

# Jimin Wang

## List of Publications by Year in descending order

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79  
papers

3,360  
citations

257357

24  
h-index

155592

55  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the Replicating Complex of a Pol $\epsilon$ Family DNA Polymerase. <i>Cell</i> , 2001, 105, 657-667.	13.5	547
2	Crystal structure of a self-splicing group I intron with both exons. <i>Nature</i> , 2004, 430, 45-50.	13.7	431
3	The 2.4 Å... crystal structure of the bacterial chaperonin GroEL complexed with ATP $\gamma$ S. <i>Nature Structural Biology</i> , 1996, 3, 170-177.	9.7	243
4	Structural insights into the stabilization of MALAT1 noncoding RNA by a bipartite triple helix. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 633-640.	3.6	213
5	Visualizing a Circadian Clock Protein. <i>Molecular Cell</i> , 2004, 15, 375-388.	4.5	179
6	X-ray structures of recombinant yeast cytochrome c peroxidase and three heme-cleft mutants prepared by site-directed mutagenesis. <i>Biochemistry</i> , 1990, 29, 7160-7173.	1.2	145
7	Poly(A) Tail Recognition by a Viral RNA Element Through Assembly of a Triple Helix. <i>Science</i> , 2010, 330, 1244-1247.	6.0	144
8	Crystal structure of glycoprotein E2 from bovine viral diarrhea virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6805-6810.	3.3	108
9	Tertiary architecture of the <i>Oceanobacillus iheyensis</i> group II intron. <i>Rna</i> , 2010, 16, 57-69.	1.6	68
10	S <sub>3</sub> 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> , 2016, 55, 981-984.	1.2	62
11	Crystallographic Data Support the Carousel Mechanism of Water Supply to the Oxygen-Evolving Complex of Photosystem II. <i>ACS Energy Letters</i> , 2017, 2, 2299-2306.	8.8	58
12	High-resolution cryo-electron microscopy structure of photosystem II from the mesophilic cyanobacterium, <i>Synechocystis</i> sp. PCC 6803. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	58
13	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> , 2012, 109, 15235-15240.	3.3	53
14	On the interpretation of electron microscopic maps of biological macromolecules. <i>Protein Science</i> , 2017, 26, 122-129.	3.1	47
15	Crystal Structure Determination of <i>Escherichia coli</i> ClpP Starting from an EM-Derived Mask. <i>Journal of Structural Biology</i> , 1998, 124, 151-163.	1.3	46
16	Structural Changes in the Oxygen-Evolving Complex of Photosystem II Induced by the S <sub>1</sub> to S <sub>2</sub> Transition: A Combined XRD and QM/MM Study. <i>Biochemistry</i> , 2014, 53, 6860-6862.	1.2	46
17	Insights into Base Selectivity from the 1.8 Å... Resolution Structure of an RB69 DNA Polymerase Ternary Complex. <i>Biochemistry</i> , 2011, 50, 581-590.	1.2	43
18	Structure of HIV-1 reverse transcriptase cleaving RNA in an RNA/DNA hybrid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 507-512.	3.3	39

