a Mechanical Activator. Russian Journal of Physical Chemistry A, 2021, 95, 2310-2318.	0.6	4
15	Glycine: The Gift that Keeps on Giving. Israel Journal of Chemistry, 2021, 61, 828-850.	2.3	14
16	Mechanically Responsive Crystals: Analysis of Macroscopic Strain Reveals "Hidden" Processes. Journal of Physical Chemistry A, 2020, 124, 300-310.	2.5	29
17	Bis-l-Cysteinium sulfate and l-cysteinium methanesulfonate. Structural Chemistry, 2020, 31, 1919-1925.	2.0	2
18	Pancake-bonding of semiquinone radicals under variable temperature and pressure conditions. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 285-291.	1.1	9

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19	State-of-the-Art of Eggshell Waste in Materials Science: Recent Advances in Catalysis, Pharmaceutical Applications, and Mechanochemistry. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 612567.	4.1	38
20	A cocrystal of <sc>L</sc>-ascorbic acid with picolinic acid: the role of Oâ€”H...O, Nâ€”H...O and Câ€”H...O hydrogen bonds and <sc>L</sc>-ascorbic acid conformation in structure stabilization. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 967-978.	1.1	4
21	Mathematical Model of the Grinding and Mixing of Powder Binary Solids in a High-Energy Mill. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 1592-1597.	0.6	8
22	Influence of Crystal Packing on the Mechanism of Decomposition of the Acetonitrile-Solvated Cocrystal of Piroxicam and Succinic Acid. <i>Crystal Growth and Design</i> , 2019, 19, 7315-7323.	3.0	5
23	Determination of the material characteristics of the light-driven actuators from the kinetics of photo-mechanical response. <i>Materials Today: Proceedings</i> , 2019, 12, 35-38.	1.8	0
24	High pressure: a complementary tool for probing solid-state processes. <i>CrystEngComm</i> , 2019, 21, 10-22.	2.6	59
25	Ball size or ball mass â€” what matters in organic mechanochemical synthesis?. <i>CrystEngComm</i> , 2019, 21, 2174-2179.	2.6	47
26	Protein/Ice Interaction: High-Resolution Synchrotron X-ray Diffraction Differentiates Pharmaceutical Proteins from Lysozyme. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5690-5699.	2.6	22
27	Effect of pressure on slit channels in guanine sodium salt hydrate: a link to nucleobase intermolecular interactions. <i>CrystEngComm</i> , 2019, 21, 4484-4492.	2.6	5
28	Discrepancy between thermodynamic and kinetic stabilities of the<i>tert</i>-butanol hydrates and its implication for obtaining pharmaceutical powders by freeze-drying. <i>Chemical Communications</i> , 2019, 55, 4262-4265.	4.1	7
29	A large anisotropic plasticity of <sc>L</sc>-leucinium hydrogen maleate preserved at cryogenic temperatures. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 143-151.	1.1	17
30	A novel crystal form of metacetamol: the first example of a hydrated form. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1465-1470.	0.5	2
31	Lab in a DAC â€” high-pressure crystallography as a powerful tool to study chemical interactions and chemical reactions. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 916-917.	1.1	3
32	An acetonitrile-solvated cocrystal of piroxicam and succinic acid with co-existing zwitterionic and non-ionized piroxicam molecules. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 29-37.	0.5	8
33	Freezing of Aqueous Solutions and Chemical Stability of Amorphous Pharmaceuticals: Water Clusters Hypothesis. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 36-49.	3.3	18
34	Concomitant cocrystal and salt: no interconversion in the solid state. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 313-319.	0.5	2
35	Completing the picture of tolazamide polymorphism under extreme conditions: a low-temperature study. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 598-608.	0.5	4
