

Rafel Prohens

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

1,979
citations

23
h-index

42
g-index

82
ext. papers

2,268
ext. citations

4.6
avg, IF

4.8
L-index

#	Paper	IF	Citations
77	Polymorphism in the 1/1 Pterostilbene/Picolinic Acid Cocrystal.. <i>Crystal Growth and Design</i> , 2022 , 22, 590-597	3.5	1
76	A Novel, Extremely Bioavailable Cocrystal of Pterostilbene. <i>Crystal Growth and Design</i> , 2021 , 21, 2315-2323	3.5	9
75	A New and Highly Stable Cocrystal of Vitamin D3 for Use in Enhanced Food Supplements. <i>Crystal Growth and Design</i> , 2021 , 21, 1418-1423	3.5	3
74	Targeting transthyretin in Alzheimer's disease: Drug discovery of small-molecule chaperones as disease-modifying drug candidates for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2021 , 226, 113847	6.8	2
73	Synthesis and Characterization of a New Norfloxacin/Resorcinol Cocrystal with Enhanced Solubility and Dissolution Profile.. <i>Pharmaceutics</i> , 2021 , 14,	6.4	3
72	Crystal engineering of nutraceutical phytosterols: new cocrystal solid solutions. <i>CrystEngComm</i> , 2020 , 22, 4210-4214	3.3	1
71	Morphotropism and Quasi-Isostructurality in the Three High Z' Concomitant Polymorphs of Efinaconazole. <i>Crystal Growth and Design</i> , 2020 , 20, 4238-4242	3.5	5
70	Calorimetric Studies of Binary and Ternary Molecular Interactions between Transthyretin, A β Peptides, and Small-Molecule Chaperones toward an Alternative Strategy for Alzheimer's Disease Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 3205-3214	8.3	12
69	A late appearing polymorph of nutraceutical pterostilbene. <i>CrystEngComm</i> , 2020 , 22, 4680-4684	3.3	7
68	New Cocrystal of Ubiquinol with High Stability to Oxidation. <i>Crystal Growth and Design</i> , 2020 , 20, 5583-5588	3.3	5
67	Mechanistic Understanding of Competitive Destabilization of Carbamazepine Cocrystals under Solvent Free Conditions. <i>Crystal Growth and Design</i> , 2020 , 20, 6024-6029	3.5	5
66	An Assay for Screening Potential Drug Candidates for Alzheimer's Disease That Act as Chaperones of the Transthyretin and Amyloid- β Peptides Interaction. <i>Chemistry - A European Journal</i> , 2020 , 26, 17462-17469	4.8	13
65	Solid-State Competitive Destabilization of Caffeine Malonic Acid Cocrystal: Mechanistic and Kinetic Investigations. <i>Crystal Growth and Design</i> , 2020 , 20, 7598-7605	3.5	0
64	DFT Analysis of Uncommon π -H-Bond Array Interaction in a New Pterostilbene/Theophylline Cocrystal. <i>Crystal Growth and Design</i> , 2020 , 20, 6691-6698	3.5	10
63	Sildenafil/Resorcinol Cocrystal: XRPD Structure and DFT Calculations. <i>Crystals</i> , 2020 , 10, 1126	2.3	9
62	Potentiometric CheqSol and standardized shake-flask solubility methods are complimentary tools in physicochemical profiling. <i>European Journal of Pharmaceutical Sciences</i> , 2020 , 148, 105305	5.1	1
61	H-Bonded anion-anion complexes in fentanyl citrate polymorphs and solvates. <i>Chemical Communications</i> , 2019 , 55, 115-118	5.8	22

