

Rebecca Howard

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,596
citations

516710

16
h-index

454955

30
g-index

43
all docs

43
docs citations

43
times ranked

1880
citing authors

#	ARTICLE	IF	CITATIONS
1	An open state of a voltage-gated sodium channel involving a β -helix and conserved pore-facing asparagine. <i>Biophysical Journal</i> , 2022, 121, 11-22.	0.5	8
2	Direct detection of SARS-CoV-2 using non-commercial RT-LAMP reagents on heat-inactivated samples. <i>Scientific Reports</i> , 2021, 11, 1820.	3.3	47
3	Dynamic closed states of a ligand-gated ion channel captured by cryo-EM and simulations. <i>Life Science Alliance</i> , 2021, 4, e202101011.	2.8	16
4	Molecular Dynamics Simulations of Ion Channels. <i>Trends in Biochemical Sciences</i> , 2021, 46, 621-622.	7.5	17
5	Regulation of a pentameric ligand-gated ion channel by a semiconserved cationic lipid-binding site. <i>Journal of Biological Chemistry</i> , 2021, 297, 100899.	3.4	15
6	Elephants in the Dark: Insights and Incongruities in Pentameric Ligand-gated Ion Channel Models. <i>Journal of Molecular Biology</i> , 2021, 433, 167128.	4.2	22
7	Probing solution structure of the pentameric ligand-gated ion channel GLIC by small-angle neutron scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
8	Markov state models of proton- and pore-dependent activation in a pentameric ligand-gated ion channel. <i>ELife</i> , 2021, 10, .	6.0	9
9	A missense mutation converts the Na ⁺ ,K ⁺ -ATPase into an ion channel and causes therapy-resistant epilepsy. <i>Journal of Biological Chemistry</i> , 2021, 297, 101355.	3.4	9
10	Arrangement and symmetry of the fungal E3BP-containing core of the pyruvate dehydrogenase complex. <i>Nature Communications</i> , 2020, 11, 4667.	12.8	20
11	Shared structural mechanisms of general anaesthetics and benzodiazepines. <i>Nature</i> , 2020, 585, 303-308.	27.8	195
12	Structural basis for allosteric transitions of a multidomain pentameric ligand-gated ion channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13437-13446.	7.1	18
13	Agonist Selectivity and Ion Permeation in the $\alpha 5\beta 2$ Ganglionic Nicotinic Receptor. <i>Neuron</i> , 2019, 104, 501-511.e6.	8.1	131
14	Sharing Data from Molecular Simulations. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4093-4099.	5.4	26
15	Permeating disciplines: Overcoming barriers between molecular simulations and classical structure-function approaches in biological ion transport. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 927-942.	2.6	8
16	Structural Basis for a Bimodal Allosteric Mechanism of General Anesthetic Modulation in Pentameric Ligand-Gated Ion Channels. <i>Cell Reports</i> , 2018, 23, 993-1004.	6.4	33
17	Allosteric potentiation of a ligand-gated ion channel is mediated by access to a deep membrane-facing cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10672-10677.	7.1	31
18	Functional characterization of neurotransmitter activation and modulation in a nematode model ligand-gated ion channel. <i>Journal of Neurochemistry</i> , 2016, 138, 243-253.	3.9	5

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19	Ethanol Modulation is Quantitatively Determined by the Transmembrane Domain of Human $\alpha 1$ Glycine Receptors. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 962-968.	2.4	4
20	Seeking Structural Specificity: Direct Modulation of Pentameric Ligand-Gated Ion Channels by Alcohols and General Anesthetics. <i>Pharmacological Reviews</i> , 2014, 66, 396-412.	16.0	50
21	Functional Validation of Virtual Screening for Novel Agents with General Anesthetic Action at Ligand-Gated Ion Channels. <i>Molecular Pharmacology</i> , 2013, 84, 670-678.	2.3	19
22	Inhibition versus Potentiation of Ligand-Gated Ion Channels Can Be Altered by a Single Mutation that Moves Ligands between Intra- and Intersubunit Sites. <i>Structure</i> , 2013, 21, 1307-1316.	3.3	20
23	Structural basis for potentiation by alcohols and anaesthetics in a ligand-gated ion channel. <i>Nature Communications</i> , 2013, 4, 1697.	12.8	126
24	Multisite Binding of a General Anesthetic to the Prokaryotic Pentameric <i>Erwinia chrysanthemi</i> Ligand-gated Ion Channel (ELIC). <i>Journal of Biological Chemistry</i> , 2013, 288, 8355-8364.	3.4	90
25	Molecular Mechanism for the Dual Alcohol Modulation of Cys-loop Receptors. <i>PLoS Computational Biology</i> , 2012, 8, e1002710.	3.2	35
26	The TM2 $\alpha 2$ Position of GABA _A Receptors Mediates Alcohol Inhibition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 340, 445-456.	2.5	16
27	Structural basis for alcohol modulation of a pentameric ligand-gated ion channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12149-12154.	7.1	102
28	Alcohol-Binding Sites in Distinct Brain Proteins: The Quest for Atomic Level Resolution. <i>Alcoholism: Clinical and Experimental Research</i> , 2011, 35, no-no.	2.4	41
29	The Structure of the APPBP1-UBA3-NEDD8-ATP Complex Reveals the Basis for Selective Ubiquitin-like Protein Activation by an E1. <i>Molecular Cell</i> , 2003, 12, 1427-1437.	9.7	241
30	Ring-Closing Metathesis of Olefinic Peptides: Design, Synthesis, and Structural Characterization of Macrocyclic Helical Peptides. <i>Journal of Organic Chemistry</i> , 2001, 66, 5291-5302.	3.2	216