

Gerard J Kleywegt

List of Publications by Year in Descending Order

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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.

121
papers

12,059
citations

56
h-index

109
g-index

132
ext. papers

15,549
ext. citations

9.7
avg, IF

6.24
L-index

#	Paper	IF	Citations
121	A paradigm shift in structural biology.. <i>Nature Methods</i> , 2022 , 19, 20-23	21.6	3
120	Glucomannan and beta-glucan degradation by <i>Mytilus edulis</i> Cel45A: Crystal structure and activity comparison with GH45 subfamily A, B and C. <i>Carbohydrate Polymers</i> , 2022 , 277, 118771	10.3	1
119	The BioImage Archive - building a home for life-sciences microscopy data.. <i>Journal of Molecular Biology</i> , 2022 , 167505	6.5	3
118	Validation analysis of EMDB entries.. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022 , 78, 542-552	5.2	0
117	Three-dimensional Structure Databases of Biological Macromolecules.. <i>Methods in Molecular Biology</i> , 2022 , 2449, 43-91	1.4	
116	AlphaFold Protein Structure Database: massively expanding the structural coverage of protein-sequence space with high-accuracy models. <i>Nucleic Acids Research</i> , 2021 ,	20.1	285
115	Data-deposition protocols for correlative soft X-ray tomography and super-resolution structured illumination microscopy applications. <i>STAR Protocols</i> , 2021 , 2, 100253	1.4	3
114	REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. <i>Nature Methods</i> , 2021 , 18, 1418-1422	21.6	16
113	Correlative multimodal imaging: Building a community. <i>Methods in Cell Biology</i> , 2021 , 162, 417-430	1.8	1
112	Image archiving at EMBL-EBI - EMPIAR and the BioImage Archive. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2836-2837	0.5	
111	Highly accurate protein structure prediction for the human proteome. <i>Nature</i> , 2021 , 596, 590-596	50.4	399
110	PDBe: improved findability of macromolecular structure data in the PDB. <i>Nucleic Acids Research</i> , 2020 , 48, D335-D343	20.1	50
109	Protein Data Bank: the single global archive for 3D macromolecular structure data. <i>Nucleic Acids Research</i> , 2019 , 47, D520-D528	20.1	308
108	Structural biology data archiving - where we are and what lies ahead. <i>FEBS Letters</i> , 2018 , 592, 2153-2167	3.8	8
107	Validation of ligands in macromolecular structures determined by X-ray crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 228-236	5.5	29
106	Worldwide Protein Data Bank validation information: usage and trends. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 237-244	5.5	11
105	Worldwide Protein Data Bank biocuration supporting open access to high-quality 3D structural biology data. <i>Database: the Journal of Biological Databases and Curation</i> , 2018 , 2018,	5	31

104	PDBe: towards reusable data delivery infrastructure at protein data bank in Europe. <i>Nucleic Acids Research</i> , 2018 , 46, D486-D492	20.1	57
103	OneDep: Unified wwPDB System for Deposition, Biocuration, and Validation of Macromolecular Structures in the PDB Archive. <i>Structure</i> , 2017 , 25, 536-545	5.2	86
102	Protein Data Bank (PDB): The Single Global Macromolecular Structure Archive. <i>Methods in Molecular Biology</i> , 2017 , 1607, 627-641	1.4	271
101	Validation of Structures in the Protein Data Bank. <i>Structure</i> , 2017 , 25, 1916-1927	5.2	130
100	Web-based volume slicer for 3D electron-microscopy data from EMDB. <i>Journal of Structural Biology</i> , 2016 , 194, 164-70	3.4	9
99	EMDataBank unified data resource for 3DEM. <i>Nucleic Acids Research</i> , 2016 , 44, D396-403	20.1	113
98	PDBe: improved accessibility of macromolecular structure data from PDB and EMDB. <i>Nucleic Acids Research</i> , 2016 , 44, D385-95	20.1	111
97	EMPIAR: a public archive for raw electron microscopy image data. <i>Nature Methods</i> , 2016 , 13, 387-8	21.6	206
96	Resolution of shapes determined from small-angle scattering. <i>IUCrJ</i> , 2016 , 3, 440-447	4.7	69
95	The archiving and dissemination of biological structure data. <i>Current Opinion in Structural Biology</i> , 2016 , 40, 17-22	8.1	23
94	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. <i>Structure</i> , 2015 , 23, 1156-67	5.2	131
93	Genome3D: exploiting structure to help users understand their sequences. <i>Nucleic Acids Research</i> , 2015 , 43, D382-6	20.1	33
92	NMR Exchange Format: a unified and open standard for representation of NMR restraint data. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 433-4	17.6	26
91	The Protein Data Bank archive as an open data resource. <i>Journal of Computer-Aided Molecular Design</i> , 2014 , 28, 1009-14	4.2	85
90	A 3D cellular context for the macromolecular world. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 841-5	17.6	33
89	Improving the representation of peptide-like inhibitor and antibiotic molecules in the Protein Data Bank. <i>Biopolymers</i> , 2014 , 101, 659-68	2.2	26
88	PDBe: Protein Data Bank in Europe. <i>Nucleic Acids Research</i> , 2014 , 42, D285-91	20.1	109
87	Vivaldi: visualization and validation of biomacromolecular NMR structures from the PDB. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 583-91	4.2	12

