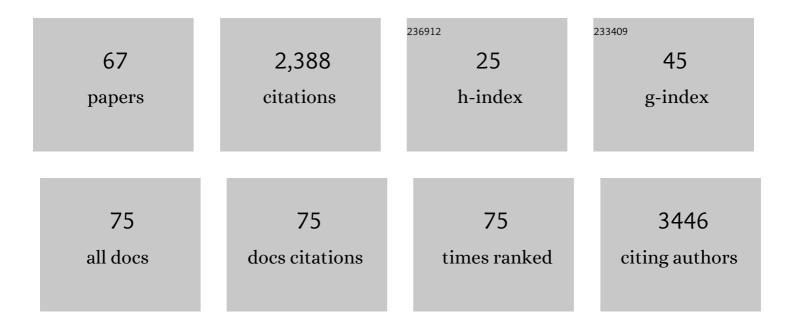
Mary H Cheng

List of Publications by Year in descending order

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MARY H CHENC

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Impact of new variants on SARS-CoV-2 infectivity and neutralization: A molecular assessment of the alterations in the spike-host protein interactions. IScience, 2022, 25, 103939. | 4.1 | 32 |
| 2 | Allosteric Modulator KM822 Attenuates Behavioral Actions of Amphetamine in <i>Caenorhabditis elegans</i> through Interactions with the Dopamine Transporter DAT-1. Molecular Pharmacology, 2022, 101, 123-131. | 2.3 | 4 |
| 3 | A network of phosphatidylinositol (4,5)-bisphosphate (PIP2) binding sites on the dopamine transporter regulates amphetamine behavior in Drosophila Melanogaster. Molecular Psychiatry, 2021, 26, 4417-4430. | 7.9 | 26 |
| 4 | COVID-19–associated multisystem inflammatory syndrome in children (MIS-C): AÂnovel disease that mimics toxic shock syndrome—the superantigen hypothesis. Journal of Allergy and Clinical Immunology, 2021, 147, 57-59. | 2.9 | 87 |
| 5 | Direct coupling of oligomerization and oligomerization-driven endocytosis of the dopamine transporter to its conformational mechanics and activity. Journal of Biological Chemistry, 2021, 296, 100430. | 3.4 | 9 |
| 6 | HLA class l–associated expansion of TRBV11-2 T cells in multisystem inflammatory syndrome in children. Journal of Clinical Investigation, 2021, 131, . | 8.2 | 130 |
| 7 | Psychomotor impairments and therapeutic implications revealed by a mutation associated with infantile Parkinsonism-Dystonia. ELife, 2021, 10, . | 6.0 | 13 |
| 8 | Functional Characterization of the Dopaminergic Psychostimulant Sydnocarb as an Allosteric Modulator of the Human Dopamine Transporter. Biomedicines, 2021, 9, 634. | 3.2 | 9 |
| 9 | A systemsâ€level study reveals hostâ€targeted repurposable drugs against SARSâ€CoVâ€2 infection. Molecular Systems Biology, 2021, 17, e10239. | 7.2 | 22 |
| 10 | A monoclonal antibody against staphylococcal enterotoxin B superantigen inhibits SARS-CoV-2 entry inÂvitro. Structure, 2021, 29, 951-962.e3. | 3.3 | 28 |
| 11 | Bile Acids Gate Dopamine Transporter Mediated Currents. Frontiers in Chemistry, 2021, 9, 753990. | 3.6 | 6 |
| 12 | Regulation of CFTR Bicarbonate Channel Activity by WNK1: Implications for Pancreatitis and CFTR-Related Disorders. Cellular and Molecular Gastroenterology and Hepatology, 2020, 9, 79-103. | 4.5 | 27 |
| 13 | Superantigenic character of an insert unique to SARS-CoV-2 spike supported by skewed TCR repertoire in patients with hyperinflammation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25254-25262. | 7.1 | 252 |
| 14 | Bicarbonate permeation through anion channels: its role in health and disease. Pflugers Archiv European Journal of Physiology, 2020, 472, 1003-1018. | 2.8 | 8 |
| 15 | Dynamic Regulation of Bicarbonate Permeability through CFTR Channel by WNK1. Biophysical Journal, 2020, 118, 416a. | 0.5 | 0 |
| 16 | Monoamine transporters: structure, intrinsic dynamics and allosteric regulation. Nature Structural and Molecular Biology, 2019, 26, 545-556. | 8.2 | 68 |
| 17 | Trimerization of dopamine transporter triggered by AIM-100 binding: Molecular mechanism and effect of mutations. Neuropharmacology, 2019, 161, 107676. | 4.1 | 9 |
| 18 | Quantitative Assessment of the Energetics of Dopamine Translocation by Human Dopamine Transporter. Journal of Physical Chemistry B, 2018, 122, 5336-5346. | 2.6 | 25 |

