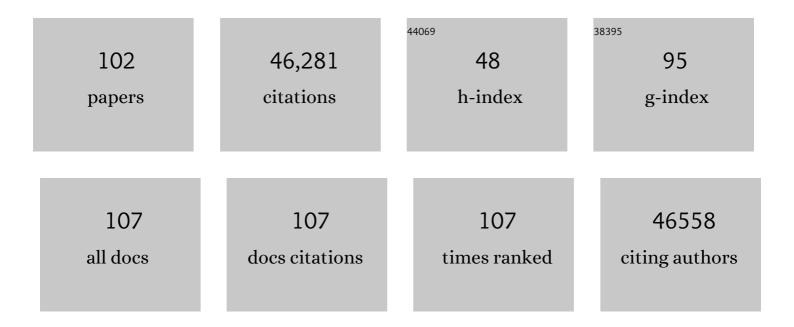
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	<scp>PDBsum</scp> extras: <scp>SARS oV</scp> â€2 and <scp>AlphaFold</scp> models. Protein Science, 2022, 31, 283-289.	7.6	42
2	Impact of Structural Observables From Simulations to Predict the Effect of Single-Point Mutations in MHC Class II Peptide Binders. Frontiers in Molecular Biosciences, 2021, 8, 636562.	3.5	3
3	A computational and structural analysis of germline and somatic variants affecting the DDR mechanism, and their impact on human diseases. Scientific Reports, 2021, 11, 14268.	3.3	4
4	AlphaFold heralds a data-driven revolution in biology and medicine. Nature Medicine, 2021, 27, 1666-1669.	30.7	108
5	VarSite: Disease variants and protein structure. Protein Science, 2020, 29, 111-119.	7.6	77
6	MGOS: A library for molecular geometry and its operating system. Computer Physics Communications, 2020, 251, 107101.	7.5	2
7	An automated protocol for modelling peptide substrates to proteases. BMC Bioinformatics, 2020, 21, 586.	2.6	7
8	VarMap: a web tool for mapping genomic coordinates to protein sequence and structure and retrieving protein structural annotations. Bioinformatics, 2019, 35, 4854-4856.	4.1	46
9	PDBsum: Structural summaries of PDB entries. Protein Science, 2018, 27, 129-134.	7.6	910
10	Structural analysis of pathogenic mutations in the <i>DYRK1A</i> gene in patients with developmental disorders. Human Molecular Genetics, 2017, 26, ddw409.	2.9	33
11	Integrated Servers for Structure-Informed Function Prediction. , 2017, , 427-448.		0
12	The ProFunc Function Prediction Server. Methods in Molecular Biology, 2017, 1611, 75-95.	0.9	22
13	Protein structure and phenotypic analysis of pathogenic and population missense variants in <i>STXBP1</i> . Molecular Genetics & amp; Genomic Medicine, 2017, 5, 495-507.	1.2	29
14	Rising levels of atmospheric oxygen and evolution of Nrf2. Scientific Reports, 2016, 6, 27740.	3.3	52
15	BetaSCPWeb: side-chain prediction for protein structures using Voronoi diagrams and geometry prioritization. Nucleic Acids Research, 2016, 44, W416-W423.	14.5	31
16	Protein Structure Databases. Methods in Molecular Biology, 2016, 1415, 31-53.	0.9	3
17	Chopping and Changing: the Evolution of the Flavin-dependent Monooxygenases. Journal of Molecular Biology, 2016, 428, 3131-3146.	4.2	75
18	Integrating population variation and protein structural analysis to improve clinical interpretation of missense variation: application to the WD40 domain. Human Molecular Genetics, 2016, 25, 927-935.	2.9	26

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19	Sequence-Specific Recognition of DNA by Proteins: Binding Motifs Discovered Using a Novel Statistical/Computational Analysis. PLoS ONE, 2016, 11, e0158704.	2.5	10
20	CATH: comprehensive structural and functional annotations for genome sequences. Nucleic Acids Research, 2015, 43, D376-D381.	14.5	399
21	BetaCavityWeb: a webserver for molecular voids and channels. Nucleic Acids Research, 2015, 43, W413-W418.	14.5	43
22	Representative Amino Acid Side-Chain Interactions in Protein–DNA Complexes: A Comparison of Highly Accurate Correlated <i>Ab Initio</i> Quantum Mechanical Calculations and Efficient Approaches for Applications to Large Systems. Journal of Chemical Theory and Computation, 2015, 11, 4086-4092.	5.3	22
23	Large-Scale Quantitative Assessment of Binding Preferences in Protein–Nucleic Acid Complexes. Journal of Chemical Theory and Computation, 2015, 11, 1939-1948.	5.3	12
24	Proteins: interaction at a distance. IUCrJ, 2015, 2, 609-610.	2.2	2
25	BetaVoid: Molecular voids via beta-complexes and Voronoi diagrams. Proteins: Structure, Function and Bioinformatics, 2014, 82, 1829-1849.	2.6	16