60	Gallic Acid Dimer As a Double Hole Donor: Evidence from X-ray, Theoretical Calculations, and Generalization from the Cambridge Structural Database. <i>Crystal Growth and Design</i> , 2019 , 19, 3989-3997	3.5	9
59	DNA specificities modulate the binding of human transcription factor A to mitochondrial DNA control region. <i>Nucleic Acids Research</i> , 2019 , 47, 6519-6537	20.1	6
58	Hydrogen Bond Polarization Overcomes Unfavorable Packing in the Most Stable High Z? Polymorph of Pterostilbene. <i>Crystal Growth and Design</i> , 2019 , 19, 2552-2556	3.5	7
57	Derisking Development by a Cocrystallization Screen of a Novel Selective Inhaled JAK-STAT inhibitor. <i>Crystal Growth and Design</i> , 2019 , 19, 403-414	3.5	2
56	Property prediction and pharmacokinetic evaluation of mixed stoichiometry cocrystals of zafirlukast, a drug delivery case study. <i>CrystEngComm</i> , 2018 , 20, 1346-1351	3.3	4
55	Assembling the Puzzle of Apixaban Solid Forms. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1909-1916	5.6	3
54	Polymorphism of Sildenafil: A New Metastable Desolvate. <i>Crystal Growth and Design</i> , 2018 , 18, 3740-3746	5.5	13
53	H-Bonded anion-anion complex trapped in a squaramido-based receptor. <i>Chemical Communications</i> , 2018 , 54, 1841-1844	5.8	28
52	Polymorphism in secondary squaramides: on the importance of interactions involving the four membered ring. <i>CrystEngComm</i> , 2018 , 20, 237-244	3.3	10
51	An improved methodology to compute surface site interaction points using high density molecular electrostatic potential surfaces. <i>Journal of Computational Chemistry</i> , 2018 , 39, 2371-2377	3.5	4
50	Combined Virtual/Experimental Multicomponent Solid Forms Screening of Sildenafil: New Salts, Cocrystals, and Hybrid Salt-Cocrystals. <i>Crystal Growth and Design</i> , 2018 , 18, 7618-7627	3.5	23
49	Hydrogen bonding versus interactions: their key competition in sildenafil solvates. <i>CrystEngComm</i> , 2018 , 20, 4526-4530	3.3	5
48	A surface site interaction point methodology for macromolecules and huge molecular databases. <i>Journal of Computational Chemistry</i> , 2017 , 38, 419-426	3.5	2
47	A combined crystallographic and theoretical study of weak intermolecular interactions in crystalline squaric acid esters and amides. <i>CrystEngComm</i> , 2017 , 19, 3071-3077	3.3	5
46	Cocrystals of spironolactone and griseofulvin based on an in silico screening method. <i>CrystEngComm</i> , 2017 , 19, 3592-3599	3.3	29
45	Solid form and solubility. <i>CrystEngComm</i> , 2017 , 19, 23-26	3.3	16
44	DNA structure directs positioning of the mitochondrial genome packaging protein Abf2p. <i>Nucleic Acids Research</i> , 2017 , 45, 951-967	20.1	17
43	Adaptation of targeted nanocarriers to changing requirements in antimalarial drug delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 515-525	6	40

42	Polymorphism of Cocrystals: The Promiscuous Behavior of Agomelatine. <i>Crystal Growth and Design</i> , 2016 , 16, 1063-1070	3-5	34
41	Experimental and theoretical study of weak intermolecular interactions in crystalline tertiary squaramides. <i>CrystEngComm</i> , 2016 , 18, 6437-6443	3-3	11
40	The Ca(2+)-EDTA chelation as standard reaction to validate Isothermal Titration Calorimeter measurements (ITC). <i>Talanta</i> , 2016 , 154, 354-9	6.2	14
39	Two New Polymorphic Cocrystals of Zafirlukast: Preparation, Crystal Structure, and Stability Relations. <i>Crystal Growth and Design</i> , 2015 , 15, 4162-4169	3-5	7
38	Modulation of reactivity in the cavity of liposomes promotes the formation of peptide bonds. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12269-75	16.4	36
37	Expanding the Crystal Form Landscape of the Antiviral Drug Adefovir Dipivoxil. <i>Crystal Growth and Design</i> , 2015 , 15, 475-484	3-5	7
36	Experimental and Theoretical Study of Aromaticity Effects in the Solid State Architecture on Squaric Acid Derivatives. <i>Crystal Growth and Design</i> , 2014 , 14, 2578-2587	3-5	20
35	Application of heparin as a dual agent with antimalarial and liposome targeting activities toward Plasmodium-infected red blood cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1719-28	6	40
34	Single-Stranded Molecular Helical Assembly from a Self-Complementary Squaramide Compound. <i>Crystal Growth and Design</i> , 2014 , 14, 397-400	3-5	13
33	Virtual Screening Identifies New Cocrystals of Nalidixic Acid. <i>Crystal Growth and Design</i> , 2014 , 14, 1749-1755	3-5	43
32	K-Oxyma: a Strong Acylation-Promoting, 2-CTC Resin-Friendly Coupling Additive. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 6372-6378	3-2	23
31	Self-Assembling of Zwitterionic Squaramides through Electrostatically Compressed Face-to-Face π -Stacking: A New Supramolecular Synthone. <i>Crystal Growth and Design</i> , 2013 , 13, 4200-4203	3-5	15
30	Water wires in the nanoporous form II of carbamazepine: a single-crystal X-ray diffraction analysis. <i>CrystEngComm</i> , 2013 , 15, 845-847	3-3	8
29	Crystal structure solution of an elusive polymorph of Dibenzylsquaramide. <i>Powder Diffraction</i> , 2013 , 28, S470-S480	1.8	6
28	Combination of chemometrically assisted voltammetry, calorimetry, and circular dichroism as a new method for the study of bioinorganic substances: application to selenocystine metal complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2012 , 17, 321-9	3-7	6
27	A cocrystal is the key intermediates for the production of a new polymorph of Vorinostat. <i>CrystEngComm</i> , 2012 , 14, 362-365	3-3	8
26	Effect of Preorganization on the Polymorphism and Cocrystallization of a Squaramide Compound. <i>Crystal Growth and Design</i> , 2012 , 12, 4548-4553	3-5	16
25	Cooperative induction in double H-bonding donor/acceptor compounds: Chains vs. ribbons. <i>CrystEngComm</i> , 2012 , 14, 5745	3-3	21

