

# Ji-min Wang

## 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.

76  
papers

2,225  
citations

21  
h-index

46  
g-index

83  
ext. papers

2,594  
ext. citations

8.5  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
76	High-resolution cryo-electron microscopy structure of photosystem II from the mesophilic cyanobacterium, sp. PCC 6803.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	7
75	Two-Metal-Ion Catalysis: Inhibition of DNA Polymerase Activity by a Third Divalent Metal Ion.. <i>Frontiers in Molecular Biosciences</i> , <b>2022</b> , 9, 824794	5.6	3
74	Glycerol binding at the narrow channel of photosystem II stabilizes the low-spin S state of the oxygen-evolving complex.. <i>Photosynthesis Research</i> , <b>2022</b> , 1	3.7	
73	Structure of a monomeric photosystem II core complex from a cyanobacterium acclimated to far-red light reveals the functions of chlorophylls d and f. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 101424	5.4	6
72	Structure of a photosystem I-ferredoxin complex from a marine cyanobacterium provides insights into far-red light photoacclimation. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 101408	5.4	2
71	Heterogeneous Composition of Oxygen-Evolving Complexes in Crystal Structures of Dark-Adapted Photosystem II. <i>Biochemistry</i> , <b>2021</b> , 60, 3374-3384	3.2	2
70	Structural analyses of an RNA stability element interacting with poly(A). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
69	Identification of Mg ions next to nucleotides in cryo-EM maps using electrostatic potential maps. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2021</b> , 77, 534-539	5.5	2
68	Mechanism of Inhibition of the Reproduction of SARS-CoV-2 and Viruses by Remdesivir. <i>Biochemistry</i> , <b>2021</b> , 60, 1869-1875	3.2	6
67	Do crystallographic XFEL data support binding of a water molecule to the oxygen-evolving complex of photosystem II exposed to two flashes of light?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
66	Computational insights into the membrane fusion mechanism of SARS-CoV-2 at the cellular level. <i>Computational and Structural Biotechnology Journal</i> , <b>2021</b> , 19, 5019-5028	6.8	0
65	Crystal structure of the C-terminal domain of DENR. <i>Computational and Structural Biotechnology Journal</i> , <b>2020</b> , 18, 696-704	6.8	3
64	Identification of a Na-Binding Site near the Oxygen-Evolving Complex of Spinach Photosystem II. <i>Biochemistry</i> , <b>2020</b> , 59, 2823-2831	3.2	2
63	Structural basis of keto acid utilization in nonribosomal depsipeptide synthesis. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 493-496	11.7	14
62	The Hexameric Helicase DnaB Adopts a Nonplanar Conformation during Translocation. <i>Journal of Hand Surgery Asian-Pacific volume, The</i> , <b>2020</b> , 365-375	0.5	
61	Opportunities and challenges for assigning cofactors in cryo-EM density maps of chlorophyll-containing proteins. <i>Communications Biology</i> , <b>2020</b> , 3, 408	6.7	11
60	Thermodynamics of the S-to-S state transition of the oxygen-evolving complex of photosystem II. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20840-20848	3.6	12

