

Gang Ren

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.

69
papers

2,052
citations

27
h-index

43
g-index

82
ext. papers

2,385
ext. citations

5.9
avg, IF

4.6
L-index

#	Paper	IF	Citations
69	Designed and biologically active protein lattices. <i>Nature Communications</i> , 2021 , 12, 3702	17.4	3
68	LoTToR: An Algorithm for Missing-Wedge Correction of the Low-Tilt Tomographic 3D Reconstruction of a Single-Molecule Structure. <i>Scientific Reports</i> , 2020 , 10, 10489	4.9	9
67	Discovery of Stable and Selective Antibody Mimetics from Combinatorial Libraries of Polyvalent, Loop-Functionalized Peptoid Nanosheets. <i>ACS Nano</i> , 2020 , 14, 185-195	16.7	29
66	Real-time observation of dynamic structure of liquid-vapor interface at nanometer resolution in electron irradiated sodium chloride crystals. <i>Scientific Reports</i> , 2020 , 10, 8596	4.9	2
65	Extended harmonic mapping connects the equations in classical, statistical, fluid, quantum physics and general relativity. <i>Scientific Reports</i> , 2020 , 10, 18281	4.9	
64	Allosteric regulation of lysosomal enzyme recognition by the cation-independent mannose 6-phosphate receptor. <i>Communications Biology</i> , 2020 , 3, 498	6.7	7
63	Single-molecule 3D imaging of human plasma intermediate-density lipoproteins reveals a polyhedral structure. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019 , 1864, 260-270	5.270	9
62	Single-Molecule 3D Images of "Hole-Hole" IgG1 Homodimers by Individual-Particle Electron Tomography. <i>Scientific Reports</i> , 2019 , 9, 8864	4.9	5
61	Optimized Negative-Staining Protocol for Lipid-Protein Interactions Investigated by Electron Microscopy. <i>Methods in Molecular Biology</i> , 2019 , 2003, 163-173	1.4	2
60	A DNA origami plasmonic sensor with environment-independent read-out. <i>Nano Research</i> , 2019 , 12, 2900-2907	2.907	2
59	Control of Amphiphile Self-Assembly via Bioinspired Metal Ion Coordination. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1409-1414	16.4	50
58	Three-dimensional structural dynamics of DNA origami Bennett linkages using individual-particle electron tomography. <i>Nature Communications</i> , 2018 , 9, 592	17.4	30
57	Effect of curcumin on amyloid-like aggregates generated from methionine-oxidized apolipoprotein A-I. <i>FEBS Open Bio</i> , 2018 , 8, 302-310	2.7	4
56	IgG Antibody 3D Structures and Dynamics. <i>Antibodies</i> , 2018 , 7,	7	23
55	Structural basis of the lipid transfer mechanism of phospholipid transfer protein (PLTP). <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018 , 1863, 1082-1094	5	7
54	An Algorithm for Enhancing the Image Contrast of Electron Tomography. <i>Scientific Reports</i> , 2018 , 8, 16711	1.19	2
53	Structural Plasticity of Neurexin 1 Implications for its Role as Synaptic Organizer. <i>Journal of Molecular Biology</i> , 2018 , 430, 4325-4343	6.5	8