36	Studying molecular crystals at high pressures: experimental strategy and hardware matters. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e686-e686.	0.1	0

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37	Education for new synchrotron sources: an interdisciplinary masters programme of the Novosibirsk State University. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e719-e719.	0.1	0
38	Effect of pressure on slit channels in hydrate of sodium salt of guanine: a link to nucleobase intermolecular interactions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e303-e303.	0.1	0
39	Polymorphism of chlorpropamide on liquid-assisted mechanical treatment: choice of liquid and type of mechanical treatment matter. <i>CrystEngComm</i> , 2018, 20, 1797-1803.	2.6	27
40	Anisotropic lattice softening near the structural phase transition in the thermosolient crystal 1,2,4,5-tetrabromobenzene. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8523-8532.	2.8	31
41	Why Amorphous Drugs?. , 2018, , 1-7.		3
42	Amorphous Drug Formulation. , 2018, , 159-223.		0
43	The effect of amino acid backbone length on molecular packing: crystalline tartrates of glycine, $\beta$ -alanine, $\beta$ -aminobutyric acid (GABA) and $\beta$ -alanine. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 177-185.	0.5	12
44	Amorphous Drugs. , 2018, , .		26
45	Order vs. Disorder in the Solid State. , 2018, , 9-39.		0
46	Amorphous Drug Solubility and Absorption Enhancement. , 2018, , 41-68.		2
47	Amorphous Drug Preparation Methods. , 2018, , 69-106.		0
48	Physical Instability: A Key Problem of Amorphous Drugs. , 2018, , 107-157.		4
49	Quantification of photoinduced bending of dynamic molecular crystals: from macroscopic strain to kinetic constants and activation energies. <i>Chemical Science</i> , 2018, 9, 2319-2335.	7.4	73
50	The effect of ball mass on the mechanochemical transformation of a single-component organic system: anhydrous caffeine. <i>Journal of Materials Science</i> , 2018, 53, 13380-13389.	3.7	37
51	Ball-free mechanochemistry: <i>in situ</i> real-time monitoring of pharmaceutical co-crystal formation by resonant acoustic mixing. <i>Chemical Communications</i> , 2018, 54, 4033-4036.	4.1	81
52	A salt or a co-crystal “when crystallization protocol matters. <i>CrystEngComm</i> , 2018, 20, 2299-2305.	2.6	32
53	Dynamics of the Homogenization of Binary Powder Mixtures. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 66-69.	0.6	12
54	A Model of Solid-Phase Synthesis in Binary Powder Mixtures with Allowance for Caking. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 2542-2547.	0.6	6

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55	Cryosynthesis of Co-Crystals of Poorly Water-Soluble Pharmaceutical Compounds and Their Solid Dispersions with Polymers. The “Meloxicam–Succinic Acid” System as a Case Study. <i>Crystal Growth and Design</i> , 2018, 18, 7401-7409.	3.0	19
56	Synthesis and crystal structure of a meloxicam co-crystal with benzoic acid. <i>Structural Chemistry</i> , 2018, 29, 1867-1874.	2.0	8
57	Luminescence Spectroscopy as a Tool to Study the Amorphization of Indomethacin upon Co-Grinding with Polymers. <i>Doklady Physical Chemistry</i> , 2018, 480, 77-80.	0.9	0
58	CHAPTER 2. High Pressure Crystallography: Elucidating the Role of Intermolecular Interactions in Crystals of Organic and Coordination Compounds. <i>Monographs in Supramolecular Chemistry</i> , 2018, , 32-97.	0.2	6
59	Studying weak interactions in crystals at high pressures: when hardware matters. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 613-619.	0.5	5
60	Crystal structure of a 1:1 salt of 4-aminobenzoic acid (vitamin B <sub>10</sub> ) with pyrazinoic acid. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 1923-1927.	0.5	6
