Gang Ren

List of Publications by Year
in descending order

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		159585	197818
74	2,629	30	49
papers	citations	h-index	g-index

82	82	82	3448
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designed and biologically active protein lattices. Nature Communications, 2021, 12, 3702.	12.8	25
2	Discovery of Stable and Selective Antibody Mimetics from Combinatorial Libraries of Polyvalent, Loop-Functionalized Peptoid Nanosheets. ACS Nano, 2020, 14, 185-195.	14.6	38
3	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
4	Extended harmonic mapping connects the equations in classical, statistical, fluid, quantum physics and general relativity. Scientific Reports, 2020, 10, 18281.	3.3	0
5	Allosteric regulation of lysosomal enzyme recognition by the cation-independent mannose 6-phosphate receptor. Communications Biology, 2020, 3, 498.	4.4	20
6	LoTToR: An Algorithm for Missing-Wedge Correction of the Low-Tilt Tomographic 3D Reconstruction of a Single-Molecule Structure. Scientific Reports, 2020, 10, 10489.	3.3	26
7	A DNA origami plasmonic sensor with environment-independent read-out. Nano Research, 2019, 12, 2900-2907.	10.4	2
8	Single-molecule 3D imaging of human plasma intermediate-density lipoproteins reveals a polyhedral structure. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 260-270.	2.4	15
9	Single-Molecule 3D Images of â€œHole-Holeâ€•IgG1 Homodimers by Individual-Particle Electron Tomography. Scientific Reports, 2019, 9, 8864.	3.3	11
10	Optimized Negative-Staining Protocol for Lipidâ€“Protein Interactions Investigated by Electron Microscopy. Methods in Molecular Biology, 2019, 2003, 163-173.	0.9	4
11	Control of Amphiphile Self-Assembly via Bioinspired Metal Ion Coordination. Journal of the American Chemical Society, 2018, 140, 1409-1414.	13.7	62
12	Three-dimensional structural dynamics of DNA origami Bennett linkages using individual-particle electron tomography. Nature Communications, 2018, 9, 592.	12.8	48
13	Effect of curcumin on amyloidâ€like aggregates generated from methionineâ€oxidized apolipoprotein Aâ€I. FEBS Open Bio, 2018, 8, 302-310.	2.3	9
14	An Algorithm for Enhancing the Image Contrast of Electron Tomography. Scientific Reports, 2018, 8, 16711.	3.3	9
15	Structural Plasticity of Neurexin 1Î±: Implications for its Role as Synaptic Organizer. Journal of Molecular Biology, 2018, 430, 4325-4343.	4.2	10
16	IgG Antibody 3D Structures and Dynamics. Antibodies, 2018, 7, 18.	2.5	39
17	Structural basis of the lipid transfer mechanism of phospholipid transfer protein (PLTP). Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1082-1094.	2.4	17
18	A facile method for isolation of recombinant human apolipoprotein A-I from E.Âcoli. Protein Expression and Purification, 2017, 134, 18-24.	1.3	4

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19	Assessing the mechanisms of cholesteryl ester transfer protein inhibitors. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1606-1617.	2.4	15
20	Extended theory of harmonic maps connects general relativity to chaos and quantum mechanism. Chaos, Solitons and Fractals, 2017, 103, 567-570.	5.1	5
21	Structural and Functional Characterization of a Holeâ€"Hole Homodimer Variant in a â€œKnob-Into-Holeâ€• Bispecific Antibody. Analytical Chemistry, 2017, 89, 13494-13501.	6.5	31
22	Fully Mechanically Controlled Automated Electron Microscopic Tomography. Scientific Reports, 2016, 6, 29231.	3.3	19
23	Polyhedral 3D structure of human plasma very low density lipoproteins by individual particle cryo-electron tomography1. Journal of Lipid Research, 2016, 57, 1879-1888.	4.2	26
24	Three Dimensional Dynamics and Fluctuations of DNA-Nanogold Dimers by Individual-Particle Electron Tomography. Biophysical Journal, 2016, 110, 184a.	0.5	0
25	Insights into the Tunnel Mechanism of Cholesteryl Ester Transfer Protein through All-atom Molecular Dynamics Simulations. Journal of Biological Chemistry, 2016, 291, 14034-14044.	3.4	25
26	Molecular Architecture of Contactin-associated Protein-like 2 (CNTNAP2) and Its Interaction with Contactin 2 (CNTN2). Journal of Biological Chemistry, 2016, 291, 24133-24147.	3.4	47
27	Three-dimensional structural dynamics and fluctuations of DNA-nanogold conjugates by individual-particle electron tomography. Nature Communications, 2016, 7, 11083.	12.8	36
28	Large Conformational Changes of Insertion 3 in Human Glycyl-tRNA Synthetase (hGlyRS) during Catalysis. Journal of Biological Chemistry, 2016, 291, 5740-5752.	3.4	14
29	Electron Tomography: A Threeâ€Dimensional Analytic Tool for Hard and Soft Materials Research. Advanced Materials, 2015, 27, 5638-5663.	21.0	152
30	HDL surface lipids mediate CETP binding as revealed by electron microscopy and molecular dynamics simulation. Scientific Reports, 2015, 5, 8741.	3.3	48
31	3D Structural Fluctuation of IgG1 Antibody Revealed by Individual Particle Electron Tomography. Scientific Reports, 2015, 5, 9803.	3.3	104
32	Surface Density-Induced Pleating of a Lipid Monolayer Drives Nascent High-Density Lipoprotein Assembly. Structure, 2015, 23, 1214-1226.	3.3	36
33	Cationic lipid nanodisks as an siRNA delivery vehicle. Biochemistry and Cell Biology, 2014, 92, 200-205.	2.0	31
34	Calsyntenin-3 Molecular Architecture and Interaction with Neurexin 1Î±. Journal of Biological Chemistry, 2014, 289, 34530-34542.	3.4	47
35	Visualizing Biological Samples in Liquid Solution by Electron Microscopy. Biophysical Journal, 2014, 106, 598a.	0.5	0
36	Determination of the Dynamic Structures of Igg Antibody by Individual-Particle Electron Tomography. Biophysical Journal, 2014, 106, 251a.	0.5	0

