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**A model of the glycine receptor deduced from Brownian dynamics studies**

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#	Paper	IF	Citations
24	Adaptive learning algorithms for nernst potential and I-V curves in nerve cell membrane ion channels modeled as hidden Markov models. <i>IEEE Transactions on Nanobioscience</i> , <b>2003</b> , 2, 266-78	3.4	6
23	Molecular structure and function of the glycine receptor chloride channel. <i>Physiological Reviews</i> , <b>2004</b> , 84, 1051-95	47.9	605
22	Ligand-gated ion channels: mechanisms underlying ion selectivity. <i>Progress in Biophysics and Molecular Biology</i> , <b>2004</b> , 86, 161-204	4.7	157
21	Probing ion-channel pores one proton at a time. <i>Nature</i> , <b>2005</b> , 438, 975-80	50.4	142
20	Ligand-gated channels. <i>IEEE Transactions on Nanobioscience</i> , <b>2005</b> , 4, 70-80	3.4	34
19	Homology model of the GABAA receptor examined using Brownian dynamics. <i>Biophysical Journal</i> , <b>2005</b> , 88, 3286-99	2.9	57
18	Theoretical studies of the M2 transmembrane segment of the glycine receptor: models of the open pore structure and current-voltage characteristics. <i>Biophysical Journal</i> , <b>2005</b> , 89, 1669-80	2.9	21
17	Adaptive Brownian dynamics simulation for estimating potential mean force in ion channel permeation. <i>IEEE Transactions on Nanobioscience</i> , <b>2006</b> , 5, 126-38	3.4	6
16	The reliability of relative anion-cation permeabilities deduced from reversal (dilution) potential measurements in ion channel studies. <i>Cell Biochemistry and Biophysics</i> , <b>2006</b> , 46, 143-54	3.2	27
15	Brownian dynamic model of the glycine receptor chloride channel: effect of the position of charged amino acids on ion membrane currents. <i>IET Systems Biology</i> , <b>2006</b> , 153, 394-7		3
14	. <i>Proceedings of the IEEE</i> , <b>2007</b> , 95, 853-880	14.3	18
13	Biological Membrane Ion Channels. <b>2007</b> ,		36
12	Modeling the fast gating mechanism in the ClC-0 chloride channel. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 5956-65	3.4	21
11	Computational prediction of ion permeation characteristics in the glycine receptor modified by photo-sensitive compounds. <i>Journal of Computer-Aided Molecular Design</i> , <b>2008</b> , 22, 563-70	4.2	2
10	Anion-cation permeability correlates with hydrated counterion size in glycine receptor channels. <i>Biophysical Journal</i> , <b>2008</b> , 95, 4698-715	2.9	19
9	Roles for loop 2 residues of alpha1 glycine receptors in agonist activation. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 27698-27706	5.4	17
8	Loop 2 structure in glycine and GABA(A) receptors plays a key role in determining ethanol sensitivity. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 27304-14	5.4	34

7	Molecular basis for cation selectivity in claudin-2-based paracellular pores: identification of an electrostatic interaction site. <i>Journal of General Physiology</i> , <b>2009</b> , 133, 111-27	3.4	232
6	Anion currents in yeast K <sup>+</sup> transporters (TRK) characterize a structural homologue of ligand-gated ion channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2011</b> , 462, 315-30	4.6	14
5	Synthetic cation-selective nanotube: permeant cations chaperoned by anions. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 045103	3.9	11
4	Engineering aspects of biological ion channels—from biosensors to computational models for permeation. <i>Protoplasma</i> , <b>2012</b> , 249 Suppl 1, S3-9	3.4	7
3	Counterion-assisted cation transport in a biological calcium channel. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 9668-76	3.4	14
2	Brownian Dynamics: Simulation for Ion Channel Permeation1. <b>2007</b> , 507-543		
1	Ligand-Gated Ion Channels: Permeation and Activation1. <b>2007</b> , 335-367		