

Jan-Philipp Machtens

List of Publications by Year in descending order

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30
docs citations

30
times ranked

858
citing authors

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

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19	Gating Charge Calculations by Computational Electrophysiology Simulations. <i>Biophysical Journal</i> , 2017, 112, 1396-1405.	0.5	11
20	Molecular Basis of Coupled Transport and Anion Conduction in Excitatory Amino Acid Transporters. <i>Neurochemical Research</i> , 2022, 47, 9-22.	3.3	9
21	Noise analysis to study unitary properties of transporter-associated ion channels. <i>Channels</i> , 2011, 5, 468-474.	2.8	8
22	g_elpot: A Tool for Quantifying Biomolecular Electrostatics from Molecular Dynamics Trajectories. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3157-3167.	5.3	6
23	Single-nucleotide variants in human CD81 influence hepatitis C virus infection of hepatoma cells. <i>Medical Microbiology and Immunology</i> , 2020, 209, 499-514.	4.8	6
24	A Novel Homozygous <i>KLHL3</i> Mutation as a Cause of Autosomal Recessive Pseudohypoaldosteronism Type II Diagnosed Late in Life. <i>Nephron</i> , 2022, 146, 418-428.	1.8	4
25	Anion Permeation through Excitatory Amino Acid Transporters. <i>Biophysical Journal</i> , 2014, 106, 149a.	0.5	0
26	Molecular Basis of Voltage-Dependent Gating in ClC Transporters. <i>Biophysical Journal</i> , 2015, 108, 428a.	0.5	0
27	Gating Charge Calculations: Probing Voltage-Sensing Proteins through Computational Electrophysiology. <i>Biophysical Journal</i> , 2016, 110, 106a.	0.5	0
28	Bridging the Gap between Functional and Structural Data. <i>Biophysical Journal</i> , 2019, 116, 557a.	0.5	0
29	Functional Uncoupling of Pain-Linked Nav1.7/A1632E Dimers Partly Rescues Its Pain-Causing Phenotype. <i>Biophysical Journal</i> , 2020, 118, 579a.	0.5	0