

# Peijun Zhang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8044573/peijun-zhang-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Mature HIV-1 capsid structure by cryo-electron microscopy and all-atom molecular dynamics. <i>Nature</i> , <b>2013</b> , 497, 643-6	50.4	549
79	Chiral templating of self-assembling nanostructures by circularly polarized light. <i>Nature Materials</i> , <b>2015</b> , 14, 66-72	27	251
78	Structural convergence between Cryo-EM and NMR reveals intersubunit interactions critical for HIV-1 capsid function. <i>Cell</i> , <b>2009</b> , 139, 780-90	56.2	215
77	Three-dimensional reconstruction of dynamin in the constricted state. <i>Nature Cell Biology</i> , <b>2001</b> , 3, 922-6	23.4	207
76	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> , <b>2007</b> , 104, 3777-81	11.5	148
75	Peptide-Directed Assembly of Single-Helical Gold Nanoparticle Superstructures Exhibiting Intense Chiroptical Activity. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 13655-13663	16.4	110
74	emClarity: software for high-resolution cryo-electron tomography and subtomogram averaging. <i>Nature Methods</i> , <b>2018</b> , 15, 955-961	21.6	110
73	Cyclophilin A stabilizes the HIV-1 capsid through a novel non-canonical binding site. <i>Nature Communications</i> , <b>2016</b> , 7, 10714	17.4	94
72	Differentiation and Characterization of Excitatory and Inhibitory Synapses by Cryo-electron Tomography and Correlative Microscopy. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 1493-1510	6.6	89
71	Terminal supraparticle assemblies from similarly charged protein molecules and nanoparticles. <i>Nature Communications</i> , <b>2014</b> , 5, 3593	17.4	81
70	Structural insight into HIV-1 restriction by MxB. <i>Cell Host and Microbe</i> , <b>2014</b> , 16, 627-638	23.4	80
69	CryoEM and computer simulations reveal a novel kinase conformational switch in bacterial chemotaxis signaling. <i>ELife</i> , <b>2015</b> , 4,	8.9	74
68	Direct visualization of HIV-1 with correlative live-cell microscopy and cryo-electron tomography. <i>Structure</i> , <b>2011</b> , 19, 1573-81	5.2	74
67	Self-assembly of nanoparticles into biomimetic capsid-like nanoshells. <i>Nature Chemistry</i> , <b>2017</b> , 9, 287-294	17.6	71
66	Rhesus TRIM5 $\alpha$ disrupts the HIV-1 capsid at the inter-hexamer interfaces. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002009	10.9	70
65	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> , <b>2008</b> , 105, 16555-60	11.5	69
64	Dynamic allostery governs cyclophilin A-HIV capsid interplay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14617-22	11.5	66

