Lei Zhang

List of Publications by Year in descending order

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102	21,393	31	93
papers	citations	h-index	g-index
109	109	109	42497
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	A pneumonia outbreak associated with a new coronavirus of probable bat origin. Nature, 2020, 579, 270-273.	13.7	17,004
2	CD147-spike protein is a novel route for SARS-CoV-2 infection to host cells. Signal Transduction and Targeted Therapy, 2020, 5, 283.	7.1	806
3	Toward a Single-Layer Two-Dimensional Honeycomb Supramolecular Organic Framework in Water. Journal of the American Chemical Society, 2013, 135, 17913-17918.	6.6	349
4	Structureâ [^] Activity Relationship Studies of Novel Carbocyclic Influenza Neuraminidase Inhibitors. Journal of Medicinal Chemistry, 1998, 41, 2451-2460.	2.9	301
5	Large plasticity in magnesium mediated by pyramidal dislocations. Science, 2019, 365, 73-75.	6.0	264
6	Vacancyâ€Induced Synaptic Behavior in 2D WS ₂ Nanosheet–Based Memristor for Lowâ€Power Neuromorphic Computing. Small, 2019, 15, e1901423.	5.2	252
7	Mechanism of Virus Inactivation by Cold Atmospheric-Pressure Plasma and Plasma-Activated Water. Applied and Environmental Microbiology, 2018, 84, .	1.4	182
8	Structural basis of transfer between lipoproteins by cholesteryl ester transfer protein. Nature Chemical Biology, 2012, 8, 342-349.	3.9	123
9	Plasma-activated water: An alternative disinfectant for S protein inactivation to prevent SARS-CoV-2 infection. Chemical Engineering Journal, 2021, 421, 127742.	6.6	109
10	3D Structural Fluctuation of IgG1 Antibody Revealed by Individual Particle Electron Tomography. Scientific Reports, 2015, 5, 9803.	1.6	104
11	Morphology and structure of lipoproteins revealed by an optimized negative-staining protocol of electron microscopy. Journal of Lipid Research, 2011, 52, 175-184.	2.0	101
12	Ligand recognition and allosteric regulation of DRD1-Gs signaling complexes. Cell, 2021, 184, 943-956.e18.	13.5	94
13	On the origin of the synergy between the Pt nanoparticles and MnO2 nanosheets in Wonton-like 3D nanozyme oxidase mimics. Biosensors and Bioelectronics, 2018, 121, 159-165.	5.3	90
14	Contribution of biomimetic collagen-ligand interaction to intrafibrillar mineralization. Science Advances, 2019, 5, eaav9075.	4.7	79
15	IPET and FETR: Experimental Approach for Studying Molecular Structure Dynamics by Cryo-Electron Tomography of a Single-Molecule Structure. PLoS ONE, 2012, 7, e30249.	1.1	75
16	Tethered peptide activation mechanism of the adhesion GPCRs ADGRG2 and ADGRG4. Nature, 2022, 604, 771-778.	13.7	60
17	In situ-prepared homogeneous supramolecular organic framework drug delivery systems (sof-DDSs): Overcoming cancer multidrug resistance and controlled release. Chinese Chemical Letters, 2017, 28, 798-806.	4.8	57
18	Assessment of the Validity of the Double Superhelix Model for Reconstituted High Density Lipoproteins. Journal of Biological Chemistry, 2010, 285, 41161-41171.	1.6	56

