Chick C Wilson

List of Publications by Year
in descending order

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77 papers	2,623 citations	201575 27 h-index	197736 49 g-index
80 all docs	80 docs citations	80 times ranked	2831 citing authors

#	Article	IF	Citations
1	Comparing entire crystal structures: structural genetic fingerprinting. CrystEngComm, 2007, 9, 648.	1.3	486
2	First Oâ^'Hâ^'N Hydrogen Bond with a Centered Proton Obtained by Thermally Induced Proton Migration. Angewandte Chemie - International Edition, 2001, 40, 2651-2654.	7.2	218
3	From Weak Interactions to Covalent Bonds:Â A Continuum in the Complexes of 1,8-Bis(dimethylamino)naphthalene. Journal of the American Chemical Society, 2003, 125, 4259-4270.	6.6	140
4	Charge Density Distribution in the â€œProton Spongeâ€•Compound 1,8-Bis(dimethylamino)naphthalene. Journal of the American Chemical Society, 1999, 121, 4640-4646.	6.6	84
5	Temperature- and Pressure-Induced Proton Transfer in the 1:1 Adduct Formed between Squaric Acid and 4,4â€²-Bipyridine. Journal of the American Chemical Society, 2009, 131, 3884-3893.	6.6	82
6	Tuning Crystal Morphology of Succinic Acid Using a Polymer Additive. Crystal Growth and Design, 2016, 16, 4349-4359.	1.4	79
7	Neutron diffraction investigations of l- and d-alanine at different temperatures: the search for structural evidence for parity violation. New Journal of Chemistry, 2005, 29, 1318.	1.4	73
8	Imaging proton migration from X-rays and neutrons. New Journal of Chemistry, 2004, 28, 718.	1.4	60
9	Paracetamol Form II: An Elusive Polymorph through Facile Multicomponent Crystallization Routes. Crystal Growth and Design, 2011, 11, 1450-1452.	1.4	55
10	Experimental and Theoretical Charge Density Study of Polymorphic Isonicotinamideâ^'Oxalic Acid Molecular Complexes with Strong OÂ·Â·Â·HÂ·Â·Â·N Hydrogen Bonds. Journal of Physical Chemistry A, 2009, 113, 13985-13997.	1.1	54
11	Continuous Crystallization of Paracetamol (Acetaminophen) Form II: Selective Access to a Metastable Solid Form. Crystal Growth and Design, 2017, 17, 2418-2427.	1.4	53
12	Experimental Electron Density and Neutron Diffraction Studies on the Polymorphs of Sulfathiazole. Crystal Growth and Design, 2014, 14, 1227-1239.	1.4	46
13	Toward Continuous Crystallization of Urea-Barbituric Acid: A Polymorphic Co-Crystal System. Crystal Growth and Design, 2015, 15, 4821-4836.	1.4	45
14	Towards Designing Proton-Transfer Systemsâ€”Direct Imaging of Proton Disorder in a Hydrogen-Bonded Carboxylic Acid Dimer by Variable-Temperature X-ray Diffraction. Angewandte Chemie - International Edition, 2004, 43, 2095-2099.	7.2	44
15	Hydrogen atom behaviour imaged in a short intramolecular hydrogen bond using the combined approach of X-ray and neutron diffraction. New Journal of Chemistry, 2009, 33, 2486.	1.4	44
16	Controlled production of the elusive metastable form II of acetaminophen (paracetamol): a fully scalable templating approach in a cooling environment. Chemical Communications, 2016, 52, 7368-7371.	2.2	42
17	Investigation of the Evolution of Crystal Size and Shape during Temperature Cycling and in the Presence of a Polymeric Additive Using Combined Process Analytical Technologies. Crystal Growth and Design, 2017, 17, 1695-1706.	1.4	40
18	Absorbate-Induced Piezochromism in a Porous Molecular Crystal. Nano Letters, 2015, 15, 2149-2154.	4.5	36

