

# Randy J Read

## 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.

197 papers	77,880 citations	67 h-index	233 g-index
233 ext. papers	89,271 ext. citations	8.7 avg, IF	7.49 L-index

#	Paper	IF	Citations
197	PHENIX: a comprehensive Python-based system for macromolecular structure solution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2010</b> , 66, 213-21		16067
196	Phaser crystallographic software. <i>Journal of Applied Crystallography</i> , <b>2007</b> , 40, 658-674	3.8	14212
195	Crystallography & NMR system: A new software suite for macromolecular structure determination. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>1998</b> , 54, 905-21		14106
194	Overview of the CCP4 suite and current developments. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2011</b> , 67, 235-42		8847
193	PHENIX: building new software for automated crystallographic structure determination. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2002</b> , 58, 1948-54		3477
192	Macromolecular structure determination using X-rays, neutrons and electrons: recent developments in Phenix. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2019</b> , 75, 861-877	5.5	1527
191	Likelihood-enhanced fast translation functions. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2005</b> , 61, 458-64		1503
190	Iterative model building, structure refinement and density modification with the PHENIX AutoBuild wizard. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2008</b> , 64, 61-9		1042
189	Likelihood-enhanced fast rotation functions. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 432-8		1017
188	Real-space refinement in PHENIX for cryo-EM and crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 531-544	5.5	917
187	Structure of a serpin-protease complex shows inhibition by deformation. <i>Nature</i> , <b>2000</b> , 407, 923-6	50.4	916
186	Shiga-like toxins are neutralized by tailored multivalent carbohydrate ligands. <i>Nature</i> , <b>2000</b> , 403, 669-72	50.4	772
185	Pushing the boundaries of molecular replacement with maximum likelihood. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2001</b> , 57, 1373-82		665
184	Decision-making in structure solution using Bayesian estimates of map quality: the PHENIX AutoSol wizard. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2009</b> , 65, 582-601		657
183	The Phenix software for automated determination of macromolecular structures. <i>Methods</i> , <b>2011</b> , 55, 94-106	4.6	580
182	Cross-validated maximum likelihood enhances crystallographic simulated annealing refinement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 5018-23	11.5	561
181	Accurate prediction of protein structures and interactions using a three-track neural network. <i>Science</i> , <b>2021</b> , 373, 871-876	33.3	522

180	Automated structure solution with the PHENIX suite. <i>Methods in Molecular Biology</i> , <b>2008</b> , 426, 419-35	1.4	421
179	Structure of the shiga-like toxin I B-pentamer complexed with an analogue of its receptor Gb3. <i>Biochemistry</i> , <b>1998</b> , 37, 1777-88	3.2	377
178	A new generation of crystallographic validation tools for the protein data bank. <i>Structure</i> , <b>2011</b> , 19, 1395-412	5.4	335
177	The crystal structure of pertussis toxin. <i>Structure</i> , <b>1994</b> , 2, 45-57	5.2	297
176	Crystal structure of the cell-binding B oligomer of verotoxin-1 from E. coli. <i>Nature</i> , <b>1992</b> , 355, 748-50	50.4	280
175	Accumulating evidence suggests that several AB-toxins subvert the endoplasmic reticulum-associated protein degradation pathway to enter target cells. <i>Biochemistry</i> , <b>1997</b> , 36, 11051-4	3.2	278
174	Recent developments in the PHENIX software for automated crystallographic structure determination. <i>Journal of Synchrotron Radiation</i> , <b>2004</b> , 11, 53-5	2.4	273
173	High-resolution structure prediction and the crystallographic phase problem. <i>Nature</i> , <b>2007</b> , 450, 259-64	50.4	262
172	Crystal and molecular structures of the complex of alpha-chymotrypsin with its inhibitor turkey ovomucoid third domain at 1.8 A resolution. <i>Journal of Molecular Biology</i> , <b>1987</b> , 195, 397-418	6.5	235
171	Exome sequencing identifies NBEAL2 as the causative gene for gray platelet syndrome. <i>Nature Genetics</i> , <b>2011</b> , 43, 735-7	36.3	224
170	Structure of the complex of Streptomyces griseus protease B and the third domain of the turkey ovomucoid inhibitor at 1.8-A resolution. <i>Biochemistry</i> , <b>1983</b> , 22, 4420-33	3.2	210
169	Improved molecular replacement by density- and energy-guided protein structure optimization. <i>Nature</i> , <b>2011</b> , 473, 540-3	50.4	196
168	Transcriptional diversity during lineage commitment of human blood progenitors. <i>Science</i> , <b>2014</b> , 345, 1251033	33.3	187
167	How vitronectin binds PAI-1 to modulate fibrinolysis and cell migration. <i>Nature Structural and Molecular Biology</i> , <b>2003</b> , 10, 541-4	17.6	187
166	A multiple-start Monte Carlo docking method. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1992</b> , 13, 206-22	4.2	187
165	Structural biology. Crystal structure of the CRISPR RNA-guided surveillance complex from Escherichia coli. <i>Science</i> , <b>2014</b> , 345, 1473-9	33.3	182
164	A redox switch in angiotensinogen modulates angiotensin release. <i>Nature</i> , <b>2010</b> , 468, 108-11	50.4	171
163	Improvement of molecular-replacement models with Sculptor. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2011</b> , 67, 303-12		167