61	Studying weak interactions in crystals at high pressures: when hardware matters. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e281-e281.	0.1	0
62	From reactivity of solids to high-pressure crystallography and back: response of molecular crystals to mechanical stress. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e122-e122.	0.1	0
63	Is a mechanochemical reaction always truly mechanochemical?. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e132-e132.	0.1	0
64	Pressure-driven phase transition mechanisms revealed by quantum chemistry: <scp>l</scp>-serine polymorphs. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6671-6676.	2.8	26
65	New 1:1 and 2:1 salts in the ‘<scp>DL</scp>-norvaline–maleic acid’ system as an example of assembling various crystal structures from similar supramolecular building blocks. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 13-19.	0.5	3
66	Breakthrough in the high-pressure structures of Ba based on full exploitation of aperiodic symmetry. <i>IUCr</i> , 2017, 4, 104-105.	2.2	0
67	Inhibition of organic mechanochemical synthesis by water vapor. <i>Doklady Chemistry</i> , 2017, 472, 17-19.	0.9	4
68	Challenges of Mechanochemistry: Is In Situ Real-Time Quantitative Phase Analysis Always Reliable? A Case Study of Organic Salt Formation. <i>Advanced Science</i> , 2017, 4, 1700132.	11.2	50
69	Isostructural crystal hydrates of rare-earth metal oxalates at high pressure: from strain anisotropy to dehydration. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 751-757.	0.8	11
70	Inadvertent liquid assisted grinding: a key to “dry”-organic mechano-co-crystallisation?. <i>CrystEngComm</i> , 2017, 19, 2830-2835.	2.6	41
71	Large porous particles for respiratory drug delivery. Glycine-based formulations. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 110, 148-156.	4.0	30
72	Quantification and modeling of nanomechanical properties of chlorpropamide $\hat{1}$ , $\hat{2}$ , and $\hat{3}$ conformational polymorphs. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 110, 109-116.	4.0	9

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73	Effect of pressure on two polymorphs of tolazamide: why no interconversion?. CrystEngComm, 2017, 19, 2243-2252.	2.6	27
74	First Evidence of Polymorphism in Furosemide Solvates. Crystal Growth and Design, 2017, 17, 2333-2341.	3.0	17
75	Thermodynamic aspects of freeze-drying. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1593-1604.	3.6	12
76	Crystal structure and proton conductivity of a new Cs <sub>3</sub> (H <sub>2</sub> PO <sub>4</sub> )(HPO <sub>4</sub> )·2H <sub>2</sub> O phase in the caesium di- and monohydrogen orthophosphate system. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 773-779.	0.5	3
77	[6]â€“[9]Metacyclophanes: Synthesis, Crystal Structures, and NMR and UV Spectroscopy. European Journal of Organic Chemistry, 2017, 2017, 5410-5416.	2.4	3
78	7. Multi-component crystals and non-ambient conditions. , 2017, , 164-180.		0
79	Crystal structure of 4-benzylcarbamoyl-1-methylpyridin-1-ium iodide: an efficient multimodal antiviral drug. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 967-970.	0.5	3
80	Structural aspects of displacive transformations: what can optical microscopy contribute? Dehydration of Sm <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> ·10H <sub>2</sub> O as a case study. IUCr, 2017, 4, 588-597.	2.2	21
81	Skills for a Scientific Life. By John R. Helliwell. CRC Press, 2016. Pp. 197. Price GBP 25.59 (hardcover). ISBN 978-1-4987-6875-7.. Journal of Applied Crystallography, 2017, 50, 1241-1242.	4.5	1
82	Mechanisms of mechanochemical salt formation by in situ real time X-ray powder diffraction. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s394-s394.	0.1	0
