

Peijun Zhang

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.

80
papers

3,512
citations

32
h-index

59
g-index

90
ext. papers

4,419
ext. citations

11.4
avg, IF

5.51
L-index

#	Paper	IF	Citations
80	High-resolution in situ structure determination by cryo-electron tomography and subtomogram averaging using emClarity.. <i>Nature Protocols</i> , 2022 ,	18.8	3
79	Structure of native HIV-1 cores and their interactions with IP6 and CypA. <i>Science Advances</i> , 2021 , 7, eabj5715	11.5	1
78	A structural view of the SARS-CoV-2 virus and its assembly.. <i>Current Opinion in Virology</i> , 2021 , 52, 123-134.	4.5	5
77	CryoET structures of immature HIV Gag reveal six-helix bundle. <i>Communications Biology</i> , 2021 , 4, 481	6.7	5
76	Native-like SARS-CoV-2 Spike Glycoprotein Expressed by ChAdOx1 nCoV-19/AZD1222 Vaccine. <i>ACS Central Science</i> , 2021 , 7, 594-602	16.8	47
75	Cytoplasmic CPSF6 Regulates HIV-1 Capsid Trafficking and Infection in a Cyclophilin A-Dependent Manner. <i>MBio</i> , 2021 , 12,	7.8	9
74	REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. <i>Nature Methods</i> , 2021 , 18, 1418-1422	21.6	16
73	Probing the biogenesis pathway and dynamics of thylakoid membranes. <i>Nature Communications</i> , 2021 , 12, 3475	17.4	12
72	Correlative multi-scale cryo-imaging unveils SARS-CoV-2 assembly and egress. <i>Nature Communications</i> , 2021 , 12, 4629	17.4	24
71	Ptychographic Single Particle Analysis for Biological Science. <i>Microscopy and Microanalysis</i> , 2021 , 27, 190-192	0.5	
70	Serial cryoFIB/SEM Reveals Cytoarchitectural Disruptions in Leigh Syndrome Patient Cells. <i>Structure</i> , 2021 , 29, 82-87.e3	5.2	10
69	Correlative Multi-scale Cryo-imaging Unveils SARS-CoV-2 Assembly and Egress 2021 ,		1
68	Analysis of Viruses in the Cellular Context by Electron Tomography 2021 , 242-247		0
67	Native-like SARS-CoV-2 spike glycoprotein expressed by ChAdOx1 nCoV-19/AZD1222 vaccine 2021 ,		13
66	Visualizing HIV-1 Capsid and Its Interactions with Antivirals and Host Factors. <i>Viruses</i> , 2021 , 13,	6.2	5
65	The molecular basis of regulation of bacterial capsule assembly by Wzc. <i>Nature Communications</i> , 2021 , 12, 4349	17.4	6
64	Studying bacterial chemosensory array with CryoEM. <i>Biochemical Society Transactions</i> , 2021 , 49, 2081-2089	3.9	0