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19	Correction of X-ray intensities from single crystals containing lattice-translocation defects. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 67-74.	2.5	38
20	Structural Insights into Complete Metal Ion Coordination from Ternary Complexes of B Family RB69 DNA Polymerase. <i>Biochemistry</i> , 2011, 50, 9114-9124.	1.2	35
21	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> , 2022, 298, 101424.	1.6	32
22	Hoogsteen base-pairing in DNA replication?. <i>Nature</i> , 2005, 437, E6-E7.	13.7	29
23	RNA stabilization by a poly(A) tail 3' end binding pocket and other modes of poly(A)-RNA interaction. <i>Science</i> , 2021, 371, .	6.0	29
24	A Twisted Four-Sheeted Model for an Amyloid Fibril. <i>Structure</i> , 2005, 13, 1279-1288.	1.6	27
25	Inclusion of weak high-resolution X-ray data for improvement of a group II intron structure. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 988-1000.	2.5	25
26	RB69 DNA Polymerase Mutants with Expanded Nascent Base-Pair-Binding Pockets Are Highly Efficient but Have Reduced Base Selectivity. <i>Biochemistry</i> , 2009, 48, 6940-6950.	1.2	24
27	Crystal structure of an intermediate of rotating dimers within the synaptic tetramer of the G-segment invertase. <i>Nucleic Acids Research</i> , 2013, 41, 2673-2682.	6.5	24
28	On the appearance of carboxylates in electrostatic potential maps. <i>Protein Science</i> , 2017, 26, 396-402.	3.1	24
29	A Corrected Quaternary Arrangement of the Peptidase HslV and ATPase HslU in a Cocrystal Structure. <i>Journal of Structural Biology</i> , 2001, 134, 15-24.	1.3	23
30	Experimental charge density from electron microscopic maps. <i>Protein Science</i> , 2017, 26, 1619-1626.	3.1	23
31	Correction of X-ray intensities from an HslV/HslU co-crystal containing lattice-translocation defects. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 932-941.	2.5	22
32	Identification of ions in experimental electrostatic potential maps. <i>IUCr</i> , 2018, 5, 375-381.	1.0	22
33	Opportunities and challenges for assigning cofactors in cryo-EM density maps of chlorophyll-containing proteins. <i>Communications Biology</i> , 2020, 3, 408.	2.0	21
34	Estimation of the quality of refined protein crystal structures. <i>Protein Science</i> , 2015, 24, 661-669.	3.1	19
35	Variation in Mutation Rates Caused by RB69pol Fidelity Mutants Can Be Rationalized on the Basis of Their Kinetic Behavior and Crystal Structures. <i>Journal of Molecular Biology</i> , 2011, 406, 558-570.	2.0	18
36	Probing Minor Groove Hydrogen Bonding Interactions between RB69 DNA Polymerase and DNA. <i>Biochemistry</i> , 2012, 51, 4343-4353.	1.2	17

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37	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> , 2014, 70, 1491-1497.	2.5	17
38	X-ray radiation-induced addition of oxygen atoms to protein residues. <i>Protein Science</i> , 2016, 25, 1407-1419.	3.1	17
39	On contribution of known atomic partial charges of protein backbone in electrostatic potential density maps. <i>Protein Science</i> , 2017, 26, 1098-1104.	3.1	17
40	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> , 2017, 2, 397-407.	8.8	16
41	Structure of a photosystem I-ferredoxin complex from a marine cyanobacterium provides insights into far-red light photoacclimation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101408.	1.6	16
42	Two-Metal-Ion Catalysis: Inhibition of DNA Polymerase Activity by a Third Divalent Metal Ion. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 824794.	1.6	15
43	Crystallographic identification of spontaneous oxidation intermediates and products of protein sulfhydryl groups. <i>Protein Science</i> , 2019, 28, 472-477.	3.1	13
44	Crystallographic evidence for two-metal-ion catalysis in human pol $\beta$ . <i>Protein Science</i> , 2019, 28, 439-447.	3.1	13
45	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> , 2021, 118, .	3.3	13
46	Oxygen additions in serial femtosecond crystallographic protein structures. <i>Protein Science</i> , 2016, 25, 1797-1802.	3.1	12
47	Chlorophyll a with a farnesyl tail in thermophilic cyanobacteria. <i>Photosynthesis Research</i> , 2017, 134, 175-182.	1.6	12
48	Mechanism of Inhibition of the Reproduction of SARS-CoV-2 and <i>Ebola</i> Viruses by Remdesivir. <i>Biochemistry</i> , 2021, 60, 1869-1875.	1.2	12
49	Structural Basis for Reduced Dynamics of Three Engineered HNH Endonuclease Lys-to-Ala Mutants for the Clustered Regularly Interspaced Short Palindromic Repeat (CRISPR)-Associated 9 (CRISPR/Cas9) Enzyme. <i>Biochemistry</i> , 2022, 61, 785-794.	1.2	12
50	Determination of chemical identity and occupancy from experimental density maps. <i>Protein Science</i> , 2018, 27, 411-420.	3.1	11
51	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> , 2021, 118, .	3.3	11
52	Structural Basis for Differential Insertion Kinetics of dNMPs Opposite a Difluorotoluene Nucleotide Residue. <i>Biochemistry</i> , 2012, 51, 1476-1485.	1.2	10
53	Structural models of the membrane anchors of envelope glycoproteins E1 and E2 from pestiviruses. <i>Virology</i> , 2014, 454-455, 93-101.	1.1	10
54	Computational insights into the membrane fusion mechanism of SARS-CoV-2 at the cellular level. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5019-5028.	1.9	10