83	Role of pressure transmitting media in structural transformations of molecular crystals at high pressures. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s134-s134.	0.1	0
84	Hypervalency in Organic Crystals: A Case Study of the Oxicam Sulfonamide Group. Journal of Physical Chemistry A, 2016, 120, 10289-10296.	2.5	12
85	Crystal structure of a 2:1 co-crystal of meloxicam with acetylenedicarboxylic acid. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 1856-1859.	0.5	8
86	Towards an understanding of crystallization from solution. DFT studies of multi-component serotonin crystals. Computational and Theoretical Chemistry, 2016, 1088, 52-61.	2.5	6
87	The effect of thermal expansion on photoisomerisation in the crystals of [Co(NH <sub>3</sub> ) <sub>3</sub> ] <sub>5</sub> NO <sub>2</sub> Cl(NO <sub>3</sub> ): different strain origins â€“ different outcomes. CrystEngComm, 2016, 18, 7276-7283.	2.6	14
88	A new solvate of furosemide with dimethylacetamide. Acta Crystallographica Section C, Structural Chemistry, 2016, 72, 997-1001.	0.5	1
89	The role of fluids in high-pressure polymorphism of drugs: different behaviour of Î²-chlorpropamide in different inert gas and liquid media. RSC Advances, 2016, 6, 92629-92637.	3.6	25
90	Ice Recrystallization in a Solution of a Cryoprotector and Its Inhibition by a Protein: Synchrotron X-Ray Diffraction Study. Journal of Pharmaceutical Sciences, 2016, 105, 2129-2138.	3.3	19

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91	Unusual seeding effect in the liquid-assisted high-pressure polymorphism of chlorpropamide. CrystEngComm, 2016, 18, 5423-5428.	2.6	29
92	Polymorphic transformations in glycine co-crystals at low temperature and high pressure: two new examples as a follow-up to a glycineâ€“glutaric acid study. CrystEngComm, 2016, 18, 5869-5875.	2.6	12
93	The staple role of hydrogen and halogen bonds in crystalline (E)-8-((2,3-diiodo-4-(quinolin-8-ylthio)but-2-en-1-yl)thio)quinolin-1-ium triiodide. Structural Chemistry, 2016, 27, 1553-1560.	2.0	18
94	Single-crystal to single-crystal conformational polymorphic transformation in tolbutamide at 313 K. Relation to other polymorphic transformations in tolbutamide and chlorpropamide. CrystEngComm, 2016, 18, 5736-5743.	2.6	22
95	Structure-forming units of amino acid maleates. Case study of<scp>L</scp>-valinium hydrogen maleate. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 160-163.	1.1	14
96	Non-ambient Conditions in the Investigation and Manufacturing of Drug Forms. Current Pharmaceutical Design, 2016, 22, 4981-5000.	1.9	28
97	Alternatives to "co-crystalâ€“salt" transitions in glycine co-crystals at low temperature and high pressure: two new examples as a follow-up to a glycineâ€“glutaric acid study. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s398-s398.	0.1	0
98	It is never too early, or too late to start. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s166-s167.	0.1	0
99	Isoenergetic Polymorphism: The Puzzle of Tolazamide as a Case Study. Chemistry - A European Journal, 2015, 21, 15395-15404.	3.3	24
100	Ultrafine Betulin Formulation with Biocompatible Carriers Exhibiting Improved Dissolution Rate. Natural Product Communications, 2015, 10, 1934578X1501000.	0.5	2
101	Novel Synthons in Sulfamethizole Cocrystals: Structureâ€“Property Relations and Solubility. Crystal Growth and Design, 2015, 15, 3498-3510.	3.0	58
102	Crystal structure of two paracetamol polymorphs at 20 K: A search for the â€œstructure-propertyâ€ relationship. Journal of Structural Chemistry, 2015, 56, 317-323.	1.0	12
103	L-Methioninium picrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 142, 344-349.	3.9	18