26	Anatomy of enzyme channels. BMC Bioinformatics, 2014, 15, 379.	2.6	89
27	PDBsum additions. Nucleic Acids Research, 2014, 42, D292-D296.	14.5	279
28	Abstracting knowledge from the protein data bank. Biopolymers, 2013, 99, 183-188.	2.4	6
29	THE RAMACHANDRAN PLOT AND PROTEIN STRUCTURE VALIDATION. , 2013, , 62-75.		19
30	Amino Acid Changes in Disease-Associated Variants Differ Radically from Variants Observed in the 1000 Genomes Project Dataset. PLoS Computational Biology, 2013, 9, e1003382.	3.2	54
31	LigSearch: a knowledge-based web server to identify likely ligands for a protein target. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2395-2402.	2.5	2
32	Exploring the Evolution of Novel Enzyme Functions within Structurally Defined Protein Superfamilies. PLoS Computational Biology, 2012, 8, e1002403.	3.2	80
33	FunTree: a resource for exploring the functional evolution of structurally defined enzyme superfamilies. Nucleic Acids Research, 2012, 40, D776-D782.	14.5	44
34	LigPlot+: Multiple Ligand–Protein Interaction Diagrams for Drug Discovery. Journal of Chemical Information and Modeling, 2011, 51, 2778-2786.	5.4	4,148
35	Exome sequencing identifies a missense mutation in Isl1 associated with low penetrance otitis media in dearisch mice. Genome Biology, 2011, 12, R90.	9.6	22
36	Protein Structure Databases. Molecular Biotechnology, 2011, 48, 183-198.	2.4	6

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37	1,000 structures and more from the MCSG. BMC Structural Biology, 2011, 11, 2.	2.3	14
38	Structural Annotation of Mycobacterium tuberculosis Proteome. PLoS ONE, 2011, 6, e27044.	2.5	33
39	On the diversity of physicochemical environments experienced by identical ligands in binding pockets of unrelated proteins. Proteins: Structure, Function and Bioinformatics, 2010, 78, 1120-1136.	2.6	59
40	Visualization of macromolecular structures. Nature Methods, 2010, 7, S42-S55.	19.0	137
41	ArchSchema: a tool for interactive graphing of related Pfam domain architectures. Bioinformatics, 2010, 26, 1260-1261.	4.1	21
42	Energy Matrix of Structurally Important Side-Chain/Side-Chain Interactions in Proteins. Journal of Chemical Theory and Computation, 2010, 6, 2191-2203.	5.3	33
43	Chemical Fragments that Hydrogen Bond to Asp, Glu, Arg, and His Side Chains in Protein Binding Sites. Journal of Medicinal Chemistry, 2010, 53, 3086-3094.	6.4	33
44	Protein Structure Databases. Methods in Molecular Biology, 2010, 609, 59-82.	0.9	1
45	PDBsum new things. Nucleic Acids Research, 2009, 37, D355-D359.	14.5	526
46	WSsas: a web service for the annotation of functional residues through structural homologues. Bioinformatics, 2009, 25, 1192-1194.	4.1	17
47	Predicting Protein Ligand Binding Sites by Combining Evolutionary Sequence Conservation and 3D Structure. PLoS Computational Biology, 2009, 5, e1000585.	3.2	356
48	The structural basis of allosteric regulation in proteins. FEBS Letters, 2009, 583, 1692-1698.	2.8	187
49	A genome-wide meta-analysis identifies 22 loci associated with eight hematological parameters in the HaemGen consortium. Nature Genetics, 2009, 41, 1182-1190.	21.4	481
50	Representative Amino Acid Side Chain Interactions in Proteins. A Comparison of Highly Accurate Correlated <i>ab Initio</i> Quantum Chemical and Empirical Potential Procedures. Journal of Chemical Theory and Computation, 2009, 5, 982-992.	5.3	89
51	The fine details of evolution. Biochemical Society Transactions, 2009, 37, 723-726.	3.4	3
52	Integrated Servers for Structure-Informed Function Prediction. , 2009, , 251-272.		0
53	Understanding the molecular machinery of genetics through 3D structures. Nature Reviews Genetics, 2008, 9, 141-151.	16.3	69
