

Aurora Cruz-Cabeza

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

4,548
citations

147801

31
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102487

66
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88
all docs

88
docs citations

88
times ranked

4132
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Conformational Polymorphism. <i>Chemical Reviews</i> , 2014, 114, 2170-2191. | 47.7 | 590 |
| 2 | Facts and fictions about polymorphism. <i>Chemical Society Reviews</i> , 2015, 44, 8619-8635. | 38.1 | 499 |
| 3 | Acid–base crystalline complexes and the pKa rule. <i>CrystEngComm</i> , 2012, 14, 6362. | 2.6 | 464 |
| 4 | Significant progress in predicting the crystal structures of small organic molecules – a report on the fourth blind test. <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 107-125. | 1.8 | 371 |
| 5 | Towards crystal structure prediction of complex organic compounds – a report on the fifth blind test. <i>Acta Crystallographica Section B: Structural Science</i> , 2011, 67, 535-551. | 1.8 | 358 |
| 6 | Solvation and surface effects on polymorph stabilities at the nanoscale. <i>Chemical Science</i> , 2016, 7, 6617-6627. | 7.4 | 128 |
| 7 | Successful prediction of a model pharmaceutical in the fifth blind test of crystal structure prediction. <i>International Journal of Pharmaceutics</i> , 2011, 418, 168-178. | 5.2 | 110 |
| 8 | Towards Prediction of Stoichiometry in Crystalline Multicomponent Complexes. <i>Chemistry - A European Journal</i> , 2008, 14, 8830-8836. | 3.3 | 92 |
| 9 | Prediction and Observation of Isostructurality Induced by Solvent Incorporation in Multicomponent Crystals. <i>Journal of the American Chemical Society</i> , 2006, 128, 14466-14467. | 13.7 | 91 |
| 10 | Can the study of self-assembly in solution lead to a good model for the nucleation pathway? The case of tolfenamic acid.. <i>Chemical Science</i> , 2015, 6, 3515-3524. | 7.4 | 85 |
| 11 | Predicting stoichiometry and structure of solvates. <i>Chemical Communications</i> , 2010, 46, 2224. | 4.1 | 78 |
| 12 | Open questions in organic crystal polymorphism. <i>Communications Chemistry</i> , 2020, 3, . | 4.5 | 77 |
| 13 | “Guanigma”: The Revised Structure of Biogenic Anhydrous Guanine. <i>Chemistry of Materials</i> , 2015, 27, 8289-8297. | 6.7 | 74 |
| 14 | Aromatic stacking – a key step in nucleation. <i>Chemical Communications</i> , 2017, 53, 7905-7908. | 4.1 | 70 |
| 15 | Solvent inclusion in form II carbamazepine. <i>Chemical Communications</i> , 2007, , 1600. | 4.1 | 62 |
| 16 | Predicting Inclusion Behaviour and Framework Structures in Organic Crystals. <i>Chemistry - A European Journal</i> , 2009, 15, 13033-13040. | 3.3 | 61 |
| 17 | Amide Pyramidalization in Carbamazepine: A Flexibility Problem in Crystal Structure Prediction?. <i>Crystal Growth and Design</i> , 2006, 6, 1858-1866. | 3.0 | 60 |
| 18 | Identification, classification and relative stability of tautomers in the cambridge structural database. <i>CrystEngComm</i> , 2011, 13, 93-98. | 2.6 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Is the Fenamate Group a Polymorphophore? Contrasting the Crystal Energy Landscapes of Fenamic and Tolfenamic Acids. <i>Crystal Growth and Design</i> , 2012, 12, 4230-4239. | 3.0 | 56 |
| 20 | Concerning Elusive Crystal Forms: The Case of Paracetamol. <i>Journal of the American Chemical Society</i> , 2020, 142, 6682-6689. | 13.7 | 54 |
| 21 | Pharmaceutical hydrates under ambient conditions from high-pressure seeds: a case study of GABA monohydrate. <i>Chemical Communications</i> , 2014, 50, 1817-1819. | 4.1 | 53 |
| 22 | Importance of Molecular Shape for the Overall Stability of Hydrogen Bond Motifs in the Crystal Structures of Various Carbamazepine-Type Drug Molecules. <i>Crystal Growth and Design</i> , 2007, 7, 100-107. | 3.0 | 52 |
| 23 | Metal-Exchanged \hat{I}^2 Zeolites as Catalysts for the Conversion of Acetone to Hydrocarbons. <i>Materials</i> , 2012, 5, 121-134. | 2.9 | 46 |
| 24 | Space group selection for crystal structure prediction of solvates. <i>CrystEngComm</i> , 2007, 9, 556. | 2.6 | 45 |
| 25 | Crystal nucleation and growth in a polymorphic system: Ostwald's rule, <i>p</i> -aminobenzoic acid and nucleation transition states. <i>CrystEngComm</i> , 2018, 20, 768-776. | 2.6 | 42 |
| 26 | Controlling molecular tautomerism through supramolecular selectivity. <i>Chemical Communications</i> , 2013, 49, 7929. | 4.1 | 38 |
| 27 | Structure prediction, disorder and dynamics in a DMSO solvate of carbamazepine. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12808. | 2.8 | 36 |
| 28 | Transition metal exchanged \hat{I}^2 zeolites: Characterization of the metal state and catalytic application in the methanol conversion to hydrocarbons. <i>Microporous and Mesoporous Materials</i> , 2013, 179, 30-39. | 4.4 | 36 |
| 29 | Systematic conformational bias in small-molecule crystal structures is rare and explicable. <i>CrystEngComm</i> , 2012, 14, 6797. | 2.6 | 34 |
| 30 | Synthon preferences in cocrystals of cis-carboxamides:carboxylic acids. <i>CrystEngComm</i> , 2012, 14, 2552. | 2.6 | 33 |
| 31 | Local environment and acidity in alkaline and alkaline-earth exchanged \hat{I}^2 zeolite: Structural analysis and catalytic properties. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 672-679. | 4.4 | 32 |
| 32 | Salts, Cocrystals, and Ionic Cocrystals of a Simple Tautomeric Compound. <i>Crystal Growth and Design</i> , 2018, 18, 6973-6983. | 3.0 | 32 |
| 33 | The Kinetic Story of Tailor-made Additives in Polymorphic Systems: New Data and Molecular Insights for <i>p</i> -Aminobenzoic Acid. <i>Crystal Growth and Design</i> , 2018, 18, 7518-7525. | 3.0 | 31 |
| 34 | Nanoindentation of Molecular Crystals: Lessons Learned from Aspirin. <i>Crystal Growth and Design</i> , 2020, 20, 5956-5966. | 3.0 | 31 |
| 35 | Crystal structure prediction: are we there yet?. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016, 72, 437-438. | 1.1 | 30 |
| 36 | Polymorphism in <i>p</i> -aminobenzoic acid. <i>CrystEngComm</i> , 2019, 21, 2034-2042. | 2.6 | 30 |