104	<sup>12</sup> -Alanine under pressure: towards understanding the nature of phase transitions. CrystEngComm, 2015, 17, 2074-2079.	2.6	30
105	Sarcosine and betaine crystals upon cooling: structural motifs unstable at high pressure become stable at low temperatures. Physical Chemistry Chemical Physics, 2015, 17, 3534-3543.	2.8	11
106	L-serine picrates. Journal of Molecular Structure, 2015, 1100, 255-263.	3.6	4
107	Unusual hydrogen bonding in<scp>L</scp>-cysteine hydrogen fluoride. Acta Crystallographica Section C, Structural Chemistry, 2015, 71, 733-741.	0.5	6
108	A new polymorph of metacetamol. CrystEngComm, 2015, 17, 6183-6192.	2.6	23



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109	New hydrophobic L-amino acid salts: maleates of L-leucine, L-isoleucine and L-norvaline. Acta Crystallographica Section C, Structural Chemistry, 2015, 71, 584-592.	0.5	19
110	$\alpha$ -Argininium phosphite – a new candidate for NLO materials. Acta Crystallographica Section C, Structural Chemistry, 2015, 71, 415-421.	0.5	10
111	Highlights from Faraday discussion 170: Challenges and opportunities of modern mechanochemistry, Montreal, Canada, 2014. Chemical Communications, 2015, 51, 6248-6256.	4.1	45
112	Synthesis and structure–activity relationship of novel 1,4-diazabicyclo[2.2.2]octane derivatives as potent antimicrobial agents. European Journal of Medicinal Chemistry, 2015, 95, 563-573.	5.5	17
113	Supramolecular interactions in the solid state. IUCrJ, 2015, 2, 675-690.	2.2	108
114	A single-crystal to single-crystal phase transition in $[\text{Co}(\text{NH}_3)_3]_5[\text{NO}_2]_2\text{Br}_2$ at high pressure: a step towards understanding linkage photo-isomerisation. CrystEngComm, 2015, 17, 8812-8816.	2.6	17
115	Mechanically Responsive Molecular Crystals. Chemical Reviews, 2015, 115, 12440-12490.	47.7	678
116	Crystallographic education in the 21st century. Journal of Applied Crystallography, 2015, 48, 1964-1975.	4.5	25
117	Bis(paracetamol) pyridine – a new elusive paracetamol solvate: from modeling the phase diagram to successful single-crystal growth and structure–property relations. CrystEngComm, 2015, 17, 7543-7550.	2.6	7
118	Kinetic Control of High-Pressure Solid-State Phase Transitions: A Case Study on L-Serine. Journal of Physical Chemistry C, 2015, 119, 18611-18617.	3.1	48
119	Using SEM to design a new generation of drug forms. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 868-873.	0.6	1
120	Dynamics of Mechanochemical Processes. NATO Science for Peace and Security Series A: Chemistry and Biology, 2014, , 77-89.	0.5	2
121	An algorithm to identify the existence and reproducibly obtain single crystals of salts and mixed crystals of amino acids suitable for single crystal XRD and Raman spectroscopy experiments. Journal of Structural Chemistry, 2014, 55, 744-749.	1.0	5
122	Reversible pressure-induced disordering in bis(dL-serinium) oxalate dihydrate. Journal of Molecular Structure, 2014, 1078, 151-157.	3.6	14
123	The role of a liquid in “dry” co-grinding: a case study of the effect of water on mechanochemical synthesis in a L-serine–oxalic acid system. CrystEngComm, 2014, 16, 3857-3866.	2.6	42
124	Polymorphism of Paracetamol: A New Understanding of Molecular Flexibility through Local Methyl Dynamics. Molecular Pharmaceutics, 2014, 11, 1032-1041.	4.6	26
125	Effect of pressure on methylated glycine derivatives: relative roles of hydrogen bonds and steric repulsion of methyl groups. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 517-532.	1.1	11
126	Furosemide Solvates: Can They Serve As Precursors to Different Polymorphs of Furosemide?. Crystal Growth and Design, 2014, 14, 513-522.	3.0	38



