Wen Jiang

List of Publications by Year
in descending order

88 papers	8,485 citations	109321 35 h-index	49909 87 g-index
96 all docs	96 docs citations	96 times ranked	11179 citing authors

#	Article	IF	Citations
1	EMAN2: An extensible image processing suite for electron microscopy. Journal of Structural Biology, 2007, 157, 38-46.	2.8	2,798
2	Hierarchical self-assembly of DNA into symmetric supramolecular polyhedra. Nature, 2008, 452, 198-201.	27.8	1,138
3	Structure of epsilon15 bacteriophage reveals genome organization and DNA packaging/injection apparatus. Nature, 2006, 439, 612-616.	27.8	280
4	Conformational flexibility facilitates self-assembly of complex DNA nanostructures. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10665-10669.	7.1	249
5	Proteogenomic characterization of pancreatic ductal adenocarcinoma. Cell, 2021, 184, 5031-5052.e26.	28.9	236
6	Backbone structure of the infectious Îµ15 virus capsid revealed by electron cryomicroscopy. Nature, 2008, 451, 1130-1134.	27.8	204
7	Structural basis for scaffolding-mediated assembly and maturation of a dsDNA virus. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1355-1360.	7.1	191
8	Coat protein fold and maturation transition of bacteriophage P22 seen at subnanometer resolutions. Nature Structural Biology, 2003, 10, 131-135.	9.7	190
9	Proteogenomic insights into the biology and treatment of HPV-negative head and neck squamous cell carcinoma. Cancer Cell, 2021, 39, 361-379.e16.	16.8	189
10	Applications of a bilateral denoising filter in biological electron microscopy. Journal of Structural Biology, 2003, 144, 114-122.	2.8	172
11	Cryo-EM Asymmetric Reconstruction of Bacteriophage P22 Reveals Organization of its DNA Packaging and Infecting Machinery. Structure, 2006, 14, 1073-1082.	3.3	149
12	Structure of the immature Zika virus at 9 Ã... resolution. Nature Structural and Molecular Biology, 2017, 24, 184-186.	8.2	149
13	Self-Assembly of Molecule-like Nanoparticle Clusters Directed by DNA Nanocages. Journal of the American Chemical Society, 2015, 137, 4320-4323.	13.7	136
14	Single Particle Cryo-electron Microscopy and 3-D Reconstruction of Viruses. Methods in Molecular Biology, 2014, 1117, 401-443.	0.9	132
15	Electron cryomicroscopy and bioinformatics suggest protein fold models for rice dwarf virus. Nature Structural Biology, 2001, 8, 868-873.	9.7	125
16	A human antibody against Zika virus crosslinks the E protein to prevent infection. Nature Communications, 2017, 8, 14722.	12.8	122
17	Deep Learning in Proteomics. Proteomics, 2020, 20, e1900335.	2.2	91
18	DNA Nanocages Swallow Gold Nanoparticles (AuNPs) to Form AuNP@DNA Cage Coreâ€“Shell Structures. ACS Nano, 2014, 8, 1130-1135.	14.6	87

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19	Capsid expansion mechanism of bacteriophage T7 revealed by multistate atomic models derived from cryo-EM reconstructions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4606-14.	7.1	87
20	2.9ÂÃ... Resolution Cryo-EM 3D Reconstruction of Close-Packed Virus Particles. Structure, 2016, 24, 319-328.	3.3	74
21	In vivo production of RNA nanostructures via programmed folding of single-stranded RNAs. Nature Communications, 2018, 9, 2196.	12.8	72
22	Construction of RNA nanocages by re-engineering the packaging RNA of Phi29 bacteriophage. Nature Communications, 2014, 5, 3890.	12.8	66
23	De novo design of an RNA tile that self-assembles into a homo-octameric nanoprism. Nature Communications, 2015, 6, 5724.	12.8	64
24	Cryo-EM structure of the bacteriophage T4 isometric head at 3.3-Ã... resolution and its relevance to the assembly of icosahedral viruses. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8184-E8193.	7.1	63
25	Atomic structure of a rhinovirus C, a virus species linked to severe childhood asthma. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8997-9002.	7.1	62
26	Cryo-EM structure of Escherichia coli Ïƒ70 RNA polymerase and promoter DNA complex revealed a role of Ïƒ non-conserved region during the open complex formation. Journal of Biological Chemistry, 2018, 293, 7367-7375.	3.4	61
27	Antibody-based affinity cryo-EM grid. Methods, 2016, 100, 16-24.	3.8	60
28	DNA self-assembly: from 2D to 3D. Faraday Discussions, 2009, 143, 221.	3.2	58
29	Visualization of uncorrelated, tandem symmetry mismatches in the internal genome packaging apparatus of bacteriophage T7. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6811-6816.	7.1	58
30	Atomic cryo-EM structures of viruses. Current Opinion in Structural Biology, 2017, 46, 122-129.	5.7	55
31	Antibody-induced uncoating of human rhinovirus B14. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8017-8022.	7.1	49
32	Flaviviruses have imperfect icosahedral symmetry. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11608-11612.	7.1	49
33	Structure of Tau filaments in Prion protein amyloidoses. Acta Neuropathologica, 2021, 142, 227-241.	7.7	45
34	Electron cryomicroscopy of single particles at subnanometer resolution. Current Opinion in Structural Biology, 2005, 15, 571-577.	5.7	43
35	Structural Basis for Recognition of Human Enterovirus 71 by a Bivalent Broadly Neutralizing Monoclonal Antibody. PLoS Pathogens, 2016, 12, e1005454.	4.7	43
36	An algorithm for estimation and correction of anisotropic magnification distortion of cryo-EM images without need of pre-calibration. Journal of Structural Biology, 2016, 195, 207-215.	2.8	37

