

Kaiming Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,455
citations

257450

24
h-index

254184

43
g-index

64
all docs

64
docs citations

64
times ranked

3295
citing authors

#	ARTICLE	IF	CITATIONS
1	Designer nanoscale DNA assemblies programmed from the top down. <i>Science</i> , 2016, 352, 1534-1534.	12.6	500
2	Measurement of atom resolvability in cryo-EM maps with Q-scores. <i>Nature Methods</i> , 2020, 17, 328-334.	19.0	230
3	A Single Immunization with Spike-Functionalized Ferritin Vaccines Elicits Neutralizing Antibody Responses against SARS-CoV-2 in Mice. <i>ACS Central Science</i> , 2021, 7, 183-199.	11.3	134
4	Accelerated cryo-EM-guided determination of three-dimensional RNA-only structures. <i>Nature Methods</i> , 2020, 17, 699-707.	19.0	119
5	Cryo-EM and antisense targeting of the 28-kDa frameshift stimulation element from the SARS-CoV-2 RNA genome. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 747-754.	8.2	91
6	Cryo-EM structure of a 40-kDa SAM-IV riboswitch RNA at 3.7-Å resolution. <i>Nature Communications</i> , 2019, 10, 5511.	12.8	90
7	Ultra-thermostable RNA nanoparticles for solubilizing and high-yield loading of paclitaxel for breast cancer therapy. <i>Nature Communications</i> , 2020, 11, 972.	12.8	86
8	Automated Sequence Design of 3D Polyhedral Wireframe DNA Origami with Honeycomb Edges. <i>ACS Nano</i> , 2019, 13, 2083-2093.	14.6	77
9	Cryo-EM Structures of Human Drosha and DGCR8 in Complex with Primary MicroRNA. <i>Molecular Cell</i> , 2020, 78, 411-422.e4.	9.7	75
10	Cryo-EM model validation recommendations based on outcomes of the 2019 EMDDataResource challenge. <i>Nature Methods</i> , 2021, 18, 156-164.	19.0	73
11	Controllable Self-Assembly of RNA Tetrahedrons with Precise Shape and Size for Cancer Targeting. <i>Advanced Materials</i> , 2016, 28, 7501-7507.	21.0	70
12	Resolving individual atoms of protein complex by cryo-electron microscopy. <i>Cell Research</i> , 2020, 30, 1136-1139.	12.0	69
13	Cryo-EM structures of full-length Tetrahymena ribozyme at 3.1-Å resolution. <i>Nature</i> , 2021, 596, 603-607.	27.8	59
14	A Novel Mechanism for Small Heat Shock Proteins to Function as Molecular Chaperones. <i>Scientific Reports</i> , 2015, 5, 8811.	3.3	56
15	Fabrication of RNA 3D Nanoprisms for Loading and Protection of Small RNAs and Model Drugs. <i>Advanced Materials</i> , 2016, 28, 10079-10087.	21.0	54
16	Cryo-EM advances in RNA structure determination. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 58.	17.1	54
17	Structure of the 30-kDa HIV-1 RNA Dimerization Signal by a Hybrid Cryo-EM, NMR, and Molecular Dynamics Approach. <i>Structure</i> , 2018, 26, 490-498.e3.	3.3	52
18	Structural basis of amino acid surveillance by higher-order tRNA-mRNA interactions. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 1094-1105.	8.2	52

