Bi-Cheng Wang

List of Publications by Year in descending order

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RI-CHENC WANC

#	Article	IF	CITATIONS
1	Resolution of phase ambiguity in macromolecular crystallography. Methods in Enzymology, 1985, 115, 90-112.	1.0	989
2	Crystal structure of bacteriophage T7 RNA polymerase at 3.3 Ã resolution. Nature, 1993, 364, 593-599.	27.8	381
3	Kinked DNA in crystalline complex with EcoRI endonuclease. Nature, 1984, 309, 327-331.	27.8	328
4	The first structure of an aldehyde dehydrogenase reveals novel interactions between NAD and the Rossmann fold. Nature Structural Biology, 1997, 4, 317-326.	9.7	289
5	Relationships within the aldehyde dehydrogenase extended family. Protein Science, 1999, 8, 137-146.	7.6	247
6	The 2.0 A structure of human ferrochelatase, the terminal enzyme of heme biosynthesis. Nature Structural Biology, 2001, 8, 156-160.	9.7	200
7	The structure of glutamine-binding protein complexed with glutamine at 1.94 Ã resolution: comparisons with other amino acid binding proteins. Journal of Molecular Biology, 1998, 278, 219-229.	4.2	180
8	Structure of the Ca ²⁺ â€regulated photoprotein obelin at 1.7 à resolution determined directly from its sulfur substructure. Protein Science, 2000, 9, 2085-2093.	7.6	170
9	The Crystal Structure of Glutamine-binding Protein fromEscherichia coli. Journal of Molecular Biology, 1996, 262, 225-242.	4.2	165
10	Structural Insights into Bacillus thuringiensis Cry, Cyt and Parasporin Toxins. Toxins, 2014, 6, 2732-2770.	3.4	144
11	Fast native-SAD phasing for routine macromolecular structure determination. Nature Methods, 2015, 12, 131-133.	19.0	120
12	Mechanism of Class 1 (Glycosylhydrolase Family 47) α-Mannosidases Involved in N-Glycan Processing and Endoplasmic Reticulum Quality Control. Journal of Biological Chemistry, 2005, 280, 16197-16207.	3.4	106
13	The crystal structure of augmenter of liver regeneration: A mammalian FAD-dependent sulfhydryl oxidase. Protein Science, 2003, 12, 1109-1118.	7.6	99
14	Crystal structure of the neurophysin—oxytocin complex. Nature Structural Biology, 1996, 3, 163-169.	9.7	94
15	Crystal structure of the transcription factor sc-mtTFB offers insights into mitochondrial transcription. Protein Science, 2001, 10, 1980-1988.	7.6	93
16	Crystal Structure of the Cytoskeleton-associated Protein Glycine-rich (CAP-Gly) Domain. Journal of Biological Chemistry, 2002, 277, 48596-48601.	3.4	88
17	All three Ca2+-binding loops of photoproteins bind calcium ions: The crystal structures of calcium-loaded apo-aequorin and apo-obelin. Protein Science, 2005, 14, 663-675.	7.6	85
18	Crystal structure of obelin after Ca2+-triggered bioluminescence suggests neutral coelenteramide as the primary excited state. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2570-2575.	7.1	84