63	The Architecture of Inactivated SARS-CoV-2 with Postfusion Spikes Revealed by Cryo-EM and Cryo-ET. <i>Structure</i> , <b>2020</b> , 28, 1218-1224.e4	5.2	62
62	Structural insight into HIV-1 capsid recognition by rhesus TRIM5 $\alpha$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 18372-7	11.5	56
61	3D structure determination of native mammalian cells using cryo-FIB and cryo-electron tomography. <i>Journal of Structural Biology</i> , <b>2012</b> , 180, 318-26	3.4	56
60	Correlative cryo-electron tomography and optical microscopy of cells. <i>Current Opinion in Structural Biology</i> , <b>2013</b> , 23, 763-70	8.1	53
59	The self-assembling camptothecin-tocopherol prodrug: An effective approach for formulating camptothecin. <i>Biomaterials</i> , <b>2015</b> , 62, 176-87	15.6	51
58	Electron tomography of degenerating neurons in mice with abnormal regulation of iron metabolism. <i>Journal of Structural Biology</i> , <b>2005</b> , 150, 144-53	3.4	51
57	Machining protein microcrystals for structure determination by electron diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9569-9573	11.5	48
56	Native-like SARS-CoV-2 Spike Glycoprotein Expressed by ChAdOx1 nCoV-19/AZD1222 Vaccine. <i>ACS Central Science</i> , <b>2021</b> , 7, 594-602	16.8	47
55	Assembly of Gold Nanoparticles into Chiral Superstructures Driven by Circularly Polarized Light. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11739-11744	16.4	46
54	Quenching protein dynamics interferes with HIV capsid maturation. <i>Nature Communications</i> , <b>2017</b> , 8, 1779	17.4	42
53	Advances in cryo-electron tomography and subtomogram averaging and classification. <i>Current Opinion in Structural Biology</i> , <b>2019</b> , 58, 249-258	8.1	41
52	CryoEM structure of MxB reveals a novel oligomerization interface critical for HIV restriction. <i>Science Advances</i> , <b>2017</b> , 3, e1701264	14.3	38
51	Three-Dimensional Analysis of Mitochondrial Crista Ultrastructure in a Patient with Leigh Syndrome by In Situ Cryoelectron Tomography. <i>iScience</i> , <b>2018</b> , 6, 83-91	6.1	36
50	CryoEM Structure Refinement by Integrating NMR Chemical Shifts with Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 3853-3863	3.4	34
49	Protease cleavage leads to formation of mature trimer interface in HIV-1 capsid. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002886	7.6	33
48	Structure and mechanism of bactericidal mammalian perforin-2, an ancient agent of innate immunity. <i>Science Advances</i> , <b>2020</b> , 6, eaax8286	14.3	32
47	In vitro protease cleavage and computer simulations reveal the HIV-1 capsid maturation pathway. <i>Nature Communications</i> , <b>2016</b> , 7, 13689	17.4	30
46	Controlled bacterial lysis for electron tomography of native cell membranes. <i>Structure</i> , <b>2014</b> , 22, 1875-1882	18.2	26

45	Low-dose phase retrieval of biological specimens using cryo-electron ptychography. <i>Nature Communications</i> , <b>2020</b> , 11, 2773	17.4	25
44	Truncated CPSF6 Forms Higher-Order Complexes That Bind and Disrupt HIV-1 Capsid. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	25
43	Intrinsic curvature of the HIV-1 CA hexamer underlies capsid topology and interaction with cyclophilin A. <i>Nature Structural and Molecular Biology</i> , <b>2020</b> , 27, 855-862	17.6	25
42	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> , <b>2014</b> , 25, 3942-53	3.5	24
41	Correlative multi-scale cryo-imaging unveils SARS-CoV-2 assembly and egress. <i>Nature Communications</i> , <b>2021</b> , 12, 4629	17.4	24
40	A prodrug micellar carrier assembled from polymers with pendant farnesyl thiosalicylic acid moieties for improved delivery of paclitaxel. <i>Acta Biomaterialia</i> , <b>2016</b> , 43, 282-291	10.8	24
39	Structure and dynamics of the E. coli chemotaxis core signaling complex by cryo-electron tomography and molecular simulations. <i>Communications Biology</i> , <b>2020</b> , 3, 24	6.7	16
38	REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. <i>Nature Methods</i> , <b>2021</b> , 18, 1418-1422	21.6	16
37	CryoEM-based hybrid modeling approaches for structure determination. <i>Current Opinion in Microbiology</i> , <b>2018</b> , 43, 14-23	7.9	16
36	Assembly intermediates of orthoreovirus captured in the cell. <i>Nature Communications</i> , <b>2020</b> , 11, 4445	17.4	13
35	Native-like SARS-CoV-2 spike glycoprotein expressed by ChAdOx1 nCoV-19/AZD1222 vaccine <b>2021</b> ,		13
34	Probing the biogenesis pathway and dynamics of thylakoid membranes. <i>Nature Communications</i> , <b>2021</b> , 12, 3475	17.4	12
33	AutoCLEM: An Automated Workflow for Correlative Live-Cell Fluorescence Microscopy and Cryo-Electron Tomography. <i>Scientific Reports</i> , <b>2019</b> , 9, 19207	4.9	12
32	Correlative microscopy for 3D structural analysis of dynamic interactions. <i>Journal of Visualized Experiments</i> , <b>2013</b> ,	1.6	11
31	Serial cryoFIB/SEM Reveals Cytoarchitectural Disruptions in Leigh Syndrome Patient Cells. <i>Structure</i> , <b>2021</b> , 29, 82-87.e3	5.2	10
30	The cryo-EM structure of the SNX-BAR Mvp1 tetramer. <i>Nature Communications</i> , <b>2020</b> , 11, 1506	17.4	9
29	Cytoplasmic CPSF6 Regulates HIV-1 Capsid Trafficking and Infection in a Cyclophilin A-Dependent Manner. <i>MBio</i> , <b>2021</b> , 12,	7.8	9
28	Structures of the fungal dynamin-related protein Vps1 reveal a unique, open helical architecture. <i>Journal of Cell Biology</i> , <b>2018</b> , 217, 3608-3624	7.3	8