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55	Insights into Binding of Single-Stranded Viral RNA Template to the Replication-Transcription Complex of SARS-CoV-2 for the Priming Reaction from Molecular Dynamics Simulations. <i>Biochemistry</i> , 2022, 61, 424-432.	1.2	10
56	On the validation of crystallographic symmetry and the quality of structures. <i>Protein Science</i> , 2015, 24, 621-632.	3.1	9
57	Identification of Mg <sup>2+</sup> ions next to nucleotides in cryo-EM maps using electrostatic potential maps. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021, 77, 534-539.	1.1	9
58	Bidentate and tridentate metal-ion coordination states within ternary complexes of RB69 DNA polymerase. <i>Protein Science</i> , 2012, 21, 447-451.	3.1	8
59	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> , 2017, 26, 1012-1023.	3.1	8
60	Heterogeneous Composition of Oxygen-Evolving Complexes in Crystal Structures of Dark-Adapted Photosystem II. <i>Biochemistry</i> , 2021, 60, 3374-3384.	1.2	8
61	Using a Fluorescent Cytosine Analogue tC <sup>o</sup> To Probe the Effect of the Y567 to Ala Substitution on the Preinsertion Steps of dNMP Incorporation by RB69 DNA Polymerase. <i>Biochemistry</i> , 2012, 51, 4609-4617.	1.2	7
62	Effects of aligned $\alpha$ -helix peptide dipoles on experimental electrostatic potentials. <i>Protein Science</i> , 2017, 26, 1692-1697.	3.1	7
63	On the relationship between cumulative correlation coefficients and the quality of crystallographic data sets. <i>Protein Science</i> , 2017, 26, 2410-2416.	3.1	7
64	Misreading chaperone-substrate complexes from random noise. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 989-990.	3.6	7
65	Calcium-dependent conformational transition of calmodulin determined by Fourier transform infrared spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2013, 56, 57-61.	3.6	6
66	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> , 2019, 28, 1966-1972.	3.1	6
67	Quantitative assessment of chlorophyll types in cryo-EM maps of photosystem I acclimated to far-red light. <i>BBA Advances</i> , 2021, 1, 100019.	0.7	6
68	Comment on "Crystal structures of translocator protein (TSPO) and mutant mimic of a human polymorphism". <i>Science</i> , 2015, 350, 519-519.	6.0	5
69	Destruction and diffraction by X-ray free-electron laser. <i>Protein Science</i> , 2016, 25, 1585-1592.	3.1	5
70	On the damage done to the structure of the <i>Thermoplasma acidophilum</i> proteasome by electron radiation. <i>Protein Science</i> , 2018, 27, 2051-2061.	3.1	5
71	Identification of a Na <sup>+</sup> -Binding Site near the Oxygen-Evolving Complex of Spinach Photosystem II. <i>Biochemistry</i> , 2020, 59, 2823-2831.	1.2	5
72	Structural and biochemical insights into inhibition of human primase by citrate. <i>Biochemical and Biophysical Research Communications</i> , 2018, 507, 383-388.	1.0	4

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73	Exploiting large non-isomorphous differences for phase determination of a G-segment invertaseâ€“DNA complex. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 685-693.	2.5	4
74	Exploiting subtle structural differences in heavy-atom derivatives for experimental phasing. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1873-1883.	2.5	3
75	Reduced Occupancy of the Oxygen-Evolving Complex of Photosystem II Detected in Cryo-Electron Microscopy Maps. <i>Biochemistry</i> , 2018, 57, 5925-5929.	1.2	3
76	Crystal structure of the C-terminal domain of DENR. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 696-704.	1.9	3
77	Structure of New Binary and Ternary DNA Polymerase Complexes From Bacteriophage RB69. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 704813.	1.6	3
78	Structural insights into the oligomerization of FtsH periplasmic domain from <i>Thermotoga maritima</i> . <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 1201-1207.	1.0	2
79	Glycerol binding at the narrow channel of photosystem II stabilizes the low-spin S2 state of the oxygen-evolving complex. <i>Photosynthesis Research</i> , 2022, , 1.	1.6	1