162	Inactive conformation of the serpin alpha(1)-antichymotrypsin indicates two-stage insertion of the reactive loop: implications for inhibitory function and conformational disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 67-72	11.5	166
161	Incorporation of prior phase information strengthens maximum-likelihood structure refinement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>1998</b> , 54, 1285-94		158
160	Phaser.MRage: automated molecular replacement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2013</b> , 69, 2276-86		144
159	Not your average density. <i>Structure</i> , <b>1997</b> , 5, 1557-69	5.2	142
158	Mutations in FRMD7, a newly identified member of the FERM family, cause X-linked idiopathic congenital nystagmus. <i>Nature Genetics</i> , <b>2006</b> , 38, 1242-4	36.3	137
157	The active conformation of plasminogen activator inhibitor 1, a target for drugs to control fibrinolysis and cell adhesion. <i>Structure</i> , <b>1999</b> , 7, 111-8	5.2	136
156	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. <i>Structure</i> , <b>2015</b> , 23, 1156-67	5.2	131
155	Iterative-build OMIT maps: map improvement by iterative model building and refinement without model bias. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2008</b> , 64, 515-24		130
154	Experiences with a new translation-function program. <i>Journal of Applied Crystallography</i> , <b>1987</b> , 20, 517-528	3.8	125
153	Structural basis for benzothiazinone-mediated killing of Mycobacterium tuberculosis. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 150ra121	17.5	123
152	Improvement of cryo-EM maps by density modification. <i>Nature Methods</i> , <b>2020</b> , 17, 923-927	21.6	123
151	Crystal structure of Pseudomonas aeruginosa PAK pilin suggests a main-chain-dominated mode of receptor binding. <i>Journal of Molecular Biology</i> , <b>2000</b> , 299, 1005-17	6.5	120
150	phenix.mr_rosetta: molecular replacement and model rebuilding with Phenix and Rosetta. <i>Journal of Structural and Functional Genomics</i> , <b>2012</b> , 13, 81-90		109
149	Refined crystal structure of Streptomyces griseus trypsin at 1.7 Å resolution. <i>Journal of Molecular Biology</i> , <b>1988</b> , 200, 523-51	6.5	109
148	A 2.6 Å structure of a serpin polymer and implications for conformational disease. <i>Journal of Molecular Biology</i> , <b>1999</b> , 293, 449-55	6.5	108
147	A phased translation function. <i>Journal of Applied Crystallography</i> , <b>1988</b> , 21, 490-495	3.8	103
146	Refined structure of porcine pepsinogen at 1.8 Å resolution. <i>Journal of Molecular Biology</i> , <b>1991</b> , 219, 671-92	6.5	96
145	Graphical tools for macromolecular crystallography in PHENIX. <i>Journal of Applied Crystallography</i> , <b>2012</b> , 45, 581-586	3.8	95

