

# 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	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
2	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
3	Shared structural mechanisms of general anaesthetics and benzodiazepines. <i>Nature</i> , 2020, 585, 303-308.	27.8	195
4	Agonist Selectivity and Ion Permeation in the $\alpha 3 \beta 4$ Ganglionic Nicotinic Receptor. <i>Neuron</i> , 2019, 104, 501-511.e6.	8.1	131
5	Structural basis for potentiation by alcohols and anaesthetics in a ligand-gated ion channel. <i>Nature Communications</i> , 2013, 4, 1697.	12.8	126
6	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
7	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
8	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
9	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
10	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
11	Molecular Mechanism for the Dual Alcohol Modulation of Cys-loop Receptors. <i>PLoS Computational Biology</i> , 2012, 8, e1002710.	3.2	35
12	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
13	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
14	Sharing Data from Molecular Simulations. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4093-4099.	5.4	26
15	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
16	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
17	Arrangement and symmetry of the fungal E3BP-containing core of the pyruvate dehydrogenase complex. <i>Nature Communications</i> , 2020, 11, 4667.	12.8	20
18	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

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19	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
20	Molecular Dynamics Simulations of Ion Channels. <i>Trends in Biochemical Sciences</i> , 2021, 46, 621-622.	7.5	17
21	The TM2 Position of GABA <sub>A</sub> Receptors Mediates Alcohol Inhibition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 340, 445-456.	2.5	16
22	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
23	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
24	Markov state models of proton- and pore-dependent activation in a pentameric ligand-gated ion channel. <i>ELife</i> , 2021, 10, .	6.0	9
25	A missense mutation converts the Na <sup>+</sup> ,K <sup>+</sup> -ATPase into an ion channel and causes therapy-resistant epilepsy. <i>Journal of Biological Chemistry</i> , 2021, 297, 101355.	3.4	9
26	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
27	An open state of a voltage-gated sodium channel involving a $\beta$ -helix and conserved pore-facing asparagine. <i>Biophysical Journal</i> , 2022, 121, 11-22.	0.5	8
28	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
29	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
30	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