

Colin R Groom

List of Publications by Citations

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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.

32 papers	12,127 citations	19 h-index	37 g-index
37 ext. papers	13,716 ext. citations	7.9 avg, IF	6.95 L-index

#	Paper	IF	Citations
32	The Cambridge Structural Database. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016 , 72, 171-9	1.8	5178
31	The druggable genome. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 727-30	64.1	2427
30	Ligand efficiency: a useful metric for lead selection. <i>Drug Discovery Today</i> , 2004 , 9, 430-1	8.8	1500
29	The Cambridge Structural Database in retrospect and prospect. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 662-71	16.4	912
28	Pheromone binding to two rodent urinary proteins revealed by X-ray crystallography. <i>Nature</i> , 1992 , 360, 186-8	50.4	350
27	Report on the sixth blind test of organic crystal structure prediction methods. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016 , 72, 439-59	1.8	338
26	Three-dimensional structure of diferric bovine lactoferrin at 2.8 Å resolution. <i>Journal of Molecular Biology</i> , 1997 , 274, 222-36	6.5	312
25	Heteroaromatic rings of the future. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 2952-63	8.3	240
24	Atomic interactions and profile of small molecules disrupting protein-protein interfaces: the TIMBAL database. <i>Chemical Biology and Drug Design</i> , 2009 , 74, 457-67	2.9	132
23	Experimental and computational mapping of the binding surface of a crystalline protein. <i>Protein Engineering, Design and Selection</i> , 2001 , 14, 47-59	1.9	88
22	Locating interaction sites on proteins: The crystal structure of thermolysin soaked in 2% to 100% isopropanol 1999 , 37, 628-640		79
21	The good, the bad and the twisted: a survey of ligand geometry in protein crystal structures. <i>Journal of Computer-Aided Molecular Design</i> , 2012 , 26, 169-83	4.2	78
20	Evaluation of molecular crystal structures using Full Interaction Maps. <i>CrystEngComm</i> , 2013 , 15, 65-72	3.3	76
19	The hydrogen bond environments of 1H-tetrazole and tetrazolate rings: the structural basis for tetrazole-carboxylic acid bioisosterism. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 857-66	6.1	54
18	Identification, classification and relative stability of tautomers in the cambridge structural database. <i>CrystEngComm</i> , 2011 , 13, 93-98	3.3	50
17	IRAK-4 inhibitors. Part II: a structure-based assessment of imidazo[1,2-a]pyridine binding. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 3291-5	2.9	41
16	One in half a million: a solid form informatics study of a pharmaceutical crystal structure. <i>CrystEngComm</i> , 2012 , 14, 2391-2403	3.3	39

15	A crystallographic perspective on sharing data and knowledge. <i>Journal of Computer-Aided Molecular Design</i> , 2014 , 28, 1015-22	4.2	24
14	Die Cambridge Structural Database: Rückblick und Vorausschau. <i>Angewandte Chemie</i> , 2014 , 126, 675-684	3.6	19
13	The Cambridge Structural Database: experimental three-dimensional information on small molecules is a vital resource for interdisciplinary research and learning. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011 , 1, 368-376	7.9	19
12	The use of small-molecule structures to complement protein-ligand crystal structures in drug discovery. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017 , 73, 240-245	5.5	18
11	Hydrogen bonding at C=Se acceptors in selenoureas, selenoamides and selones. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016 , 72, 317-25	1.8	16
10	Generation of crystal structures using known crystal structures as analogues. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016 , 72, 530-41	1.8	14
9	Protein kinase drugs--optimism doesn't wait on facts. <i>Drug Discovery Today</i> , 2002 , 7, 801-2	8.8	14
8	Knowledge-Based Optimization of Molecular Geometries Using Crystal Structures. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 652-61	6.1	11
7	Data to knowledge: how to get meaning from your result. <i>IUCrJ</i> , 2015 , 2, 45-58	4.7	10
6	Capturing neon - the first experimental structure of neon trapped within a metal-organic environment. <i>Chemical Communications</i> , 2016 , 52, 10048-51	5.8	8
5	Up the Garden Path: A Chemical Trail through the Cambridge University Botanic Garden. <i>Journal of Chemical Education</i> , 2012 , 89, 1390-1394	2.4	7
4	Mining the Cambridge Structural Database for Bioisosteres 2012 , 75-101		5
3	Using more than 801 296 small-molecule crystal structures to aid in protein structure refinement and analysis. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017 , 73, 234-239	5.5	4
2	Small Molecule Crystal Structures in Drug Discovery. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2015 , 107-114	0.1	2
1	The Cambridge Structural Database (CSD) 2019 ,		2