

# Yun Luo

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,248  
citations

567281

15  
h-index

395702

33  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulations of Anionic Lipid Membranes: Development of Interaction-Specific Ion Parameters and Validation Using NMR Data. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10183-10192.	2.6	181
2	A mechanism for the activation of the mechanosensitive Piezo1 channel by the small molecule Yoda1. <i>Nature Communications</i> , 2019, 10, 4503.	12.8	136
3	Generalized scalable multiple copy algorithms for molecular dynamics simulations in NAMD. <i>Computer Physics Communications</i> , 2014, 185, 908-916.	7.5	115
4	Probing the gating mechanism of the mechanosensitive channel Piezo1 with the small molecule Yoda1. <i>Nature Communications</i> , 2018, 9, 2029.	12.8	104
5	UBE3A Regulates Synaptic Plasticity and Learning and Memory by Controlling SK2 Channel Endocytosis. <i>Cell Reports</i> , 2015, 12, 449-461.	6.4	101
6	Calculation of Free Energy Landscape in Multi-Dimensions with Hamiltonian-Exchange Umbrella Sampling on Petascale Supercomputer. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4672-4680.	5.3	89
7	Mechanism of gating by calcium in connexin hemichannels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7986-E7995.	7.1	75
8	PRMT1-mediated FLT3 arginine methylation promotes maintenance of FLT3-ITD+ acute myeloid leukemia. <i>Blood</i> , 2019, 134, 548-560.	1.4	58
9	Can Relative Binding Free Energy Predict Selectivity of Reversible Covalent Inhibitors?. <i>Journal of the American Chemical Society</i> , 2017, 139, 17945-17952.	13.7	44
10	Molecular Mechanism of Resveratrol's Lipid Membrane Protection. <i>Scientific Reports</i> , 2018, 8, 1587.	3.3	37
11	Ranking Reversible Covalent Drugs: From Free Energy Perturbation to Fragment Docking. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 2093-2102.	5.4	35
12	Crowding-induced opening of the mechanosensitive Piezo1 channel in silico. <i>Communications Biology</i> , 2021, 4, 84.	4.4	35
13	Robust Determination of Protein Allosteric Signaling Pathways. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2116-2126.	5.3	33
14	Targeting PRMT1-mediated FLT3 methylation disrupts maintenance of MLL-rearranged acute lymphoblastic leukemia. <i>Blood</i> , 2019, 134, 1257-1268.	1.4	30
15	Computational Studies of Molecular Permeation through Connexin26 Channels. <i>Biophysical Journal</i> , 2016, 110, 584-599.	0.5	17
16	Effects of bioactive constituents in the Traditional Chinese Medicinal formula Siâ€™Wuâ€™Tang on Nrf2 signaling and neoplastic cellular transformation. <i>Phytomedicine</i> , 2018, 40, 1-9.	5.3	17
17	Ginsenoside Rg1 prevents early diabetic retinopathy via reducing retinal ganglion cell layer and inner nuclear layer cell apoptosis in db/db mice. <i>Annals of Translational Medicine</i> , 2020, 8, 232-232.	1.7	17
18	Polymodal allosteric regulation of Type 1 Serine/Threonine Kinase Receptors via a conserved electrostatic lock. <i>PLoS Computational Biology</i> , 2017, 13, e1005711.	3.2	16

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19	The connexin26 human mutation N14K disrupts cytosolic intersubunit interactions and promotes channel opening. <i>Journal of General Physiology</i> , 2019, 151, 328-341.	1.9	16
20	Mechanism-Based and Computational-Driven Covalent Drug Design. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 5307-5311.	5.4	12
21	Uncovering Molecular Bases Underlying Bone Morphogenetic Protein Receptor Inhibitor Selectivity. <i>PLoS ONE</i> , 2015, 10, e0132221.	2.5	11
22	Ion Pairing and Dielectric Decrement in Glycosaminoglycan Brushes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2771-2780.	2.6	8
23	A novel voltage-clamp/dye uptake assay reveals saturable transport of molecules through CALHM1 and connexin channels. <i>Journal of General Physiology</i> , 2020, 152, .	1.9	8
24	PKA and Ube3a regulate SK2 channel trafficking to promote synaptic plasticity in hippocampus: Implications for Angelman Syndrome. <i>Scientific Reports</i> , 2020, 10, 9824.	3.3	7
25	Mechanical properties of anionic asymmetric bilayers from atomistic simulations. <i>Journal of Chemical Physics</i> , 2021, 154, 224701.	3.0	7
26	Insight into Molecular Mechanism for Activin A-Induced Bone Morphogenetic Protein Signaling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6498.	4.1	6
27	Alterations at Arg <sup>76</sup> of human connexin 46, a residue associated with cataract formation, cause loss of gap junction formation but preserve hemichannel function. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C623-C635.	4.6	5
28	Free energy and kinetics of cAMP permeation through connexin26 via applied voltage and milestoning. <i>Biophysical Journal</i> , 2021, 120, 2969-2983.	0.5	5
29	In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. <i>PLoS Computational Biology</i> , 2020, 16, e1007719.	3.2	5
30	Investigating Protein-Protein Allosteric Network using Current-Flow Scheme. <i>Journal of Computational Chemistry</i> , 2020, 41, 552-560.	3.3	3
31	Concepts, Practices, and Interactive Tutorial for Allosteric Network Analysis of Molecular Dynamics Simulations. <i>Methods in Molecular Biology</i> , 2021, 2302, 311-334.	0.9	2
32	Cancer Cell Metabolism Featuring Nrf2. <i>Current Drug Discovery Technologies</i> , 2020, 17, 263-271.	1.2	2
33	Ado-Trastuzumab Emtansine. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2015, , 203-223.	0.6	1
34	Resveratrol Protects Membranes from PLA1 and PLA2 Hydrolytic Attack. <i>Biophysical Journal</i> , 2018, 114, 259a.	0.5	1
35	Insights on Gating Functions of Cytosolic Domains of Connexin26 Hemichannels Revealed by a Human Pathogenic Mutation (N14K). <i>Biophysical Journal</i> , 2018, 114, 379a.	0.5	1
36	Targeting PRMT9 Suppresses Acute Myeloid Leukemia Maintenance. <i>Blood</i> , 2021, 138, 358-358.	1.4	1