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19	Trends in mica–mica adhesion reflect the influence of molecular details on long-range dispersion forces underlying aggregation and coalignment. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7537-7542.	3.3	56
20	An optimized negative-staining protocol of electron microscopy for apoE4•POPC lipoprotein. Journal of Lipid Research, 2010, 51, 1228-1236.	2.0	52
21	Optimized negative-staining electron microscopy for lipoprotein studies. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2150-2159.	1.1	50
22	HDL surface lipids mediate CETP binding as revealed by electron microscopy and molecular dynamics simulation. Scientific Reports, 2015, 5, 8741.	1.6	48
23	Magnetosubbands of semiconductor quantum wires with Rashba and Dresselhaus spin-orbit coupling. Physical Review B, 2006, 73, .	1.1	47
24	Calsyntenin-3 Molecular Architecture and Interaction with Neurexin $1\hat{l}_{\pm}$. Journal of Biological Chemistry, 2014, 289, 34530-34542.	1.6	47
25	Molecular Architecture of Contactin-associated Protein-like 2 (CNTNAP2) and Its Interaction with Contactin 2 (CNTN2). Journal of Biological Chemistry, 2016, 291, 24133-24147.	1.6	47
26	Molecular packing control enables excellent performance and mechanical property of blade-cast all-polymer solar cells. Nano Energy, 2019, 59, 277-284.	8.2	47
27	Super-Resolution Visualization of Self-Assembling Helical Fibers Using Aggregation-Induced Emission Luminogens in Stimulated Emission Depletion Nanoscopy. ACS Nano, 2019, 13, 11863-11873.	7.3	45
28	Bioelectronicsâ€Related 2D Materials Beyond Graphene: Fundamentals, Properties, and Applications. Advanced Functional Materials, 2020, 30, 2003732.	7.8	39
29	Surface Density-Induced Pleating of a Lipid Monolayer Drives Nascent High-Density Lipoprotein Assembly. Structure, 2015, 23, 1214-1226.	1.6	36
30	Three-dimensional structural dynamics and fluctuations of DNA-nanogold conjugates by individual-particle electron tomography. Nature Communications, 2016, 7, 11083.	5.8	36
31	Chemically Controlled Helical Polymorphism in Protein Tubes by Selective Modulation of Supramolecular Interactions. Journal of the American Chemical Society, 2019, 141, 19448-19457.	6.6	34
32	Mechanism of Single-Photon Upconversion Photoluminescence in All-Inorganic Perovskite Nanocrystals: The Role of Self-Trapped Excitons. Journal of Physical Chemistry Letters, 2019, 10, 5989-5996.	2.1	34
33	Hierarchical Assembly of Plasmonic Nanostructures Using Virus Capsid Scaffolds on DNA Origami Templates. ACS Nano, 2014, 8, 7896-7904.	7. 3	33
34	Peptide-Conjugation Induced Conformational Changes in Human IgG1 Observed by Optimized Negative-Staining and Individual-Particle Electron Tomography. Scientific Reports, 2013, 3, 1089.	1.6	30
35	Membraneâ€directed molecular assembly of the neuronal SNARE complex. Journal of Cellular and Molecular Medicine, 2011, 15, 31-37.	1.6	29
36	Ultrasensitive, Lowâ€Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. Advanced Functional Materials, 2020, 30, 1909616.	7.8	29

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37	Uncoupling protein 2 downregulation by hypoxia through repression of peroxisome proliferator-activated receptor \hat{I}^3 promotes chemoresistance of non-small cell lung cancer. Oncotarget, 2017, 8, 8083-8094.	0.8	29
38	LoTToR: An Algorithm for Missing-Wedge Correction of the Low-Tilt Tomographic 3D Reconstruction of a Single-Molecule Structure. Scientific Reports, 2020, 10, 10489.	1.6	26
39	Insights into the Tunnel Mechanism of Cholesteryl Ester Transfer Protein through All-atom Molecular Dynamics Simulations. Journal of Biological Chemistry, 2016, 291, 14034-14044.	1.6	25
40	Active DNA unwinding and transport by a membrane-adapted helicase nanopore. Nature Communications, 2019, 10, 5083.	5.8	25
41	Structural features of cholesteryl ester transfer protein: A molecular dynamics simulation study. Proteins: Structure, Function and Bioinformatics, 2013, 81, 415-425.	1.5	24
42	Novel binding patterns between ganoderic acids and neuraminidase: Insights from docking, molecular dynamics and MM/PBSA studies. Journal of Molecular Graphics and Modelling, 2016, 65, 27-34.	1.3	24
43	Watching Dynamic Self-Assembly of Web Buckles in Strained MoS ₂ Thin Films. ACS Nano, 2019, 13, 3106-3116.	7.3	24
44	Fully Mechanically Controlled Automated Electron Microscopic Tomography. Scientific Reports, 2016, 6, 29231.	1.6	19
45	Anti-toll-like receptor 2 antibody ameliorates hepatic injury, inflammation, fibrosis and steatosis in obesity-related metabolic disorder rats via regulating MAPK and NF-κB pathways. International Immunopharmacology, 2020, 82, 106368.	1.7	19
46	Equilibrium conformation of polymer chains with noncircular cross section. Physical Review E, 2006, 74, 032801.	0.8	18
47	Membrane Fusion Involved in Neurotransmission: Glimpse from Electron Microscope and Molecular Simulation. Frontiers in Molecular Neuroscience, 2017, 10, 168.	1.4	18
48	Opposite effects of Zn addition on the creep resistance at low and high temperatures for as-cast Mg-15Gd alloy. Scripta Materialia, 2022, 213, 114598.	2.6	17
49	Heterogeneous oxidization of graphene nanosheets damages membrane. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	16
50	Novel 2D CaCl crystals with metallicity, room-temperature ferromagnetism, heterojunction, piezoelectricity-like property and monovalent calcium ions. National Science Review, 2021, 8, nwaa274.	4.6	16
51	Assessing the mechanisms of cholesteryl ester transfer protein inhibitors. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1606-1617.	1.2	15
52	Web buckle-mediated room-temperature ferromagnetism in strained MoS2 thin films. Applied Physics Letters, 2020, 116, .	1.5	14
53	Multicompartment Nanoparticles Bearing Hydrophilic/Hydrophobic Subdomains by Self-Assembly of Star Polymers in Aqueous Solution. Macromolecules, 2021, 54, 35-43.	2.2	14
54	Cold Atmospheric-Pressure Plasma Caused Protein Damage in Methicillin-Resistant Staphylococcus aureus Cells in Biofilms. Microorganisms, 2021, 9, 1072.	1.6	12

