Chen Song

List of Publications by Year
in descending order

27 papers	1,051 citations	759233 12 h-index	642732 23 g-index
37 all docs	37 docs citations	37 times ranked	1955 citing authors

#	Article	IF	Citations
1	Ion permeation in K ⁺ channels occurs by direct Coulomb knock-on. Science, 2014, 346, 352-355.	12.6	271
2	Phospho-selective mechanisms of arrestin conformations and functions revealed by unnatural amino acid incorporation and 19F-NMR. Nature Communications, 2015, 6, 8202.	12.8	156
3	Structure of the mechanosensitive OSCA channels. Nature Structural and Molecular Biology, 2018, 25, 850-858.	8.2	133
4	Crystal structure and functional mechanism of a human antimicrobial membrane channel. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4586-4591.	7.1	104
5	Deep learning for molecular generation. Future Medicinal Chemistry, 2019, 11, 567-597.	2.3	88
6	Insights into the function of ion channels by computational electrophysiology simulations. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1741-1752.	2.6	60
7	Voltage Gating of a Biomimetic Nanopore: Electrowetting of a Hydrophobic Barrier. ACS Nano, 2017, 11, 1840-1847.	14.6	59
8	The Ca2+ permeation mechanism of the ryanodine receptor revealed by a multi-site ion model. Nature Communications, 2020, 11, 922.	12.8	33
9	The push-to-open mechanism of the tethered mechanosensitive ion channel NompC. ELife, 2021, 10, .	6.0	25
10	Lipid Bilayer Composition Influences the Activity ofÂthe Antimicrobial Peptide Dermcidin Channel. Biophysical Journal, 2019, 116, 1658-1666.	0.5	20
11	A synergetic effect of BARD1 mutations on tumorigenesis. Nature Communications, 2021, 12, 1243.	12.8	15
12	Structure and Dynamics of Cinnamycinâ€“Lipid Complexes: Mechanisms of Selectivity for Phosphatidylethanolamine Lipids. ACS Omega, 2019, 4, 18889-18899.	3.5	14
13	The orientation and stability of the GPCR-Arrestin complex in a lipid bilayer. Scientific Reports, 2017, 7, 16985.	3.3	10
14	Atomistic Details of Charge/Space Competition in the Ca²⁺ Selectivity of Ryanodine Receptors. Journal of Physical Chemistry Letters, 2021, 12, 4286-4291.	4.6	10
15	Switching of the substrate specificity of protein tyrosine phosphatase N12 by cyclinâ€dependent kinase 2 phosphorylation orchestrating 2 oncogenic pathways. FASEB Journal, 2018, 32, 73-82.	0.5	8
16	Membrane contact probability: An essential and predictive character for the structural and functional studies of membrane proteins. PLoS Computational Biology, 2022, 18, e1009972.	3.2	8
17	Insights into the mechanism of membrane fusion induced by the plant defense element, plant-specific insert. Journal of Biological Chemistry, 2020, 295, 14548-14562.	3.4	5
18	pH dependent membrane binding of the Solanum tuberosum plant specific insert: An in silico study. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2608-2618.	2.6	4

#	Article	IF	Citations
19	The role of disulfide bonds in a Solanum tuberosum saposin-like protein investigated using molecular dynamics. PLoS ONE, 2020, 15, e0237884.	2.5	4
20	A putative structural mechanism underlying the antithetic effect of homologous RND1 and RhoD GTPases in mammalian plexin regulation. ELife, 2021, 10, .	6.0	4
21	The Impact of Mutation L138F/L210F on the Orai Channel: A Molecular Dynamics Simulation Study. Frontiers in Molecular Biosciences, 2021, 8, 755247.	3.5	4
22	Phosphorylation-dependent conformational changes of arrestin in the rhodopsinâ€“arrestin complex. Physical Chemistry Chemical Physics, 2020, 22, 9330-9338.	2.8	1
23	A non-transmembrane channel formed by Ca2+-bound calsequestrin-2. Journal of General Physiology, 2022, 154, .	1.9	1
24	Title is missing!. , 2020, 15, e0237884.		0
25	Title is missing!. , 2020, 15, e0237884.		0
26	Title is missing!. , 2020, 15, e0237884.		0
27	Title is missing!. , 2020, 15, e0237884.		0