Rafel Prohens

List of Publications by Citations

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	Oxyma: an efficient additive for peptide synthesis to replace the benzotriazole-based HOBt and HOAt with a lower risk of explosion. *Chemistry - A European Journal*, **2009**, 15, 9394-403	4.8	268
76	COMU: a safer and more effective replacement for benzotriazole-based uronium coupling reagents. *Chemistry - A European Journal*, **2009**, 15, 9404-16	4.8	219
75	Virtual cocrystal screening. *Chemical Science*, **2011**, 2, 883	9.4	185
74	Squaramido-based receptors: Molecular recognition of carboxylate anions in highly competitive media. *Tetrahedron Letters*, **1998**, 39, 1063-1066	2	75
73	A squaramide fluorescent ensemble for monitoring sulfate in water. *Chemical Communications*, **2001**, 1456-1457	5.8	67
72	Squaramido-Based Receptors: Design, Synthesis, and Application to the Recognition of Tetraalkylammonium Compounds. *Journal of Organic Chemistry*, **1996**, 61, 9394-9401	4.2	64
71	A theoretical study of aromaticity in squaramide complexes with anions. *Chemical Physics Letters*, **2002**, 351, 115-120	2.5	53
70	Polymorphism of Norfloxacin: Evidence of the Enantiotropic Relationship between Polymorphs A and B. *Crystal Growth and Design*, **2006**, 6, 1463-1467	3.5	44
69	An Effective Fluorescent Sensor for Choline-Containing Phospholipids. *Angewandte Chemie - International Edition*, **1999**, 38, 2208-2211	16.4	44
68	Virtual Screening Identifies New Cocrystals of Nalidixic Acid. *Crystal Growth and Design*, **2014**, 14, 1749-1755	3.5	43
67	Thermodynamic characterization of the squaramide□arboxylate interaction in squaramide receptors. *Tetrahedron Letters*, **2001**, 42, 4933-4936	2	41
66	Application of heparin as a dual agent with antimalarial and liposome targeting activities toward Plasmodium-infected red blood cells. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 1719-28	6	40
65	Adaptation of targeted nanocarriers to changing requirements in antimalarial drug delivery. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 515-525	6	40
64	A new polymorph of Norfloxacin. *Journal of Thermal Analysis and Calorimetry*, **2007**, 89, 687-692	4.1	40
63	Thermodynamics of Cd2+ and Zn2+ binding by the phytochelatin (gamma-Glu-Cys)4-Gly and its precursor glutathione. *Analytical Biochemistry*, **2008**, 375, 82-9	3.1	38
62	Modulation of reactivity in the cavity of liposomes promotes the formation of peptide bonds. *Journal of the American Chemical Society*, **2015**, 137, 12269-75	16.4	36
61	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. *Environmental Science & Technology*, **2008**, 42, 2860-6	10.3	36

60	Polymorphism of Cocrystals: The Promiscuous Behavior of Agomelatine. *Crystal Growth and Design*, **2016**, 16, 1063-1070	3.5	34
59	Cocrystals of spironolactone and griseofulvin based on an in silico screening method. *CrystEngComm*, **2017**, 19, 3592-3599	3.3	29
58	H-Bonded anion-anion complex trapped in a squaramido-based receptor. *Chemical Communications*, **2018**, 54, 1841-1844	5.8	28
57	Molecular architecture of the Mn2+-dependent lactonase UlaG reveals an RNase-like metallo-beta-lactamase fold and a novel quaternary structure. *Journal of Molecular Biology*, **2010**, 398, 715-29	6.5	26
56	K-Oxyma: a Strong Acylation-Promoting, 2-CTC Resin-Friendly Coupling Additive. *European Journal of Organic Chemistry*, **2013**, 2013, 6372-6378	3.2	23
55	New polymorphic hydrogen bonding donor□cceptor system with two temperature coincident solid□olid transitions. *CrystEngComm*, **2009**, 11, 52-54	3.3	23
54	Combined Virtual/Experimental Multicomponent Solid Forms Screening of Sildenafil: New Salts, Cocrystals, and Hybrid Salt□cocrystals. *Crystal Growth and Design*, **2018**, 18, 7618-7627	3.5	23
53	H-Bonded anion-anion complexes in fentanyl citrate polymorphs and solvates. *Chemical Communications*, **2019**, 55, 115-118	5.8	22
52	Cooperative induction in double H-bonding donor/acceptor compounds: Chains vs. ribbons. *CrystEngComm*, **2012**, 14, 5745	3.3	21
51	Experimental and Theoretical Study of Aromaticity Effects in the Solid State Architecture on Squaric Acid Derivatives. *Crystal Growth and Design*, **2014**, 14, 2578-2587	3.5	20
50	Ziprasidone malate, a new trimorphic salt with improved aqueous solubility. *CrystEngComm*, **2009**, 11, 791	3.3	20
49	Quaternary structural transitions in the DeoR-type repressor UlaR control transcriptional readout from the L-ascorbate utilization regulon in Escherichia coli. *Biochemistry*, **2008**, 47, 11424-33	3.2	20
48	DNA structure directs positioning of the mitochondrial genome packaging protein Abf2p. *Nucleic Acids Research*, **2017**, 45, 951-967	20.1	17
47	Revisiting the Solid State of Norfloxacin. *Crystal Growth and Design*, **2010**, 10, 2948-2953	3.5	17
46	Solid form and solubility. *CrystEngComm*, **2017**, 19, 23-26	3.3	16
45	Effect of Preorganization on the Polymorphism and Cocrystallization of a Squaramide Compound. *Crystal Growth and Design*, **2012**, 12, 4548-4553	3.5	16
44	Self-Assembling of Zwitterionic Squaramides through Electrostatically Compressed Face-to-Face □Stacking: A New Supramolecular Synthon. *Crystal Growth and Design*, **2013**, 13, 4200-4203	3.5	15
43	The Ca(2+)-EDTA chelation as standard reaction to validate Isothermal Titration Calorimeter measurements (ITC). *Talanta*, **2016**, 154, 354-9	6.2	14