144	Automated server predictions in CASP7. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 69 Suppl 8, 68-82	4.2	95
143	Structural mechanism for the carriage and release of thyroxine in the blood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 13321-6	11.5	94
142	Structure of a pertussis toxin-sugar complex as a model for receptor binding. <i>Nature Structural and Molecular Biology</i> , <b>1994</b> , 1, 591-6	17.6	94
141	Critical evaluation of comparative model building of <i>Streptomyces griseus</i> trypsin. <i>Biochemistry</i> , <b>1984</b> , 23, 6570-5	3.2	94
140	Using SAD data in Phaser. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2011</b> , 67, 338-44		90
139	Simple algorithm for a maximum-likelihood SAD function. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 1220-8		90
138	Assessment of CASP7 predictions in the high accuracy template-based modeling category. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 69 Suppl 8, 27-37	4.2	86
137	X-ray structure of lipoamide dehydrogenase from <i>Azotobacter vinelandii</i> determined by a combination of molecular and isomorphous replacement techniques. <i>Journal of Molecular Biology</i> , <b>1989</b> , 206, 365-79	6.5	86
136	Structure of glycosomal glyceraldehyde-3-phosphate dehydrogenase from <i>Trypanosoma brucei</i> determined from Laue data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1993</b> , 90, 2355-9	11.5	82
135	Methylation-state-specific recognition of histones by the MBT repeat protein L3MBTL2. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, 2204-10	20.1	77
134	Solution structure of the Kaposi's sarcoma-associated herpesvirus K3 N-terminal domain reveals a Novel E2-binding C4HC3-type RING domain. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 53840-7	5.4	77
133	Advances, interactions, and future developments in the CNS, Phenix, and Rosetta structural biology software systems. <i>Annual Review of Biophysics</i> , <b>2013</b> , 42, 265-87	21.1	76
132	Crystal structure of rab11 in complex with rab11 family interacting protein 2. <i>Structure</i> , <b>2006</b> , 14, 1273-83	3.2	72
131	Immunoprophylactic potential of cloned Shiga toxin 2 B subunit. <i>Journal of Infectious Diseases</i> , <b>2001</b> , 183, 435-43	7	72
130	Crystal structure of double helical hexitol nucleic acids. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 928-33	16.4	67
129	Refined crystal structure of the molecular complex of <i>Streptomyces griseus</i> protease B, a serine protease, with the third domain of the ovomucoid inhibitor from turkey. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1982</b> , 79, 4868-72	11.5	67
128	Molecular pathology of X linked retinoschisis: mutations interfere with retinoschisin secretion and oligomerisation. <i>British Journal of Ophthalmology</i> , <b>2006</b> , 90, 81-6	5.5	64
127	Insights into Krabbe disease from structures of galactocerebrosidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 15169-73	11.5	63

126	The identification of three biologically relevant globotriaosyl ceramide receptor binding sites on the Verotoxin 1 B subunit. <i>Molecular Microbiology</i> , <b>1999</b> , 32, 953-60	4.1	58
125	The S-to-R transition of corticosteroid-binding globulin and the mechanism of hormone release. <i>Journal of Molecular Biology</i> , <b>2008</b> , 380, 244-51	6.5	57
124	Interpretation of ensembles created by multiple iterative rebuilding of macromolecular models. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2007</b> , 63, 597-610		56
123	Crystal structure of the pertussis toxin-ATP complex: a molecular sensor. <i>Journal of Molecular Biology</i> , <b>1996</b> , 258, 661-71	6.5	56
122	[Model phases: probabilities and bias. <i>Methods in Enzymology</i> , <b>1997</b> , 277, 110-28	1.7	54
121	Comparison of the B-pentamers of heat-labile enterotoxin and verotoxin-1: two structures with remarkable similarity and dissimilarity. <i>Biochemistry</i> , <b>1993</b> , 32, 191-8	3.2	52
120	How changes in affinity of corticosteroid-binding globulin modulate free cortisol concentration. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2013</b> , 98, 3315-22	5.6	51
119	Structural insights into the redox-switch mechanism of the MarR/DUF24-type regulator HypR. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 4178-92	20.1	49
118	The application of multivariate statistical techniques improves single-wavelength anomalous diffraction phasing. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 22-7		48
117	A log-likelihood-gain intensity target for crystallographic phasing that accounts for experimental error. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2016</b> , 72, 375-87	5.5	48
116	Aerolysin and pertussis toxin share a common receptor-binding domain. <i>EMBO Journal</i> , <b>1997</b> , 16, 3426-34		47
115	G-actin provides substrate-specificity to eukaryotic initiation factor 2 holo-phosphatases. <i>ELife</i> , <b>2015</b> , 4,	8.9	47
114	Atomic solvation parameters in the analysis of protein-protein docking results. <i>Protein Science</i> , <b>1995</b> , 4, 2087-99	6.3	44
113	AMPylation targets the rate-limiting step of BiP's ATPase cycle for its functional inactivation. <i>ELife</i> , <b>2017</b> , 6,	8.9	43
112	Insights into Hunter syndrome from the structure of iduronate-2-sulfatase. <i>Nature Communications</i> , <b>2017</b> , 8, 15786	17.4	42
111	Allosteric modulation of hormone release from thyroxine and corticosteroid-binding globulins. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 16163-73	5.4	39
110	Evaluation of template-based modeling in CASP13. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 1113-1127	4.2	38
109	Azasugar inhibitors as pharmacological chaperones for Krabbe disease. <i>Chemical Science</i> , <b>2015</b> , 6, 3075-3086	3.4	36

