

Dejan-Kresimir Bucar

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Crystal surface defects as possible origins of cocrystal dissociation. <i>CrystEngComm</i> , 2022, 24, 5031-5035.	2.6	2
2	Mechanochemical reactivity inhibited, prohibited and reversed by liquid additives: examples from crystal-form screens. <i>Chemical Science</i> , 2021, 12, 3264-3269.	7.4	25
3	Synthesis, structural analysis, electrochemical and magnetic properties of tetrachloroferrate ionic liquids. <i>New Journal of Chemistry</i> , 2021, 45, 13429-13440.	2.8	10
4	Quasi self-inclusion of a 1-D coordination polymer within a 2-D hydrogen-bonded grid: a chaperone effect. <i>Journal of Coordination Chemistry</i> , 2021, 74, 162-168.	2.2	1
5	Inverted metal-organic frameworks: isorecticular decoration with organic anions using principles of supramolecular chemistry. <i>Journal of Coordination Chemistry</i> , 2021, 74, 169-177.	2.2	1
6	Doubly Encapsulated Perylene Diimides: Effect of Molecular Encapsulation on Photophysical Properties. <i>Journal of Organic Chemistry</i> , 2020, 85, 207-214.	3.2	25
7	Mechanochemical Formation and Disappearance of Caffeine-Citric-Acid Cocrystal Polymorphs. <i>Crystal Growth and Design</i> , 2020, 20, 1119-1129.	3.0	13
8	Mechanistic In Situ and Ex Situ Studies of Phase Transformations in Molecular Co-Crystals. <i>Chemistry - A European Journal</i> , 2020, 26, 14645-14653.	3.3	4
9	Functionalised tetrahydrofuran fragments from carbohydrates or sugar beet pulp biomass. <i>Green Chemistry</i> , 2019, 21, 2035-2042.	9.0	9
10	Sensing and Discrimination of Explosives at Variable Concentrations with a Large-Pore MOF as Part of a Luminescent Array. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11618-11626.	8.0	54
11	Selective prebiotic synthesis of phosphoroaminonitriles and aminothioamides in neutral water. <i>Communications Chemistry</i> , 2019, 2, .	4.5	17
12	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.	3.0	2
13	A Practical Guide to the Design of Molecular Crystals. <i>Crystal Growth and Design</i> , 2019, 19, 1426-1453.	3.0	222
14	Highly Luminescent Encapsulated Narrow Bandgap Polymers Based on Diketopyrrolopyrrole. <i>Journal of the American Chemical Society</i> , 2018, 140, 1622-1626.	13.7	70
15	Crystallization at Solvent Interfaces Enables Access to a Variety of Cocrystal Polymorphs and Hydrates. <i>Crystal Growth and Design</i> , 2018, 18, 3263-3268.	3.0	15
16	Silver-Free Palladium-Catalyzed C(sp ³)-H Arylation of Saturated Bicyclic Amine Scaffolds. <i>Journal of Organic Chemistry</i> , 2018, 83, 2495-2503.	3.2	27
17	Selective prebiotic conversion of pyrimidine and purine anhydronucleosides into Watson-Crick base-pairing arabino-furanosyl nucleosides in water. <i>Nature Communications</i> , 2018, 9, 4073.	12.8	36
18	Prebiotic selection and assembly of proteinogenic amino acids and natural nucleotides from complex mixtures. <i>Nature Chemistry</i> , 2017, 9, 584-589.	13.6	82

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19	Engineering Molecular Crystals: Backbreaking, yet Gratifying. <i>Crystal Growth and Design</i> , 2017, 17, 2913-2918.	3.0	24
20	Are Oxygen and Sulfur Atoms Structurally Equivalent in Organic Crystals?. <i>Crystal Growth and Design</i> , 2017, 17, 827-833.	3.0	35
21	Divergent prebiotic synthesis of pyrimidine and 8-oxo-purine ribonucleotides. <i>Nature Communications</i> , 2017, 8, 15270.	12.8	84
22	Rationalization of the Color Properties of Fluorescein in the Solid State: A Combined Computational and Experimental Study. <i>Chemistry - A European Journal</i> , 2016, 22, 10065-10073.	3.3	24
23	Synthesis of substituted benzoxaborinin-1-ols via palladium-catalysed cyclisation of alkenyl- and alkynyl-boronic acids. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8039-8043.	2.8	11