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|----|---|-----|-----------|
| 19 | PINK1 Interacts with VCP/p97 and Activates PKA to Promote NSFL1C/p47 Phosphorylation and Dendritic Arborization in Neurons. ENeuro, 2018, 5, ENEURO.0466-18.2018. | 1.9 | 34 |
| 20 | Key residues controlling bidirectional ion movements in Na+/Ca2+ exchanger. Cell Calcium, 2018, 76, 10-22. | 2.4 | 20 |
| 21 | Shared dynamics of LeuT superfamily members and allosteric differentiation by structural irregularities and multimerization. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170177. | 4.0 | 24 |
| 22 | Heterogeneities in Axonal Structure and Transporter Distribution Lower Dopamine Reuptake Efficiency. ENeuro, 2018, 5, ENEURO.0298-17.2017. | 1.9 | 10 |
| 23 | Effect of Dimerization on the Dynamics of Neurotransmitter:Sodium Symporters. Journal of Physical Chemistry B, 2017, 121, 3657-3666. | 2.6 | 20 |
| 24 | Allosteric modulation of human dopamine transporter activity under conditions promoting its dimerization. Journal of Biological Chemistry, 2017, 292, 12471-12482. | 3.4 | 23 |
| 25 | Importance of Dimerization in Facilitating the Functional Dynamics of Neurotransmitter: Sodium Symporters. Biophysical Journal, 2017, 112, 506a. | 0.5 | 0 |
| 26 | Effect of Spatial Complexity on Dopaminergic Signaling Revealed from Multiscale Simulations. Biophysical Journal, 2017, 112, 135a. | 0.5 | 0 |
| 27 | Targeting of dopamine transporter to filopodia requires an outward-facing conformation of the transporter. Scientific Reports, 2017, 7, 5399. | 3.3 | 16 |
| 28 | Substrate transport and anion permeation proceed through distinct pathways in glutamate transporters. ELife, 2017, 6, . | 6.0 | 26 |
| 29 | Pore dilatation increases the bicarbonate permeability of CFTR, ANO1 and glycine receptor anion channels. Journal of Physiology, 2016, 594, 2929-2955. | 2.9 | 30 |
| 30 | Visualization of Molecular Events from Dopamine-Binding to -Release by Human Dopamine Transporter. Biophysical Journal, 2015, 108, 462a. | 0.5 | 0 |
| 31 | Energy landscape of LeuT from molecular simulations. Journal of Chemical Physics, 2015, 143, 243134. | 3.0 | 34 |
| 32 | Insights into the Modulation of Dopamine Transporter Function by Amphetamine, Orphenadrine, and Cocaine Binding. Frontiers in Neurology, 2015, 6, 134. | 2.4 | 64 |
| 33 | Structure-Encoded Global Motions and Their Role in Mediating Protein-Substrate Interactions. Biophysical Journal, 2015, 109, 1101-1109. | 0.5 | 55 |
| 34 | Molecular Mechanism of Dopamine Transport by Human Dopamine Transporter. Structure, 2015, 23, 2171-2181. | 3.3 | 81 |
| 35 | Exploring the Conformational Transitions of Biomolecular Systems Using a Simple Two-State Anisotropic Network Model. PLoS Computational Biology, 2014, 10, e1003521. | 3.2 | 112 |
| 36 | Complete Mapping of Substrate Translocation Highlights the Role of LeuT N-terminal Segment in Regulating Transport Cycle. PLoS Computational Biology, 2014, 10, e1003879. | 3.2 | 71 |

