

# Miguel Holmgren

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1574059/publications.pdf>

Version: 2024-02-01

24  
papers

1,356  
citations

567281

15  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1419  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gated Access to the Pore of a Voltage-Dependent K <sup>+</sup> Channel. <i>Neuron</i> , 1997, 19, 175-184.	8.1	475
2	Control of human potassium channel inactivation by editing of a small mRNA hairpin. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 950-956.	8.2	219
3	Three distinct and sequential steps in the release of sodium ions by the Na <sup>+</sup> /K <sup>+</sup> -ATPase. <i>Nature</i> , 2000, 403, 898-901.	27.8	155
4	Mechanism of potassium ion uptake by the Na <sup>+</sup> /K <sup>+</sup> -ATPase. <i>Nature Communications</i> , 2015, 6, 7622.	12.8	57
5	The dynamic relationships between the three events that release individual Na <sup>+</sup> ions from the Na <sup>+</sup> /K <sup>+</sup> -ATPase. <i>Nature Communications</i> , 2012, 3, 669.	12.8	54
6	Ouabain Binding Site in a Functioning Na <sup>+</sup> /K <sup>+</sup> ATPase. <i>Journal of Biological Chemistry</i> , 2011, 286, 38177-38183.	3.4	50
7	Evolutionarily conserved intracellular gate of voltage-dependent sodium channels. <i>Nature Communications</i> , 2014, 5, 3420.	12.8	39
8	Access of Quaternary Ammonium Blockers to the Internal Pore of Cyclic Nucleotide-gated Channels: Implications for the Location of the Gate. <i>Journal of General Physiology</i> , 2006, 127, 481-494.	1.9	35
9	Regulation of Na <sup>+</sup> /K <sup>+</sup> ATPase Transport Velocity by RNA Editing. <i>PLoS Biology</i> , 2010, 8, e1000540.	5.6	32
10	Editing of human KV1.1 channel mRNAs disrupts binding of the N-terminus tip at the intracellular cavity. <i>Nature Communications</i> , 2011, 2, 436.	12.8	32
11	Charge Translocation by the Na <sup>+</sup> /K <sup>+</sup> Pump under Na <sup>+</sup> /Na <sup>+</sup> Exchange Conditions: Intracellular Na <sup>+</sup> Dependence. <i>Biophysical Journal</i> , 2006, 90, 1607-1616.	0.5	31
12	Structural basis of Na <sup>+</sup> /K <sup>+</sup> -ATPase adaptation to marine environments. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 427-431.	8.2	31
13	Physiological adaptation of an Antarctic Na <sup>+</sup> /K <sup>+</sup> -ATPase to the cold. <i>Journal of Experimental Biology</i> , 2011, 214, 2164-2174.	1.7	27
14	Energy landscape of the reactions governing the Na <sup>+</sup> deeply occluded state of the Na <sup>+</sup> /K <sup>+</sup> -ATPase in the giant axon of the Humboldt squid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20556-20561.	7.1	18
15	Demonstration of ion channel synthesis by isolated squid giant axon provides functional evidence for localized axonal membrane protein translation. <i>Scientific Reports</i> , 2018, 8, 2207.	3.3	17
16	Influence of Permeant Ions on Gating in Cyclic Nucleotide-gated Channels. <i>Journal of General Physiology</i> , 2003, 121, 61-72.	1.9	16
17	Transient Electrical Currents Mediated by the Na <sup>+</sup> /K <sup>+</sup> -ATPase: A Tour from Basic Biophysics to Human Diseases. <i>Biophysical Journal</i> , 2020, 119, 236-242.	0.5	13
18	Regulation of Ion Channel and Transporter Function Through RNA Editing. <i>Current Issues in Molecular Biology</i> , 2015, 17, 23-36.	2.4	13

#	ARTICLE	IF	CITATIONS
19	Quasi-specific access of the potassium channel inactivation gate. <i>Nature Communications</i> , 2014, 5, 4050.	12.8	10
20	A Structural Rearrangement of the Na <sup>+</sup> /K <sup>+</sup> -ATPase Traps Ouabain within the External Ion Permeation Pathway. <i>Journal of Molecular Biology</i> , 2015, 427, 1335-1344.	4.2	10
21	Independent movement of the voltage sensors in KV2.1/KV6.4 heterotetramers. <i>Scientific Reports</i> , 2017, 7, 41646.	3.3	7
22	Comparative description of the mRNA expression profile of Na <sup>+</sup> /K <sup>+</sup> -ATPase isoforms in adult mouse nervous system. <i>Journal of Comparative Neurology</i> , 2022, 530, 627-647.	1.6	7
23	A Structural Model of the Inactivation Gate of Voltage-Activated Potassium Channels. <i>Biophysical Journal</i> , 2019, 117, 377-387.	0.5	5
24	Deglycosylation of Shaker KV channels affects voltage sensing and the open $\leftrightarrow$ closed transition. <i>Journal of General Physiology</i> , 2018, 150, 1025-1034.	1.9	3