Simon BernÃ¨che

List of Publications by Year
in descending order

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35 papers	4,408 citations	218677 26 h-index	361022 35 g-index
39 all docs	39 docs citations	39 times ranked	3386 citing authors

#	Article	IF	Citations
1	The Voltage-Dependent Deactivation of the KvAP Channel Involves the Breakage of Its S4 Helix. Frontiers in Molecular Biosciences, 2020, 7, 162.	3.5	5
2	Divergent Cl- and H+ pathways underlie transport coupling and gating in CLC exchangers and channels. ELife, 2020, 9, .	6.0	17
3	Gating energetics of a voltageâ€dependent K⁺ channel pore domain. Journal of Computational Chemistry, 2017, 38, 1472-1478.	3.3	4
4	Unidirectional Transport Mechanism in an ATP Dependent Exporter. ACS Central Science, 2017, 3, 250-258.	11.3	19
5	Conformational dynamics and role of the acidic pocket in ASIC pH-dependent gating. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3768-3773.	7.1	73
6	Mechanism of activation at the selectivity filter of the KcsA K+ channel. ELife, 2017, 6, .	6.0	43
7	Initial steps of inactivation at the K ⁺ channel selectivity filter. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1713-22.	7.1	22
8	Self-Learning Adaptive Umbrella Sampling Method for the Determination of Free Energy Landscapes in Multiple Dimensions. Journal of Chemical Theory and Computation, 2013, 9, 1885-1895.	5.3	80
9	Molecular determinants of desensitization in an ENaC/degenerin channel. FASEB Journal, 2013, 27, 5034-5045.	0.5	44
10	A Limited 4 Ã… Radial Displacement of the S4-S5 Linker Is Sufficient for Internal Gate Closing in Kv Channels. Journal of Biological Chemistry, 2012, 287, 40091-40098.	3.4	28
11	Synergistic substrate binding determines the stoichiometry of transport of a prokaryotic H+/Clâ^' exchanger. Nature Structural and Molecular Biology, 2012, 19, 525-531.	8.2	71
12	An antiparallel actin dimer is associated with the endocytic pathway in mammalian cells. Journal of Structural Biology, 2012, 177, 70-80.	2.8	12
13	Ammonium Transporters Achieve Charge Transfer by Fragmenting Their Substrate. Journal of the American Chemical Society, 2012, 134, 10419-10427.	13.7	60
14	Absence of Ion-Binding Affinity in the Putatively Inactivated Low-[K+] Structure of the KcsA Potassium Channel. Structure, 2011, 19, 70-79.	3.3	17
15	Ion selectivity in channels and transporters. Journal of General Physiology, 2011, 137, 415-426.	1.9	142
16	A Combined Computational and Functional Approach Identifies New Residues Involved in pH-dependent Gating of ASIC1a. Journal of Biological Chemistry, 2010, 285, 16315-16329.	3.4	66
17	Transport mechanisms in the ammonium transporter family. Transfusion Clinique Et Biologique, 2010, 17, 168-175.	0.4	30
18	NanC Crystal Structure, a Model for Outer-Membrane Channels of the Acidic Sugar-Specific KdgM Porin Family. Journal of Molecular Biology, 2009, 394, 718-731.	4.2	40

#	Article	IF	Citations
19	Collaborative EM image processing with the IPLT image processing library and toolbox. Journal of Structural Biology, 2007, 157, 28-37.	2.8	49
20	A Stable Water Chain in the Hydrophobic Pore of the AmtB Ammonium Transporter. Biophysical Journal, 2007, 92, L82-L84.	0.5	37
21	A Gate in the Selectivity Filter of Potassium Channels. Structure, 2005, 13, 591-600.	3.3	190
22	Theoretical and computational models of biological ion channels. Quarterly Reviews of Biophysics, 2004, 37, 15-103.	5.7	362
23	The mechanism of ammonia transport based on the crystal structure of AmtB of Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17090-17095.	7.1	304
24	Control of ion selectivity in potassium channels by electrostatic and dynamic properties of carbonyl ligands. Nature, 2004, 431, 830-834.	27.8	528
25	A microscopic view of ion conduction through the K+ channel. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8644-8648.	7.1	222
26	The Ionization State and the Conformation of Glu-71 in the KcsA K+ Channel. Biophysical Journal, 2002, 82, 772-780.	0.5	85
27	On the Potential Functions used in Molecular Dynamics Simulations of Ion Channels. Biophysical Journal, 2002, 82, 1681-1684.	0.5	76
28	A bas les barriÃ¨resâ€¦ dâ€™Ã©nergie dans les canaux potassiquesÂ!. Medecine/Sciences, 2002, 18, 605-609.	0.2	1
29	Generalized solvent boundary potential for computer simulations. Journal of Chemical Physics, 2001, 114, 2924-2937.	3.0	223
30	Energetics of ion conduction through the K+ channel. Nature, 2001, 414, 73-77.	27.8	745
31	Extracellular Blockade of K+ Channels by Tea. Journal of General Physiology, 2001, 118, 207-218.	1.9	71
32	Anchoring of a monotopic membrane protein: the binding of prostaglandin H2 synthase-1 to the surface of a phospholipid bilayer. European Biophysics Journal, 2000, 29, 439-454.	2.2	49
33	Molecular Dynamics of the KcsA K+ Channel in a Bilayer Membrane. Biophysical Journal, 2000, 78, 2900-2917.	0.5	314
34	Ion Channels, Permeation, and Electrostatics: Insight into the Function of KcsA. Biochemistry, 2000, 39, 13295-13306.	2.5	167
35	Molecular Dynamics Simulation of Melittin in a Dimyristoylphosphatidylcholine Bilayer Membrane. Biophysical Journal, 1998, 75, 1603-1618.	0.5	209