

Lei Zhang

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

88
papers

14,291
citations

26
h-index

109
g-index

109
ext. papers

18,464
ext. citations

7.9
avg, IF

6.5
L-index

#	Paper	IF	Citations
88	Opposite effects of Zn addition on the creep resistance at low and high temperatures for as-cast Mg-15Gd alloy. <i>Scripta Materialia</i> , 2022 , 213, 114598	5.6	0
87	Tethered peptide activation mechanism of the adhesion GPCRs ADGRG2 and ADGRG4.. <i>Nature</i> , 2022 ,	50.4	5
86	Novel 2D CaCl crystals with metallicity, room-temperature ferromagnetism, heterojunction, piezoelectricity-like property and monovalent calcium ions. <i>National Science Review</i> , 2021 , 8, nwa274	10.8	4
85	Plasma-activated water: An alternative disinfectant for S protein inactivation to prevent SARS-CoV-2 infection. <i>Chemical Engineering Journal</i> , 2021 , 421, 127742	14.7	44
84	Janus Vitrification of Droplet via Cold Leidenfrost Phenomenon. <i>Small</i> , 2021 , 17, e2007325	11	3
83	Mechanism of Glycans Modulating Cholesteryl Ester Transfer Protein: Unveiled by Molecular Dynamics Simulation. <i>Journal of Chemical Information and Modeling</i> , 2021 ,	6.1	2
82	Catalytic Reduction of Organic Dyes by Multilayered Graphene Platelets and Silver Nanoparticles in Polyacrylic Acid Hydrogel. <i>Materials</i> , 2021 , 14,	3.5	1
81	Cold Atmospheric-Pressure Plasma Caused Protein Damage in Methicillin-Resistant Cells in Biofilms. <i>Microorganisms</i> , 2021 , 9,	4.9	2
80	Dynamic Behavior of Biomaterials Uncovered by Cryo-electron Microscopy. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2021 , 24, 1007-1016	1.3	
79	Selective transport properties of graphene oxide membranes for various cations observed in situ using quartz crystal microbalance. <i>Applied Surface Science</i> , 2021 , 541, 148502	6.7	0
78	Multicompartment Nanoparticles Bearing Hydrophilic/Hydrophobic Subdomains by Self-Assembly of Star Polymers in Aqueous Solution. <i>Macromolecules</i> , 2021 , 54, 35-43	5.5	7
77	Molecular insights into the binding variance of the SARS-CoV-2 spike with human, cat and dog ACE2 proteins. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13752-13759	3.6	1
76	Ligand recognition and allosteric regulation of DRD1-Gs signaling complexes. <i>Cell</i> , 2021 , 184, 943-956.e18	36.2	24
75	Molecular Insights into the Recruiting Between UCP2 and DDX5/UBAP2L in the Metabolic Plasticity of Non-Small-Cell Lung Cancer. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 3978-3987	6.1	1
74	Receptor Dynamics in Molecular Recognition by Cryo-EM and Molecular Simulation. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2021 , 24, 1696-1701	1.3	
73	Bacteriophage Trypt protein Gp168 is a λ clamp inhibitor by occupying the DNA sliding channel. <i>Nucleic Acids Research</i> , 2021 , 49, 11367-11378	20.1	0
72	Rapid Structure-Based Screening Informs Potential Agents for Coronavirus Disease (COVID-19) Outbreak. <i>Chinese Physics Letters</i> , 2020 , 37, 058701	1.8	3

