

Gang Ren

List of Publications by Year in descending order

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74
papers

2,629
citations

159585

30
h-index

197818

49
g-index

82
all docs

82
docs citations

82
times ranked

3448
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of apolipoprotein A-I in spherical high density lipoproteins of different sizes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12176-12181.	7.1	182
2	Robust Parameterization of Elastic and Absorptive Electron Atomic Scattering Factors. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, 257-276.	0.3	170
3	Electron Tomography: A Three-Dimensional Analytic Tool for Hard and Soft Materials Research. Advanced Materials, 2015, 27, 5638-5663.	21.0	152
4	Structural basis of transfer between lipoproteins by cholesteryl ester transfer protein. Nature Chemical Biology, 2012, 8, 342-349.	8.0	123
5	3D Structural Fluctuation of IgG1 Antibody Revealed by Individual Particle Electron Tomography. Scientific Reports, 2015, 5, 9803.	3.3	104
6	Morphology and structure of lipoproteins revealed by an optimized negative-staining protocol of electron microscopy. Journal of Lipid Research, 2011, 52, 175-184.	4.2	101
7	The Interplay between Size, Morphology, Stability, and Functionality of High-Density Lipoprotein Subclasses. Biochemistry, 2008, 47, 4770-4779.	2.5	84
8	Visualization of a water-selective pore by electron crystallography in vitreous ice. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1398-1403.	7.1	79
9	IPET and FETR: Experimental Approach for Studying Molecular Structure Dynamics by Cryo-Electron Tomography of a Single-Molecule Structure. PLoS ONE, 2012, 7, e30249.	2.5	75
10	Three-dimensional fold of the human AQP1 water channel determined at 4 Å... resolution by electron crystallography of two-dimensional crystals embedded in ice 1 Edited by W. Baumeister. Journal of Molecular Biology, 2000, 301, 369-387.	4.2	72
11	Model of human low-density lipoprotein and bound receptor based on CryoEM. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1059-1064.	7.1	65
12	Control of Amphiphile Self-Assembly via Bioinspired Metal Ion Coordination. Journal of the American Chemical Society, 2018, 140, 1409-1414.	13.7	62
13	Optimized Negative Staining: a High-throughput Protocol for Examining Small and Asymmetric Protein Structure by Electron Microscopy. Journal of Visualized Experiments, 2014, , e51087.	0.3	60
14	Neuronal fusion pore assembly requires membrane cholesterol. Cell Biology International, 2007, 31, 1301-1308.	3.0	59
15	Assessment of the Validity of the Double Superhelix Model for Reconstituted High Density Lipoproteins. Journal of Biological Chemistry, 2010, 285, 41161-41171.	3.4	56
16	An optimized negative-staining protocol of electron microscopy for apoE4-POPC lipoprotein. Journal of Lipid Research, 2010, 51, 1228-1236.	4.2	52
17	Optimized negative-staining electron microscopy for lipoprotein studies. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2150-2159.	2.4	50
18	HDL surface lipids mediate CETP binding as revealed by electron microscopy and molecular dynamics simulation. Scientific Reports, 2015, 5, 8741.	3.3	48

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19	Three-dimensional structural dynamics of DNA origami Bennett linkages using individual-particle electron tomography. <i>Nature Communications</i> , 2018, 9, 592.	12.8	48
20	Calsyntenin-3 Molecular Architecture and Interaction with Neurexin 1 β . <i>Journal of Biological Chemistry</i> , 2014, 289, 34530-34542.	3.4	47
21	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.	3.4	47
22	Single-particle Image Reconstruction of a Tetramer of HIV Integrase Bound to DNA. <i>Journal of Molecular Biology</i> , 2007, 366, 286-294.	4.2	41
23	IgG Antibody 3D Structures and Dynamics. <i>Antibodies</i> , 2018, 7, 18.	2.5	39
24	Discovery of Stable and Selective Antibody Mimetics from Combinatorial Libraries of Polyvalent, Loop-Functionalized Peptoid Nanosheets. <i>ACS Nano</i> , 2020, 14, 185-195.	14.6	38
25	EM 3D contour maps provide protein assembly at the nanoscale within the neuronal porosome complex. <i>Journal of Microscopy</i> , 2008, 232, 106-111.	1.8	37
26	Surface Density-Induced Pleating of a Lipid Monolayer Drives Nascent High-Density Lipoprotein Assembly. <i>Structure</i> , 2015, 23, 1214-1226.	3.3	36
27	Three-dimensional structural dynamics and fluctuations of DNA-nanogold conjugates by individual-particle electron tomography. <i>Nature Communications</i> , 2016, 7, 11083.	12.8	36
28	Cationic lipid nanodisks as an siRNA delivery vehicle. <i>Biochemistry and Cell Biology</i> , 2014, 92, 200-205.	2.0	31
29	Structural and Functional Characterization of a Hole-in-Hole Homodimer Variant in a "Knob-Into-Hole" Bispecific Antibody. <i>Analytical Chemistry</i> , 2017, 89, 13494-13501.	6.5	31
30	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, 921-935.	7.6	30
31	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.	3.3	30
32	Supine Orientation of a Murine MHC Class I Molecule on the Membrane Bilayer. <i>Current Biology</i> , 2004, 14, 718-724.	3.9	29
33	Membrane-directed molecular assembly of the neuronal SNARE complex. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 31-37.	3.6	29
34	Structure of membrane-associated neuronal SNARE complex: implication in neurotransmitter release. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 4161-4165.	3.6	27
35	Polyhedral 3D structure of human plasma very low density lipoproteins by individual particle cryo-electron tomography. <i>Journal of Lipid Research</i> , 2016, 57, 1879-1888.	4.2	26
36	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.	3.3	26