108	Different structural requirements for plasminogen activator inhibitor 1 (PAI-1) during latency transition and proteinase inhibition as evidenced by phage-displayed hypermutated PAI-1 libraries. <i>Journal of Molecular Biology</i> , <b>2001</b> , 305, 773-83	6.5	36
107	Experimental phasing: best practice and pitfalls. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2010</b> , 66, 458-69		35
106	Application of the complex multivariate normal distribution to crystallographic methods with insights into multiple isomorphous replacement phasing. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2003</b> , 59, 1801-8		35
105	A mosquitocidal toxin with a ricin-like cell-binding domain. <i>Nature Structural and Molecular Biology</i> , <b>1995</b> , 2, 358-9	17.6	35
104	Intensity statistics in the presence of translational noncrystallographic symmetry. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2013</b> , 69, 176-83		34
103	Improved crystallographic models through iterated local density-guided model deformation and reciprocal-space refinement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2012</b> , 68, 861-70		33
102	Improved estimates of coordinate error for molecular replacement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2013</b> , 69, 2209-15		33
101	Crystallography: crystallographic evidence for deviating C3b structure. <i>Nature</i> , <b>2007</b> , 448, E1-2; discussion E2-3	50.4	33
100	Automating crystallographic structure solution and refinement of protein-ligand complexes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 144-54		33
99	Ab initio solution of macromolecular crystal structures without direct methods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3637-3641	11.5	32
98	A mutant Shiga-like toxin IIe bound to its receptor Gb(3): structure of a group II Shiga-like toxin with altered binding specificity. <i>Structure</i> , <b>2000</b> , 8, 253-64	5.2	32
97	Structural snapshots illustrate the catalytic cycle of $\beta$ -galactocerebrosidase, the defective enzyme in Krabbe disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 20479-84	11.5	30
96	DEMON/ANGEL: a suite of programs to carry out density modification. <i>Journal of Applied Crystallography</i> , <b>1995</b> , 28, 347-351	3.8	30
95	Swiveling domain mechanism in pyruvate phosphate dikinase. <i>Biochemistry</i> , <b>2007</b> , 46, 14845-53	3.2	29
94	Macromolecular X-ray structure determination using weak, single-wavelength anomalous data. <i>Nature Methods</i> , <b>2015</b> , 12, 127-30	21.6	27
93	Automated identification of elemental ions in macromolecular crystal structures. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 1104-14		27
92	Extending the limits of molecular replacement through combined simulated annealing and maximum-likelihood refinement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>1999</b> , 55, 181-90		27
91	Evaluation of model refinement in CASP13. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 1249-1262	4.2	25