63	CryoEM structure of the super-constricted two-start dynamin 1 filament. <i>Nature Communications</i> , 2021 , 12, 5393	17.4	0
62	Structural Analysis of Retrovirus Assembly and Maturation.. <i>Viruses</i> , 2021 , 14,	6.2	1
61	CryoET Data Collection and Subtomogram Averaging Using emClarity. <i>Microscopy and Microanalysis</i> , 2020 , 26, 3140-3140	0.5	
60	Low-dose phase retrieval of biological specimens using cryo-electron ptychography. <i>Nature Communications</i> , 2020 , 11, 2773	17.4	25
59	The cryo-EM structure of the SNX-BAR Mvp1 tetramer. <i>Nature Communications</i> , 2020 , 11, 1506	17.4	9
58	Structure and mechanism of bactericidal mammalian perforin-2, an ancient agent of innate immunity. <i>Science Advances</i> , 2020 , 6, eaax8286	14.3	32
57	SARS-CoV-2 Assembly and Egress Pathway Revealed by Correlative Multi-modal Multi-scale Cryo-imaging 2020 ,		5
56	Structure and dynamics of the E. coli chemotaxis core signaling complex by cryo-electron tomography and molecular simulations. <i>Communications Biology</i> , 2020 , 3, 24	6.7	16
55	The Architecture of Inactivated SARS-CoV-2 with Postfusion Spikes Revealed by Cryo-EM and Cryo-ET. <i>Structure</i> , 2020 , 28, 1218-1224.e4	5.2	62
54	Intrinsic curvature of the HIV-1 CA hexamer underlies capsid topology and interaction with cyclophilin A. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 855-862	17.6	25
53	Assembly intermediates of orthoreovirus captured in the cell. <i>Nature Communications</i> , 2020 , 11, 4445	17.4	13
52	Purification and Characterization of MxB. <i>Methods in Molecular Biology</i> , 2020 , 2159, 55-65	1.4	1
51	Advances in cryo-electron tomography and subtomogram averaging and classification. <i>Current Opinion in Structural Biology</i> , 2019 , 58, 249-258	8.1	41
50	Assembly of Gold Nanoparticles into Chiral Superstructures Driven by Circularly Polarized Light. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11739-11744	16.4	46
49	AutoCLEM: An Automated Workflow for Correlative Live-Cell Fluorescence Microscopy and Cryo-Electron Tomography. <i>Scientific Reports</i> , 2019 , 9, 19207	4.9	12
48	Truncated CPSF6 Forms Higher-Order Complexes That Bind and Disrupt HIV-1 Capsid. <i>Journal of Virology</i> , 2018 , 92,	6.6	25
47	Differentiation and Characterization of Excitatory and Inhibitory Synapses by Cryo-electron Tomography and Correlative Microscopy. <i>Journal of Neuroscience</i> , 2018 , 38, 1493-1510	6.6	89
46	Structures of the fungal dynamin-related protein Vps1 reveal a unique, open helical architecture. <i>Journal of Cell Biology</i> , 2018 , 217, 3608-3624	7.3	8

45	CryoEM-based hybrid modeling approaches for structure determination. <i>Current Opinion in Microbiology</i> , 2018 , 43, 14-23	7.9	16
44	Machining protein microcrystals for structure determination by electron diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9569-9573	11.5	48
43	emClarity: software for high-resolution cryo-electron tomography and subtomogram averaging. <i>Nature Methods</i> , 2018 , 15, 955-961	21.6	110
42	Three-Dimensional Analysis of Mitochondrial Crista Ultrastructure in a Patient with Leigh Syndrome by In Situ Cryoelectron Tomography. <i>iScience</i> , 2018 , 6, 83-91	6.1	36
41	CryoEM Structure Refinement by Integrating NMR Chemical Shifts with Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3853-3863	3.4	34
40	CryoEM structure of MxB reveals a novel oligomerization interface critical for HIV restriction. <i>Science Advances</i> , 2017 , 3, e1701264	14.3	38
39	Quenching protein dynamics interferes with HIV capsid maturation. <i>Nature Communications</i> , 2017 , 8, 1779	17.4	42
38	Self-assembly of nanoparticles into biomimetic capsid-like nanoshells. <i>Nature Chemistry</i> , 2017 , 9, 287-294	7.6	71
37	In vitro protease cleavage and computer simulations reveal the HIV-1 capsid maturation pathway. <i>Nature Communications</i> , 2016 , 7, 13689	17.4	30
36	Cyclophilin A stabilizes the HIV-1 capsid through a novel non-canonical binding site. <i>Nature Communications</i> , 2016 , 7, 10714	17.4	94
35	Peptide-Directed Assembly of Single-Helical Gold Nanoparticle Superstructures Exhibiting Intense Chiroptical Activity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13655-13663	16.4	110
34	A prodrug micellar carrier assembled from polymers with pendant farnesyl thiosalicylic acid moieties for improved delivery of paclitaxel. <i>Acta Biomaterialia</i> , 2016 , 43, 282-291	10.8	24
33	Chiral templating of self-assembling nanostructures by circularly polarized light. <i>Nature Materials</i> , 2015 , 14, 66-72	27	251
32	CryoEM and computer simulations reveal a novel kinase conformational switch in bacterial chemotaxis signaling. <i>ELife</i> , 2015 , 4,	8.9	74
31	The self-assembling camptothecin-tocopherol prodrug: An effective approach for formulating camptothecin. <i>Biomaterials</i> , 2015 , 62, 176-87	15.6	51
30	Dynamic allostery governs cyclophilin A-HIV capsid interplay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14617-22	11.5	66
29	Author response: CryoEM and computer simulations reveal a novel kinase conformational switch in bacterial chemotaxis signaling 2015 ,		2
28	Terminal supraparticle assemblies from similarly charged protein molecules and nanoparticles. <i>Nature Communications</i> , 2014 , 5, 3593	17.4	81