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55	Rapid Structure-Based Screening Informs Potential Agents for Coronavirus Disease (COVID-19) Outbreak*. Chinese Physics Letters, 2020, 37, 058701.	1.3	11
56	Assignment of the chiralities of double-walled carbon nanotubes using two radial breathing modes. Physical Review B, 2004, 70, .	1.1	10
57	Biaxial Strainâ€Mediated Room Temperature Ferromagnetism of ReS ₂ Web Buckles. Advanced Electronic Materials, 2019, 5, 1900814.	2.6	10
58	Synthesis, properties, and applications of large-scale two-dimensional materials by polymer-assisted deposition. Journal of Semiconductors, 2019, 40, 061003.	2.0	9
59	Visualizing Newly Synthesized RNA by Bioorthogonal Labeling-Primed DNA Amplification. Analytical Chemistry, 2020, 92, 8444-8449.	3.2	8
60	Molecular Insights into the Recruiting Between UCP2 and DDX5/UBAP2L in the Metabolic Plasticity of Non-Small-Cell Lung Cancer. Journal of Chemical Information and Modeling, 2021, 61, 3978-3987.	2.5	8
61	Binding profiles of cholesterol ester transfer protein with current inhibitors: a look at mechanism and drawback. Journal of Biomolecular Structure and Dynamics, 2018, 36, 2567-2580.	2.0	7
62	Janus Vitrification of Droplet via Cold Leidenfrost Phenomenon. Small, 2021, 17, e2007325.	5.2	7
63	Mechanism of Glycans Modulating Cholesteryl Ester Transfer Protein: Unveiled by Molecular Dynamics Simulation. Journal of Chemical Information and Modeling, 2022, 62, 5246-5257.	2.5	7
64	A Model of Lipid-Free Apolipoprotein A-I Revealed by Iterative Molecular Dynamics Simulation. PLoS ONE, 2015, 10, e0120233.	1.1	7
65	Quartz Crystal Microbalance Humidity Sensors Based on Structured Graphene Oxide Membranes with Magnesium Ions: Design, Mechanism and Performance. Membranes, 2022, 12, 125.	1.4	7
66	Single-chain tethered nanoparticles with tunable softness: scalable synthesis and unique self-assembly behavior. Polymer Chemistry, 2019, 10, 6183-6190.	1.9	6
67	Single-vesicle imaging quantifies calcium's regulation of nanoscale vesicle clustering mediated by α-synuclein. Microsystems and Nanoengineering, 2020, 6, 38.	3.4	6
68	Bacteriophage Twort protein Gp168 is a \hat{l}^2 -clamp inhibitor by occupying the DNA sliding channel. Nucleic Acids Research, 2021, 49, 11367-11378.	6.5	6
69	Optimized Negative-Staining Protocol for Examining Lipid-Protein Interactions by Electron Microscopy. Methods in Molecular Biology, 2013, 974, 111-118.	0.4	5
70	Molecular insights into the binding variance of the SARS-CoV-2 spike with human, cat and dog ACE2 proteins. Physical Chemistry Chemical Physics, 2021, 23, 13752-13759.	1.3	5
71	Computational identification of potential chemoprophylactic agents according to dynamic behavior of peroxisome proliferator-activated receptor gamma. RSC Advances, 2021, 11, 147-159.	1.7	5
72	Understanding and Manipulating Helical Nanofilaments in Binary Systems with Achiral Dopants. Nano Letters, 2022, 22, 4569-4575.	4.5	5