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37	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
38	Structure and Function of Cholesteryl Ester Transfer Protein in Cholesterol Transferring. Biophysical Journal, 2013, 104, 166a.	0.5	0
39	Structural features of cholesteryl ester transfer protein: A molecular dynamics simulation study. Proteins: Structure, Function and Bioinformatics, 2013, 81, 415-425.	2.6	24
40	A 3-D Image of an Individual Protein. Biophysical Journal, 2013, 104, 176a.	0.5	0
41	Optimized Negative-Staining Protocol for Examining Lipid-Protein Interactions by Electron Microscopy. Methods in Molecular Biology, 2013, 974, 111-118.	0.9	5
42	Optimized negative-staining electron microscopy for lipoprotein studies. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2150-2159.	2.4	50
43	Peptide-Conjugation Induced Conformational Changes in Human IgG1 Observed by Optimized Negative-Staining and Individual-Particle Electron Tomography. Scientific Reports, 2013, 3, 1089.	3.3	30
44	Asymmetric Small Protein Structure Determination by Individual Particle Electron Tomography. Biophysical Journal, 2012, 102, 394a.	0.5	4
45	Structural basis of transfer between lipoproteins by cholesteryl ester transfer protein. Nature Chemical Biology, 2012, 8, 342-349.	8.0	123
46	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
47	High-Resolution Single-Molecule Structure Revealed by Electron Microscopy and Individual Particle Electron Tomography. , 2012, 02, .		4
48	Title is missing!. Progress in Biochemistry and Biophysics, 2012, 39, 972-978.	0.3	0
49	Membraneâ€directed molecular assembly of the neuronal SNARE complex. Journal of Cellular and Molecular Medicine, 2011, 15, 31-37.	3.6	29
50	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
51	An optimized negative-staining protocol of electron microscopy for apoE4â€¢POPC lipoprotein. Journal of Lipid Research, 2010, 51, 1228-1236.	4.2	52
52	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
53	Cholesteryl Ester Transfer Protein Penetrates Lipoproteins For Cholesteryl Ester Transfer. Biophysical Journal, 2010, 98, 36a.	0.5	2
54	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

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55	Structure of membraneâ€associated neuronal SNARE complex: implication in neurotransmitter release. Journal of Cellular and Molecular Medicine, 2009, 13, 4161-4165.	3.6	27
56	Apolipoprotein AI tertiary structures determine stability and phospholipidâ€binding activity of discoidal highâ€density lipoprotein particles of different sizes. Protein Science, 2009, 18, 921-935.	7.6	30
57	Nanoscale 3D contour map of protein assembly within the astrocyte porosome complex. Cell Biology International, 2009, 33, 224-229.	3.0	13
58	Nanodisks Derived from Amphotericin B Lipid Complex. Journal of Pharmaceutical Sciences, 2008, 97, 4425-4432.	3.3	23
59	EM 3D contour maps provide protein assembly at the nanoscale within the neuronal porosome complex. Journal of Microscopy, 2008, 232, 106-111.	1.8	37
60	Amphotericin B induces interdigitation of apolipoprotein stabilized nanodisk bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 303-312.	2.6	20
61	The Interplay between Size, Morphology, Stability, and Functionality of High-Density Lipoprotein Subclasses. Biochemistry, 2008, 47, 4770-4779.	2.5	84
62	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
63	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
64	Single-particle Image Reconstruction of a Tetramer of HIV Integrase Bound to DNA. Journal of Molecular Biology, 2007, 366, 286-294.	4.2	41
65	Neuronal fusion pore assembly requires membrane cholesterol. Cell Biology International, 2007, 31, 1301-1308.	3.0	59
66	Model of the toxic complex of anthrax: Responsive conformational changes in both the lethal factor and the protective antigen heptamer. Protein Science, 2006, 15, 2190-2200.	7.6	22
67	Large-Scale Structural Changes Accompany Binding of Lethal Factor to Anthrax Protective Antigen. Structure, 2004, 12, 2059-2066.	3.3	25
68	Supine Orientation of a Murine MHC Class I Molecule on the Membrane Bilayer. Current Biology, 2004, 14, 718-724.	3.9	29
69	Conversion of a Mechanosensitive Channel Protein from a Membrane-embedded to a Water-soluble Form by Covalent Modification with Amphiphiles. Journal of Molecular Biology, 2004, 343, 747-758.	4.2	15
70	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
71	3D reconstruction from electron micrographs of tilted 2D crystal: structure of a human water channel. , 2000, 4123, 224.		0
72	Three-dimensional fold of the human AQP1 water channel determined at 4 Ã... resolution by electron crystallography of two-dimensional crystals embedded in ice 1 1Edited by W. Baumeister. Journal of Molecular Biology, 2000, 301, 369-387.	4.2	72

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73	Polymorphism in the Packing of Aquaporin-1 Tetramers in 2-D Crystals. Journal of Structural Biology, 2000, 130, 45-53.	2.8	18
74	Robust Parameterization of Elastic and Absorptive Electron Atomic Scattering Factors. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, 257-276.	0.3	170