24	On the predictability of supramolecular interactions in molecular cocrystals – the view from the bench. <i>CrystEngComm</i> , 2016, 18, 5434-5439.	2.6	47
25	The application of design of experiments (DoE) reaction optimisation and solvent selection in the development of new synthetic chemistry. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2373-2384.	2.8	141
26	Sustainable Synthesis of Chiral Tetrahydrofurans through the Selective Dehydration of Pentoses. <i>Chemistry - A European Journal</i> , 2015, 21, 15947-15950.	3.3	14
27	Verschwundene Polymorphe: eine Neubetrachtung. <i>Angewandte Chemie</i> , 2015, 127, 7076-7098.	2.0	15
28	Disappearing Polymorphs Revisited. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6972-6993.	13.8	281
29	Irreversible <i>endo</i> -selective Diels-Alder Reactions of Substituted Alkoxyfurans: A General Synthesis of <i>endo</i> -antharimides. <i>Chemistry - A European Journal</i> , 2015, 21, 6107-6114.	3.3	27
30	Mechanical Properties of a Series of Macro- and Nanodimensional Organic Cocrystals Correlate with Atomic Polarizability. <i>Journal of the American Chemical Society</i> , 2015, 137, 12768-12771.	13.7	48
31	Sonocrystallization Yields Monoclinic Paracetamol with Significantly Improved Compaction Behavior. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 249-253.	13.8	46
32	Solid-state photoreactivity of 9-substituted acridinium bromide salts. <i>CrystEngComm</i> , 2014, 16, 10830-10836.	2.6	12
33	Organosulfonates aid argentophilic forces in the crystal engineering of [2+2] photodimerisations: reactivity involving 3-pyridyl groups. <i>Supramolecular Chemistry</i> , 2014, 26, 207-213.	1.2	16
34	A sildenafil cocrystal based on acetylsalicylic acid exhibits an enhanced intrinsic dissolution rate. <i>CrystEngComm</i> , 2014, 16, 32-35.	2.6	59
35	Synthon Hierarchies in Crystal Forms Composed of Theophylline and Hydroxybenzoic Acids: Cocrystal Screening via Solution-Mediated Phase Transformation. <i>Crystal Growth and Design</i> , 2014, 14, 5318-5328.	3.0	37
36	Advantages of mechanochemical cocrystallisation in the solid-state chemistry of pigments: colour-tuned fluorescein cocrystals. <i>CrystEngComm</i> , 2013, 15, 6289.	2.6	67

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37	The curious case of (caffeine)⋅(benzoic acid): how heteronuclear seeding allowed the formation of an elusive cocrystal. <i>Chemical Science</i> , 2013, 4, 4417.	7.4	115
38	From co-crystals to functional thin films: photolithography using [2+2] photodimerization. <i>Chemical Science</i> , 2013, 4, 4304.	7.4	37
39	Supramolecular Complexes of Sulfadiazine and Pyridines: Reconfigurable Exteriors and Chameleon-like Behavior of Tautomers at the Co-Crystalâ€”Salt Boundary. <i>Crystal Growth and Design</i> , 2013, 13, 393-403.	3.0	41
40	ViOâˆ—C interactions in crystal structures of oxovanadium-coordination compounds. <i>New Journal of Chemistry</i> , 2013, 37, 619-623.	2.8	13
41	Single-crystal-to-single-crystal direct cross-linking and photopolymerisation of a discrete Ag(<i>scp</i>) complex to give a 1D polycyclobutane coordination polymer. <i>Chemical Communications</i> , 2013, 49, 1064-1066.	4.1	46
42	â€”Masked synthonsâ€” in crystal engineering: insulated components in acetaminophen cocrystal hydrates. <i>CrystEngComm</i> , 2013, 15, 4816.	2.6	33
43	Ultrasoundâ€”Assisted Construction of Halogenâ€”Bonded Nanosized Cocrystals That Exhibit Thermosensitive Luminescence. <i>Chemistry - A European Journal</i> , 2013, 19, 8213-8219.	3.3	75
44	pH-Controlled Coordination Mode Rearrangements of â€”Clickableâ€”Huisgen-Based Multidentate Ligands with [M(<i>CO</i>) ₃] ⁺ (M = Re, ^{99m} Tc). <i>Inorganic Chemistry</i> , 2013, 52, 2939-2950.	4.0	20