71	Visualizing Newly Synthesized RNA by Bioorthogonal Labeling-Primed DNA Amplification. <i>Analytical Chemistry</i> , 2020 , 92, 8444-8449	7.8	4
70	Anti-toll-like receptor 2 antibody ameliorates hepatic injury, inflammation, fibrosis and steatosis in obesity-related metabolic disorder rats via regulating MAPK and NF- κ B pathways. <i>International Immunopharmacology</i> , 2020 , 82, 106368	5.8	9
69	A pneumonia outbreak associated with a new coronavirus of probable bat origin. <i>Nature</i> , 2020 , 579, 270-273	30.7	11540
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	Selectivity mechanism of magnesium and calcium in cation-binding pocket structures of phosphotyrosine. <i>Physical Review E</i> , 2020 , 101, 022410	2.4	0
66	Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909616	15.6	16
65	Web buckle-mediated room-temperature ferromagnetism in strained MoS ₂ thin films. <i>Applied Physics Letters</i> , 2020 , 116, 012401	3.4	4
64	Single-vesicle imaging quantifies calcium μ s regulation of nanoscale vesicle clustering mediated by Eysynuclein. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 38	7.7	4
63	CD147-spike protein is a novel route for SARS-CoV-2 infection to host cells. <i>Signal Transduction and Targeted Therapy</i> , 2020 , 5, 283	21	399
62	Bioelectronics-Related 2D Materials Beyond Graphene: Fundamentals, Properties, and Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2003732	15.6	14
61	Computational identification of potential chemoprophylactic agents according to dynamic behavior of peroxisome proliferator-activated receptor gamma.. <i>RSC Advances</i> , 2020 , 11, 147-159	3.7	2
60	Mechanism of Single-Photon Upconversion Photoluminescence in All-Inorganic Perovskite Nanocrystals: The Role of Self-Trapped Excitons. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5989-5996	6.4	21
59	Super-Resolution Visualization of Self-Assembling Helical Fibers Using Aggregation-Induced Emission Luminogens in Stimulated Emission Depletion Nanoscopy. <i>ACS Nano</i> , 2019 , 13, 11863-11873	16.7	25
58	Synthesis, properties, and applications of large-scale two-dimensional materials by polymer-assisted deposition. <i>Journal of Semiconductors</i> , 2019 , 40, 061003	2.3	4
57	Vacancy-Induced Synaptic Behavior in 2D WS Nanosheet-Based Memristor for Low-Power Neuromorphic Computing. <i>Small</i> , 2019 , 15, e1901423	11	142
56	Contribution of biomimetic collagen-ligand interaction to intrafibrillar mineralization. <i>Science Advances</i> , 2019 , 5, eaav9075	14.3	42
55	Large plasticity in magnesium mediated by pyramidal dislocations. <i>Science</i> , 2019 , 365, 73-75	33.3	123
54	Active DNA unwinding and transport by a membrane-adapted helicase nanopore. <i>Nature Communications</i> , 2019 , 10, 5083	17.4	16

53	Chemically Controlled Helical Polymorphism in Protein Tubes by Selective Modulation of Supramolecular Interactions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19448-19457	16.4	19
52	Biaxial Strain-Mediated Room Temperature Ferromagnetism of ReS ₂ Web Buckles. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900814	6.4	5
51	Watching Dynamic Self-Assembly of Web Buckles in Strained MoS ₂ Thin Films. <i>ACS Nano</i> , 2019 , 13, 3106-3116	11.6	17
50	Molecular packing control enables excellent performance and mechanical property of blade-cast all-polymer solar cells. <i>Nano Energy</i> , 2019 , 59, 277-284	17.1	39
49	Single-chain tethered nanoparticles with tunable softness: scalable synthesis and unique self-assembly behavior. <i>Polymer Chemistry</i> , 2019 , 10, 6183-6190	4.9	4
48	Heterogeneous oxidization of graphene nanosheets damages membrane. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	12
47	Mutation-induced spatial differences in neuraminidase structure and sensitivity to neuraminidase inhibitors. <i>Chinese Physics B</i> , 2018 , 27, 018704	1.2	4
46	Lipoprotein in cholesterol transport: Highlights and recent insights into its structural basis and functional mechanism. <i>Chinese Physics B</i> , 2018 , 27, 028702	1.2	0
45	Bio-macromolecular dynamic structures and functions, illustrated with DNA, antibody, and lipoprotein. <i>Chinese Physics B</i> , 2018 , 27, 028708	1.2	1
44	On the origin of the synergy between the Pt nanoparticles and MnO nanosheets in Wonton-like 3D nanozyme oxidase mimics. <i>Biosensors and Bioelectronics</i> , 2018 , 121, 159-165	11.8	58
43	Role of glycans in cholesteryl ester transfer protein revealed by molecular dynamics simulation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86, 882-891	4.2	2
42	Interface Colloidal Deposition of Nanoparticle Wire Structures. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800098	3.1	
41	Mechanism of Virus Inactivation by Cold Atmospheric-Pressure Plasma and Plasma-Activated Water. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	102
40	Binding profiles of cholesteryl ester transfer protein with current inhibitors: a look at mechanism and drawback. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 2567-2580	3.6	5
39	In situ-prepared homogeneous supramolecular organic framework drug delivery systems (sof-DDSs): Overcoming cancer multidrug resistance and controlled release. <i>Chinese Chemical Letters</i> , 2017 , 28, 798-806	8.1	43
38	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
37	Trends in mica-mica adhesion reflect the influence of molecular details on long-range dispersion forces underlying aggregation and coalignment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7537-7542	11.5	39
36	Membrane Fusion Involved in Neurotransmission: Glimpse from Electron Microscope and Molecular Simulation. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 168	6.1	9