52	A facile method for isolation of recombinant human apolipoprotein A-I from E. coli. <i>Protein Expression and Purification</i> , 2017 , 134, 18-24	2	4
51	Assessing the mechanisms of cholesteryl ester transfer protein inhibitors. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017 , 1862, 1606-1617	5	11
50	Extended Theory of Harmonic Maps Connects General Relativity to Chaos and Quantum Mechanism. <i>Chaos, Solitons and Fractals</i> , 2017 , 103, 567-570	9.3	3
49	Structural and Functional Characterization of a Hole-Hole Homodimer Variant in a "Knob-Into-Hole" Bispecific Antibody. <i>Analytical Chemistry</i> , 2017 , 89, 13494-13501	7.8	21
48	Molecular Architecture of Contactin-associated Protein-like 2 (CNTNAP2) and Its Interaction with Contactin 2 (CNTN2). <i>Journal of Biological Chemistry</i> , 2016 , 291, 24133-24147	5.4	36
47	Three-dimensional structural dynamics and fluctuations of DNA-nanogold conjugates by individual-particle electron tomography. <i>Nature Communications</i> , 2016 , 7, 11083	17.4	27
46	Large Conformational Changes of Insertion 3 in Human Glycyl-tRNA Synthetase (hGlyRS) during Catalysis. <i>Journal of Biological Chemistry</i> , 2016 , 291, 5740-5752	5.4	9
45	Fully Mechanically Controlled Automated Electron Microscopic Tomography. <i>Scientific Reports</i> , 2016 , 6, 29231	4.9	9
44	Polyhedral 3D structure of human plasma very low density lipoproteins by individual particle cryo-electron tomography ¹ . <i>Journal of Lipid Research</i> , 2016 , 57, 1879-1888	6.3	18
43	Insights into the Tunnel Mechanism of Cholesteryl Ester Transfer Protein through All-atom Molecular Dynamics Simulations. <i>Journal of Biological Chemistry</i> , 2016 , 291, 14034-14044	5.4	17
42	3D Structural Fluctuation of IgG1 Antibody Revealed by Individual Particle Electron Tomography. <i>Scientific Reports</i> , 2015 , 5, 9803	4.9	69
41	Surface Density-Induced Pleating of a Lipid Monolayer Drives Nascent High-Density Lipoprotein Assembly. <i>Structure</i> , 2015 , 23, 1214-26	5.2	34
40	Electron Tomography: A Three-Dimensional Analytic Tool for Hard and Soft Materials Research. <i>Advanced Materials</i> , 2015 , 27, 5638-63	24	109
39	HDL surface lipids mediate CETP binding as revealed by electron microscopy and molecular dynamics simulation. <i>Scientific Reports</i> , 2015 , 5, 8741	4.9	39
38	Optimized negative staining: a high-throughput protocol for examining small and asymmetric protein structure by electron microscopy. <i>Journal of Visualized Experiments</i> , 2014 , e51087	1.6	39
37	Cationic lipid nanodisks as an siRNA delivery vehicle. <i>Biochemistry and Cell Biology</i> , 2014 , 92, 200-5	3.6	24
36	Calsyntenin-3 molecular architecture and interaction with neurexin 1. <i>Journal of Biological Chemistry</i> , 2014 , 289, 34530-42	5.4	36
35	Structural features of cholesteryl ester transfer protein: a molecular dynamics simulation study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 415-25	4.2	22

34	Optimized negative-staining protocol for examining lipid-protein interactions by electron microscopy. <i>Methods in Molecular Biology</i> , 2013 , 974, 111-8	1.4	3
33	Optimized negative-staining electron microscopy for lipoprotein studies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 2150-9	4	38
32	Peptide-conjugation induced conformational changes in human IgG1 observed by optimized negative-staining and individual-particle electron tomography. <i>Scientific Reports</i> , 2013 , 3, 1089	4.9	26
31	Asymmetric Small Protein Structure Determination by Individual Particle Electron Tomography. <i>Biophysical Journal</i> , 2012 , 102, 394a	2.9	2
30	Structural basis of transfer between lipoproteins by cholesteryl ester transfer protein. <i>Nature Chemical Biology</i> , 2012 , 8, 342-9	11.7	104
29	IPET and FETR: experimental approach for studying molecular structure dynamics by cryo-electron tomography of a single-molecule structure. <i>PLoS ONE</i> , 2012 , 7, e30249	3.7	53
28	High-Resolution Single-Molecule Structure Revealed by Electron Microscopy and Individual Particle Electron Tomography 2012 , 02,		4
27	. <i>Progress in Biochemistry and Biophysics</i> , 2012 , 39, 972-978		
26	Membrane-directed molecular assembly of the neuronal SNARE complex. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 31-7	5.6	23
25	Morphology and structure of lipoproteins revealed by an optimized negative-staining protocol of electron microscopy. <i>Journal of Lipid Research</i> , 2011 , 52, 175-84	6.3	82
24	Assessment of the validity of the double superhelix model for reconstituted high density lipoproteins: a combined computational-experimental approach. <i>Journal of Biological Chemistry</i> , 2010 , 285, 41161-71	5.4	50
23	Cholesteryl Ester Transfer Protein Penetrates Lipoproteins For Cholesteryl Ester Transfer. <i>Biophysical Journal</i> , 2010 , 98, 36a	2.9	2
22	Model of human low-density lipoprotein and bound receptor based on cryoEM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1059-64	11.5	59
21	An optimized negative-staining protocol of electron microscopy for apoE4 POPC lipoprotein. <i>Journal of Lipid Research</i> , 2010 , 51, 1228-36	6.3	47
20	Structure of membrane-associated neuronal SNARE complex: implication in neurotransmitter release. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 4161-5	5.6	24
19	Apolipoprotein AI tertiary structures determine stability and phospholipid-binding activity of discoidal high-density lipoprotein particles of different sizes. <i>Protein Science</i> , 2009 , 18, 921-35	6.3	30
18	Nanoscale 3D contour map of protein assembly within the astrocyte porosome complex. <i>Cell Biology International</i> , 2009 , 33, 224-9	4.5	9
17	EM 3D contour maps provide protein assembly at the nanoscale within the neuronal porosome complex. <i>Journal of Microscopy</i> , 2008 , 232, 106-11	1.9	32

