

Ning Gao

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

7,402
citations

76196

40
h-index

64668

79
g-index

97
all docs

97
docs citations

97
times ranked

13026
citing authors

#	ARTICLE	IF	CITATIONS
1	Potent Neutralizing Antibodies against SARS-CoV-2 Identified by High-Throughput Single-Cell Sequencing of Convalescent Patients' B Cells. <i>Cell</i> , 2020, 182, 73-84.e16.	13.5	1,139
2	Architecture of the mammalian mechanosensitive Piezo1 channel. <i>Nature</i> , 2015, 527, 64-69.	13.7	363
3	Ligand-triggered allosteric ADP release primes a plant NLR complex. <i>Science</i> , 2019, 364, .	6.0	334
4	The architecture of the mammalian respirasome. <i>Nature</i> , 2016, 537, 639-643.	13.7	311
5	The crystal structure of Cpf1 in complex with CRISPR RNA. <i>Nature</i> , 2016, 532, 522-526.	13.7	300
6	Controlling Assembly of Paired Gold Clusters within Apoferritin Nanoreactor for in Vivo Kidney Targeting and Biomedical Imaging. <i>Journal of the American Chemical Society</i> , 2011, 133, 8617-8624.	6.6	258
7	Structurally Resolved SARS-CoV-2 Antibody Shows High Efficacy in Severely Infected Hamsters and Provides a Potent Cocktail Pairing Strategy. <i>Cell</i> , 2020, 183, 1013-1023.e13.	13.5	227
8	Structure of a Pancreatic ATP-Sensitive Potassium Channel. <i>Cell</i> , 2017, 168, 101-110.e10.	13.5	221
9	Structural basis of assembly of the human T cell receptor-CD3 complex. <i>Nature</i> , 2019, 573, 546-552.	13.7	218
10	Structure of the eukaryotic MCM complex at 3.8 Å.... <i>Nature</i> , 2015, 524, 186-191.	13.7	207
11	The process of mRNA-tRNA translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19671-19678.	3.3	198
12	Diverse roles of assembly factors revealed by structures of late nuclear pre-60S ribosomes. <i>Nature</i> , 2016, 534, 133-137.	13.7	193
13	Crystal structure and biochemical analyses reveal Beclin 1 as a novel membrane binding protein. <i>Cell Research</i> , 2012, 22, 473-489.	5.7	172
14	Kinesin 1 Drives Autolysosome Tubulation. <i>Developmental Cell</i> , 2016, 37, 326-336.	3.1	129
15	Structural insights into the TRIM family of ubiquitin E3 ligases. <i>Cell Research</i> , 2014, 24, 762-765.	5.7	118
16	Mechanism for the Disassembly of the Posttermination Complex Inferred from Cryo-EM Studies. <i>Molecular Cell</i> , 2005, 18, 663-674.	4.5	117
17	CapZ regulates autophagosomal membrane shaping by promoting actin assembly inside the isolation membrane. <i>Nature Cell Biology</i> , 2015, 17, 1112-1123.	4.6	115
18	Structural and Functional Insights into the Mode of Action of a Universally Conserved Obg GTPase. <i>PLoS Biology</i> , 2014, 12, e1001866.	2.6	108

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19	Structure of the origin recognition complex bound to DNA replication origin. <i>Nature</i> , 2018, 559, 217-222.	13.7	107
20	Trifunctional cross-linker for mapping protein-protein interaction networks and comparing protein conformational states. <i>ELife</i> , 2016, 5, .	2.8	105
21	An anti-CRISPR protein disables type V Cas12a by acetylation. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 308-314.	3.6	104
22	Structural snapshot of cytoplasmic pre-60S ribosomal particles bound by Nmd3, Lsg1, Tif6 and Reh1. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 214-220.	3.6	94
23	Structure of the RSC complex bound to the nucleosome. <i>Science</i> , 2019, 366, 838-843.	6.0	92
24	HflX is a ribosome-splitting factor rescuing stalled ribosomes under stress conditions. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 906-913.	3.6	88
25	Structural insights into immunoglobulin M. <i>Science</i> , 2020, 367, 1014-1017.	6.0	88
26	Open-ringed structure of the Cdt1-Mcm2-7 complex as a precursor of the MCM double hexamer. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 300-308.	3.6	87
27	Structures of the ISWI-nucleosome complex reveal a conserved mechanism of chromatin remodeling. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 258-266.	3.6	75
28	Mechanisms of ribosome stalling by SecM at multiple elongation steps. <i>ELife</i> , 2015, 4, .	2.8	73
29	Dissecting the in vivo assembly of the 30S ribosomal subunit reveals the role of RimM and general features of the assembly process. <i>Nucleic Acids Research</i> , 2013, 41, 2609-2620.	6.5	72
30	Cryo-EM Structure and Assembly of an Extracellular Contractile Injection System. <i>Cell</i> , 2019, 177, 370-383.e15.	13.5	68
31	Structure, function and pharmacology of human itch receptor complexes. <i>Nature</i> , 2021, 600, 164-169.	13.7	67
32	Alternate binding modes of anti-CRISPR viral suppressors AcrF1/2 to Csy surveillance complex revealed by cryo-EM structures. <i>Cell Research</i> , 2017, 27, 853-864.	5.7	64
33	Disome-seq reveals widespread ribosome collisions that promote cotranslational protein folding. <i>Genome Biology</i> , 2021, 22, 16.	3.8	63
34	Structural basis for interaction of a cotranslational chaperone with the eukaryotic ribosome. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 1042-1046.	3.6	61
35	Structural insight into the mechanism of energy transfer in cyanobacterial phycobilisomes. <i>Nature Communications</i> , 2021, 12, 5497.	5.8	59
36	Structural basis for the function of a small GTPase RsgA on the 30S ribosomal subunit maturation revealed by cryoelectron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13100-13105.	3.3	57