90	Application of DEN refinement and automated model building to a difficult case of molecular-replacement phasing: the structure of a putative succinyl-diaminopimelate desuccinylase from <i>Corynebacterium glutamicum</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2012</b> , 68, 391-403		24
89	Model morphing and sequence assignment after molecular replacement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2013</b> , 69, 2244-50		24
88	Phenylalanine 30 plays an important role in receptor binding of verotoxin-1. <i>Molecular Microbiology</i> , <b>1996</b> , 19, 891-9	4.1	24
87	Germline mutations in the transcription factor IKZF5 cause thrombocytopenia. <i>Blood</i> , <b>2019</b> , 134, 2070-2081	20.1	23
86	Critical evaluation of the research docking program for the CASP2 challenge. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1997</b> , 29, 205-209	4.2	22
85	On the application of the expected log-likelihood gain to decision making in molecular replacement. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 245-255	5.5	22
84	Structure of Gremlin-2 in Complex with GDF5 Gives Insight into DAN-Family-Mediated BMP Antagonism. <i>Cell Reports</i> , <b>2016</b> , 16, 2077-2086	10.6	22
83	Recent developments in phasing and structure refinement for macromolecular crystallography. <i>Current Opinion in Structural Biology</i> , <b>2009</b> , 19, 566-72	8.1	21
82	Novel pentameric structure of the diarrhea-inducing region of the rotavirus enterotoxigenic protein NSP4. <i>Journal of Virology</i> , <b>2011</b> , 85, 12721-32	6.6	21
81	Molecular Mechanism of $\alpha_1$ -Antitrypsin Deficiency. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 15674-86	5.4	21
80	Likelihood-based molecular-replacement solution for a highly pathological crystal with tetartohedral twinning and sevenfold translational noncrystallographic symmetry. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 471-80		20
79	Detecting outliers in non-redundant diffraction data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>1999</b> , 55, 1759-64		20
78	Crystal and molecular structure of [tris(4,5-diisopropylimidazol-2-yl)phosphine]dichlorozinc(II)-bis[N,N-dimethylformamide]. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 6947-6952	16.4	20
77	Domain definition and target classification for CASP7. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 69 Suppl 8, 10-8	4.2	19
76	Modeling the carbohydrate-binding specificity of pig edema toxin. <i>Biochemistry</i> , <b>1998</b> , 37, 1789-99	3.2	19
75	Exploiting distant homologues for phasing through the generation of compact fragments, local fold refinement and partial solution combination. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 290-304	5.5	19
74	Local error estimates dramatically improve the utility of homology models for solving crystal structures by molecular replacement. <i>Structure</i> , <b>2015</b> , 23, 397-406	5.2	18
73	An oligomeric state-dependent switch in the ER enzyme FICD regulates AMPylation and deAMPylation of BiP. <i>EMBO Journal</i> , <b>2019</b> , 38, e102177	13	18



72	Assessing the utility of CASP14 models for molecular replacement. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 1752-1769	4.2	18
71	How serpins transport hormones and regulate their release. <i>Seminars in Cell and Developmental Biology</i> , <b>2017</b> , 62, 133-141	7.5	17
70	Decoding Corticotropin-Releasing Factor Receptor Type 1 Crystal Structures. <i>Current Molecular Pharmacology</i> , <b>2017</b> , 10, 334-344	3.7	17
69	X-ray structure determination using low-resolution electron microscopy maps for molecular replacement. <i>Nature Protocols</i> , <b>2015</b> , 10, 1275-84	18.8	16
68	Improvement of cryo-EM maps by density modification		16
67	Case-controlled structure validation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2009</b> , 65, 140-7		15
66	As MAD as can be. <i>Structure</i> , <b>1996</b> , 4, 11-4	5.2	15
65	ANS complex of St John's wort PR-10 protein with 28 copies in the asymmetric unit: a fiendish combination of pseudosymmetry with tetartohedral twinning. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2015</b> , 71, 829-43		14
64	Toxins. <i>Current Opinion in Structural Biology</i> , <b>1993</b> , 3, 853-860	8.1	14
63	Gyre and gimble: a maximum-likelihood replacement for Patterson correlation refinement. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 279-289	5.5	13
62	Noncrystallographic symmetry averaging in phase refinement and extension. <i>Methods in Enzymology</i> , <b>1997</b> , 277, 18-53	1.7	12
61	Preliminary crystallographic studies of glycosomal glyceraldehyde phosphate dehydrogenase from <i>Trypanosoma brucei brucei</i> . <i>Journal of Molecular Biology</i> , <b>1987</b> , 194, 573-5	6.5	12
60	Structural basis of GM-CSF and IL-2 sequestration by the viral decoy receptor GIF. <i>Nature Communications</i> , <b>2016</b> , 7, 13228	17.4	11
59	Temperature-responsive release of thyroxine and its environmental adaptation in Australians. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 281, 20132747	4.4	11
58	Density modification of cryo-EM maps. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2020</b> , 76, 912-925	9.25	11
57	Towards engineering hormone-binding globulins as drug delivery agents. <i>PLoS ONE</i> , <b>2014</b> , 9, e113402	3.7	11
56	Implications of AlphaFold2 for crystallographic phasing by molecular replacement.. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2022</b> , 78, 1-13	5.5	11
55	Monte Carlo algorithms for docking to proteins. <i>Supramolecular Chemistry</i> , <b>1995</b> , 6, 135-140	1.8	10