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73	Effect of optical phonons scattering on electronic current in metallic carbon nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 385-390.	0.9	4
74	Asymmetric Small Protein Structure Determination by Individual Particle Electron Tomography. Biophysical Journal, 2012, 102, 394a.	0.2	4
75	Mutation-induced spatial differences in neuraminidase structure and sensitivity to neuraminidase inhibitors. Chinese Physics B, 2018, 27, 018704.	0.7	4
76	Role of glycans in cholesteryl ester transfer protein revealed by molecular dynamics simulation. Proteins: Structure, Function and Bioinformatics, 2018, 86, 882-891.	1.5	4
77	Catalytic Reduction of Organic Dyes by Multilayered Graphene Platelets and Silver Nanoparticles in Polyacrylic Acid Hydrogel. Materials, 2021, 14, 2274.	1.3	4
78	Long-wavelength optical phonons in single-walled boron nitride nanotubes. Physica B: Condensed Matter, 2008, 403, 4196-4201.	1.3	3
79	Spontaneously periodic wave generation in coupled excitable media. Physical Review E, 2009, 79, 056213.	0.8	3
80	Graphitic-like Hexagonal Phase of Alkali Halides in Quasi-Two-Dimensional Confined Space under Ambient Conditions. ACS Nano, 2022, 16, 2046-2053.	7.3	3
81	Lubricating bacteria model for the growth of bacterial colonies exposed to ultraviolet radiation. Physical Review E, 2005, 72, 051913.	0.8	2
82	THE OPTIMAL CONFIGURATION OF GEL SHEET GOVERNED BY ITS CONCENTRATION. International Journal of Modern Physics B, 2012, 26, 1250084.	1.0	2
83	Lipoprotein in cholesterol transport: Highlights and recent insights into its structural basis and functional mechanism. Chinese Physics B, 2018, 27, 028702.	0.7	2
84	Selectivity mechanism of magnesium and calcium in cation-binding pocket structures of phosphotyrosine. Physical Review E, 2020, 101, 022410.	0.8	2
85	TAB1 binding induced p38î± conformation change: an accelerated molecular dynamics simulation study. Physical Chemistry Chemical Physics, 2022, 24, 10506-10513.	1.3	2
86	Bio-macromolecular dynamic structures and functions, illustrated with DNA, antibody, and lipoprotein. Chinese Physics B, 2018, 27, 028708.	0.7	1
87	Selective transport properties of graphene oxide membranes for various cations observed in situ using quartz crystal microbalance. Applied Surface Science, 2021, 541, 148502.	3.1	1
88	Structural Basis and Functional Mechanism of Lipoprotein in Cholesterol Transport. , 0, , .		1
89	Sequence Matching between Hemagglutinin and Neuraminidase through Sequence Analysis Using Machine Learning. Viruses, 2022, 14, 469.	1.5	1
90	The rhombic honeycomb – a new mode of self-assembly in liquid crystalline soft matter. Chemical Communications, 2022, 58, 7054-7057.	2.2	1

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91	Organelle Interaction and Drug Discovery: Towards Correlative Nanoscopy and Molecular Dynamics Simulation. Frontiers in Pharmacology, 0, 13 , .	1.6	1
92	Structure and Function of Cholesteryl Ester Transfer Protein in Cholesterol Transferring. Biophysical Journal, 2013, 104, 166a.	0.2	0
93	A 3-D Image of an Individual Protein. Biophysical Journal, 2013, 104, 176a.	0.2	0
94	Visualizing Biological Samples in Liquid Solution by Electron Microscopy. Biophysical Journal, 2014, 106, 598a.	0.2	0
95	Determination of the Dynamic Structures of Igg Antibody by Individual-Particle Electron Tomography. Biophysical Journal, 2014, 106, 251a.	0.2	0
96	Determination of the Dynamic Structures of Nacent Discoidal High-Density Lipoprotein (HDL) Bound to Lecithin Cholesterol Acyltransferase (LCAT) and Paraoxonase $\hat{1}$ (PON1). Biophysical Journal, 2014, 106, 46a.	0.2	0
97	Three Dimensional Dynamics and Fluctuations of DNA-Nanogold Dimers by Individual-Particle Electron Tomography. Biophysical Journal, 2016, 110, 184a.	0.2	0
98	Interface Colloidal Deposition of Nanoparticle Wire Structures. Particle and Particle Systems Characterization, 2018, 35, 1800098.	1.2	0
99	Novel Potent Neutralizing Antibodies Revealed the Domain I of HCMV Glycoprotein B for Vaccine Design. SSRN Electronic Journal, 0, , .	0.4	0
100	Dynamic Behavior of Biomaterials Uncovered by Cryo-electron Microscopy. Combinatorial Chemistry and High Throughput Screening, 2021, 24, 1007-1016.	0.6	0
101	Receptor Dynamics in Molecular Recognition by Cryo-EM and Molecular Simulation. Combinatorial Chemistry and High Throughput Screening, 2021, 24, 1696-1701.	0.6	0
102	Title is missing!. Progress in Biochemistry and Biophysics, 2012, 39, 972-978.	0.3	0