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19	Designing Hydrogen Bonds with Temperature-Dependent Proton Disorder:â€‰ The Effect of Crystal Environment. Crystal Growth and Design, 2007, 7, 531-534.	1.4	34
20	Tuning Proton Behavior in a Ternary Molecular Complex. Crystal Growth and Design, 2010, 10, 2770-2774.	1.4	34
21	Design and Evaluation of a Mesoscale Segmented Flow Reactor (KRAIC). Crystal Growth and Design, 2016, 16, 4759-4764.	1.4	32
22	Habit Modification of the Active Pharmaceutical Ingredient Lovastatin Through a Predictive Solvent Selection Approach. Journal of Pharmaceutical Sciences, 2019, 108, 1779-1787.	1.6	32
23	Tuning Morphology in Active Pharmaceutical Ingredients: Controlling the Crystal Habit of Lovastatin through Solvent Choice and Non-Size-Matched Polymer Additives. Crystal Growth and Design, 2020, 20, 5854-5862.	1.4	32
24	Temperature dependence of proton transfer in 4-chlorobenzoic acid. New Journal of Chemistry, 2006, 30, 979.	1.4	31
25	Tuning Proton Disorder in 3,5-Dinitrobenzoic Acid Dimers: the Effect of Local Environment. Crystal Growth and Design, 2013, 13, 497-509.	1.4	30
26	Phase Behavior and Substitution Limit of Mixed Cesium-Formamidinium Lead Triiodide Perovskites. Chemistry of Materials, 2020, 32, 2282-2291.	3.2	30
27	Selective preparation of elusive and alternative single component polymorphic solid forms through multi-component crystallisation routes. Chemical Communications, 2016, 52, 7372-7375.	2.2	29
28	Stability and cooperativity of hydrogen bonds in dihydroxybenzoic acids. New Journal of Chemistry, 2010, 34, 85-91.	1.4	28
29	Living in the salt-cocrystal continuum: indecisive organic complexes with thermochromic behaviour. CrystEngComm, 2019, 21, 1626-1634.	1.3	28
30	A basic introduction to thermal motions of atoms in crystal structures, the underlying potentials and the physical information available from their analysisâ€. Crystallography Reviews, 2009, 15, 3-56.	0.4	27
31	Engineering short, strong hydrogen bonds in urea di-carboxylic acid complexes. CrystEngComm, 2014, 16, 8177-8184.	1.3	27
32	Role of C?Hï¿½ï¿½ï¿½O hydrogen bonds in the ionic complexes of 1,8-bis(dimethylamino)naphthalene. Journal of Physical Organic Chemistry, 2003, 16, 764-771.	0.9	26
33	Hydrogen transfer in pentachlorophenol â€“ dimethylpyridine complexes. CrystEngComm, 2008, 10, 177-183.	1.3	24
34	Tautomerisation and polymorphism in molecular complexes of piroxicam with mono-substituted benzoic acids. CrystEngComm, 2012, 14, 7264.	1.3	24
35	Towards proton transfer in hydrogen bonded molecular complexes: joint experimental and theoretical modelling and an energy scale for polymorphism. CrystEngComm, 2007, 9, 743.	1.3	23
36	Spin crossover in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>CsFe</mml:mtext></mml:mrow><mml:mrow><mml:mtext>II</mml:mtext></mml:mrow> Physical Review B, 2010, 81, .	1.1	22

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37	Exploring short strong hydrogen bonds engineered in organic acid molecular crystals for temperature dependent proton migration behaviour using single crystal synchrotron X-ray diffraction (SCSXRD). CrystEngComm, 2019, 21, 5249-5260.	1.3	21
38	The evolution of hydrogen atom parameters under changing external conditions by time-of-flight single crystal neutron diffraction. Crystallography Reviews, 2007, 13, 143-198.	0.4	20
39	Temperature dependent solid-state proton migration in dimethylureaâ€“oxalic acid complexes. Physical Chemistry Chemical Physics, 2012, 14, 13273.	1.3	19
40	Electron density, disorder and polymorphism: high-resolution diffraction studies of the highly polymorphic neuralgic drug carbamazepine. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 39-50.	0.5	19
41	Integrated plug flow synthesis and crystallisation of pyrazinamide. Reaction Chemistry and Engineering, 2018, 3, 631-634.	1.9	19
42	Identifying structural motifs in inter-molecular contacts using cluster analysis : Part 1. Interactions of carboxylic acids with primary amides and with other carboxylic acid groups. CrystEngComm, 2006, 8, 257.	1.3	18
43	Bifurcated hydrogen-bonded synthons in molecular complexes of picolines with chloranilic acid. CrystEngComm, 2010, 12, 917-924.	1.3	18
44	Role of Ethynyl-Derived Weak Hydrogen-Bond Interactions in the Supramolecular Structures of 1D, 2D, and 3D Coordination Polymers Containing 5-Ethynyl-1,3-benzenedicarboxylate. Crystal Growth and Design, 2015, 15, 465-474.	1.4	17
45	An Iodineâ€Vaporâ€Induced Cyclization in a Crystalline Molecular Flask. Angewandte Chemie - International Edition, 2016, 55, 5943-5946.	7.2	17
46	Determining hydrogen positions in crystal engineered organic molecular complexes by joint neutron powder and single crystal X-ray diffraction. CrystEngComm, 2014, 16, 1232-1236.	1.3	16
47	Engineering Short, Strong, Charge-Assisted Hydrogen Bonds in Benzoic Acid Dimers through Cocrystallization with Proton Sponge. Crystal Growth and Design, 2016, 16, 2112-2122.	1.4	16
48	Turning colour on and off using molecular disorder and proton transfer in multi-component molecular complexes. CrystEngComm, 2014, 16, 5849-5858.	1.3	15
49	From Proton Disorder to Proton Migration:Â A Continuum in the Hydrogen Bond of a Proton Sponge in the Solid State. Crystal Growth and Design, 2007, 7, 1393-1398.	1.4	14
50	Comparing entire crystal structures using cluster analysis and fingerprint plots. CrystEngComm, 2010, 12, 801-809.	1.3	13
51	Neutron powder diffraction â€“ new opportunities in hydrogen location in molecular and materials structure. Crystallography Reviews, 2014, 20, 162-206.	0.4	13
52	Engineering a New Access Route to Metastable Polymorphs with Electrical Confinement. Crystal Growth and Design, 2020, 20, 1451-1457.	1.4	13
53	Dynamic Crystallization Pathways of Polymorphic Pharmaceuticals Revealed in Segmented Flow with Inline Powder X-ray Diffraction. Analytical Chemistry, 2020, 92, 7754-7761.	3.2	12
54	Identifying structural motifs in intermolecular contacts using cluster analysis : Part 2. Interactions of carboxylic acids with secondary amides. CrystEngComm, 2007, 9, 245-253.	1.3	11