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37	Structural and functional insights into the tetrameric photosystem I from heterocyst-forming cyanobacteria. <i>Nature Plants</i> , 2019, 5, 1087-1097.	4.7	57
38	Cryo-EM structures of the late-stage assembly intermediates of the bacterial 50S ribosomal subunit. <i>Nucleic Acids Research</i> , 2013, 41, 7073-7083.	6.5	56
39	Structure of the substrate-engaged SecA-SecY protein translocation machine. <i>Nature Communications</i> , 2019, 10, 2872.	5.8	55
40	Unique Roles of the Non-identical MCM Subunits in DNA Replication Licensing. <i>Molecular Cell</i> , 2017, 67, 168-179.	4.5	51
41	Specific Interaction between EF-G and RRF and Its Implication for GTP-Dependent Ribosome Splitting into Subunits. <i>Journal of Molecular Biology</i> , 2007, 374, 1345-1358.	2.0	49
42	Chaperonin-GroEL as a Smart Hydrophobic Drug Delivery and Tumor Targeting Molecular Machine for Tumor Therapy. <i>Nano Letters</i> , 2018, 18, 921-928.	4.5	44
43	Structural snapshots of human pre-60S ribosomal particles before and after nuclear export. <i>Nature Communications</i> , 2020, 11, 3542.	5.8	44
44	Structural insights into TSC complex assembly and GAP activity on Rheb. <i>Nature Communications</i> , 2021, 12, 339.	5.8	44
45	Mechanistic insights into the alternative translation termination by ArfA and RF2. <i>Nature</i> , 2017, 541, 550-553.	13.7	43
46	Cryo-EM structure of human mitochondrial trifunctional protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7039-7044.	3.3	42
47	Cryo-EM structures of human pannexin 1 channel. <i>Cell Research</i> , 2020, 30, 449-451.	5.7	41
48	Increasing the Depth of Mass-Spectrometry-Based Structural Analysis of Protein Complexes through the Use of Multiple Cross-Linkers. <i>Analytical Chemistry</i> , 2016, 88, 4461-4469.	3.2	40
49	Cryo-EM structures of the mammalian endo-lysosomal TRPML1 channel elucidate the combined regulation mechanism. <i>Protein and Cell</i> , 2017, 8, 834-847.	4.8	39
50	Structural insights into the function of a unique tandem GTPase EngA in bacterial ribosome assembly. <i>Nucleic Acids Research</i> , 2014, 42, 13430-13439.	6.5	38
51	Structural insights into secretory immunoglobulin A and its interaction with a pneumococcal adhesin. <i>Cell Research</i> , 2020, 30, 602-609.	5.7	35
52	Cooperative transport mechanism of human monocarboxylate transporter 2. <i>Nature Communications</i> , 2020, 11, 2429.	5.8	33
53	Fine-Tuned H-Ferritin Nanocage with Multiple Gold Clusters as Near-Infrared Kidney Specific Targeting Nanoprobe. <i>Bioconjugate Chemistry</i> , 2015, 26, 193-196.	1.8	30
54	Structural Dynamics of the MecA-ClpC Complex. <i>Journal of Biological Chemistry</i> , 2013, 288, 17597-17608.	1.6	28