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37	Single-step antibody-based affinity cryo-electron microscopy for imaging and structural analysis of macromolecular assemblies. Journal of Structural Biology, 2014, 187, 1-9.	2.8	35
38	CTF Challenge: Result summary. Journal of Structural Biology, 2015, 190, 348-359.	2.8	34
39	Antibody-Based Affinity Cryoelectron Microscopy at 2.6-Ã... Resolution. Structure, 2016, 24, 1984-1990.	3.3	34
40	Plasticity within the barrel domain of BamA mediates a hybrid-barrel mechanism by BAM. Nature Communications, 2021, 12, 7131.	12.8	34
41	MBIR: A cryo-ET 3D reconstruction method that effectively minimizes missing wedge artifacts and restores missing information. Journal of Structural Biology, 2019, 206, 183-192.	2.8	33
42	Structure of the Marine Siphovirus TW1: Evolution of Capsid-Stabilizing Proteins and Tail Spikes. Structure, 2018, 26, 238-248.e3.	3.3	32
43	Cryo-EM structures of prion protein filaments from Gerstmannâ€“StrÃusslerâ€“Scheinker disease. Acta Neuropathologica, 2022, 144, 509-520.	7.7	32
44	Visualization of Bacteriophage T3 Capsids with DNA Incompletely Packaged In Vivo. Journal of Molecular Biology, 2008, 384, 1384-1399.	4.2	31
45	Selective Capture of Histidine-tagged Proteins from Cell Lysates Using TEM grids Modified with NTA-Graphene Oxide. Scientific Reports, 2016, 6, 32500.	3.3	31
46	Simultaneous determination of sample thickness, tilt, and electron mean free path using tomographic tilt images based on Beerâ€“Lambert law. Journal of Structural Biology, 2015, 192, 287-296.	2.8	30
47	Nonfouling NTA-PEG-Based TEM Grid Coatings for Selective Capture of Histidine-Tagged Protein Targets from Cell Lysates. Langmuir, 2016, 32, 551-559.	3.5	30
48	A graph theory method for determination of cryo-EM image focuses. Journal of Structural Biology, 2012, 180, 343-351.	2.8	29
49	Cryo-EM Structure of a Novel Calicivirus, Tulane Virus. PLoS ONE, 2013, 8, e59817.	2.5	28
50	Structure of a headful DNA-packaging bacterial virus at 2.9 Ã... resolution by electron cryo-microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3601-3606.	7.1	26
51	Coxsackievirus A10 atomic structure facilitating the discovery of a broad-spectrum inhibitor against human enteroviruses. Cell Discovery, 2019, 5, 4.	6.7	26
52	Dualities in the analysis of phage DNA packaging motors. Bacteriophage, 2012, 2, e23829.	1.9	19
53	Length quantization of DNA partially expelled from heads of a bacteriophage T3 mutant. Virology, 2014, 456-457, 157-170.	2.4	19
54	Cryoelectron Microscopy of Icosahedral Virus Particles. Methods in Molecular Biology, 2007, 369, 345-363.	0.9	17