42	Polymorphism of Sildenafil: A New Metastable Desolvate. *Crystal Growth and Design*, **2018**, 18, 3740-3746	3.5	13
41	Single-Stranded Molecular Helical Assembly from a Self-Complementary Squaramide Compound. *Crystal Growth and Design*, **2014**, 14, 397-400	3.5	13
40	Safety Evaluation of an Unexpected Incident with a Nitro Compound. *Organic Process Research and Development*, **2007**, 11, 1131-1134	3.9	13
39	Calorimetric Studies of Binary and Ternary Molecular Interactions between Transthyretin, A Peptides, and Small-Molecule Chaperones toward an Alternative Strategy for Alzheimer's Disease Drug Discovery. *Journal of Medicinal Chemistry*, **2020**, 63, 3205-3214	8.3	12
38	Cooperativity in Solid-State Squaramides. *Crystal Growth and Design*, **2011**, 11, 3725-3730	3.5	12
37	Experimental and theoretical study of weak intermolecular interactions in crystalline tertiary squaramides. *CrystEngComm*, **2016**, 18, 6437-6443	3.3	11
36	DFT Analysis of Uncommon H-Bond Array Interaction in a New Pterostilbene/Theophylline Cocrystal. *Crystal Growth and Design*, **2020**, 20, 6691-6698	3.5	10
35	Polymorphism in secondary squaramides: on the importance of interactions involving the four membered ring. *CrystEngComm*, **2018**, 20, 237-244	3.3	10
34	Gallic Acid Dimer As a Double Hole Donor: Evidence from X-ray, Theoretical Calculations, and Generalization from the Cambridge Structural Database. *Crystal Growth and Design*, **2019**, 19, 3989-3997	3.5	9
33	X-Ray structure of the 1:1 complex of a tripodal receptor andcis-cyclohexane-1,3,5-tricarboxylic acid. *Chemical Communications*, **1997**, 357-358	5.8	9
32	Sildenafil Resorcinol Cocrystal: XRPD Structure and DFT Calculations. *Crystals*, **2020**, 10, 1126	2.3	9
31	A Novel, Extremely Bioavailable Cocrystal of Pterostilbene. *Crystal Growth and Design*, **2021**, 21, 2315-2323	3.5	9
30	Water wires in the nanoporous form II of carbamazepine: a single-crystal X-ray diffraction analysis. *CrystEngComm*, **2013**, 15, 845-847	3.3	8
29	A cocrystal is the key intermediates for the production of a new polymorph of Vorinostat. *CrystEngComm*, **2012**, 14, 362-365	3.3	8
28	Ein effizienter, fluoreszierender Sensor f cholinhaltige Phospholipide. *Angewandte Chemie*, **1999**, 111, 2346-2349	3.6	8
27	Hydrogen Bond Polarization Overcomes Unfavorable Packing in the Most Stable High Z? Polymorph of Pterostilbene. *Crystal Growth and Design*, **2019**, 19, 2552-2556	3.5	7
26	Two New Polymorphic Cocrystals of Zafirlukast: Preparation, Crystal Structure, and Stability Relations. *Crystal Growth and Design*, **2015**, 15, 4162-4169	3.5	7
25	Expanding the Crystal Form Landscape of the Antiviral Drug Adefovir Dipivoxil. *Crystal Growth and Design*, **2015**, 15, 475-484	3.5	7