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19	Life in the fast lane for protein crystallization and X-ray crystallography. Progress in Biophysics and Molecular Biology, 2005, 88, 359-386.	2.9	77
20	X-ray Crystal Structures of Reduced Rubrerythrin and Its Azide Adduct:Â A Structure-Based Mechanism for a Non-Heme Diiron Peroxidase. Journal of the American Chemical Society, 2002, 124, 9845-9855.	13.7	76
21	The Southeast Collaboratory for Structural Genomics:  A High-Throughput Gene to Structure Factory. Accounts of Chemical Research, 2003, 36, 191-198.	15.6	76
22	Crystal structure of an aerobic FMN-dependent azoreductase (AzoA) from Enterococcus faecalis. Archives of Biochemistry and Biophysics, 2007, 463, 68-77.	3.0	66
23	Human ferrochelatase: crystallization, characterization of the [2Fe-2S] cluster and determination that the enzyme is a homodimer. BBA - Proteins and Proteomics, 1999, 1435, 191-197.	2.1	60
24	Violet Bioluminescence and Fast Kinetics from W92F Obelin:Â Structure-Based Proposals for the Bioluminescence Triggering and the Identification of the Emitting Speciesâ€. Biochemistry, 2003, 42, 6013-6024.	2.5	57
25	Atomic resolution structure of obelin: soaking with calcium enhances electron density of the second oxygen atom substituted at the C2-position of coelenterazine. Biochemical and Biophysical Research Communications, 2003, 311, 433-439.	2.1	56
26	Crystal structure of pentacyanocobalt(III)mucyano-pentaamminecobalt(III) monohydrate. Inorganic Chemistry, 1971, 10, 1492-1497.	4.0	51
27	Crystal Structure of a Ca2+-discharged Photoprotein. Journal of Biological Chemistry, 2004, 279, 33647-33652.	3.4	51
28	Native SAD is maturing. IUCrJ, 2015, 2, 431-440.	2.2	50
29	Structure of Mouse Colgi α-Mannosidase IA Reveals the Molecular Basis for Substrate Specificity among Class 1 (Family 47 Glycosylhydrolase) α1,2-Mannosidases. Journal of Biological Chemistry, 2004, 279, 29774-29786.	3.4	48
30	NMR-derived Topology of a GFP-photoprotein Energy Transfer Complex*. Journal of Biological Chemistry, 2010, 285, 40891-40900.	3.4	47
31	Aldehyde Dehydrogenase Catalytic Mechanism. Advances in Experimental Medicine and Biology, 1999, 463, 53-59.	1.6	47
32	A test of enhancing model accuracy in high-throughput crystallography. Journal of Structural and Functional Genomics, 2005, 6, 1-11.	1.2	45
33	Structural basis for the emission of violet bioluminescence from a W92F obelin mutant. FEBS Letters, 2001, 506, 281-285.	2.8	44
34	Structures of an unliganded neurophysin and its vasopressin complex: Implications for binding and allosteric mechanisms. Protein Science, 2001, 10, 1869-1880.	7.6	42
35	The Hyperthermophile Protein Sso10a is a Dimer of Winged Helix DNA-binding Domains Linked by an Antiparallel Coiled Coil Rod. Journal of Molecular Biology, 2004, 341, 73-91.	4.2	35
36	Aldehyde dehydrogenase. FEBS Journal, 2001, 268, 722-726.	0.2	34

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37	Crystal structure of Cry51Aa1: A potential novel insecticidal aerolysin-type β-pore-forming toxin from Bacillus thuringiensis. Biochemical and Biophysical Research Communications, 2015, 462, 184-189.	2.1	32
38	The Octameric Histone Core of the Nucleosome. Journal of Molecular Biology, 1994, 236, 179-188.	4.2	31
39	The First Agmatine/Cadaverine Aminopropyl Transferase: Biochemical and Structural Characterization of an Enzyme Involved in Polyamine Biosynthesis in the Hyperthermophilic Archaeon Pyrococcus furiosus. Journal of Bacteriology, 2007, 189, 6057-6067.	2.2	31
40	Crystal structure of coelenterazine-binding protein from Renilla muelleri at 1.7 Ã: Why it is not a calcium-regulated photoprotein. Photochemical and Photobiological Sciences, 2008, 7, 442.	2.9	31
41	Single amino acid changes in the predicted RNase H domain of Escherichia coli RNase G lead to complementation of RNase E deletion mutants. Rna, 2010, 16, 1371-1385.	3.5	31
42	Expression, purification and characterization of the secreted luciferase of the copepod Metridia longa from Sf9 insect cells. Protein Expression and Purification, 2008, 61, 142-148.	1.3	30
43	Crystal structure of bence jones protein Rhe (3 Ã) and its unique domain-domain association. Journal of Molecular Biology, 1979, 129, 657-674.	4.2	29
44	Characterization of a corrinoid protein involved in the C1 metabolism of strict anaerobic bacterium Moorella thermoacetica. Proteins: Structure, Function and Bioinformatics, 2007, 67, 167-176.	2.6	28
45	Crystal Structures of Tyrosyl-tRNA Synthetases from Archaea. Journal of Molecular Biology, 2006, 355, 395-408.	4.2	27
46	Single crystals of bacteriophage T7 RNA polymerase. Proteins: Structure, Function and Bioinformatics, 1989, 5, 266-270.	2.6	25
47	Parameter-space screening: a powerful tool for high-throughput crystal structure determination. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 520-527.	2.5	25
48	A multi-dataset data-collection strategy produces better diffraction data. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 544-549.	0.3	25
49	Spatial structure of the novel light-sensitive photoprotein berovin from the ctenophore Beroe abyssicola in the Ca2+-loaded apoprotein conformation state. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 2139-2146.	2.3	25
50	SGXPro: a parallel workflow engine enabling optimization of program performance and automation of structure determination. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 951-959.	2.5	23
51	The high-throughput protein-to-structure pipeline at SECSG. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 679-684.	2.5	22
52	Crystal structure of dipyridinium(II) oxytetrachloroselenate(IV),C10H8N2H22+SeOCl42 Highly coordinated selenium compound. Inorganic Chemistry, 1970, 9, 1643-1650.	4.0	21
53	Structural Insights into Substrate Specificity of Feruloyl-CoA 6'-Hydroxylase from Arabidopsis thaliana. Scientific Reports, 2015, 5, 10355.	3.3	21
54	SAD phasing: History, current impact and future opportunities. Archives of Biochemistry and Biophysics, 2016, 602, 80-94.	3.0	21