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|----|--|------|-----------|
| 37 | Cocrystals Help Break the "Rules" of Isostructurality: Solid Solutions and Polymorphism in the Malic/Tartaric Acid System. <i>Crystal Growth and Design</i> , 2018, 18, 855-863. | 3.0 | 27 |
| 38 | The unexpected discovery of the ninth polymorph of tolfenamic acid. <i>CrystEngComm</i> , 2021, 23, 3636-3647. | 2.6 | 25 |
| 39 | Switching polymorph stabilities with impurities provides a thermodynamic route to benzamide form III. <i>Communications Chemistry</i> , 2021, 4, . | 4.5 | 25 |
| 40 | When Crystals Do Not Grow: The Growth Dead Zone. <i>Crystal Growth and Design</i> , 2019, 19, 4579-4587. | 3.0 | 23 |
| 41 | Observed and predicted hydrogen bond motifs in crystal structures of hydantoins, dihydrouracils and uracils. <i>New Journal of Chemistry</i> , 2012, 36, 1347. | 2.8 | 22 |
| 42 | A 2:1 sulfamethazine-theophylline cocrystal exhibiting two tautomers of sulfamethazine. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2011, 67, o306-o309. | 0.4 | 21 |
| 43 | Same or different " that is the question: identification of crystal forms from crystal structure data. <i>CrystEngComm</i> , 2020, 22, 7170-7185. | 2.6 | 21 |
| 44 | Transforming Computed Energy Landscapes into Experimental Realities: The Role of Structural Rugosity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20357-20360. | 13.8 | 21 |
| 45 | On the entropy cost of making solvates. <i>Chemical Communications</i> , 2020, 56, 5127-5130. | 4.1 | 21 |
| 46 | On the prevalence of smooth polymorphs at the nanoscale: implications for pharmaceuticals. <i>CrystEngComm</i> , 2019, 21, 2203-2211. | 2.6 | 20 |
| 47 | The role of solvation in proton transfer reactions: implications for predicting salt/co-crystal formation using the ρ^{K} rule. <i>Faraday Discussions</i> , 2022, 235, 446-466. | 3.2 | 20 |
| 48 | Annular tautomerism: experimental observations and quantum mechanics calculations. <i>Journal of Computer-Aided Molecular Design</i> , 2010, 24, 575-586. | 2.9 | 18 |
| 49 | Impact of Crystal Structure and Molecular Conformation on the Hydration Kinetics of Fluconazole. <i>Crystal Growth and Design</i> , 2019, 19, 7193-7205. | 3.0 | 17 |
| 50 | The Curious Case of 2-Propyl-1H-benzimidazole in the Solid State: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5665-5674. | 2.5 | 14 |
| 51 | On the kinetics of solvate formation through mechanochemistry. <i>CrystEngComm</i> , 2019, 21, 2097-2104. | 2.6 | 14 |
| 52 | The interplay of intra- and intermolecular errors in modeling conformational polymorphs. <i>Journal of Chemical Physics</i> , 2022, 156, 104112. | 3.0 | 14 |
| 53 | Isolation and evolution of labile sulfur allotropes via kinetic encapsulation in interactive porous networks. <i>IUCr</i> , 2016, 3, 232-236. | 2.2 | 13 |
| 54 | Can molecular flexibility control crystallization? The case of para-substituted benzoic acids. <i>Chemical Science</i> , 2021, 12, 993-1000. | 7.4 | 12 |