54	Structural basis for the specificity of renin-mediated angiotensinogen cleavage. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 2353-2364	5.4	10
53	Multiple-Start Monte Carlo Docking of Flexible Ligands <b>1994</b> , 71-108		10
52	A critical examination of the recently reported crystal structures of the human SMN protein. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 4717-4725	5.6	9
51	Monte Carlo docking with ubiquitin. <i>Protein Science</i> , <b>1995</b> , 4, 885-99	6.3	9
50	Accurate prediction of protein structures and interactions using a 3-track network		9
49	Crystallization and preliminary X-ray crystallographic analysis of verotoxin-1 B-subunit. <i>Journal of Molecular Biology</i> , <b>1991</b> , 221, 729-31	6.5	8
48	Flawed methods in COVID-19: Attacks the 1-Beta Chain of Hemoglobin and Captures the Porphyrin to Inhibit Human Heme Metabolism		8
47	Real-space refinement in Phenix for cryo-EM and crystallography		8
46	X-ray diffraction reveals the intrinsic difference in the physical properties of membrane and soluble proteins. <i>Scientific Reports</i> , <b>2017</b> , 7, 17013	4.9	7
45	Structure of human saposin A at lysosomal pH. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2015</b> , 71, 895-900	1.1	7
44	A new pentameric structure of rotavirus NSP4 revealed by molecular replacement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2012</b> , 68, 57-61		7
43	Findable Accessible Interoperable Re-usable (FAIR) diffraction data are coming to protein crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2019</b> , 75, 455-457	5.5	7
42	Improving experimental phases for strong reflections prior to density modification. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2013</b> , 69, 2039-49		6
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40	Coping with strong translational noncrystallographic symmetry and extreme anisotropy in molecular replacement with Phaser: human Rab27a. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2019</b> , 75, 342-353	5.5	6
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37	Responses to 'Atomic resolution': a badly abused term in structural biology. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2017</b> , 73, 381-383	5.5	5

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32	Likelihood-based molecular replacement in phaser. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , <b>2007</b> , 91-100		5
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30	Factors influencing estimates of coordinate error for molecular replacement. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2020</b> , 76, 19-27	5.5	4
29	Critical evaluation of the research docking program for the CASP2 challenge. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1997</b> , 29, 205-209	4.2	4
28	Solving serpin crystal structures. <i>Methods in Enzymology</i> , <b>2011</b> , 501, 49-61	1.7	3
27	Flawed methods in COVID-19: Attacks the 1-Beta Chain of Hemoglobin and Captures the Porphyrin to Inhibit Human Heme Metabolism		3
26	Measurement of the total angiotensinogen and its reduced and oxidised forms in human plasma using targeted LC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 427-437	4.4	3
25	Adaptive Cartesian and torsional restraints for interactive model rebuilding. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2021</b> , 77, 438-446	5.5	3
24	Maximum-likelihood determination of anomalous substructures. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 98-105	5.5	3
23	Fragment-based modeling of NAD binding to the catalytic subunits of diphtheria and pertussis toxins <b>1998</b> , 31, 282-298		2
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21	Improving AlphaFold modeling using implicit information from experimental density maps		2
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