27	Correlative fluorescence and electron microscopy. <i>Current Protocols in Cytometry</i> , <b>2014</b> , 70, 12.36.1-10	3.6	7
26	Tubular crystals and helical arrays: structural determination of HIV-1 capsid assemblies using iterative helical real-space reconstruction. <i>Methods in Molecular Biology</i> , <b>2013</b> , 955, 381-99	1.4	7
25	Electron tomography of bacterial chemotaxis receptor assemblies. <i>Methods in Cell Biology</i> , <b>2007</b> , 79, 373-84	1.8	6
24	The molecular basis of regulation of bacterial capsule assembly by Wzc. <i>Nature Communications</i> , <b>2021</b> , 12, 4349	17.4	6
23	Structure of HIV-1 capsid assemblies by cryo-electron microscopy and iterative helical real-space reconstruction. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	5
22	A structural view of the SARS-CoV-2 virus and its assembly.. <i>Current Opinion in Virology</i> , <b>2021</b> , 52, 123-134	3.5	5
21	SARS-CoV-2 Assembly and Egress Pathway Revealed by Correlative Multi-modal Multi-scale Cryo-imaging <b>2020</b> ,		5
20	CryoET structures of immature HIV Gag reveal six-helix bundle. <i>Communications Biology</i> , <b>2021</b> , 4, 481	6.7	5
19	Visualizing HIV-1 Capsid and Its Interactions with Antivirals and Host Factors. <i>Viruses</i> , <b>2021</b> , 13,	6.2	5
18	Gold Superstructures: Size-Controlled Peptide-Directed Synthesis of Hollow Spherical Gold Nanoparticle Superstructures (Small 14/2011). <i>Small</i> , <b>2011</b> , 7, 1938-1938	11	3
17	High-resolution in situ structure determination by cryo-electron tomography and subtomogram averaging using emClarity.. <i>Nature Protocols</i> , <b>2022</b> ,	18.8	3
16	Meiotic budding yeast assemble bundled triple helices but not ladders		3
15	Author response: CryoEM and computer simulations reveal a novel kinase conformational switch in bacterial chemotaxis signaling <b>2015</b> ,		2
14	HIV-1 Maturation <b>2013</b> , 153-166		2
13	Structure of native HIV-1 cores and their interactions with IP6 and CypA. <i>Science Advances</i> , <b>2021</b> , 7, eabj5715	5.15	1
12	High resolution in situ structural determination of heterogeneous specimen		1
11	Assembly intermediates of orthoreovirus captured in the cell		1
10	CryoET structures of immature HIV Gag reveal a complete six-helix bundle and stabilizing small molecules distinct from IP6		1

9	Correlative Multi-scale Cryo-imaging Unveils SARS-CoV-2 Assembly and Egress <b>2021</b> ,		1
8	Purification and Characterization of MxB. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2159, 55-65	1.4	1
7	Structural Analysis of Retrovirus Assembly and Maturation.. <i>Viruses</i> , <b>2021</b> , 14,	6.2	1
6	Analysis of Viruses in the Cellular Context by Electron Tomography <b>2021</b> , 242-247		0
5	Studying bacterial chemosensory array with CryoEM. <i>Biochemical Society Transactions</i> , <b>2021</b> , 49, 2081-2089	9.9	0
4	CryoEM structure of the super-constricted two-start dynamin 1 filament. <i>Nature Communications</i> , <b>2021</b> , 12, 5393	17.4	0
3	CryoET Data Collection and Subtomogram Averaging Using emClarity. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 3140-3140	0.5	
2	Structural Studies of Dynamin Tubular Crystals by Cryo-Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>1999</b> , 5, 1024-1025	0.5	
1	Ptychographic Single Particle Analysis for Biological Science. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 190-192	0.5	