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37	Large-Scale Structural Changes Accompany Binding of Lethal Factor to Anthrax Protective Antigen. <i>Structure</i> , 2004, 12, 2059-2066.	3.3	25
38	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.	3.4	25
39	Designed and biologically active protein lattices. <i>Nature Communications</i> , 2021, 12, 3702.	12.8	25
40	Structural features of cholesteryl ester transfer protein: A molecular dynamics simulation study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 415-425.	2.6	24
41	Nanodisks Derived from Amphotericin B Lipid Complex. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 4425-4432.	3.3	23
42	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, 2190-2200.	7.6	22
43	Amphotericin B induces interdigitation of apolipoprotein stabilized nanodisk bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 303-312.	2.6	20
44	Allosteric regulation of lysosomal enzyme recognition by the cation-independent mannose 6-phosphate receptor. <i>Communications Biology</i> , 2020, 3, 498.	4.4	20
45	Fully Mechanically Controlled Automated Electron Microscopic Tomography. <i>Scientific Reports</i> , 2016, 6, 29231.	3.3	19
46	Polymorphism in the Packing of Aquaporin-1 Tetramers in 2-D Crystals. <i>Journal of Structural Biology</i> , 2000, 130, 45-53.	2.8	18
47	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.	2.4	17
48	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, 747-758.	4.2	15
49	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.	2.4	15
50	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.	2.4	15
51	Large Conformational Changes of Insertion 3 in Human Glycyl-tRNA Synthetase (hGlyRS) during Catalysis. <i>Journal of Biological Chemistry</i> , 2016, 291, 5740-5752.	3.4	14
52	Nanoscale 3D contour map of protein assembly within the astrocyte porosome complex. <i>Cell Biology International</i> , 2009, 33, 224-229.	3.0	13
53	Single-Molecule 3D Images of "Hole-Hole" IgG1 Homodimers by Individual-Particle Electron Tomography. <i>Scientific Reports</i> , 2019, 9, 8864.	3.3	11
54	Structural Plasticity of Neurexin 1 β : Implications for its Role as Synaptic Organizer. <i>Journal of Molecular Biology</i> , 2018, 430, 4325-4343.	4.2	10

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55	Effect of curcumin on amyloid-like aggregates generated from methionine-oxidized apolipoprotein A-II. FEBS Open Bio, 2018, 8, 302-310.	2.3	9
56	An Algorithm for Enhancing the Image Contrast of Electron Tomography. Scientific Reports, 2018, 8, 16711.	3.3	9
57	Real-time observation of dynamic structure of liquid-vapor interface at nanometer resolution in electron irradiated sodium chloride crystals. Scientific Reports, 2020, 10, 8596.	3.3	6
58	Optimized Negative-Staining Protocol for Examining Lipid-Protein Interactions by Electron Microscopy. Methods in Molecular Biology, 2013, 974, 111-118.	0.9	5
59	Extended theory of harmonic maps connects general relativity to chaos and quantum mechanism. Chaos, Solitons and Fractals, 2017, 103, 567-570.	5.1	5
60	The Architecture of a Water-Selective Pore in the Lipid Bilayer Visualized by Electron Crystallography in Vitreous Ice. Novartis Foundation Symposium, 2008, , 33-50.	1.1	4
61	Asymmetric Small Protein Structure Determination by Individual Particle Electron Tomography. Biophysical Journal, 2012, 102, 394a.	0.5	4
62	A facile method for isolation of recombinant human apolipoprotein A-I from E. coli. Protein Expression and Purification, 2017, 134, 18-24.	1.3	4
63	Optimized Negative-Staining Protocol for Lipid-Protein Interactions Investigated by Electron Microscopy. Methods in Molecular Biology, 2019, 2003, 163-173.	0.9	4
64	High-Resolution Single-Molecule Structure Revealed by Electron Microscopy and Individual Particle Electron Tomography. , 2012, 02, .		4
65	Cholesteryl Ester Transfer Protein Penetrates Lipoproteins For Cholesteryl Ester Transfer. Biophysical Journal, 2010, 98, 36a.	0.5	2
66	A DNA origami plasmonic sensor with environment-independent read-out. Nano Research, 2019, 12, 2900-2907.	10.4	2
67	3D reconstruction from electron micrographs of tilted 2D crystal: structure of a human water channel. , 2000, 4123, 224.		0
68	Structure and Function of Cholesteryl Ester Transfer Protein in Cholesterol Transferring. Biophysical Journal, 2013, 104, 166a.	0.5	0
69	A 3-D Image of an Individual Protein. Biophysical Journal, 2013, 104, 176a.	0.5	0
70	Visualizing Biological Samples in Liquid Solution by Electron Microscopy. Biophysical Journal, 2014, 106, 598a.	0.5	0
71	Determination of the Dynamic Structures of Igg Antibody by Individual-Particle Electron Tomography. Biophysical Journal, 2014, 106, 251a.	0.5	0
72	Three Dimensional Dynamics and Fluctuations of DNA-Nanogold Dimers by Individual-Particle Electron Tomography. Biophysical Journal, 2016, 110, 184a.	0.5	0

#	ARTICLE	IF	CITATIONS
73	Extended harmonic mapping connects the equations in classical, statistical, fluid, quantum physics and general relativity. Scientific Reports, 2020, 10, 18281.	3.3	0
74	Title is missing!. Progress in Biochemistry and Biophysics, 2012, 39, 972-978.	0.3	0