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55	Conformational polymorphism of the molecular complex of 3-fluorobenzoic acid with 4-acetylpyridine. CrystEngComm, 2011, 13, 3349.	1.3	11
56	4-Phenoxyphenol: A Porous Molecular Material. Crystal Growth and Design, 2012, 12, 1746-1751.	1.4	11
57	New Route to Local Order Models for Disordered Crystalline Materials: Diffuse Scattering and Computational Modeling of Phloroglucinol Dihydrate. Crystal Growth and Design, 2011, 11, 2045-2049.	1.4	10
58	From Evaporative to Cooling Crystallisation: An Initial Co-Crystallisation Study of Cytosine and Its Fluorinated Derivative with 4-chloro-3,5-dinitrobenzoic Acid. Crystals, 2014, 4, 123-140.	1.0	9
59	Intermolecular hydrogen transfer and solubility tuning in multi-component molecular crystals of the API piroxicam. CrystEngComm, 2014, 16, 5924-5932.	1.3	9
60	Polymorphism of the azobenzene dye compound methyl yellow. CrystEngComm, 2016, 18, 3456-3461.	1.3	8
61	A new small molecule gelator and 3D framework ligator of lead(<scp>ii</scp>). CrystEngComm, 2015, 17, 8139-8145.	1.3	7
62	The Effect of Local Crystalline Environment on Hydrogen Atom Behavior in Molecular Complexes of a Proton Sponge. Crystal Growth and Design, 2016, 16, 2123-2129.	1.4	7
63	Self-assembly synthesis of precursors to potential open framework alkali earth metalâ€“organic complexes. New Journal of Chemistry, 2014, 38, 2135-2143.	1.4	6
64	Isotopomeric polymorphism in a â€œdoubly-polymorphicâ€•multi-component molecular crystal. CrystEngComm, 2015, 17, 5273-5279.	1.3	6
65	Crystal engineering urea organic acid hydrogen bonded networks with solvent inclusion properties. CrystEngComm, 2016, 18, 5916-5929.	1.3	6
66	Exploring Structureâ€“Property Relationships of Silver 4â€(Phenylethynyl)pyridine Complexes. European Journal of Inorganic Chemistry, 2017, 2017, 1855-1867.	1.0	6
67	In situ non-invasive Raman spectroscopic characterisation of succinic acid polymorphism during segmented flow crystallisation. Molecular Systems Design and Engineering, 2020, 5, 294-303.	1.7	6
68	Magnetic coupling in a hybrid Mn(<scp>ii</scp>) acetylene dicarboxylate. Physical Chemistry Chemical Physics, 2016, 18, 33329-33334.	1.3	4
69	High resolution X-ray and neutron diffraction studies on molecular complexes of chloranilic acid and lutidines. CrystEngComm, 2016, 18, 5697-5709.	1.3	4
70	Tuning charge-assisted and weak hydrogen bonds in molecular complexes of the proton sponge DMAN by acid co-former substitution. CrystEngComm, 2018, 20, 3074-3083.	1.3	4
71	From structure to crystallisation and pharmaceutical manufacturing: the CSD in CMAC workflows. CrystEngComm, 2020, 22, 7475-7489.	1.3	4
72	Molecular and Supramolecular Origins of Optical Nonlinearity in N-Methylurea. Journal of Physical Chemistry C, 2013, 117, 25669-25676.	1.5	3

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73	An Iodineâ€Vaporâ€Induced Cyclization in a Crystalline Molecular Flask. Angewandte Chemie, 2016, 128, 6047-6050.	1.6	3
74	Elusive Seed Formation via Electrical Confinement: Control of a Novel Cocrystal in Cooling Crystallization. Crystal Growth and Design, 2021, 21, 3310-3315.	1.4	3
75	Can cluster analysis assist crystal structure prediction? Intermolecular interactions between carboxylates, pyridine and pyrimidine heterocycles. CrystEngComm, 2010, 12, 810-816.	1.3	2
76	The kinetics of bulk hydration of the disaccharides Î±-lactose and trehalose by in situ neutron powder diffraction. MedChemComm, 2010, 1, 345.	3.5	1
77	Innentitelbild: An Iodineâ€Vaporâ€Induced Cyclization in a Crystalline Molecular Flask (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /Over	1.6	0