59	Crystallographic identification of spontaneous oxidation intermediates and products of protein sulfhydryl groups. <i>Protein Science</i> , <b>2019</b> , 28, 472-477	6.3	11
58	Numerical Investigation of Heat Transfer Characteristics of Supercritical CO <sub>2</sub> Tube in Combustion Chamber of Coal-Fired Boiler. <i>Journal of Thermal Science</i> , <b>2019</b> , 28, 442-453	1.9	3
57	Numerical study on the effect of separated over-fire air ratio on combustion characteristics and NO <sub>x</sub> emission in a 1000 MW supercritical CO <sub>2</sub> boiler. <i>Energy</i> , <b>2019</b> , 175, 593-603	7.9	11
56	Numerical simulation of flow and heat transfer between supercritical CO <sub>2</sub> tube and flue gas. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2019</b> , 14, e2295	1.3	3
55	Visualization of H atoms in the X-ray crystal structure of photoactive yellow protein: Does it contain low-barrier hydrogen bonds?. <i>Protein Science</i> , <b>2019</b> , 28, 1966-1972	6.3	3
54	Crystallographic evidence for two-metal-ion catalysis in human pol $\eta$ . <i>Protein Science</i> , <b>2019</b> , 28, 439-447	6.3	7
53	Determination of chemical identity and occupancy from experimental density maps. <i>Protein Science</i> , <b>2018</b> , 27, 411-420	6.3	9
52	Identification of ions in experimental electrostatic potential maps. <i>IUCrJ</i> , <b>2018</b> , 5, 375-381	4.7	14
51	Structural insights into the oligomerization of FtsH periplasmic domain from <i>Thermotoga maritima</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 495, 1201-1207	3.4	1
50	Structural and biochemical insights into inhibition of human primase by citrate. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 507, 383-388	3.4	0
49	Misreading chaperone-substrate complexes from random noise. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 989-990	17.6	4
48	On the damage done to the structure of the <i>Thermoplasma acidophilum</i> proteasome by electron radiation. <i>Protein Science</i> , <b>2018</b> , 27, 2051-2061	6.3	4
47	Reduced Occupancy of the Oxygen-Evolving Complex of Photosystem II Detected in Cryo-Electron Microscopy Maps. <i>Biochemistry</i> , <b>2018</b> , 57, 5925-5929	3.2	2
46	Crystal structure of Pistol, a class of self-cleaving ribozyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 1021-1026	11.5	45
45	Insights into Photosystem II from Isomorphous Difference Fourier Maps of Femtosecond X-ray Diffraction Data and Quantum Mechanics/Molecular Mechanics Structural Models. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 397-407	20.1	15
44	On the appearance of carboxylates in electrostatic potential maps. <i>Protein Science</i> , <b>2017</b> , 26, 396-402	6.3	15
43	Systematic analysis of residual density suggests that a major limitation in well-refined X-ray structures of proteins is the omission of ordered solvent. <i>Protein Science</i> , <b>2017</b> , 26, 1012-1023	6.3	7
42	Experimental charge density from electron microscopic maps. <i>Protein Science</i> , <b>2017</b> , 26, 1619-1626	6.3	16

41	On contribution of known atomic partial charges of protein backbone in electrostatic potential density maps. <i>Protein Science</i> , <b>2017</b> , 26, 1098-1104	6.3	12
40	On the relationship between cumulative correlation coefficients and the quality of crystallographic data sets. <i>Protein Science</i> , <b>2017</b> , 26, 2410-2416	6.3	3
39	Dynamic functional assembly of the Torsin AAA+ ATPase and its modulation by LAP1. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 2765-2772	3.5	19
38	Crystallographic Data Support the Carousel Mechanism of Water Supply to the Oxygen-Evolving Complex of Photosystem II. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2299-2306	20.1	43
37	Chlorophyll a with a farnesyl tail in thermophilic cyanobacteria. <i>Photosynthesis Research</i> , <b>2017</b> , 134, 175-182	3.7	12
36	On the interpretation of electron microscopic maps of biological macromolecules. <i>Protein Science</i> , <b>2017</b> , 26, 122-129	6.3	39
35	Oxygen additions in serial femtosecond crystallographic protein structures. <i>Protein Science</i> , <b>2016</b> , 25, 1797-802	6.3	10
34	S3 State of the O <sub>2</sub> -Evolving Complex of Photosystem II: Insights from QM/MM, EXAFS, and Femtosecond X-ray Diffraction. <i>Biochemistry</i> , <b>2016</b> , 55, 981-4	3.2	51
33	X-ray radiation-induced addition of oxygen atoms to protein residues. <i>Protein Science</i> , <b>2016</b> , 25, 1407-196.3	6.3	16
32	Destruction-and-diffraction by X-ray free-electron laser. <i>Protein Science</i> , <b>2016</b> , 25, 1585-92	6.3	4
31	Marangoni effect in nonequilibrium multiphase system of material processing. <i>Reviews in Chemical Engineering</i> , <b>2016</b> , 32,	5	3
30	Different Divalent Cations Alter the Kinetics and Fidelity of DNA Polymerases. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 20869-20875	5.4	50
29	On the validation of crystallographic symmetry and the quality of structures. <i>Protein Science</i> , <b>2015</b> , 24, 621-32	6.3	9
28	Comment on "Crystal structures of translocator protein (TSPO) and mutant mimic of a human polymorphism". <i>Science</i> , <b>2015</b> , 350, 519	33.3	5
27	Structure and function of the N-terminal domain of the human mitochondrial calcium uniporter. <i>EMBO Reports</i> , <b>2015</b> , 16, 1318-33	6.5	71
26	A Ubl/ubiquitin switch in the activation of Parkin. <i>EMBO Journal</i> , <b>2015</b> , 34, 2492-505	13	121
25	Estimation of the quality of refined protein crystal structures. <i>Protein Science</i> , <b>2015</b> , 24, 661-9	6.3	16
24	Crystallographic study of a MATE transporter presents a difficult case in structure determination with low-resolution, anisotropic data and crystal twinning. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2015</b> , 71, 2287-96		1

