

# 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  | Unifying Single-Channel Permeability From Rare-Event Sampling and Steady-State Flux. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 860933.  | 3.5 | 0         |
| 2  | Molecular Dynamics Simulation of pH-Mediated Conformational Change in Connexin Channels. <i>Biophysical Journal</i> , 2021, 120, 228a.   | 0.5 | 0         |
| 3  | An Open State Was Induced by Mimicking Mechanosensitive Piezo1 Channel Clusters in Molecular Dynamic Simulations. <i>Biophysical Journal</i> , 2021, 120, 228a.  | 0.5 | 0         |
| 4  | In Silico Transmission of Cyclic Amp through Connexin 26 via Milestoning and External Electric Field Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2021, 120, 178a.                             | 0.5 | 0         |
| 5  | Ion Pairing and Dielectric Decrement in Glycosaminoglycan Brushes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2771-2780.  | 2.6 | 8         |
| 6  | Mechanical properties of anionic asymmetric bilayers from atomistic simulations. <i>Journal of Chemical Physics</i> , 2021, 154, 224701.   | 3.0 | 7         |
| 7  | 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         |
| 8  | 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         |
| 9  | Crowding-induced opening of the mechanosensitive Piezo1 channel in silico. <i>Communications Biology</i> , 2021, 4, 84.  | 4.4 | 35        |
| 10 | Targeting PRMT9 Suppresses Acute Myeloid Leukemia Maintenance. <i>Blood</i> , 2021, 138, 358-358.  | 1.4 | 1         |
| 11 | Mechanism-Based and Computational-Driven Covalent Drug Design. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 5307-5311.  | 5.4 | 12        |
| 12 | Ion Channels in Biophysics and Physiology: Methods & Challenges to Study Mechanosensitive Ion Channels. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1349, 33-49.                              | 1.6 | 0         |
| 13 | Investigating Protein-Protein Allosteric Network using Current-Flow Scheme. <i>Journal of Computational Chemistry</i> , 2020, 41, 552-560.   | 3.3 | 3         |
| 14 | 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         |
| 15 | 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         |
| 16 | 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        |
| 17 | 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         |
| 18 | Cancer Cell Metabolism Featuring Nrf2. <i>Current Drug Discovery Technologies</i> , 2020, 17, 263-271.   | 1.2 | 2         |

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|----|--|------|-----------|
| 19 | In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. PLoS Computational Biology, 2020, 16, e1007719.   | 3.2  | 5         |
| 20 | In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. , 2020, 16, e1007719.   |      | 0         |
| 21 | In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. , 2020, 16, e1007719.   |      | 0         |
| 22 | In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. , 2020, 16, e1007719.   |      | 0         |
| 23 | In silico prediction of ARB resistance: A first step in creating personalized ARB therapy. , 2020, 16, e1007719.   |      | 0         |
| 24 | Targeting PRMT1-mediated FLT3 methylation disrupts maintenance of MLL-rearranged acute lymphoblastic leukemia. Blood, 2019, 134, 1257-1268.  | 1.4  | 30        |
| 25 | PRMT1-mediated FLT3 arginine methylation promotes maintenance of FLT3-ITD+ acute myeloid leukemia. Blood, 2019, 134, 548-560.  | 1.4  | 58        |
| 26 | A mechanism for the activation of the mechanosensitive Piezo1 channel by the small molecule Yoda1. Nature Communications, 2019, 10, 4503.  | 12.8 | 136       |
| 27 | Robust Determination of Protein Allosteric Signaling Pathways. Journal of Chemical Theory and Computation, 2019, 15, 2116-2126.  | 5.3  | 33        |
| 28 | Structural Bases for Chemical and Mechanical Gating in the Piezo1 Channel. Biophysical Journal, 2019, 116, 478a-479a.  | 0.5  | 0         |
| 29 | Ranking Reversible Covalent Drugs: From Free Energy Perturbation to Fragment Docking. Journal of Chemical Information and Modeling, 2019, 59, 2093-2102.   | 5.4  | 35        |
| 30 | The connexin26 human mutation N14K disrupts cytosolic intersubunit interactions and promotes channel opening. Journal of General Physiology, 2019, 151, 328-341.   | 1.9  | 16        |
| 31 | Structural determination of the mechanism of domain separation of Gâ€proteinâ€coupled receptor kinase 4g. FASEB Journal, 2019, 33, 668.7.  | 0.5  | 0         |
| 32 | Molecular Mechanism of Resveratrolâ€™s Lipid Membrane Protection. Scientific Reports, 2018, 8, 1587.   | 3.3  | 37        |
| 33 | Effects of bioactive constituents in the Traditional Chinese Medicinal formula Siâ€™Wuâ€™Tang on Nrf2 signaling and neoplastic cellular transformation. Phytomedicine, 2018, 40, 1-9.  | 5.3  | 17        |
| 34 | Using Current-Flow Scheme to Capture the Protein-Protein Binding Allostericity. Biophysical Journal, 2018, 114, 420a.  | 0.5  | 0         |
| 35 | Probing the gating mechanism of the mechanosensitive channel Piezo1 with the small molecule Yoda1. Nature Communications, 2018, 9, 2029.   | 12.8 | 104       |
| 36 | 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. American Journal of Physiology - Cell Physiology, 2018, 315, C623-C635. | 4.6  | 5         |