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|----|---|-----|-----------|
| 55 | Can solvated intermediates inform us about nucleation pathways? The case of <i>p</i> -ABA. <i>CrystEngComm</i> , 2020, 22, 7447-7459. | 2.6 | 11 |
| 56 | Discovery and recovery of <i>p</i> -aminobenzoic acid. <i>CrystEngComm</i> , 2019, 21, 2058-2066. | 2.6 | 10 |
| 57 | Transforming Computed Energy Landscapes into Experimental Realities: The Role of Structural Rugosity. <i>Angewandte Chemie</i> , 2020, 132, 20537-20540. | 2.0 | 10 |
| 58 | Is it usual to be unusual? An investigation into molecular conformations in organic crystals. <i>CrystEngComm</i> , 2020, 22, 7217-7228. | 2.6 | 10 |
| 59 | Conformation and geometry of cyclopropane rings having π -acceptor substituents: a theoretical and database study. <i>Acta Crystallographica Section B: Structural Science</i> , 2011, 67, 94-102. | 1.8 | 9 |
| 60 | A novel image analysis technique for 2D characterization of overlapping needle-like crystals. <i>Powder Technology</i> , 2022, 399, 116827. | 4.2 | 9 |
| 61 | Conformational Change in Molecular Crystals: Impact of Solvate Formation and Importance of Conformational Free Energies. <i>Crystal Growth and Design</i> , 2021, 21, 6924-6936. | 3.0 | 9 |
| 62 | Applications of crystal structure prediction $\hat{=}$ organic molecular structures: general discussion. <i>Faraday Discussions</i> , 2018, 211, 493-539. | 3.2 | 8 |
| 63 | Conformational Change Initiates Dehydration in Fluconazole Monohydrate. <i>Crystal Growth and Design</i> , 2020, 20, 6044-6056. | 3.0 | 8 |
| 64 | Crystal structure evaluation: calculating relative stabilities and other criteria: general discussion. <i>Faraday Discussions</i> , 2018, 211, 325-381. | 3.2 | 7 |
| 65 | Impact of polymorphism on mechanical properties of molecular crystals: a study of <i>p</i> -amino and <i>p</i> -nitro benzoic acid with nanoindentation. <i>CrystEngComm</i> , 2021, 23, 2027-2033. | 2.6 | 7 |
| 66 | Conformational aspects of polymorphs and phases of 2-propyl-1 <i>H</i> -benzimidazole. <i>IUCr</i> , 2018, 5, 706-715. | 2.2 | 7 |
| 67 | Enhanced Concentration of Medium Strength Brønsted Acid Sites in Aluminium-Modified β Zeolite. <i>Catalysis Letters</i> , 2012, 142, 112-117. | 2.6 | 6 |
| 68 | Hydrogen-bond landscapes, geometry and energetics of squaric acid and its mono- and dianions: a Cambridge Structural Database, IsoStar and computational study. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2013, 69, 514-523. | 1.1 | 6 |
| 69 | Crystal Growth Cell Incorporating Automated Image Analysis Enabling Measurement of Facet Specific Crystal Growth Rates. <i>Crystal Growth and Design</i> , 2022, 22, 2837-2848. | 3.0 | 6 |
| 70 | Isomechanical Groups in Molecular Crystals and Role of Aromatic Interactions. <i>Crystal Growth and Design</i> , 2020, 20, 7516-7525. | 3.0 | 5 |
| 71 | Geometry and conformation of cyclopropane derivatives having π -acceptor and π -donor substituents: a theoretical and crystal structure database study. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 182-188. | 1.8 | 4 |
| 72 | Probing anisotropic mechanical behaviour in carbamazepine form III. <i>CrystEngComm</i> , 2021, 23, 5826-5838. | 2.6 | 4 |

