

# Jian Dai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2962537/publications.pdf>

Version: 2024-02-01

15  
papers

668  
citations

623188

14  
h-index

996533

15  
g-index

15  
all docs

15  
docs citations

15  
times ranked

882  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A Molecular View of the Cholesterol Condensing Effect in DOPC Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7516-7523.  | 1.2 | 164       |
| 2  | Mechanical coupling maintains the fidelity of NMDA receptor-mediated currents. <i>Nature Neuroscience</i> , 2014, 17, 914-922.  | 7.1 | 96        |
| 3  | Instability of Cholesterol Clusters in Lipid Bilayers and The Cholesterol's Umbrella Effect. <i>Journal of Physical Chemistry B</i> , 2010, 114, 840-848.   | 1.2 | 56        |
| 4  | Inter- and intrasubunit interactions between transmembrane helices in the open state of P2X receptor channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4045-54.                  | 3.3 | 48        |
| 5  | Structure of CrgA, a cell division structural and regulatory protein from <i>Mycobacterium tuberculosis</i> , in lipid bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E119-26. | 3.3 | 45        |
| 6  | Modification of Lipid Bilayer Structure by Diacylglycerol: A Comparative Study of Diacylglycerol and Cholesterol. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 749-758.   | 2.3 | 41        |
| 7  | Divergent roles of a peripheral transmembrane segment in AMPA and NMDA receptors. <i>Journal of General Physiology</i> , 2017, 149, 661-680.  | 0.9 | 41        |
| 8  | An NMDA Receptor Gating Mechanism Developed from MD Simulations Reveals Molecular Details Underlying Subunit-Specific Contributions. <i>Biophysical Journal</i> , 2013, 104, 2170-2181.   | 0.2 | 40        |
| 9  | Reduced Curvature of Ligand-Binding Domain Free-Energy Surface Underlies Partial Agonism at NMDA Receptors. <i>Structure</i> , 2015, 23, 228-236.   | 1.6 | 28        |
| 10 | The Transmembrane Domain Mediates Tetramerization of $\alpha$ -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptors. <i>Journal of Biological Chemistry</i> , 2016, 291, 6595-6606.  | 1.6 | 23        |
| 11 | Binding of MgtR, a Salmonella Transmembrane Regulatory Peptide, to MgtC, a Mycobacterium tuberculosis Virulence Factor: A Structural Study. <i>Journal of Molecular Biology</i> , 2014, 426, 436-446.   | 2.0 | 21        |
| 12 | Simulation of the $\alpha$ -Phase Boundary in DSPC/DOPC/Cholesterol Ternary Mixtures Using Pairwise Interactions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1662-1671.  | 1.2 | 19        |
| 13 | Semiclosed Conformations of the Ligand-Binding Domains of NMDA Receptors during Stationary Gating. <i>Biophysical Journal</i> , 2016, 111, 1418-1428.   | 0.2 | 19        |
| 14 | General rules for the arrangements and gating motions of pore-lining helices in homomeric ion channels. <i>Nature Communications</i> , 2014, 5, 4641.   | 5.8 | 15        |
| 15 | Mechanism-Based Mathematical Model for Gating of Ionotropic Glutamate Receptors. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10934-10940.   | 1.2 | 12        |