16	Amphotericin B induces interdigitation of apolipoprotein stabilized nanodisk bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 303-12	3.8	20
15	The interplay between size, morphology, stability, and functionality of high-density lipoprotein subclasses. <i>Biochemistry</i> , 2008 , 47, 4770-9	3.2	76
14	Structure of apolipoprotein A-I in spherical high density lipoproteins of different sizes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12176-81	11.5	166
13	The Architecture of a Water-Selective Pore in the Lipid Bilayer Visualized by Electron Crystallography in Vitreous Ice. <i>Novartis Foundation Symposium</i> , 2008 , 33-50		3
12	Nanodisks derived from amphotericin B lipid complex. <i>Journal of Pharmaceutical Sciences</i> , 2008 , 97, 4425-32	5.9	21
11	Neuronal fusion pore assembly requires membrane cholesterol. <i>Cell Biology International</i> , 2007 , 31, 1301-1308	4.5	50
10	Single-particle image reconstruction of a tetramer of HIV integrase bound to DNA. <i>Journal of Molecular Biology</i> , 2007 , 366, 286-94	6.5	40
9	Model of the toxic complex of anthrax: responsive conformational changes in both the lethal factor and the protective antigen heptamer. <i>Protein Science</i> , 2006 , 15, 2190-200	6.3	21
8	Large-scale structural changes accompany binding of lethal factor to anthrax protective antigen: a cryo-electron microscopic study. <i>Structure</i> , 2004 , 12, 2059-66	5.2	22
7	Supine orientation of a murine MHC class I molecule on the membrane bilayer. <i>Current Biology</i> , 2004 , 14, 718-24	6.3	25
6	Conversion of a mechanosensitive channel protein from a membrane-embedded to a water-soluble form by covalent modification with amphiphiles. <i>Journal of Molecular Biology</i> , 2004 , 343, 747-58	6.5	13
5	Visualization of a water-selective pore by electron crystallography in vitreous ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1398-403	11.5	75
4	3D reconstruction from electron micrographs of tilted 2D crystal: structure of a human water channel 2000 , 4123, 224		
3	Three-dimensional fold of the human AQP1 water channel determined at 4 Å resolution by electron crystallography of two-dimensional crystals embedded in ice. <i>Journal of Molecular Biology</i> , 2000 , 301, 369-87	6.5	63
2	Polymorphism in the packing of aquaporin-1 tetramers in 2-D crystals. <i>Journal of Structural Biology</i> , 2000 , 130, 45-53	3.4	17
1	Robust Parameterization of Elastic and Absorptive Electron Atomic Scattering Factors. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1996 , 52, 257-276		124