86	How community has shaped the Protein Data Bank. <i>Structure</i> , 2013 , 21, 1485-91	5.2	27
85	The future of the Protein Data Bank. <i>Biopolymers</i> , 2013 , 99, 218-22	2.2	61
84	Web-based visualisation and analysis of 3D electron-microscopy data from EMDB and PDB. <i>Journal of Structural Biology</i> , 2013 , 184, 173-81	3.4	23
83	Recommendations of the wwPDB NMR Validation Task Force. <i>Structure</i> , 2013 , 21, 1563-70	5.2	117
82	The role of structural bioinformatics resources in the era of integrative structural biology. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 710-21		14
81	Report of the wwPDB Small-Angle Scattering Task Force: data requirements for biomolecular modeling and the PDB. <i>Structure</i> , 2013 , 21, 875-81	5.2	65
80	The EBI enzyme portal. <i>Nucleic Acids Research</i> , 2013 , 41, D773-80	20.1	13
79	Comment on timely deposition of macromolecular structures is necessary for peer review by Joosten et al. (2013). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 2296		1
78	SIFTS: Structure Integration with Function, Taxonomy and Sequences resource. <i>Nucleic Acids Research</i> , 2013 , 41, D483-9	20.1	181
77	Genome3D: a UK collaborative project to annotate genomic sequences with predicted 3D structures based on SCOP and CATH domains. <i>Nucleic Acids Research</i> , 2013 , 41, D499-507	20.1	48
76	The Protein Data Bank at 40: reflecting on the past to prepare for the future. <i>Structure</i> , 2012 , 20, 391-6	5.2	93
75	Implementing an X-ray validation pipeline for the Protein Data Bank. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 478-83		73
74	OMERO: flexible, model-driven data management for experimental biology. <i>Nature Methods</i> , 2012 , 9, 245-53	21.6	313
73	Data management challenges in three-dimensional EM. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 1203-7	17.6	34
72	PDBe: Protein Data Bank in Europe. <i>Nucleic Acids Research</i> , 2012 , 40, D445-52	20.1	75
71	PSICQUIC and PSIScore: accessing and scoring molecular interactions. <i>Nature Methods</i> , 2011 , 8, 528-9	21.6	227
70	A new generation of crystallographic validation tools for the protein data bank. <i>Structure</i> , 2011 , 19, 1395-412	5.4	335
69	The Protein Data Bank in Europe (PDBe): bringing structure to biology. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011 , 67, 324-30		25