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|----|--|------|-----------|
| 37 | Complete Mapping of Substrate Translocation Implicates the Secondary Binding Site and Highlights the Significance of LeuT N-Terminal Segment in Regulating Transport Cycle. Biophysical Journal, 2014, 106, 364a. | 0.5 | 0 |
| 38 | Coupled Global and Local Changes Direct Substrate Translocation byÂNeurotransmitter-Sodium Symporter Ortholog LeuT. Biophysical Journal, 2013, 105, 630-639. | 0.5 | 65 |
| 39 | Does Symmetry of Ligand Occupancy Matter to Conformational Transitions of Pentameric Ligand Gated Ion Channels?. Biophysical Journal, 2013, 104, 380a. | 0.5 | 0 |
| 40 | Asymmetric Ligand Binding Facilitates Conformational Transitions in Pentameric Ligand-Gated Ion Channels. Journal of the American Chemical Society, 2013, 135, 2172-2180. | 13.7 | 43 |
| 41 | Reversal of ion-charge selectivity renders the pentameric ligand-gated ion channel GLIC insensitive to anaesthetics. Biochemical Journal, 2013, 449, 61-68. | 3.7 | 12 |
| 42 | Energetics and lon permeation Characteristics in a Glutamate-Gated Chloride (GluCl) Receptor Channel. Journal of Physical Chemistry B, 2012, 116, 13637-13643. | 2.6 | 21 |
| 43 | Molecular Dynamics Investigation of Clâ^' and Water Transport through a Eukaryotic CLC Transporter. Biophysical Journal, 2012, 102, 1363-1371. | 0.5 | 36 |
| 44 | Discrete-State Representation of Ion Permeation Coupled to Fast Gating in a Model of CLC-Chloride Channels: Analytic Estimation of the State-to-State Rate Constants. Journal of Physical Chemistry A, 2011, 115, 9633-9642. | 2.5 | 9 |
| 45 | Calcium Inhibits Paracellular Sodium Conductance through Claudin-2 by Competitive Binding. Journal of Biological Chemistry, 2010, 285, 37060-37069. | 3.4 | 34 |
| 46 | Molecular Dynamics Investigation of Anesthetic Halothane Interactions with the Proton-Gated Ion Channel GLIC. Biophysical Journal, 2010, 98, 703a. | 0.5 | 0 |
| 47 | Molecular Dynamics and Brownian Dynamics Investigation of Ion Permeation and Anesthetic Halothane Effects on a Proton-Gated Ion Channel. Journal of the American Chemical Society, 2010, 132, 16442-16449. | 13.7 | 44 |
| 48 | Anesthetic Binding in a Pentameric Ligand-Gated Ion Channel: GLIC. Biophysical Journal, 2010, 99, 1801-1809. | 0.5 | 43 |
| 49 | Discrete-State Representation of Ion Permeation Coupled to Fast Gating in a Model of ClC Chloride Channels: Comparison to Multi-ion Continuous Space Brownian Dynamics Simulations. Journal of Physical Chemistry B, 2010, 114, 1424-1433. | 2.6 | 14 |
| 50 | Multisite Binding of Anesthetics to GLIC, a Pentameric Ligand-Gated Ion Channel. Biophysical Journal, 2010, 98, 702a-703a. | 0.5 | 1 |
| 51 | Molecular Basis for Cation Selectivity in Claudin-2–based Paracellular Pores: Identification of an Electrostatic Interaction Site. Journal of General Physiology, 2009, 133, 111-127. | 1.9 | 273 |
| 52 | Anionic Lipid and Cholesterol Interactions with α4β2 nAChR: Insights from MD Simulations. Journal of Physical Chemistry B, 2009, 113, 6964-6970. | 2.6 | 25 |
| 53 | Interactions between POPA and a4b2 nAChR: Insight from MD Simulations. Biophysical Journal, 2009, 96, 610a. | 0.5 | 0 |
| 54 | Molecular Basis for Cation Selectivity in Claudin-2–based Paracellular Pores: Identification of an Electrostatic Interaction Site. Journal of Cell Biology, 2009, 184, i3-i3. | 5.2 | 0 |

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|----|--|-----|-----------|
| 55 | Computational prediction of ion permeation characteristics in the glycine receptor modified by photo-sensitive compounds. Journal of Computer-Aided Molecular Design, 2008, 22, 563-570. | 2.9 | 2 |
| 56 | Molecular dynamics simulations of ethanol binding to the transmembrane domain of the glycine receptor: Implications for the channel potentiation mechanism. Proteins: Structure, Function and Bioinformatics, 2008, 71, 972-981. | 2.6 | 21 |
| 57 | <i>In Silico</i> Models for the Human α4β2 Nicotinic Acetylcholine Receptor. Journal of Physical Chemistry B, 2008, 112, 13981-13990. | 2.6 | 44 |
| 58 | Modeling the Fast Gating Mechanism in the ClC-0 Chloride Channel. Journal of Physical Chemistry B, 2007, 111, 5956-5965. | 2.6 | 23 |
| 59 | Molecular Dynamics Simulations of Ternary Membrane Mixture:  Phosphatidylcholine, Phosphatidic Acid, and Cholesterol. Journal of Physical Chemistry B, 2007, 111, 14186-14192. | 2.6 | 29 |
| 60 | Homology modeling and molecular dynamics simulations of the $\hat{l}\pm 1$ glycine receptor reveals different states of the channel. Proteins: Structure, Function and Bioinformatics, 2007, 68, 581-593. | 2.6 | 33 |
| 61 | An Accurate and Efficient Empirical Approach for Calculating the Dielectric Self-Energy and Ionâ`'Ion Pair Potential in Continuum Models of Biological Ion Channels. Journal of Physical Chemistry B, 2005, 109, 488-498. | 2.6 | 35 |
| 62 | Theoretical Studies of the M2 Transmembrane Segment of the Glycine Receptor: Models of the Open Pore Structure and Current-Voltage Characteristics. Biophysical Journal, 2005, 89, 1669-1680. | 0.5 | 24 |
| 63 | Phase ripening in particulate binary polymer blends. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 603-612. | 2.1 | 11 |
| 64 | Non-linear diffusion with concentration-driven flows in miscible systems. Polymer, 2003, 44, 6707-6712. | 3.8 | 5 |
| 65 | Modeling reactive compatibilization of a binary blend with interacting particles. Journal of Chemical Physics, 2003, 118, 9044-9052. | 3.0 | 12 |
| 66 | Impact of New Variants on SAR-CoV-2 Infectivity and Neutralization: A Molecular Assessment of the Alterations in the Spike-Host Protein Interactions. SSRN Electronic Journal, 0, , . | 0.4 | 3 |
| 67 | Multisystem Inflammatory Syndrome in Children and Long COVID: The SARS-CoV-2 Viral Superantigen Hypothesis. Frontiers in Immunology, 0, 13, . | 4.8 | 56 |