35	Uncoupling protein 2 downregulation by hypoxia through repression of peroxisome proliferator-activated receptor β promotes chemoresistance of non-small cell lung cancer. <i>Oncotarget</i> , 2017 , 8, 8083-8094	3.3	23
34	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
33	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
32	Novel binding patterns between ganoderic acids and neuraminidase: Insights from docking, molecular dynamics and MM/PBSA studies. <i>Journal of Molecular Graphics and Modelling</i> , 2016 , 65, 27-34	2.8	21
31	Fully Mechanically Controlled Automated Electron Microscopic Tomography. <i>Scientific Reports</i> , 2016 , 6, 29231	4.9	9
30	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
29	3D Structural Fluctuation of IgG1 Antibody Revealed by Individual Particle Electron Tomography. <i>Scientific Reports</i> , 2015 , 5, 9803	4.9	69
28	Surface Density-Induced Pleating of a Lipid Monolayer Drives Nascent High-Density Lipoprotein Assembly. <i>Structure</i> , 2015 , 23, 1214-26	5.2	34
27	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
26	A model of lipid-free apolipoprotein A-I revealed by iterative molecular dynamics simulation. <i>PLoS ONE</i> , 2015 , 10, e0120233	3.7	6
25	Hierarchical assembly of plasmonic nanostructures using virus capsid scaffolds on DNA origami templates. <i>ACS Nano</i> , 2014 , 8, 7896-904	16.7	26
24	Calsyntenin-3 molecular architecture and interaction with neurexin 1 \square <i>Journal of Biological Chemistry</i> , 2014 , 289, 34530-42	5.4	36
23	Toward a single-layer two-dimensional honeycomb supramolecular organic framework in water. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17913-8	16.4	287
22	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
21	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
20	Optimized negative-staining electron microscopy for lipoprotein studies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 2150-9	4	38
19	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
18	Asymmetric Small Protein Structure Determination by Individual Particle Electron Tomography. <i>Biophysical Journal</i> , 2012 , 102, 394a	2.9	2

17	Structural basis of transfer between lipoproteins by cholesteryl ester transfer protein. <i>Nature Chemical Biology</i> , 2012 , 8, 342-9	11.7	104
16	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
15	THE OPTIMAL CONFIGURATION OF GEL SHEET GOVERNED BY ITS CONCENTRATION. <i>International Journal of Modern Physics B</i> , 2012 , 26, 1250084	1.1	2
14	. <i>Progress in Biochemistry and Biophysics</i> , 2012 , 39, 972-978		
13	Membrane-directed molecular assembly of the neuronal SNARE complex. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 31-7	5.6	23
12	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
11	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
10	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
9	Spontaneously periodic wave generation in coupled excitable media. <i>Physical Review E</i> , 2009 , 79, 056213	2.4	3
8	Effect of optical phonons scattering on electronic current in metallic carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 385-390	2.3	4
7	Long-wavelength optical phonons in single-walled boron nitride nanotubes. <i>Physica B: Condensed Matter</i> , 2008 , 403, 4196-4201	2.8	2
6	Equilibrium conformation of polymer chains with noncircular cross section. <i>Physical Review E</i> , 2006 , 74, 032801	2.4	16
5	Magnetosubbands of semiconductor quantum wires with Rashba and Dresselhaus spin-orbit coupling. <i>Physical Review B</i> , 2006 , 73,	3.3	39
4	Lubricating bacteria model for the growth of bacterial colonies exposed to ultraviolet radiation. <i>Physical Review E</i> , 2005 , 72, 051913	2.4	2
3	Assignment of the chiralities of double-walled carbon nanotubes using two radial breathing modes. <i>Physical Review B</i> , 2004 , 70,	3.3	10
2	Structure-activity relationship studies of novel carbocyclic influenza neuraminidase inhibitors. <i>Journal of Medicinal Chemistry</i> , 1998 , 41, 2451-60	8.3	276
1	Structural Basis and Functional Mechanism of Lipoprotein in Cholesterol Transport		1