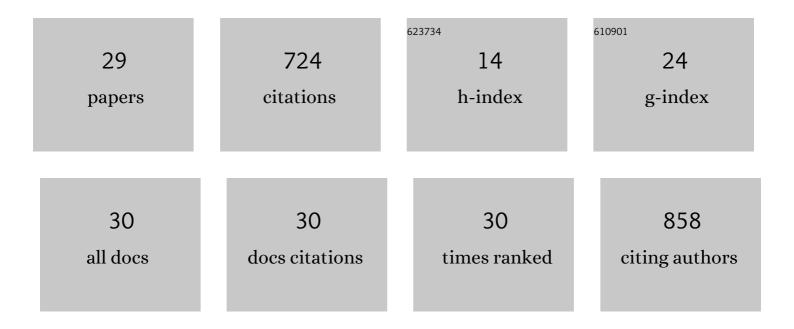
## Jan-Philipp Machtens

List of Publications by Year in descending order

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IAN-DHILIDD MACHTENS

#	Article	IF	CITATIONS
1	Mechanisms of Anion Conduction by Coupled Glutamate Transporters. Cell, 2015, 160, 542-553.	28.9	114
2	Insights into the function of ion channels by computational electrophysiology simulations. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1741-1752.	2.6	60
3	Unique structure and function of viral rhodopsins. Nature Communications, 2019, 10, 4939.	12.8	59
4	Functional Properties of the Retinal Glutamate Transporters GLT-1c and EAAT5. Journal of Biological Chemistry, 2014, 289, 1815-1824.	3.4	53
5	Structural Mechanisms of Voltage Sensing in GÂProtein-Coupled Receptors. Structure, 2016, 24, 997-1007.	3.3	48
6	Molecular physiology of EAAT anion channels. Pflugers Archiv European Journal of Physiology, 2016, 468, 491-502.	2.8	47
7	Induced fit substrate binding to an archeal glutamate transporter homologue. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12486-12491.	7.1	45
8	A Conserved Aspartate Determines Pore Properties of Anion Channels Associated with Excitatory Amino Acid Transporter 4 (EAAT4). Journal of Biological Chemistry, 2010, 285, 23676-23686.	3.4	38
9	Membrane potentials regulating GPCRs: insights from experiments and molecular dynamics simulations. Current Opinion in Pharmacology, 2016, 30, 44-50.	3.5	32
10	Regulation of Glial Glutamate Transporters by C-terminal Domains. Journal of Biological Chemistry, 2011, 286, 1927-1937.	3.4	30
11	Allosteric gate modulation confers K <sup>+</sup> coupling in glutamate transporters. EMBO Journal, 2019, 38, e101468.	7.8	28
12	Na <sup>+</sup> -dependent gate dynamics and electrostatic attraction ensure substrate coupling in glutamate transporters. Science Advances, 2020, 6, .	10.3	23
13	Impaired surface membrane insertion of homo- and heterodimeric human muscle chloride channels carrying amino-terminal myotonia-causing mutations. Scientific Reports, 2015, 5, 15382.	3.3	21
14	Substrate-dependent Gating of Anion Channels Associated with Excitatory Amino Acid Transporter 4. Journal of Biological Chemistry, 2011, 286, 23780-23788.	3.4	20
15	Uncoupling sodium channel dimers restores the phenotype of a painâ€linked Na <sub>v</sub> 1.7 channel mutation. British Journal of Pharmacology, 2020, 177, 4481-4496.	5.4	19
16	β1 subunit stabilises sodium channel Nav1.7 against mechanical stress. Journal of Physiology, 2018, 596, 2433-2445.	2.9	16
17	Molecular mechanisms of ion conduction and ion selectivity in TMEM16 lipid scramblases. Nature Communications, 2021, 12, 2826.	12.8	14
18	Neutralizing Aspartate 83 Modifies Substrate Translocation of Excitatory Amino Acid Transporter 3 (EAAT3) Glutamate Transporters. Journal of Biological Chemistry, 2012, 287, 20016-20026.	3.4	12

JAN-PHILIPP MACHTENS

#	Article	IF	CITATIONS
19	Gating Charge Calculations by Computational Electrophysiology Simulations. Biophysical Journal, 2017, 112, 1396-1405.	0.5	11
20	Molecular Basis of Coupled Transport and Anion Conduction in Excitatory Amino Acid Transporters. Neurochemical Research, 2022, 47, 9-22.	3.3	9
21	Noise analysis to study unitary properties of transporter-associated ion channels. Channels, 2011, 5, 468-474.	2.8	8
22	g_elpot: A Tool for Quantifying Biomolecular Electrostatics from Molecular Dynamics Trajectories. Journal of Chemical Theory and Computation, 2021, 17, 3157-3167.	5.3	6
23	Single-nucleotide variants in human CD81 influence hepatitis C virus infection of hepatoma cells. Medical Microbiology and Immunology, 2020, 209, 499-514.	4.8	6
24	A Novel Homozygous <b><i>KLHL3</i></b> Mutation as a Cause of Autosomal Recessive Pseudohypoaldosteronism Type II Diagnosed Late in Life. Nephron, 2022, 146, 418-428.	1.8	4
25	Anion Permeation through Excitatory Amino Acid Transporters. Biophysical Journal, 2014, 106, 149a.	0.5	0
26	Molecular Basis of Voltage-Dependent Gating in ClC Transporters. Biophysical Journal, 2015, 108, 428a.	0.5	0
27	Gating Charge Calculations: Probing Voltage-Sensing Proteins through Computational Electrophysiology. Biophysical Journal, 2016, 110, 106a.	0.5	0
28	Bridging the Gap between Functional and Structural Data. Biophysical Journal, 2019, 116, 557a.	0.5	0
29	Functional Uncoupling of Pain-Linked Nav1.7/A1632E Dimers Partly Rescues Its Pain-Causing Phenotype.	0.5	Ο