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|----|---|-----|-----------|
| 73 | Brittle Behavior in Aspirin Crystals: Evidence of Spalling Fracture. <i>Crystal Growth and Design</i> , 2021, 21, 1786-1790. | 3.0 | 4 |
| 74 | The Impact of Ionic Surfactants on the Crystallisation of Glycine Polymorphs. <i>Israel Journal of Chemistry</i> , 2021, 61, 573-582. | 2.3 | 3 |
| 75 | Controlling desolvation through polymer-assisted grinding. <i>CrystEngComm</i> , 2022, 24, 2305-2313. | 2.6 | 3 |
| 76 | Validation of the Existence of Tetrameric Species of Potassium Trimethylsilanolate in the Gas Phase with a Theoretical Cluster Model: A Role of the Counterion as Charge Localizer in the Structure. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2629-2633. | 2.5 | 2 |
| 77 | A Truly Polymorphic Issue in Honor of Prof Joel Bernstein. <i>Crystal Growth and Design</i> , 2020, 20, 2819-2823. | 3.0 | 2 |
| 78 | Multicomponent Crystals of Chlorpropamide: Multiple Conformers, Multiple Z^2 , and Proton Transfer at Play. <i>Crystal Growth and Design</i> , 2021, 21, 3158-3167. | 3.0 | 2 |
| 79 | The solid state of pharmaceuticals. <i>CrystEngComm</i> , 2019, 21, 2031-2033. | 2.6 | 1 |
| 80 | Does the Age of Pharmaceuticals Matter? Undetectable Hydrate Seeds Impact Hydration Behavior. <i>Crystal Growth and Design</i> , 2021, 21, 1912-1916. | 3.0 | 1 |
| 81 | Joel Bernstein (1941–2019). <i>Crystal Growth and Design</i> , 2019, 19, 521-522. | 3.0 | 0 |
| 82 | Professor Roger Davey: Master of <i>All</i> Crystal Trades. <i>Crystal Growth and Design</i> , 0, , . | 3.0 | 0 |