24	A late appearing polymorph of nutraceutical pterostilbene. *CrystEngComm*, **2020**, 22, 4680-4684	3.3	7
23	DNA specificities modulate the binding of human transcription factor A to mitochondrial DNA control region. *Nucleic Acids Research*, **2019**, 47, 6519-6537	20.1	6
22	Combination of chemometrically assisted voltammetry, calorimetry, and circular dichroism as a new method for the study of bioinorganic substances: application to selenocystine metal complexes. *Journal of Biological Inorganic Chemistry*, **2012**, 17, 321-9	3.7	6
21	Crystal structure solution of an elusive polymorph of Dibenzylsquaramide. *Powder Diffraction*, **2013**, 28, S470-S480	1.8	6
20	A combined crystallographic and theoretical study of weak intermolecular interactions in crystalline squaric acid esters and amides. *CrystEngComm*, **2017**, 19, 3071-3077	3.3	5
19	Morphotropism and "Quasi-Isostructurality" in the Three High Z? Concomitant Polymorphs of Efinaconazole. *Crystal Growth and Design*, **2020**, 20, 4238-4242	3.5	5
18	New Cocrystal of Ubiquinol with High Stability to Oxidation. *Crystal Growth and Design*, **2020**, 20, 5583-5588	3.5	5
17	Mechanistic Understanding of Competitive Destabilization of Carbamazepine Cocrystals under Solvent Free Conditions. *Crystal Growth and Design*, **2020**, 20, 6024-6029	3.5	5
16	Hydrogen bonding versus π interactions: their key competition in sildenafil solvates. *CrystEngComm*, **2018**, 20, 4526-4530	3.3	5
15	Property prediction and pharmacokinetic evaluation of mixed stoichiometry cocrystals of zafirlukast, a drug delivery case study. *CrystEngComm*, **2018**, 20, 1346-1351	3.3	4
14	Polymorphism of (S)-triphenylglycol: kinetic dependent transformation of a new multipolymorphic system. *Chemical Communications*, **2007**, 3538-40	5.8	4
13	An improved methodology to compute surface site interaction points using high density molecular electrostatic potential surfaces. *Journal of Computational Chemistry*, **2018**, 39, 2371-2377	3.5	4
12	Assembling the Puzzle of Apixaban Solid Forms. *Molecular Pharmaceutics*, **2018**, 15, 1909-1916	5.6	3
11	An Assay for Screening Potential Drug Candidates for Alzheimer's Disease That Act as Chaperones of the Transthyretin and Amyloid-β Peptides Interaction. *Chemistry - A European Journal*, **2020**, 26, 17462-17469	4.8	3
10	A New and Highly Stable Cocrystal of Vitamin D3 for Use in Enhanced Food Supplements. *Crystal Growth and Design*, **2021**, 21, 1418-1423	3.5	3
9	Synthesis and Characterization of a New Norfloxacin/Resorcinol Cocrystal with Enhanced Solubility and Dissolution Profile.. *Pharmaceutics*, **2021**, 14,	6.4	3
8	A surface site interaction point methodology for macromolecules and huge molecular databases. *Journal of Computational Chemistry*, **2017**, 38, 419-426	3.5	2
7	Derisking Development by a Cocrystallization Screen of a Novel Selective Inhaled JAK-STAT inhibitor. *Crystal Growth and Design*, **2019**, 19, 403-414	3.5	2

6	Targeting transthyretin in Alzheimer's disease: Drug discovery of small-molecule chaperones as disease-modifying drug candidates for Alzheimer's disease. *European Journal of Medicinal Chemistry* , **2021**, 226, 113847	6.8	2
5	Static discrete disorder in the crystal structure of iododiflunisal: on the importance of hydrogen bond, halogen bond and π-stacking interactions. *CrystEngComm*,	3.3	2
4	Crystal engineering of nutraceutical phytosterols: new cocrystal solid solutions. *CrystEngComm*, **2020**, 22, 4210-4214	3.3	1
3	Potentiometric CheqSol and standardized shake-flask solubility methods are complimentary tools in physicochemical profiling. *European Journal of Pharmaceutical Sciences*, **2020**, 148, 105305	5.1	1
2	Polymorphism in the 1/1 Pterostilbene/Picolinic Acid Cocrystal.. *Crystal Growth and Design*, **2022**, 22, 590-597	3.5	1
1	Solid-State Competitive Destabilization of Caffeine Malonic Acid Cocrystal: Mechanistic and Kinetic Investigations. *Crystal Growth and Design*, **2020**, 20, 7598-7605	3.5	0