68	EMDataBank.org: unified data resource for CryoEM. <i>Nucleic Acids Research</i> , 2011 , 39, D456-64	20.1	209
67	PDBe: Protein Data Bank in Europe. <i>Nucleic Acids Research</i> , 2011 , 39, D402-10	20.1	48
66	Safeguarding the integrity of protein archive. <i>Nature</i> , 2010 , 463, 425	50.4	7
65	Towards Proteome-Wide Interaction Models Using the Proteochemometrics Approach. <i>Molecular Informatics</i> , 2010 , 29, 499-508	3.8	14
64	Straightforward and complete deposition of NMR data to the PDBe. <i>Journal of Biomolecular NMR</i> , 2010 , 48, 85-92	3	7
63	Practical application of bioinformatics by the multidisciplinary VIZIER consortium. <i>Antiviral Research</i> , 2010 , 87, 95-110	10.8	38
62	A chemogenomics view on protein-ligand spaces. <i>BMC Bioinformatics</i> , 2009 , 10 Suppl 6, S13	3.6	24
61	Case-controlled structure validation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009 , 65, 140-7		15
60	On vital aid: the why, what and how of validation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009 , 65, 134-9		34
59	Limitations and lessons in the use of X-ray structural information in drug design. <i>Drug Discovery Today</i> , 2008 , 13, 831-41	8.8	133
58	An alternative method for the evaluation of docking performance: RSR vs RMSD. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 1411-22	6.1	89
57	Interaction model based on local protein substructures generalizes to the entire structural enzyme-ligand space. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 2278-88	6.1	30
56	Crystallographic refinement of ligand complexes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 94-100		149
55	On the precision of calculated solvent-accessible surface areas. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 270-4		15
54	ValligURL: a server for ligand-structure comparison and validation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 935-8		25
53	Separating model optimization and model validation in statistical cross-validation as applied to crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 939-40		13
52	Chapter 4: Application and Limitations of X-Ray Crystallographic Data in Structure-Guided Ligand and Drug Design. <i>RSC Biomolecular Sciences</i> , 2007 , 73-94		2
51	Quality control and validation. <i>Methods in Molecular Biology</i> , 2007 , 364, 255-72	1.4	9

50	Experimental data for structure papers. <i>Science</i> , 2007 , 317, 194-5	33.3	6
49	Structural basis of the suppressed catalytic activity of wild-type human glutathione transferase T1-1 compared to its W234R mutant. <i>Journal of Molecular Biology</i> , 2006 , 355, 96-105	6.5	32
48	New crystal structures of human glutathione transferase A1-1 shed light on glutathione binding and the conformation of the C-terminal helix. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006 , 62, 197-207		45
47	A survey of left-handed helices in protein structures. <i>Journal of Molecular Biology</i> , 2005 , 347, 231-41	6.5	67
46	Retrieval and Validation of Structural Information 2005 , 185-222		
45	Structure of human semicarbazide-sensitive amine oxidase/vascular adhesion protein-1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005 , 61, 1550-62		60
44	DJVVu all over again: finding and analyzing protein structure similarities. <i>Structure</i> , 2004 , 12, 2103-11	5.2	16
43	The Uppsala Electron-Density Server. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004 , 60, 2240-9		285
42	Towards complete validated models in the next generation of ARP/wARP. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004 , 60, 2222-9		137
41	Incorporation of a single His residue by rational design enables thiol-ester hydrolysis by human glutathione transferase A1-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13163-7	11.5	25
40	Evaluation of protein fold comparison servers. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 54, 260-70	4.2	84
39	Pound-wise but penny-foolish: How well do micromolecules fare in macromolecular refinement?. <i>Structure</i> , 2003 , 11, 1051-9	5.2	85
38	Anwendung und Grenzen kristallographischer Daten im strukturbezogenen Liganden- und Wirkstoff-Design. <i>Angewandte Chemie</i> , 2003 , 115, 2822-2841	3.6	16
37	Application and Limitations of X-Ray Crystallographic Data in Structure-Based Ligand and Drug Design.. <i>ChemInform</i> , 2003 , 34, no		1
36	Application and limitations of X-ray crystallographic data in structure-based ligand and drug design. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2718-36	16.4	285
35	The crystal structure of Echinococcus granulosus fatty-acid-binding protein 1. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1649, 40-50	4	25
34	Homo crystallographicus--quo vadis?. <i>Structure</i> , 2002 , 10, 465-72	5.2	45
33	Interactive motif and fold recognition in protein structures. <i>Journal of Applied Crystallography</i> , 2002 , 35, 137-139	3.8	27

