

# Jason C Cole

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

10,260  
citations

201674

27  
h-index

110387

64  
g-index

66  
all docs

66  
docs citations

66  
times ranked

11876  
citing authors

#	ARTICLE	IF	CITATIONS
1	New software for searching the Cambridge Structural Database and visualizing crystal structures. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 389-397.	1.8	2,791
2	Improved protein-ligand docking using GOLD. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 52, 609-623.	2.6	2,417
3	Retrieval of Crystallographically-Derived Molecular Geometry Information. <i>Journal of Chemical Information and Computer Sciences</i> , 2004, 44, 2133-2144.	2.8	842
4	DASH: a program for crystal structure determination from powder diffraction data. <i>Journal of Applied Crystallography</i> , 2006, 39, 910-915.	4.5	495
5	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, 439-459.	1.1	445
6	A new test set for validating predictions of protein-ligand interaction. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 49, 457-471.	2.6	416
7	Modeling Water Molecules in Protein-Ligand Docking Using GOLD. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 6504-6515.	6.4	354
8	IsoStar: a library of information about nonbonded interactions. <i>Journal of Computer-Aided Molecular Design</i> , 1997, 11, 525-537.	2.9	289
9	Comparing protein-ligand docking programs is difficult. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 60, 325-332.	2.6	275
10	SuperStar: A Knowledge-based Approach for Identifying Interaction Sites in Proteins. <i>Journal of Molecular Biology</i> , 1999, 289, 1093-1108.	4.2	207
11	Use of molecular docking computational tools in drug discovery. <i>Progress in Medicinal Chemistry</i> , 2021, 60, 273-343.	10.4	154
12	Potential and Limitations of Ensemble Docking. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 1262-1274.	5.4	149
13	Pose prediction and virtual screening performance of GOLD scoring functions in a standardized test. <i>Journal of Computer-Aided Molecular Design</i> , 2012, 26, 737-748.	2.9	138
14	WebCSD: the online portal to the Cambridge Structural Database. <i>Journal of Applied Crystallography</i> , 2010, 43, 362-366.	4.5	125
15	Evaluation of molecular crystal structures using Full Interaction Maps. <i>CrystEngComm</i> , 2013, 15, 65-72.	2.6	109
16	Superstar: improved knowledge-based interaction fields for protein binding sites <sup>11</sup> Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2001, 307, 841-859.	4.2	101
17	A database survey of molecular and crystallographic symmetry. <i>Acta Crystallographica Section B: Structural Science</i> , 2003, 59, 634-640.	1.8	65
18	Protein-Ligand Docking Virtual Screening with GOLD. <i>Drug Discovery Series</i> , 2005, , 379-415.	0.1	52

#	ARTICLE	IF	CITATIONS
19	Structure solution and refinement of tetracaine hydrochloride from X-ray powder diffraction data. <i>New Journal of Chemistry</i> , 2002, 26, 469-472.	2.8	47
20	Knowledge-Based Conformer Generation Using the Cambridge Structural Database. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 615-629.	5.4	47
21	Molecular Interactions in Crystal Structures with $\pi$ - $\pi$ Stacking. <i>Crystal Growth and Design</i> , 2016, 16, 2988-3001.	3.0	43
22	How Significant Are Unusual Protein-Ligand Interactions? Insights from Database Mining. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 10441-10455.	6.4	42
23	CSDSymmetry: the definitive database of point-group and space-group symmetry relationships in small-molecule crystal structures. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 640-646.	1.8	41
24	Superstar: comparison of CSD and PDB-based interaction fields as a basis for the prediction of protein-ligand interactions. Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2001, 312, 275-287.	4.2	40
25	Validating and Understanding Ring Conformations Using Small Molecule Crystallographic Data. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 956-962.	5.4	40
26	Knowledge-Based Libraries for Predicting the Geometric Preferences of Druglike Molecules. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 2500-2514.	5.4	34
27	Testing Assumptions and Hypotheses for Rescoring Success in Protein-Ligand Docking. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 1871-1878.	5.4	31
28	Interactive and Versatile Navigation of Structural Databases. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 4257-4266.	6.4	26
29	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.	2.3	25
30	New active leads for tuberculosis booster drugs by structure-based drug discovery. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 10245-10255.	2.8	22
31	Improved performance of crystal structure solution from powder diffraction data through parameter tuning of a simulated annealing algorithm. <i>Journal of Applied Crystallography</i> , 2017, 50, 1411-1420.	4.5	20
32	Generation of crystal structures using known crystal structures as analogues. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016, 72, 530-541.	1.1	18
33	Resolving alternative organic crystal structures using density functional theory and NMR chemical shifts. <i>Chemical Science</i> , 2020, 11, 2987-2992.	7.4	18
34	Intermolecular Interactions of Organic Fluorine Seen in Perspective. <i>Crystal Growth and Design</i> , 2022, 22, 1352-1364.	3.0	17
35	The use of restraints in Rietveld refinement of molecular compounds; a case study using the crystal structure determination of tryptamine free base. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 835-840.	1.8	16
36	New insights and innovation from a million crystal structures in the Cambridge Structural Database. <i>Structural Dynamics</i> , 2019, 6, 054301.	2.3	16