54	Enhancing the functional annotation of PDB structures in PDBsum using key figures extracted from the literature. Bioinformatics, 2007, 23, 1824-1827.	4.1	64

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55	The implications of alternative splicing in the ENCODE protein complement. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5495-5500.	7.1	206
56	Towards Fully Automated Structure-based Function Prediction in Structural Genomics: A Case Study. Journal of Molecular Biology, 2007, 367, 1511-1522.	4.2	79
57	Shape Variation in Protein Binding Pockets and their Ligands. Journal of Molecular Biology, 2007, 368, 283-301.	4.2	188
58	Structural bioinformatics: from protein structure to function. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2007, , 165-179.	0.1	0
59	Variation of geometrical and physicochemical properties in protein binding pockets and their ligands. BMC Bioinformatics, 2007, 8, .	2.6	4
60	SPINE bioinformatics and data-management aspects of high-throughput structural biology. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1184-1195.	2.5	19
61	Structure of SAICAR synthase fromThermotoga maritimaat 2.2â€Ã reveals an unusual covalent dimer. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 335-339.	0.7	16
62	Structural Quality Assurance. Methods of Biochemical Analysis, 2005, , 273-303.	0.2	23
63	Determining Function from Structure. , 2005, , 163-184.		Ο
64	Predicting protein function from sequence and structural data. Current Opinion in Structural Biology, 2005, 15, 275-284.	5.7	280
65	A method for localizing ligand binding pockets in protein structures. Proteins: Structure, Function and Bioinformatics, 2005, 62, 479-488.	2.6	181
66	Protein Function Prediction Using Local 3D Templates. Journal of Molecular Biology, 2005, 351, 614-626.	4.2	195
67	ProFunc: a server for predicting protein function from 3D structure. Nucleic Acids Research, 2005, 33, W89-W93.	14.5	576
68	PDBsum more: new summaries and analyses of the known 3D structures of proteins and nucleic acids. Nucleic Acids Research, 2004, 33, D266-D268.	14.5	373
69	From protein structure to biochemical function?. Journal of Structural and Functional Genomics, 2003, 4, 167-177.	1.2	72
70	Target Selection and Determination of Function in Structural Genomics. IUBMB Life, 2003, 55, 249-255.	3.4	22
71	Molecular basis of inherited diseases: a structural perspective. Trends in Genetics, 2003, 19, 505-513.	6.7	92
72	Estimation of weights and validation: a marginal likelihood approach. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1557-1566.	2.5	1

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73	Conserved protein YecM fromEscherichia coli shows structural homology to metal-binding isomerases and oxygenases. Proteins: Structure, Function and Bioinformatics, 2003, 51, 311-314.	2.6	4
74	X-ray crystal structure of CutA from Thermotoga maritima at 1.4 Ã resolution. Proteins: Structure, Function and Bioinformatics, 2003, 54, 162-165.	2.6	14
75	Crystal Structure of Enterococcus faecalis SlyA-like Transcriptional Factor. Journal of Biological Chemistry, 2003, 278, 20240-20244.	3.4	65
76	Integrating Structure, Bioinformatics, and Enzymology to Discover Function. Journal of Biological Chemistry, 2003, 278, 26039-26045.	3.4	115
77	Structural quality assurance. Methods of Biochemical Analysis, 2003, 44, 273-303.	0.2	21
78	Crystal Structure of Thermotoga maritima 0065, a Member of the IclR Transcriptional Factor Family. Journal of Biological Chemistry, 2002, 277, 19183-19190.	3.4	63
79	Bioinformatics and Protein Design. Current Pharmaceutical Biotechnology, 2002, 3, 317-327.	1.6	0
