Jan-Philipp Machtens

List of Publications by Year
in descending order

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Version: 2024-02-01

29 papers	724 citations	623734 14 h-index	610901 24 g-index
30 all docs	30 docs citations	30 times ranked	858 citing authors

#	Article	IF	Citations
1	Molecular Basis of Coupled Transport and Anion Conduction in Excitatory Amino Acid Transporters. Neurochemical Research, 2022, 47, 9-22.	3.3	9
2	A Novel Homozygous <i>KLHL3</i> Mutation as a Cause of Autosomal Recessive Pseudohypoaldosteronism Type II Diagnosed Late in Life. Nephron, 2022, 146, 418-428.	1.8	4
3	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
4	Molecular mechanisms of ion conduction and ion selectivity in TMEM16 lipid scramblases. Nature Communications, 2021, 12, 2826.	12.8	14
5	Uncoupling sodium channel dimers restores the phenotype of a painâ€linked Na_v1.7 channel mutation. British Journal of Pharmacology, 2020, 177, 4481-4496.	5.4	19
6	Na ⁺ -dependent gate dynamics and electrostatic attraction ensure substrate coupling in glutamate transporters. Science Advances, 2020, 6, .	10.3	23
7	Functional Uncoupling of Pain-Linked Nav1.7/A1632E Dimers Partly Rescues Its Pain-Causing Phenotype. Biophysical Journal, 2020, 118, 579a.	0.5	0
8	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
9	Unique structure and function of viral rhodopsins. Nature Communications, 2019, 10, 4939.	12.8	59
10	Allosteric gate modulation confers K ⁺ coupling in glutamate transporters. EMBO Journal, 2019, 38, e101468.	7.8	28
11	Bridging the Gap between Functional and Structural Data. Biophysical Journal, 2019, 116, 557a.	0.5	0
12	Î²1 subunit stabilises sodium channel Nav1.7 against mechanical stress. Journal of Physiology, 2018, 596, 2433-2445.	2.9	16
13	Gating Charge Calculations by Computational Electrophysiology Simulations. Biophysical Journal, 2017, 112, 1396-1405.	0.5	11
14	Insights into the function of ion channels by computational electrophysiology simulations. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1741-1752.	2.6	60
15	Gating Charge Calculations: Probing Voltage-Sensing Proteins through Computational Electrophysiology. Biophysical Journal, 2016, 110, 106a.	0.5	0
16	Membrane potentials regulating GPCRs: insights from experiments and molecular dynamics simulations. Current Opinion in Pharmacology, 2016, 30, 44-50.	3.5	32
17	Structural Mechanisms of Voltage Sensing in GÂProtein-Coupled Receptors. Structure, 2016, 24, 997-1007.	3.3	48
18	Molecular physiology of EAAT anion channels. Pflugers Archiv European Journal of Physiology, 2016, 468, 491-502.	2.8	47

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19	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
20	Mechanisms of Anion Conduction by Coupled Glutamate Transporters. Cell, 2015, 160, 542-553.	28.9	114
21	Molecular Basis of Voltage-Dependent Gating in ClC Transporters. Biophysical Journal, 2015, 108, 428a.	0.5	0
22	Functional Properties of the Retinal Glutamate Transporters GLT-1c and EAAT5. Journal of Biological Chemistry, 2014, 289, 1815-1824.	3.4	53
23	Anion Permeation through Excitatory Amino Acid Transporters. Biophysical Journal, 2014, 106, 149a.	0.5	0
24	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
25	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
26	Noise analysis to study unitary properties of transporter-associated ion channels. Channels, 2011, 5, 468-474.	2.8	8
27	Substrate-dependent Gating of Anion Channels Associated with Excitatory Amino Acid Transporter 4. Journal of Biological Chemistry, 2011, 286, 23780-23788.	3.4	20
28	Regulation of Glial Glutamate Transporters by C-terminal Domains. Journal of Biological Chemistry, 2011, 286, 1927-1937.	3.4	30
29	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