24	Virtual cocrystal screening. <i>Chemical Science</i> , 2011 , 2, 883	9.4	185
23	Cooperativity in Solid-State Squaramides. <i>Crystal Growth and Design</i> , 2011 , 11, 3725-3730	3.5	12
22	Molecular architecture of the Mn ²⁺ -dependent lactonase UlaG reveals an RNase-like metallo-beta-lactamase fold and a novel quaternary structure. <i>Journal of Molecular Biology</i> , 2010 , 398, 715-29	6.5	26
21	Revisiting the Solid State of Norfloxacin. <i>Crystal Growth and Design</i> , 2010 , 10, 2948-2953	3.5	17
20	Oxyma: an efficient additive for peptide synthesis to replace the benzotriazole-based HOBt and HOAt with a lower risk of explosion. <i>Chemistry - A European Journal</i> , 2009 , 15, 9394-403	4.8	268
19	COMU: a safer and more effective replacement for benzotriazole-based uronium coupling reagents. <i>Chemistry - A European Journal</i> , 2009 , 15, 9404-16	4.8	219
18	New polymorphic hydrogen bonding donor-acceptor system with two temperature coincident solid-solid transitions. <i>CrystEngComm</i> , 2009 , 11, 52-54	3.3	23
17	Ziprasidone malate, a new trimorphic salt with improved aqueous solubility. <i>CrystEngComm</i> , 2009 , 11, 791	3.3	20
16	Quaternary structural transitions in the DeoR-type repressor UlaR control transcriptional readout from the L-ascorbate utilization regulon in Escherichia coli. <i>Biochemistry</i> , 2008 , 47, 11424-33	3.2	20
15	Competitive binding of Cd and Zn with the phytochelatin (gamma-Glu-Cys) ₄ -Gly: comparative study by mass spectrometry, voltammetry-multivariate curve resolution, and isothermal titration calorimetry. <i>Environmental Science & Technology</i> , 2008 , 42, 2860-6	10.3	36
14	Thermodynamics of Cd ²⁺ and Zn ²⁺ binding by the phytochelatin (gamma-Glu-Cys) ₄ -Gly and its precursor glutathione. <i>Analytical Biochemistry</i> , 2008 , 375, 82-9	3.1	38
13	Polymorphism of (S)-triphenylglycol: kinetic dependent transformation of a new multipolymorphic system. <i>Chemical Communications</i> , 2007 , 3538-40	5.8	4
12	A new polymorph of Norfloxacin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007 , 89, 687-692	4.1	40
11	Safety Evaluation of an Unexpected Incident with a Nitro Compound. <i>Organic Process Research and Development</i> , 2007 , 11, 1131-1134	3.9	13
10	Polymorphism of Norfloxacin: Evidence of the Enantiotropic Relationship between Polymorphs A and B. <i>Crystal Growth and Design</i> , 2006 , 6, 1463-1467	3.5	44
9	A theoretical study of aromaticity in squaramide complexes with anions. <i>Chemical Physics Letters</i> , 2002 , 351, 115-120	2.5	53
8	Thermodynamic characterization of the squaramide-carboxylate interaction in squaramide receptors. <i>Tetrahedron Letters</i> , 2001 , 42, 4933-4936	2	41
7	A squaramide fluorescent ensemble for monitoring sulfate in water. <i>Chemical Communications</i> , 2001 , 1456-1457	5.8	67

6	Ein effizienter, fluoreszierender Sensor für cholinhaltige Phospholipide. <i>Angewandte Chemie</i> , 1999 , 111, 2346-2349	3.6	8
5	An Effective Fluorescent Sensor for Choline-Containing Phospholipids. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2208-2211	16.4	44
4	Squaramido-based receptors: Molecular recognition of carboxylate anions in highly competitive media. <i>Tetrahedron Letters</i> , 1998 , 39, 1063-1066	2	75
3	X-Ray structure of the 1:1 complex of a tripodal receptor and cis-cyclohexane-1,3,5-tricarboxylic acid. <i>Chemical Communications</i> , 1997 , 357-358	5.8	9
2	Squaramido-Based Receptors: Design, Synthesis, and Application to the Recognition of Tetraalkylammonium Compounds. <i>Journal of Organic Chemistry</i> , 1996 , 61, 9394-9401	4.2	64
1	Static discrete disorder in the crystal structure of iododiflunisal: on the importance of hydrogen bond, halogen bond and π -stacking interactions. <i>CrystEngComm</i> ,	3.3	2