80	Streptococcus pneumoniaYlxR at 1.35â€Ã shows a putative new fold. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1747-1751.	2.5	23
81	Rfreeand theRfreeratio. II. Calculation of the expected values and variances of cross-validation statistics in macromolecular least-squares refinement. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 442-450.	2.5	41
82	BLEEP?potential of mean force describing protein-ligand interactions: I. Generating potential. Journal of Computational Chemistry, 1999, 20, 1165-1176.	3.3	194
83	Dihydrofolate reductase: a potential drug target in trypanosomes and leishmania. Journal of Computer-Aided Molecular Design, 1998, 12, 241-257.	2.9	55
84	Protein folds and functions. Structure, 1998, 6, 875-884.	3.3	207
85	Error Estimates of Protein Structure Coordinates and Deviations from Standard Geometry by Full-Matrix Refinement ofγB- andβB2-Crystallin. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 243-252.	2.5	78
86	Rfreeand theRfreeRatio. I. Derivation of Expected Values of Cross-Validation Residuals Used in Macromolecular Least-Squares Refinement. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 547-557.	2.5	42
87	New Tools and Resources for Analysing Protein Structures and Their Interactions. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 1132-1138.	2.5	19
88	Validation of protein models derived from experiment. Current Opinion in Structural Biology, 1998, 8, 631-639.	5.7	172
89	Who checks the checkers? four validation tools applied to eight atomic resolution structures 1 1Edited by I. A. Wilson. Journal of Molecular Biology, 1998, 276, 417-436.	4.2	114
90	NUCPLOT: a program to generate schematic diagrams of protein-nucleic acid interactions. Nucleic Acids Research, 1997, 25, 4940-4945.	14.5	203

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91	PDBsum: a web-based database of summaries and analyses of all PDB structures. Trends in Biochemical Sciences, 1997, 22, 488-490.	7.5	536
92	Non-randomness in side-chain packing: the distribution of interplanar angles. , 1997, 29, 370-380.		37
93	X-SITE: Use of Empirically Derived Atomic Packing Preferences to Identify Favourable Interaction Regions in the Binding Sites of Proteins. Journal of Molecular Biology, 1996, 259, 175-201.	4.2	89
94	Conformational analysis of pentapeptide sequences matching a proposed recognition motif for lysosomal degradation. BBA - Proteins and Proteomics, 1996, 1293, 243-253.	2.1	3
95	AQUA and PROCHECK-NMR: Programs for checking the quality of protein structures solved by NMR. Journal of Biomolecular NMR, 1996, 8, 477-86.	2.8	4,736
96	Derivation of 3D coordinate templates for searching structural databases: Application to serâ€Hisâ€Asp catalytic triads in the serine proteinases and lipases. Protein Science, 1996, 5, 1001-1013.	7.6	229
97	SURFNET: A program for visualizing molecular surfaces, cavities, and intermolecular interactions. Journal of Molecular Graphics, 1995, 13, 323-330.	1.1	870
98	LIGPLOT: a program to generate schematic diagrams of protein-ligand interactions. Protein Engineering, Design and Selection, 1995, 8, 127-134.	2.1	4,648
99	Knowledge-based validation of protein structure coordinates derived by X-ray crystallography and NMR spectroscopy. Current Opinion in Structural Biology, 1994, 4, 731-737.	5.7	100
100	PROCHECK: a program to check the stereochemical quality of protein structures. Journal of Applied Crystallography, 1993, 26, 283-291.	4.5	21,188
101	Main-chain Bond Lengths and Bond Angles in Protein Structures. Journal of Molecular Biology, 1993, 231, 1049-1067.	4.2	1,142
102	Use of parallel processing in the study of protein. Ligand binding. Journal of Computational Chemistry, 1990, 11, 314-325.	3.3	6