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55	DNA Packaging-Associated Hyper-Capsid Expansion of Bacteriophage T3. Journal of Molecular Biology, 2010, 397, 361-374.	4.2	17
56	A 3.0-Angstrom Resolution Cryo-Electron Microscopy Structure and Antigenic Sites of Coxsackievirus A6-Like Particles. Journal of Virology, 2018, 92, .	3.4	14
57	Sub-3â€Ã… apoferritin structure determined with full range of phase shifts using a single position of volta phase plate. Journal of Structural Biology, 2019, 206, 225-232.	2.8	14
58	Affinity Capture of p97 with Small-Molecule Ligand Bait Reveals a 3.6 Ã… Double-Hexamer Cryoelectron Microscopy Structure. ACS Nano, 2021, 15, 8376-8385.	14.6	14
59	Phage G Structure at 6.1â€Ã… Resolution, Condensed DNA, and Host Identity Revision to a Lysinibacillus. Journal of Molecular Biology, 2020, 432, 4139-4153.	4.2	14
60	Ubiquitination and degradation of SUMO1 by small-molecule degraders extends survival of mice with patient-derived tumors. Science Translational Medicine, 2021, 13, eabh1486.	12.4	14
61	Simulations of Phage T7 Capsid Expansion Reveal the Role of Molecular Sterics on Dynamics. Viruses, 2020, 12, 1273.	3.3	13
62	A fast cross-validation method for alignment of electron tomography images based on Beerâ€“Lambert law. Journal of Structural Biology, 2015, 192, 297-306.	2.8	11
63	Cryo-electron microscopy structures of VCP/p97 reveal a new mechanism of oligomerization regulation. IScience, 2021, 24, 103310.	4.1	11
64	Adenoviral E4 34K protein interacts with virus packaging components and may serve as the putative portal. Scientific Reports, 2017, 7, 7582.	3.3	10
65	States of phage T3/T7 capsids: buoyant density centrifugation and cryo-EM. Biophysical Reviews, 2018, 10, 583-596.	3.2	10
66	Arrangement of the Polymerase Complexes inside a Nine-Segmented dsRNA Virus. Structure, 2020, 28, 604-612.e3.	3.3	10
67	High resolution single particle Cryo-EM refinement using JSPR. Progress in Biophysics and Molecular Biology, 2021, 160, 37-42.	2.9	9
68	Deep-Learning-Derived Evaluation Metrics Enable Effective Benchmarking of Computational Tools for Phosphopeptide Identification. Molecular and Cellular Proteomics, 2021, 20, 100171.	3.8	9
69	The transition structure of chromatin fibers at the nanoscale probed by cryogenic electron tomography. Nanoscale, 2019, 11, 13783-13789.	5.6	8
70	Cryo-EM Structure of Heterologous Protein Complex Loaded Thermotoga Maritima Encapsulin Capsid. Biomolecules, 2020, 10, 1342.	4.0	8
71	Singleâ€Particle Cryoâ€EM and 3D Reconstruction of Hybrid Nanoparticles with Electronâ€Dense Components. Small, 2015, 11, 5157-5163.	10.0	6
72	Web-based Simulation for Contrast Transfer Function and Envelope Functions. Microscopy and Microanalysis, 2001, 7, 329-334.	0.4	5

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73	Real-time detection and single-pass minimization of TEM objective lens astigmatism. Journal of Structural Biology, 2017, 197, 210-219.	2.8	5
74	Stability of Cucumber Necrosis Virus at the Quasi-6-Fold Axis Affects Zoospore Transmission. Journal of Virology, 2017, 91, .	3.4	5
75	Chromatin hierarchical branching visualized at the nanoscale by electron microscopy. Nanoscale Advances, 2021, 3, 1019-1028.	4.6	5
76	Structural Studies of the Phage G Tail Demonstrate an Atypical Tail Contraction. Viruses, 2021, 13, 2094.	3.3	5
77	Affinity Cryo-Electron Microscopy Studies of Viral Particles Captured Directly From Cell Culture. Microscopy and Microanalysis, 2015, 21, 547-548.	0.4	4
78	Defocus and magnification dependent variation of TEM image astigmatism. Scientific Reports, 2018, 8, 344.	3.3	4
79	Development of CryoVR, a virtual reality training system for hands-on cryoEM operations. Acta Crystallographica Section D: Structural Biology, 2022, 78, 903-910.	2.3	4
80	Cryo-EM structures and functional characterization of homo- and heteropolymers of human ferritin variants. Scientific Reports, 2020, 10, 20666.	3.3	3
81	Helical Indexing in Real Space. Scientific Reports, 2022, 12, 8162.	3.3	3
82	Web-based Simulation for Contrast Transfer Function and Envelope Functions. Microscopy and Microanalysis, 2001, 7, 329-334.	0.4	2
83	Web-based Simulation for Contrast Transfer Function and Envelope Functions. Microscopy and Microanalysis, 2001, 7, 329-334.	0.4	2
84	DNA Nanotubes: Self-Assembly of DNA Nanotubes with Defined Diameters and Lengths (Small 5/2014). Small, 2014, 10, 854-854.	10.0	1
85	Cryo-EM and Mass Spectrometry Based Investigations of Viral Capsid Morphogenesis. Microscopy and Microanalysis, 2004, 10, 226-227.	0.4	0
86	A Digital Micrograph Script for Detection of Astigmatism in TEM Images. Microscopy and Microanalysis, 2016, 22, 2072-2073.	0.4	0
87	2.5 Çª Resolution Cryo-EM Structure of Human Apo-ferritin Using an Optimized Workflow for Volta Phase Plate. Microscopy and Microanalysis, 2018, 24, 900-901.	0.4	0
88	MBIR 3D Reconstruction Method Effectively Minimizes Missing Wedge Artifacts and Restores Missing Information in Cryo-electron Tomography. Microscopy and Microanalysis, 2020, 26, 3146-3149.	0.4	0