32	The active site of cellobiohydrolase Cel6A from <i>Trichoderma reesei</i> : the roles of aspartic acids D221 and D175. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10015-24	16.4	116
31	Engineering of a glycosidase Family 7 cellobiohydrolase to more alkaline pH optimum: the pH behaviour of <i>Trichoderma reesei</i> Cel7A and its E223S/ A224H/L225V/T226A/D262G mutant. <i>Biochemical Journal</i> , 2001 , 356, 19-30	3.8	53
30	Engineering of a glycosidase Family 7 cellobiohydrolase to more alkaline pH optimum: the pH behaviour of <i>Trichoderma reesei</i> Cel7A and its E223S/ A224H/L225V/T226A/D262G mutant. <i>Biochemical Journal</i> , 2001 , 356, 19-30	3.8	22
29	Validation of protein crystal structures. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 249-65		145
28	Does NMR mean "not for molecular replacement"? Using NMR-based search models to solve protein crystal structures. <i>Structure</i> , 2000 , 8, R213-20	5.2	29
27	The structures of alpha 2u-globulin and its complex with a hyaline droplet inducer. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999 , 55, 753-62		43
26	Experimental assessment of differences between related protein crystal structures. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999 , 55, 1878-84		103
25	Structures of cellular retinoic acid binding proteins I and II in complex with synthetic retinoids. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999 , 55, 1850-7		11
24	Crystallographic evidence for substrate ring distortion and protein conformational changes during catalysis in cellobiohydrolase Ce16A from <i>trichoderma reesei</i> . <i>Structure</i> , 1999 , 7, 1035-45	5.2	150
23	CASP3 comparative modeling evaluation. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999 , Suppl 3, 30-46	4.2	43
22	Recognition of spatial motifs in protein structures. <i>Journal of Molecular Biology</i> , 1999 , 285, 1887-97	6.5	272
21	CASP3 comparative modeling evaluation. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999 , 37, 30-46	4.2	15
20	Databases in protein crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998 , 54, 1119-31		387
19	Model building and refinement practice. <i>Methods in Enzymology</i> , 1997 , 277, 208-30	1.7	232
18	The crystal structure of the catalytic core domain of endoglucanase I from <i>Trichoderma reesei</i> at 3.6 Å resolution, and a comparison with related enzymes. <i>Journal of Molecular Biology</i> , 1997 , 272, 383-97	6.5	215
17	Validation of protein models from C α coordinates alone. <i>Journal of Molecular Biology</i> , 1997 , 273, 371-6	6.5	135
16	Detecting folding motifs and similarities in protein structures. <i>Methods in Enzymology</i> , 1997 , 277, 525-45	1.7	255
15	Not your average density. <i>Structure</i> , 1997 , 5, 1557-69	5.2	142

14	The active site of <i>Trichoderma reesei</i> cellobiohydrolase II: the role of tyrosine 169. <i>Protein Engineering, Design and Selection</i> , 1996 , 9, 691-9	1.9	68
13	Checking your imagination: applications of the free R value. <i>Structure</i> , 1996 , 4, 897-904	5.2	360
12	Phi/psi-chology: Ramachandran revisited. <i>Structure</i> , 1996 , 4, 1395-400	5.2	478
11	Storing diffraction data. <i>Nature</i> , 1996 , 383, 18-9	50.4	16
10	Crystallographic and molecular-modeling studies of lipase B from <i>Candida antarctica</i> reveal a stereospecificity pocket for secondary alcohols. <i>Biochemistry</i> , 1995 , 34, 16838-51	3.2	418
9	Crystal structure of the C2 fragment of streptococcal protein G in complex with the Fc domain of human IgG. <i>Structure</i> , 1995 , 3, 265-78	5.2	311
8	Where freedom is given, liberties are taken. <i>Structure</i> , 1995 , 3, 535-40	5.2	217
7	Crystal structure of an acetylcholinesterase-fasciculin complex: interaction of a three-fingered toxin from snake venom with its target. <i>Structure</i> , 1995 , 3, 1355-66	5.2	217
6	Crystal structures of cellular retinoic acid binding proteins I and II in complex with all-trans-retinoic acid and a synthetic retinoid. <i>Structure</i> , 1994 , 2, 1241-58	5.2	208
5	Structure determination and refinement of human alpha class glutathione transferase A1-1, and a comparison with the Mu and Pi class enzymes. <i>Journal of Molecular Biology</i> , 1993 , 232, 192-212	6.5	428
4	Computer-assisted assignment of 2D 1H NMR spectra of proteins: basic algorithms and application to phoratoxin B. <i>Journal of Biomolecular NMR</i> , 1991 , 1, 23-47	3	39
3	STELLA and CLAIRE: A Seraglio of Programs for Human-Aided Assignment of 2D 1H NMR Spectra of Proteins 1991 , 427-437		
2	A versatile approach toward the partially automatic recognition of cross peaks in 2D 1 H NMR spectra. <i>Journal of Magnetic Resonance</i> , 1990 , 88, 601-608		8
1	Toward automatic assignment of protein 1H NMR spectra. <i>Journal of Magnetic Resonance</i> , 1989 , 85, 186-197		6