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37	Computational Studies of Molecular Permeation through Connexin26 Channels. Biophysical Journal, 2014, 106, 556a.	0.5	0
38	Modeling the Structural Differences between Wild-Type and Polymorphic G Protein-Coupled Receptor Kinase 4 Gamma. Biophysical Journal, 2016, 110, 589a-590a.	0.5	0
39	Revealing Activation Mechanism of Alk2 Kinase Mutations in Fibrodysplasia Ossificans Progressiva (FOP). Biophysical Journal, 2016, 110, 206a.	0.5	0
40	A Molecular Dynamics Study of Michaelis Complex for Designing Selective Transition State Analog Inhibitors for Cysteine Protease calpain-2. Biophysical Journal, 2016, 110, 545a.	0.5	0
41	Using Current-Flow Scheme to Capture the Protein-Protein Binding Allostericity. Biophysical Journal, 2018, 114, 420a.	0.5	0
42	Structural Bases for Chemical and Mechanical Gating in the Piezo1 Channel. Biophysical Journal, 2019, 116, 478a-479a.	0.5	0
43	Molecular Dynamics Simulation of pH-Mediated Conformational Change in Connexin Channels. Biophysical Journal, 2021, 120, 228a.	0.5	0
44	An Open State Was Induced by Mimicking Mechanosensitive Piezo1 Channel Clusters in Molecular Dynamic Simulations. Biophysical Journal, 2021, 120, 228a.	0.5	0
45	In Silico Transmission of Cyclic Amp through Connexin 26 via Milestoning and External Electric Field Molecular Dynamics Simulations. Biophysical Journal, 2021, 120, 178a.	0.5	0
46	Elucidation of the structural determinants of ARB binding to the human AT1R (1173.4). FASEB Journal, 2014, 28, 1173.4.	0.5	0
47	Comparative structural biology of human and opossum AT 1 Rs reveals different ARB binding sites. FASEB Journal, 2015, 29, 971.1.	0.5	0
48	G protein-coupled receptor kinase 4 gamma-mediated activation of NF-κB. FASEB Journal, 2015, 29, 934.2.	0.5	0
49	Abstract 5252: Skin cancer prevention by traditional Chinese medicinal formula Si-Wu-Tang and its constituents. , 2016, , .		0
50	Modeling Angiotensin II-mediated activation of the Angiotensin II Type 1 Receptor. FASEB Journal, 2018, 32, 555.16.	0.5	0
51	A142V GRK4 <sup>3</sup> increased RH-kinase domain separation is dependent on interaction with the plasma membrane. FASEB Journal, 2018, 32, 687.4.	0.5	0
52	Structural determination of the mechanism of domain separation of Gα-protein-coupled receptor kinase 4g. FASEB Journal, 2019, 33, 668.7.	0.5	0
53	Ion Channels in Biophysics and Physiology: Methods & Challenges to Study Mechanosensitive Ion Channels. Advances in Experimental Medicine and Biology, 2021, 1349, 33-49.	1.6	0
54	Unifying Single-Channel Permeability From Rare-Event Sampling and Steady-State Flux. Frontiers in Molecular Biosciences, 2022, 9, 860933.	3.5	0

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55	In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. , 2020, 16, e1007719.		0
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57	In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. , 2020, 16, e1007719.		0
58	In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. , 2020, 16, e1007719.		0