45	Sonochemical synthesis of nano-cocrystals. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	2
46	A [2+2] cross-photodimerisation of photostable olefins via a three-component cocrystal solid solution. <i>Chemical Communications</i> , 2012, 48, 1790.	4.1	66
47	Organic Nanocrystals of the Resorcinarene Hexamer via Sonochemistry: Evidence of Reversed Crystal Growth Involving Hollow Morphologies. <i>Journal of the American Chemical Society</i> , 2012, 134, 6900-6903.	13.7	36
48	New opportunities in crystal engineering â€” the role of atomic force microscopy in studies of molecular crystals. <i>Chemical Communications</i> , 2012, 48, 9210.	4.1	55
49	Modification of luminescent properties of a coumarin derivative by formation of multi-component crystals. <i>CrystEngComm</i> , 2012, 14, 5121.	2.6	59
50	Accelerated aging: a low energy, solvent-free alternative to solvothermal and mechanochemical synthesis of metalâ€”organic materials. <i>Chemical Science</i> , 2012, 3, 2495-2500.	7.4	181
51	A Supramolecular Protecting Group Strategy Introduced to the Organic Solid State: Enhanced Reactivity through Molecular Pedal Motion. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1037-1041.	13.8	92
52	A solid-state trimerisation of a diene diacid affords a bicyclobutyl: reactant structure from X-ray powder data and product separation and structure determination via co-crystallisation. <i>Chemical Communications</i> , 2011, 47, 236-238.	4.1	21
53	Applications of hydrogen-bond-acceptor templates to direct â€”in-phaseâ€” reactivity of a diene diacid in the solid state. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1384-1386.	2.9	4
54	Thixotropic Hydrogel Derived from a Product of an Organic Solid-State Synthesis: Properties and Densities of Metalâ€”Organic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 3365-3371.	13.7	91

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55	Resorcinol-Templated Synthesis of a Cofacial Terpyridine in Crystalline π -Stacked Columns. <i>Organic Letters</i> , 2011, 13, 2260-2262.	4.6	24
56	The hydrazide/hydrazone click reaction as a biomolecule labeling strategy for $M(\text{CO})_3$ ($M = \text{Re}, ^{99m}\text{Tc}$) radiopharmaceuticals. <i>Chemical Communications</i> , 2011, 47, 12846.	4.1	27
57	Softening and Hardening of Macro- and Nano-Sized Organic Cocrystals in a Single-Crystal Transformation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8642-8646.	13.8	92
58	Unusual reactivity of acetylacetone with imidazole/histamine complexes and ($M=\text{Re}, ^{99m}\text{Tc}$). <i>Inorganica Chimica Acta</i> , 2011, 365, 356-362.	2.4	17
59	Crystal engineering rescues a solution organic synthesis in a cocrystallization that confirms the configuration of a molecular ladder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10974-10979.	7.1	29
60	A 1:1 Cocrystal of Caffeine and 2-Hydroxy-1-Naphthoic Acid Obtained via a Slurry Screening Method. <i>Journal of Chemical Crystallography</i> , 2010, 40, 933-939.	1.1	31
61	Supramolecular Catalysis in the Organic Solid State through Dry Grinding. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4273-4277.	13.8	115
62	Pharmaceutical Nano-Cocrystals: Sonochemical Synthesis by Solvent Selection and Use of a Surfactant. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7284-7288.	13.8	78
63	A Red Zwitterionic Co-Crystal of Acetaminophen and 2,4-Pyridinedicarboxylic Acid. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 3676-3683.	3.3	29
64	"Click"-labeling strategy for $M(\text{CO})_3$ ($M = \text{Re}, ^{99m}\text{Tc}$) prostate cancer targeted Flutamide agents. <i>Dalton Transactions</i> , 2010, 39, 1926.	3.3	37
65	Stereospecific and quantitative photodimerisation of terminal olefins in the solid state. <i>Chemical Communications</i> , 2010, 46, 4956.	4.1	42