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127	Application of physical methods of pharmacy to improve the properties of dosage forms. Theoretical Foundations of Chemical Engineering, 2014, 48, 722-732.	0.7	0
128	Different effect of impact and shear mechanical treatment on mechanochemical cocrystallization of piroxicam and succinic acid. Doklady Chemistry, 2014, 457, 154-159.	0.9	20
129	Effect of the selected inorganic carriers on the properties of mechanocomposites with drugs. Doklady Chemistry, 2014, 456, 98-102.	0.9	1
130	Oxidative stress of $H_2O_2$ on N,N-dimethylglycine: formation of perhydrate crystals and more. CrystEngComm, 2014, 16, 10165-10168.	2.6	13
131	Advances in elucidating mechanochemical complexities via implementation of a simple organic system. Faraday Discussions, 2014, 170, 311-335.	3.2	47
132	Structural Properties of Nickel Dimethylglyoxime at High Pressure: Single-Crystal X-ray Diffraction and DFT Studies. Journal of Physical Chemistry C, 2014, 118, 24705-24713.	3.1	22
133	One Hydrogen Bond—Two Ways To Build a Structure. The Role of $H\cdots O$ Hydrogen Bonds in Crystal Structures of <i>N,N</i> -Dimethylglycine. Crystal Growth and Design, 2014, 14, 1851-1864.	3.0	17
134	Effect of $\alpha$ - and $\beta$ -polymorphs of glycine on the intranasal delivery of manganese hydroxide nanoparticles into brain structures. Doklady Biochemistry and Biophysics, 2014, 454, 6-9.	0.9	4
135	Contribution of Weak $H\cdots O$ Hydrogen Bonds to the Side Chain Motions in <i>D,L</i> -Homocysteine on Cooling. Journal of Physical Chemistry B, 2014, 118, 8513-8523.	2.6	16
136	Simple and efficient modifications of well known techniques for reliable growth of high-quality crystals of small bioorganic molecules. Journal of Applied Crystallography, 2014, 47, 1435-1442.	4.5	20
137	Hydrogen bonding of catechol groups in the crystal structure of dihydrocaffeic acid. Journal of Structural Chemistry, 2013, 54, 368-372.	1.0	3
138	New interpretation of heat effects in polymorphic transitions. Journal of Thermal Analysis and Calorimetry, 2013, 113, 419-424.	3.6	8
139	Low-temperature heat capacity and thermodynamic parameters of $\beta$ -aminobutyric acid. Journal of Thermal Analysis and Calorimetry, 2013, 111, 2059-2062.	3.6	8
140	Polymorphic effects at the eutectic melting in the $H_2O$ -glycine system. Journal of Thermal Analysis and Calorimetry, 2013, 111, 2187-2194.	3.6	14
141	An Interpretation of the Anomalous Changes in the Low-Wavenumber Range of the Raman Spectra of <i>L</i> -Alanine Crystals. ChemPhysChem, 2013, 14, 2525-2528.	2.1	10
142	Mechanochemistry of inorganic and organic systems: what is similar, what is different?. Chemical Society Reviews, 2013, 42, 7719.	38.1	509
143	Dynamic Single Crystals: Kinematic Analysis of Photoinduced Crystal Jumping (The Photosalient) Tj ETQq1 1 0.784314 rgBT /Overlock 10	13.8	227
144	In situ X-ray diffraction study of the processes that occur upon annealing frozen solutions in systems with clathrate formation, aimed at developing new forms of medicinal substances with improved properties. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 130-133.	0.6	0

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145	Complexities of mechanochemistry: elucidation of processes occurring in mechanical activators via implementation of a simple organic system. <i>CrystEngComm</i> , 2013, 15, 6403.	2.6	58
146	Dynamics and Thermodynamics of Crystalline Polymorphs. 2. $\hat{I}^2$ -Glycine, Analysis of Variable-Temperature Atomic Displacement Parameters. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8001-8009.	2.5	18
147	Polymorphism of "glycine" glutaric acid-co-crystals: the same phase at low temperatures and high pressures. <i>CrystEngComm</i> , 2013, 15, 1693.	2.6	31
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