23	The mechanism of Torsin ATPase activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E4822-31	11.5	60
22	Structural insights into the stabilization of MALAT1 noncoding RNA by a bipartite triple helix. <i>Nature Structural and Molecular Biology</i> , <b>2014</b> , 21, 633-40	17.6	156
21	Numerical Simulation and Chaotic Analysis of an Aluminum Holding Furnace. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 2194-2210	2.5	1
20	Diamonds in the rough: a strong case for the inclusion of weak-intensity X-ray diffraction data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 1491-7		15
19	Exploiting subtle structural differences in heavy-atom derivatives for experimental phasing. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 1873-83		2
18	Structural models of the membrane anchors of envelope glycoproteins E1 and E2 from pestiviruses. <i>Virology</i> , <b>2014</b> , 454-455, 93-101	3.6	8
17	Exploiting large non-isomorphous differences for phase determination of a G-segment invertase-DNA complex. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 685-93		4
16	Crystal structure of an intermediate of rotating dimers within the synaptic tetramer of the G-segment invertase. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 2673-82	20.1	21
15	Structural basis for differential insertion kinetics of dNMPs opposite a difluorotoluene nucleotide residue. <i>Biochemistry</i> , <b>2012</b> , 51, 1476-85	3.2	10
14	Structural and mechanistic insights into guanylation of RNA-splicing ligase RtcB joining RNA between 3' terminal phosphate and 5' OH. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 15235-40	11.5	36
13	Tertiary architecture of the <i>Oceanobacillus iheyensis</i> group II intron. <i>Rna</i> , <b>2010</b> , 16, 57-69	5.8	62
12	Inclusion of weak high-resolution X-ray data for improvement of a group II intron structure. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2010</b> , 66, 988-1000		25
11	Structural basis for base discrimination by RB69 DNA polymerase. <i>FASEB Journal</i> , <b>2008</b> , 22, 593.2	0.9	
10	DNA polymerases: Hoogsteen base-pairing in DNA replication?. <i>Nature</i> , <b>2005</b> , 437, E6-7; discussion E7	50.4	25
9	Recent cyanobacterial Kai protein structures suggest a rotary clock. <i>Structure</i> , <b>2005</b> , 13, 735-41	5.2	10
8	A twisted four-sheeted model for an amyloid fibril. <i>Structure</i> , <b>2005</b> , 13, 1279-88	5.2	25
7	Correction of X-ray intensities from single crystals containing lattice-translocation defects. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2005</b> , 61, 67-74		33
6	Correction of X-ray intensities from an HsIV-HsIU co-crystal containing lattice-translocation defects. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2005</b> , 61, 932-41		20

- 5 Crystal structure of a self-splicing group I intron with both exons. *Nature*, **2004**, 430, 45-50 50.4 389
- 4 Nucleotide-dependent domain motions within rings of the RecA/AAA(+) superfamily. *Journal of Structural Biology*, **2004**, 148, 259-67 3.4 53
- 3 Domain motions in GroEL upon binding of an oligopeptide. *Journal of Molecular Biology*, **2003**, 334, 489-95 4.1 41
- 2 New insights into the ATP-dependent Clp protease: Escherichia coli and beyond. *Molecular Microbiology*, **1999**, 32, 449-58 4.1 184
- 1 Structure of Taq polymerase with DNA at the polymerase active site. *Nature*, **1996**, 382, 278-81 50.4 291