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55	Loss of a single methylation in 23S rRNA delays 50S assembly at multiple late stages and impairs translation initiation and elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15609-15619.	3.3	27
56	Structural insights into the assembly of the 30S ribosomal subunit in vivo: functional role of S5 and location of the 17S rRNA precursor sequence. <i>Protein and Cell</i> , 2014, 5, 394-407.	4.8	26
57	Ribosome Profiling Reveals Genome-wide Cellular Translational Regulation upon Heat Stress in <i>Escherichia coli</i> . <i>Genomics, Proteomics and Bioinformatics</i> , 2017, 15, 324-330.	3.0	26
58	Cryo-EM structures of human GMPPAâ€“GMPPB complex reveal how cells maintain GDP-mannose homeostasis. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 1-12.	3.6	26
59	Coupling of 5S RNP rotation with maturation of functional centers during large ribosomal subunit assembly. <i>Nature Communications</i> , 2020, 11, 3751.	5.8	24
60	Structural insights into the membrane microdomain organization by SPFH family proteins. <i>Cell Research</i> , 2022, 32, 176-189.	5.7	24
61	Cryo-EM structures of the 80S ribosomes from human parasites <i>Trichomonas vaginalis</i> and <i>Toxoplasma gondii</i> . <i>Cell Research</i> , 2017, 27, 1275-1288.	5.7	23
62	EF4 disengages the peptidyl-tRNA CCA end and facilitates back-translocation on the 70S ribosome. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 125-131.	3.6	21
63	Structural insights into assembly of the ribosomal nascent polypeptide exit tunnel. <i>Nature Communications</i> , 2020, 11, 5111.	5.8	21
64	Transcription shapes DNA replication initiation to preserve genome integrity. <i>Genome Biology</i> , 2021, 22, 176.	3.8	20
65	The N-terminal extension of yeast ribosomal protein L8 is involved in two major remodeling events during late nuclear stages of 60S ribosomal subunit assembly. <i>Rna</i> , 2016, 22, 1386-1399.	1.6	18
66	Atomic modeling of the ITS2 ribosome assembly subcomplex from cryoâ€“EM together with mass spectrometryâ€“identified proteinâ€“protein crosslinks. <i>Protein Science</i> , 2017, 26, 103-112.	3.1	18
67	Structural remodeling of ribosome associated Hsp40-Hsp70 chaperones during co-translational folding. <i>Nature Communications</i> , 2022, 13, .	5.8	17
68	Cryo-EM structure of <i>Mycobacterium smegmatis</i> ribosome reveals two unidentified ribosomal proteins close to the functional centers. <i>Protein and Cell</i> , 2017, 9, 384-388.	4.8	16
69	N-terminal signal peptides facilitate the engineering of PVC complex as a potent protein delivery system. <i>Science Advances</i> , 2022, 8, eabm2343.	4.7	16
70	Noc4L-Mediated Ribosome Biogenesis Controls Activation of Regulatory and Conventional T Cells. <i>Cell Reports</i> , 2019, 27, 1205-1220.e4.	2.9	15
71	VHUT-cryo-FIB, a method to fabricate frozen hydrated lamellae from tissue specimens for in situ cryo-electron tomography. <i>Journal of Structural Biology</i> , 2021, 213, 107763.	1.3	15
72	Structural Insight into the MCM double hexamer activation by Dbf4-Cdc7 kinase. <i>Nature Communications</i> , 2022, 13, 1396.	5.8	15

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73	A binding-block ion selective mechanism revealed by a Na/K selective channel. <i>Protein and Cell</i> , 2018, 9, 629-639.	4.8	14
74	Insights into remodeling events during eukaryotic large ribosomal subunit assembly provided by high resolution cryo-EM structures. <i>RNA Biology</i> , 2017, 14, 1306-1313.	1.5	13
75	New insights into the enzymatic role of EF-G in ribosome recycling. <i>Nucleic Acids Research</i> , 2015, 43, gkv995.	6.5	12
76	Characterization of Photorhabdus Virulence Cassette as a causative agent in the emerging pathogen <i>Photorhabdus asymbiotica</i> . <i>Science China Life Sciences</i> , 2022, 65, 618-630.	2.3	12
77	A library of RNA bridges. , 2006, 2, 231-232.		9
78	Engineering and functional analysis of yeast with a monotypic 40S ribosome subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	9
79	Structural dynamics of the yeast Shwachman-Diamond syndrome protein (Sdo1) on the ribosome and its implication in the 60S subunit maturation. <i>Protein and Cell</i> , 2016, 7, 187-200.	4.8	8
80	Ribosomal protein eL39 is important for maturation of the nascent polypeptide exit tunnel and proper protein folding during translation. <i>Nucleic Acids Research</i> , 2022, 50, 6453-6473.	6.5	8
81	Cryo-EM structure of <i>Mycobacterium tuberculosis</i> 50S ribosomal subunit bound with clarithromycin reveals dynamic and specific interactions with macrolides. <i>Emerging Microbes and Infections</i> , 2022, 11, 293-305.	3.0	5
82	Structural insight into the assembly and conformational activation of human origin recognition complex. <i>Cell Discovery</i> , 2020, 6, 88.	3.1	3
83	Structural insights into how GlcNAc-1-phosphotransferase directs lysosomal protein transport. <i>Journal of Biological Chemistry</i> , 2022, 298, 101702.	1.6	3
84	LAF: a new XML encoding and indexing strategy for keyword-based XML search. <i>Concurrency Computation Practice and Experience</i> , 2013, 25, 1604-1621.	1.4	2
85	XDist: an effective XML keyword search system with re-ranking model based on keyword distribution. <i>Science China Information Sciences</i> , 2014, 57, 1-17.	2.7	1
86	Toward a Cryo-Em Structure of the Ribosome Bound to BipA. <i>Biophysical Journal</i> , 2012, 102, 69a-70a.	0.2	0
87	The Cryo-EM Structure of the Ribosome Bound to BipA. <i>Biophysical Journal</i> , 2014, 106, 492a.	0.2	0
88	The process of mRNA-tRNA translocation. <i>journal of hand surgery Asian-Pacific volume</i> , The, 2018, , 405-412.	0.2	0