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55	Preliminary crystallographic analysis of class 3 rat liver aldehyde dehydrogenase. Proteins: Structure, Function and Bioinformatics, 1990, 8, 305-308.	2.6	20
56	Displacement of iron by zinc at the diiron site of Desulfovibrio vulgaris rubrerythrin: X-ray crystal structure and anomalous scattering analysis. Journal of Inorganic Biochemistry, 2004, 98, 786-796.	3.5	19
57	Structure determination of fibrillarin from the hyperthermophilic archaeon Pyrococcus furiosus. Biochemical and Biophysical Research Communications, 2004, 315, 726-732.	2.1	19
58	Intragenic suppressors of temperature-sensitive <i>rne</i> mutations lead to the dissociation of RNase E activity on mRNA and tRNA substrates in <i>Escherichia coli</i> . Nucleic Acids Research, 2008, 36, 5306-5318.	14.5	19
59	Structure based mechanism of the Ca ²⁺ â€induced release of coelenterazine from the <i>Renilla</i> binding protein. Proteins: Structure, Function and Bioinformatics, 2009, 74, 583-593.	2.6	19
60	Structural genomics ofPyrococcus furiosus: X-ray crystallography reveals 3D domain swapping in rubrerythrin. Proteins: Structure, Function and Bioinformatics, 2004, 57, 878-882.	2.6	18
61	On increasing protein-crystallization throughput for X-ray diffraction studies. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 123-129.	2.5	17
62	(NZ)CHO Contacts assist crystallization of a ParB-like nuclease. BMC Structural Biology, 2007, 7, 46.	2.3	17
63	Structure of a dimeric fragment related to the lambda-type Bence-Jones protein: A preliminary study. Journal of Molecular Biology, 1974, 87, 505-508.	4.2	15
64	X-ray Crystal Structure ofDesulfovibrio vulgarisRubrerythrin with Zinc Substituted into the [Fe(SCys)4] Site and Alternative Diiron Site Structuresâ€,‡. Biochemistry, 2004, 43, 3204-3213.	2.5	14
65	Protein Production and Crystallization at SECSG – An Overview. Journal of Structural and Functional Genomics, 2005, 6, 233-243.	1.2	14
66	Crystals of a bovine neurophysin II-dipeptide amide complex. Journal of Molecular Biology, 1979, 127, 241-242.	4.2	13
67	Crystals of Glutamine-binding Protein in Various Conformational States. Journal of Molecular Biology, 1994, 240, 87-91.	4.2	13
68	Crystal structure of a novel non-Pfam protein PF2046 solved using low resolution B-factor sharpening and multi-crystal averaging methods. Protein and Cell, 2010, 1, 453-458.	11.0	13
69	Structure and recognition mechanism of EcoRI endonuclease. Trends in Biochemical Sciences, 1987, 12, 395-398.	7.5	12
70	Three-dimesional structure of GlcNAcα1-4Gal releasing Endo-β-Galactosidase from Clostridium perfringens. Proteins: Structure, Function and Bioinformatics, 2005, 59, 141-144.	2.6	12
71	Crystal Structure of a Class 3 Aldehyde Dehydrogenase at 2.6Ã Resolution. Advances in Experimental Medicine and Biology, 1996, 414, 1-7.	1.6	12
72	Conserved Residues in the Aldehyde Dehydrogenase Family. Advances in Experimental Medicine and Biology, 1996, 414, 9-13.	1.6	12