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37	Automatic detection of molecular symmetry in the Cambridge Structural Database. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 88-94.	1.8	15
38	Development and validation of an improved algorithm for overlaying flexible molecules. <i>Journal of Computer-Aided Molecular Design</i> , 2012, 26, 451-472.	2.9	15
39	Mining the Cambridge Structural Database for Matched Molecular Crystal Structures: A Systematic Exploration of Isostructurality. <i>Crystal Growth and Design</i> , 2017, 17, 3192-3203.	3.0	15
40	Hotspots API: A Python Package for the Detection of Small Molecule Binding Hotspots and Application to Structure-Based Drug Design. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1911-1916.	5.4	15
41	Secbase: Database Module To Retrieve Secondary Structure Elements with Ligand Binding Motifs. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 2388-2402.	5.4	14
42	Quantifying the symmetry preferences of intermolecular interactions in organic crystal structures. <i>CrystEngComm</i> , 2015, 17, 2651-2666.	2.6	14
43	Improved crystal structure solution from powder diffraction data by the use of conformational information. <i>Journal of Applied Crystallography</i> , 2017, 50, 1421-1427.	4.5	14
44	<i>MDASH</i> : a multi-core-enabled program for structure solution from powder diffraction data. <i>Journal of Applied Crystallography</i> , 2009, 42, 360-361.	4.5	12
45	Kernel Density Estimation Applied to Bond Length, Bond Angle, and Torsion Angle Distributions. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1284-1288.	5.4	12
46	Knowledge-Based Optimization of Molecular Geometries Using Crystal Structures. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 652-661.	5.4	12
47	Assessment of a Cambridge Structural Database-Driven Overlay Program. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 3091-3098.	5.4	11
48	Identification of Noncompetitive Protein-Ligand Interactions for Structural Optimization. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 6595-6611.	5.4	10
49	Directional Preferences of Intermolecular Contacts to Hydrophobic Groups. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 1183-1193.	2.5	9
50	GDASH: a grid-enabled program for structure solution from powder diffraction data. <i>Journal of Applied Crystallography</i> , 2009, 42, 356-359.	4.5	9
51	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
52	Fragment Hotspot Mapping to Identify Selectivity-Determining Regions between Related Proteins. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 284-294.	5.4	9
53	An automated method for consistent helix assignment using turn information. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1416-1426.	2.6	7
54	Utilizing organic and organometallic structural data in powder diffraction. <i>Powder Diffraction</i> , 2014, 29, S19-S30.	0.2	7

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55	The Ensemble Performance Index: An Improved Measure for Assessing Ensemble Pose Prediction Performance. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 2915-2919.	5.4	6
56	The impact of the Cambridge Structural Database and the small molecule crystal structures it contains: a bibliographic and literature study. <i>CrystEngComm</i> , 2020, 22, 7233-7241.	2.6	6
57	Prior Likelihoods and Space-Group Preferences of Solvates. <i>Crystal Growth and Design</i> , 2021, 21, 1178-1189.	3.0	6
58	Using more than 801â€¦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.	2.3	6
59	First global analysis of the GSK database of small molecule crystal structures. <i>CrystEngComm</i> , 2021, 23, 5430-5442.	2.6	4
60	Augmenting Structureâ€¢Based Design with Experimental Proteinâ€¢Ligand Interaction Data: Molecular Recognition, Interactive Visualization, and Rescoring. <i>ChemMedChem</i> , 2021, 16, 3428-3438.	3.2	4
61	Validation of a Field-Based Ligand Screener Using a Novel Benchmarking Data Set for Assessing 3D-Based Virtual Screening Methods. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 5841-5852.	5.4	1
62	The Development and Application of Knowledge-Based Approaches to Molecular Design. , 1999, , 243-260.		0