Shanlin Rao

List of Publications by Year in descending order

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15 papers	740 citations	686830 13 h-index	940134 16 g-index
22 all docs	22 docs citations	22 times ranked	991 citing authors

#	Article	IF	Citations
1	Water in Nanopores and Biological Channels: A Molecular Simulation Perspective. Chemical Reviews, 2020, 120, 10298-10335.	23.0	121
2	Cryo-EM reveals two distinct serotonin-bound conformations of full-length 5-HT3A receptor. Nature, 2018, 563, 270-274.	13.7	98
3	CHAP: A Versatile Tool for the Structural and Functional Annotation of Ion Channel Pores. Journal of Molecular Biology, 2019, 431, 3353-3365.	2.0	97
4	Mechanisms of activation and desensitization of full-length glycine receptor in lipid nanodiscs. Nature Communications, 2020, 11, 3752.	5.8	74
5	Structure and assembly of calcium homeostasis modulator proteins. Nature Structural and Molecular Biology, 2020, 27, 150-159.	3.6	55
6	A heuristic derived from analysis of the ion channel structural proteome permits the rapid identification of hydrophobic gates. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13989-13995.	3.3	52
7	Water and hydrophobic gates in ion channels and nanopores. Faraday Discussions, 2018, 209, 231-247.	1.6	48
8	Induced Polarization in Molecular Dynamics Simulations of the 5-HT₃ Receptor Channel. Journal of the American Chemical Society, 2020, 142, 9415-9427.	6.6	38
9	The MscS-like channel YnaI has a gating mechanism based on flexible pore helices. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28754-28762.	3.3	30
10	Molecular Simulations of Hydrophobic Gating of Pentameric Ligand Gated Ion Channels: Insights into Water and Ions. Journal of Physical Chemistry B, 2021, 125, 981-994.	1.2	27
11	A BEST example of channel structure annotation by molecular simulation. Channels, 2017, 11, 347-353.	1.5	26
12	Norfluoxetine inhibits TREK-2 K2P channels by multiple mechanisms including state-independent effects on the selectivity filter gate. Journal of General Physiology, 2021, 153, .	0.9	17
13	Characterizing Membrane Association and Periplasmic Transfer of Bacterial Lipoproteins through Molecular Dynamics Simulations. Structure, 2020, 28, 475-487.e3.	1.6	15
14	Water Nanoconfined in a Hydrophobic Pore: Molecular Dynamics Simulations of Transmembrane Protein 175 and the Influence of Water Models. ACS Nano, 2021, 15, 19098-19108.	7.3	14
15	A Newly Available Tool for Functional Annotation of Ion Channel Structures Based on Molecular Dynamics Simulations. Biophysical Journal, 2018, 114, 134a.	0.2	1