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19	Structure of human immunoproteasome with a reversible and noncompetitive inhibitor that selectively inhibits activated lymphocytes. <i>Nature Communications</i> , 2017, 8, 1692.	12.8	45
20	A Small Heat Shock Protein Enables <i>Escherichia coli</i> To Grow at a Lethal Temperature of 50°C Conceivably by Maintaining Cell Envelope Integrity. <i>Journal of Bacteriology</i> , 2014, 196, 2004-2011.	2.2	43
21	Mapping the catalytic conformations of an assembly-line polyketide synthase module. <i>Science</i> , 2021, 374, 729-734.	12.6	41
22	Coupling of ssRNA cleavage with DNase activity in type III-A CRISPR-Csm revealed by cryo-EM and biochemistry. <i>Cell Research</i> , 2019, 29, 305-312.	12.0	40
23	Inhibition mechanisms of AcrF9, AcrF8, and AcrF6 against type I-F CRISPR-Cas complex revealed by cryo-EM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7176-7182.	7.1	35
24	Cryo-EM structures of <i>Helicobacter pylori</i> vacuolating cytotoxin A oligomeric assemblies at near-atomic resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6800-6805.	7.1	33
25	Photo-controlled release of paclitaxel and model drugs from RNA pyramids. <i>Nano Research</i> , 2019, 12, 41-48.	10.4	32
26	Structure of <i>Calcarisporiella thermophila</i> Hsp104 Disaggregase that Antagonizes Diverse Proteotoxic Misfolding Events. <i>Structure</i> , 2019, 27, 449-463.e7.	3.3	29
27	Structure of the G protein chaperone and guanine nucleotide exchange factor Ric-8A bound to G α 1. <i>Nature Communications</i> , 2020, 11, 1077.	12.8	18
28	The molecular architecture of dihydropyridine receptor/L-type Ca ²⁺ channel complex. <i>Scientific Reports</i> , 2015, 5, 8370.	3.3	14
29	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, .	7.1	13
30	Molecular basis for ATPase-powered substrate translocation by the Lon AAA+ protease. <i>Journal of Biological Chemistry</i> , 2021, 297, 101239.	3.4	12
31	A 3.4-Å cryo-electron microscopy structure of the human coronavirus spike trimer computationally derived from vitrified NL63 virus particles. <i>QRB Discovery</i> , 2020, 1, e11.	1.6	10
32	Planar 2D wireframe DNA origami. <i>Science Advances</i> , 2022, 8, .	10.3	10
33	Processive cleavage of substrate at individual proteolytic active sites of the Lon protease complex. <i>Science Advances</i> , 2021, 7, eabj9537.	10.3	9
34	A prototype protein nanocage minimized from carboxysomes with gated oxygen permeability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	9
35	RNA nanotechnology to build a dodecahedral genome of single-stranded RNA virus. <i>RNA Biology</i> , 2021, 18, 2390-2400.	3.1	8
36	Complete three-dimensional structures of the Lon protease translocating a protein substrate. <i>Science Advances</i> , 2021, 7, eabj7835.	10.3	7

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37	Cryo-EM, Protein Engineering, and Simulation Enable the Development of Peptide Therapeutics against Acute Myeloid Leukemia. <i>ACS Central Science</i> , 2022, 8, 214-222.	11.3	7
38	Bacteriophage Twort protein Gp168 is a $\hat{\nu}^2$ -clamp inhibitor by occupying the DNA sliding channel. <i>Nucleic Acids Research</i> , 2021, 49, 11367-11378.	14.5	6
39	The Role of Magnetoelastic Field Related to Underlayers on Magnetic Properties of FeCo Thin Films. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 2917-2920.	2.1	5
40	3D RNA nanocage for encapsulation and shielding of hydrophobic biomolecules to improve the in vivo biodistribution. <i>Nano Research</i> , 2020, 13, 3241-3247.	10.4	4
41	Bacteriophage protein PEIP is a potent <i>Bacillus subtilis</i> enolase inhibitor. <i>Cell Reports</i> , 2022, 40, 111026.	6.4	4
42	Regulation of reversible conformational change, size switching, and immunomodulation of RNA nanocubes. <i>Rna</i> , 2021, 27, 971-980.	3.5	2
43	Structure of the Anthrax Protective Antigen D425A Dominant Negative Mutant Reveals a Stalled Intermediate State of Pore Maturation. <i>Journal of Molecular Biology</i> , 2022, 434, 167548.	4.2	2
44	The Function of Ile-X-Ile Motif in the Oligomerization and Chaperone-Like Activity of Small Heat Shock Protein AgsA at Room Temperature. <i>Protein Journal</i> , 2016, 35, 401-406.	1.6	0
45	Binding affinity analysis of the interaction between Homer EVH domain and ryanodine receptor with biosensors based on imaging ellipsometry. <i>Analytical Methods</i> , 2016, 8, 2936-2940.	2.7	0
46	Classification using diffraction patterns for single-particle analysis. <i>Ultramicroscopy</i> , 2016, 164, 46-50.	1.9	0
47	High Resolution Data Collection at S2C2, a National CryoEM Center. <i>Microscopy and Microanalysis</i> , 2021, 27, 1152-1154.	0.4	0
48	The structure of the complex of the cytoplasmic guanine nucleotide exchange factor Ric-8A bound to G $\hat{\nu}$ \pm i1. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, a175-a175.	0.1	0