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73	Away from the edge II: in-house Se-SAS phasing with chromium radiation. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 960-966.	2.5	10
74	Structural basis of neurophysin hormone specificity: Geometry, polarity, and polarizability in aromatic ring interactions. Protein Science, 1999, 8, 820-831.	7.6	9
75	Crystallographic analysis of the neurophysin-oxytocin complex. Journal of Molecular Biology, 1991, 221, 43-45.	4.2	8
76	Beyond the catalytic core of ALDH: a web of important residues begins to emerge. Chemico-Biological Interactions, 2001, 130-132, 39-46.	4.0	8
77	Isolation, crystallization and preliminary X-ray analysis of a methanol-induced corrinoid protein fromMoorella thermoacetica. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 537-540.	0.7	8
78	Crystal structure of a novel nonâ€Pfam protein AF1514 from <i>Archeoglobus fulgidus</i> DSM 4304 solved by Sâ€SAD using a Cr Xâ€ray source. Proteins: Structure, Function and Bioinformatics, 2008, 71, 2109-2113.	2.6	8
79	Preparation and X-ray crystallographic analysis of the Ca2+-discharged photoprotein obelin. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 512-514.	2.5	7
80	Crystal structure solution of a ParBâ€like nuclease at atomic resolution. Proteins: Structure, Function and Bioinformatics, 2008, 70, 263-267.	2.6	7
81	Crystals of modified bovine neurophysin II. FEBS Journal, 1988, 174, 145-147.	0.2	6
82	Structure of the hypothetical protein PF0899 fromPyrococcus furiosusat 1.85â€Ã resolution. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 549-552.	0.7	6
83	Crystals of a bovine neurophysin II tripeptide complex. Journal of Molecular Biology, 1991, 222, 23-25.	4.2	5
84	Monitoring the anomalous scattering signal and noise levels in X-ray diffraction of crystals. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 499-506.	2.5	5
85	Structure of theArchaeoglobus fulgidusorphan ORF AF1382 determined by sulfur SAD from a moderately diffracting crystal. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1242-1252.	2.5	5
86	The structure of augmenter of liver regeneration crystallized in the presence of 50â€mMCdCl2reveals a novel Cd2Cl4O6cluster that aids in crystal packing. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1128-1133.	2.5	4
87	Structural basis of CoA recognition by the Pyrococcus single-domain CoA-binding proteins. Journal of Structural and Functional Genomics, 2007, 7, 119-129.	1.2	3
88	Low-salt crystallization of T7 RNA polymerase: a first step towards the transcription bubble complex. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1188-1192.	2.5	2
89	Crystallization and preliminary X-ray diffraction analysis of the mitochondrial transcription factor sc-mtTFB fromSaccharomyces cerevisiae. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 902-903.	2.5	2
90	Crystallization and preliminary X-ray analysis of ClcNAcα1,4Gal-releasing endo-β-galactosidase fromClostridium perfringens. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 537-538.	2.5	2

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91	Salvaging Pyrococcus furiosus Protein Targets at SECSG. Journal of Structural and Functional Genomics, 2005, 6, 121-127.	1.2	2
92	Structural View of a Non Pfam Singleton and Crystal Packing Analysis. PLoS ONE, 2012, 7, e31673.	2.5	2
93	Protein Crystallography. , 2001, , .		2
94	Automated interpretation of electron density maps as applied to Bence-Jones protein rhe. Journal of Molecular Biology, 1979, 135, 305-308.	4.2	1
95	Structure of the DNA-EcoRI Endonuclease Recognition Complex. , 1987, , 251-256.		1
96	The Southeast Collaboratory for Structural Genomics: A High-Throughput Gene to Structural Factory. ChemInform, 2003, 34, no.	0.0	0
97	Structural and transcriptional analyses of a purine nucleotide-binding protein from Pyrococcus furiosus: a component of a novel, membrane-bound multiprotein complex unique to this hyperthermophilic archaeon. Journal of Structural and Functional Genomics, 2007, 8, 1-10.	1.2	0
98	Purification, crystallization and preliminary crystallographic analysis of the non-Pfam protein AF1514 fromArcheoglobus fulgidusDSM 4304. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 91-93.	0.7	0
99	The SER-CAT Virtual Beamline: Providing Light when You Need it in Your Home Lab. Nihon Kessho Gakkaishi, 2021, 63, 44-52.	0.0	0
100	Structure of the DNA-EcoRI Endonuclease Recognition Complex. Springer Series in Biophysics, 1987, , 255-259.	0.4	0
101	Progress Toward the Tertiary Structure of (Class 3) Aldehyde Dehydrogenase. Advances in Experimental Medicine and Biology, 1995, 372, 71-77.	1.6	0