

# Gucan Dai

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

397  
citations

1039406

9  
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1125271

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g-index

15  
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15  
docs citations

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times ranked

713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatty-acyl chain profiles of cellular phosphoinositides. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 513-522.	1.2	97
2	Osmoregulatory inositol transporter SMIT1 modulates electrical activity by adjusting PI(4,5)P <sub>2</sub> levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3290-9.	3.3	56
3	The HCN channel voltage sensor undergoes a large downward motion during hyperpolarization. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 686-694.	3.6	52
4	Lipid signaling to membrane proteins: From second messengers to membrane domains and adapter-free endocytosis. <i>Journal of General Physiology</i> , 2018, 150, 211-224.	0.9	49
5	Molecular mechanism of voltage-dependent potentiation of KCNH potassium channels. <i>ELife</i> , 2017, 6, .	2.8	48
6	Dynamic rearrangement of the intrinsic ligand regulates KCNH potassium channels. <i>Journal of General Physiology</i> , 2018, 150, 625-635.	0.9	26
7	Two structural components in CNGA3 support regulation of cone CNG channels by phosphoinositides. <i>Journal of General Physiology</i> , 2013, 141, 413-430.	0.9	22
8	Electromechanical coupling mechanism for activation and inactivation of an HCN channel. <i>Nature Communications</i> , 2021, 12, 2802.	5.8	17
9	CNGA3 achromatopsia-associated mutation potentiates the phosphoinositide sensitivity of cone photoreceptor CNG channels by altering intersubunit interactions. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C147-C159.	2.1	14
10	Neuronal KCNQ2/3 channels are recruited to lipid raft microdomains by palmitoylation of BACE1. <i>Journal of General Physiology</i> , 2022, 154, .	0.9	8
11	Biophysical physiology of phosphoinositide rapid dynamics and regulation in living cells. <i>Journal of General Physiology</i> , 2022, 154, .	0.9	5
12	Symmetry breaking in photoreceptor cyclic nucleotide-gated channels. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 7-9.	3.6	2
13	Distinct Contributions of CNGA3 and CNGB3 Subunits to Ligand-Specific Activation of Cone CNG Channels. <i>Biophysical Journal</i> , 2013, 104, 278a.	0.2	1