66	A metal-organic framework with three cavities based on three-coloured square tiling derived from a cyclobutane constructed in the solid state. <i>New Journal of Chemistry</i> , 2010, 34, 2400.	2.8	10
67	Dramatic Red-Shifted Fluorescence of [2.2]Paracyclophanes with Peripheral Substituents Attached to the Saturated Bridges. <i>Organic Letters</i> , 2009, 11, 5106-5109.	4.6	21
68	Cocrystals of Caffeine and Hydroxybenzoic Acids Composed of Multiple Supramolecular Heterosynthons: Screening via Solution-Mediated Phase Transformation and Structural Characterization. <i>Crystal Growth and Design</i> , 2009, 9, 1932-1943.	3.0	111
69	Investigation of the Coordination Interactions of S-(Pyridin-2-ylmethyl)-Cysteine Ligands with $M(\text{CO})_3$ ($M = \text{Re}, ^{99m}\text{Tc}$). <i>Inorganic Chemistry</i> , 2009, 48, 10625-10634.	4.0	25
70	Onion-Shell Metal-Organic Polyhedra (MOPs): A General Approach to Decorate the Exteriors of MOPs using Principles of Supramolecular Chemistry. <i>Journal of the American Chemical Society</i> , 2008, 130, 14366-14367.	13.7	45
71	General application of mechanochemistry to templated solid-state reactivity: rapid and solvent-free access to crystalline supermolecules. <i>Chemical Communications</i> , 2008, , 5713.	4.1	52
72	Supramolecular Control of Reactivity in the Solid State: From Templates to Ladderanes to Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2008, 41, 280-291.	15.6	613

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73	A lanthanide-based helicate coordination polymer derived from a rigid monodentate organic bridge synthesized in the solid state. <i>New Journal of Chemistry</i> , 2008, 32, 797.	2.8	10
74	Co-Crystals of Caffeine and Hydroxy-2-naphthoic Acids: Unusual Formation of the Carboxylic Acid Dimer in the Presence of a Heterosynthon. <i>Molecular Pharmaceutics</i> , 2007, 4, 339-346.	4.6	90
75	Coding a coordination-driven self-assembly via a hydrogen bond-directed solid-state synthesis: An unexpected chiral tetrahedral capsule. <i>Chemical Communications</i> , 2007, , 1603-1604.	4.1	27
76	A "hidden" co-crystal of caffeine and adipic acid. <i>Chemical Communications</i> , 2007, , 525-527.	4.1	74
77	Preparation and Reactivity of Nanocrystalline Cocrystals Formed via Sonocrystallization. <i>Journal of the American Chemical Society</i> , 2007, 129, 32-33.	13.7	150
78	Template-Controlled Reactivity in the Organic Solid State by Principles of Coordination-Driven Self-Assembly. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4559-4568.	2.0	74
79	Crystal and Molecular Structure of trans-1,2-bis(2-benzothiazolyl)ethene. <i>Journal of Chemical Crystallography</i> , 2007, 37, 713-715.	1.1	0
80	Self-assembly of bis(1,3-diphenylpropane-1,3-dionato- λ^2 O, λ^2 O)bis(thiomorpholine- λ^1 N)cobalt(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m283-m285.	0.2	1
81	1D and 2D metal-organic frameworks functionalized with free pyridyl groups. <i>Journal of Molecular Structure</i> , 2006, 796, 58-62.	3.6	7
82	Bis(adamantylamine- λ^1 N)bis(1-phenylbutane-1,3-dionato- λ^2 O, λ^2 O)nickel(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, m522-m524.	0.2	1
83	Bis(dimethyl sulfoxide- λ^1 O)bis(1-phenylbutane-1,3-dionato- λ^2 O, λ^2 O)nickel(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, m367-m369.	0.2	4
84	The first adduct of bis(1,3-diphenyl-1,3-propanedionato)oxovanadium(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, m1920-m1922.	0.2	4
85	A bis(1-phenyl-1,3-butanedionato)nickel(II) adduct with 3-aminopyridine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, m985-m987.	0.2	6
86	Opportunities in Nanotechnology via Organic Solid-State Reactivity: Nanostructured Co-Crystals and Molecular Capsules. , 0, , 305-315.		5