27	Membrane tethering by the atlastin GTPase depends on GTP hydrolysis but not on forming the cross-over configuration. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3942-53	3.5	24
26	Structural insight into HIV-1 restriction by MxB. <i>Cell Host and Microbe</i> , 2014 , 16, 627-638	23.4	80
25	Controlled bacterial lysis for electron tomography of native cell membranes. <i>Structure</i> , 2014 , 22, 1875-1882	9.8	26
24	Correlative fluorescence and electron microscopy. <i>Current Protocols in Cytometry</i> , 2014 , 70, 12.36.1-10	3.6	7
23	Correlative cryo-electron tomography and optical microscopy of cells. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 763-70	8.1	53
22	Mature HIV-1 capsid structure by cryo-electron microscopy and all-atom molecular dynamics. <i>Nature</i> , 2013 , 497, 643-6	50.4	549
21	Correlative microscopy for 3D structural analysis of dynamic interactions. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	11
20	Tubular crystals and helical arrays: structural determination of HIV-1 capsid assemblies using iterative helical real-space reconstruction. <i>Methods in Molecular Biology</i> , 2013 , 955, 381-99	1.4	7
19	HIV-1 Maturation 2013 , 153-166		2
18	Structural insight into HIV-1 capsid recognition by rhesus TRIM5 α . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18372-7	11.5	56
17	3D structure determination of native mammalian cells using cryo-FIB and cryo-electron tomography. <i>Journal of Structural Biology</i> , 2012 , 180, 318-26	3.4	56
16	Protease cleavage leads to formation of mature trimer interface in HIV-1 capsid. <i>PLoS Pathogens</i> , 2012 , 8, e1002886	7.6	33
15	Structure of HIV-1 capsid assemblies by cryo-electron microscopy and iterative helical real-space reconstruction. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	5
14	Direct visualization of HIV-1 with correlative live-cell microscopy and cryo-electron tomography. <i>Structure</i> , 2011 , 19, 1573-81	5.2	74
13	Gold Superstructures: Size-Controlled Peptide-Directed Synthesis of Hollow Spherical Gold Nanoparticle Superstructures (Small 14/2011). <i>Small</i> , 2011 , 7, 1938-1938	11	3
12	Rhesus TRIM5 α disrupts the HIV-1 capsid at the inter-hexamer interfaces. <i>PLoS Pathogens</i> , 2011 , 7, e1002809	9.0	70
11	Structural convergence between Cryo-EM and NMR reveals intersubunit interactions critical for HIV-1 capsid function. <i>Cell</i> , 2009 , 139, 780-90	56.2	215
10	Role of HAMP domains in chemotaxis signaling by bacterial chemoreceptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 16555-60	11.5	69

9	Direct visualization of Escherichia coli chemotaxis receptor arrays using cryo-electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 3777-81	11.5	148
8	Electron tomography of bacterial chemotaxis receptor assemblies. <i>Methods in Cell Biology</i> , 2007 , 79, 373-84	1.8	6
7	Electron tomography of degenerating neurons in mice with abnormal regulation of iron metabolism. <i>Journal of Structural Biology</i> , 2005 , 150, 144-53	3.4	51
6	Three-dimensional reconstruction of dynamin in the constricted state. <i>Nature Cell Biology</i> , 2001 , 3, 922-6	3.4	207
5	Structural Studies of Dynamin Tubular Crystals by Cryo-Electron Microscopy. <i>Microscopy and Microanalysis</i> , 1999 , 5, 1024-1025	0.5	
4	High resolution in situ structural determination of heterogeneous specimen		1
3	Assembly intermediates of orthoreovirus captured in the cell		1
2	CryoET structures of immature HIV Gag reveal a complete six-helix bundle and stabilizing small molecules distinct from IP6		1
1	Meiotic budding yeast assemble bundled triple helices but not ladders		3