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|----|---|------|-----------|
| 37 | Resveratrol Protects Membranes from PLA1 and PLA2 Hydrolytic Attack. <i>Biophysical Journal</i> , 2018, 114, 259a.  | 0.5  | 1         |
| 38 | 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         |
| 39 | Modeling Angiotensin II-mediated activation of the Angiotensin II Type 1 Receptor. <i>FASEB Journal</i> , 2018, 32, 555.16.   | 0.5  | 0         |
| 40 | A142V GRK4 <sup>Δ3</sup> increased RH <sup>ΔK</sup> kinase domain separation is dependent on interaction with the plasma membrane. <i>FASEB Journal</i> , 2018, 32, 687.4.                | 0.5  | 0         |
| 41 | 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        |
| 42 | 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        |
| 43 | Modeling the Structural Differences between Wild-Type and Polymorphic G Protein-Coupled Receptor Kinase 4 Gamma. <i>Biophysical Journal</i> , 2016, 110, 589a-590a.                       | 0.5  | 0         |
| 44 | 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        |
| 45 | Revealing Activation Mechanism of Alk2 Kinase Mutations in Fibrodysplasia Ossificans Progressiva (FOP). <i>Biophysical Journal</i> , 2016, 110, 206a.                                     | 0.5  | 0         |
| 46 | A Molecular Dynamics Study of Michaelis Complex for Designing Selective Transition State Analog Inhibitors for Cysteine Protease calpain-2. <i>Biophysical Journal</i> , 2016, 110, 545a. | 0.5  | 0         |
| 47 | Computational Studies of Molecular Permeation through Connexin26 Channels. <i>Biophysical Journal</i> , 2016, 110, 584-599.   | 0.5  | 17        |
| 48 | Abstract 5252: Skin cancer prevention by traditional Chinese medicinal formula Si-Wu-Tang and its constituents. , 2016, , .   |      | 0         |
| 49 | Uncovering Molecular Bases Underlying Bone Morphogenetic Protein Receptor Inhibitor Selectivity. <i>PLoS ONE</i> , 2015, 10, e0132221.  | 2.5  | 11        |
| 50 | Ado-Trastuzumab Emtansine. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2015, , 203-223.  | 0.6  | 1         |
| 51 | UBE3A Regulates Synaptic Plasticity and Learning and Memory by Controlling SK2 Channel Endocytosis. <i>Cell Reports</i> , 2015, 12, 449-461.  | 6.4  | 101       |
| 52 | Comparative structural biology of human and opossum AT 1 Rs reveals different ARB binding sites. <i>FASEB Journal</i> , 2015, 29, 971.1.  | 0.5  | 0         |
| 53 | G protein-coupled receptor kinase 4 gamma-mediated activation of NF- $\kappa$ B. <i>FASEB Journal</i> , 2015, 29, 934.2.  | 0.5  | 0         |
| 54 | Generalized scalable multiple copy algorithms for molecular dynamics simulations in NAMD. <i>Computer Physics Communications</i> , 2014, 185, 908-916.                                    | 7.5  | 115       |

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|----|--|-----|-----------|
| 55 | Computational Studies of Molecular Permeation through Connexin26 Channels. Biophysical Journal, 2014, 106, 556a.   | 0.5 | 0         |
| 56 | Elucidation of the structural determinants of ARB binding to the human AT1R (1173.4). FASEB Journal, 2014, 28, 1173.4.   | 0.5 | 0         |
| 57 | Simulations of Anionic Lipid Membranes: Development of Interaction-Specific Ion Parameters and Validation Using NMR Data. Journal of Physical Chemistry B, 2013, 117, 10183-10192.               | 2.6 | 181       |
| 58 | Calculation of Free Energy Landscape in Multi-Dimensions with Hamiltonian-Exchange Umbrella Sampling on Petascale Supercomputer. Journal of Chemical Theory and Computation, 2012, 8, 4672-4680. | 5.3 | 89        |