

Wolfgang Nonner

List of Publications by Year in descending order

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25
papers

2,528
citations

236925

25
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Permeation and Glutamate Residues Linked by Poisson-Nernst-Planck Theory in L-Type Calcium Channels. <i>Biophysical Journal</i> , 1998, 75, 1287-1305.	0.5	255
2	Coupling Poisson-Nernst-Planck and density functional theory to calculate ion flux. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12129-12145.	1.8	238
3	A new voltage clamp method for Ranvier nodes. <i>Pflugers Archiv European Journal of Physiology</i> , 1969, 309, 176-192.	2.8	229
4	Binding and Selectivity in L-Type Calcium Channels: A Mean Spherical Approximation. <i>Biophysical Journal</i> , 2000, 79, 1976-1992.	0.5	208
5	Density functional theory of charged, hard-sphere fluids. <i>Physical Review E</i> , 2003, 68, 031503.	2.1	159
6	Computing induced charges in inhomogeneous dielectric media: Application in a Monte Carlo simulation of complex ionic systems. <i>Physical Review E</i> , 2004, 69, 046702.	2.1	138
7	Progress and Prospects in Permeation. <i>Journal of General Physiology</i> , 1999, 113, 773-782.	1.9	119
8	Anomalous Mole Fraction Effect, Electrostatics, and Binding in Ionic Channels. <i>Biophysical Journal</i> , 1998, 74, 2327-2334.	0.5	113
9	Steric Selectivity in Na Channels Arising from Protein Polarization and Mobile Side Chains. <i>Biophysical Journal</i> , 2007, 93, 1960-1980.	0.5	111
10	Ion Accumulation in a Biological Calcium Channel: Effects of Solvent and Confining Pressure. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6427-6436.	2.6	97
11	The effect of protein dielectric coefficient on the ionic selectivity of a calcium channel. <i>Journal of Chemical Physics</i> , 2006, 125, 034901.	3.0	93
12	Monte Carlo simulations of ion selectivity in a biological Na channel: Charge-space competition. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5154-5160.	2.8	83
13	Bubbles, Gating, and Anesthetics in Ion Channels. <i>Biophysical Journal</i> , 2008, 94, 4282-4298.	0.5	82
14	Combined Effect of Pore Radius and Protein Dielectric Coefficient on the Selectivity of a Calcium Channel. <i>Physical Review Letters</i> , 2007, 98, 168102.	7.8	78
15	Permeation Properties of an Engineered Bacterial OmpF Porin Containing the EEEE-Locus of Ca ²⁺ Channels. <i>Biophysical Journal</i> , 2004, 87, 3137-3147.	0.5	77
16	Ionic selectivity in L-type calcium channels by electrostatics and hard-core repulsion. <i>Journal of General Physiology</i> , 2009, 133, 497-509.	1.9	76
17	Volume Exclusion in Calcium Selective Channels. <i>Biophysical Journal</i> , 2008, 94, 3486-3496.	0.5	58
18	Electrodifusion in ionic channels of biological membranes. <i>Journal of Molecular Liquids</i> , 2000, 87, 149-162.	4.9	50

#	ARTICLE	IF	CITATIONS
19	Ca ²⁺ Selectivity of a Chemically Modified OmpF with Reduced Pore Volume. <i>Biophysical Journal</i> , 2006, 91, 4392-4400.	0.5	49
20	Ca ²⁺ -transport properties and determinants of anomalous mole fraction effects of single voltage-gated Ca ²⁺ -channels in hair cells from bullfrog saccule. <i>Journal of Physiology</i> , 2002, 538, 729-745.	2.9	42
21	Protein structure and ionic selectivity in calcium channels: Selectivity filter size, not shape, matters. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2471-2480.	2.6	42
22	Relating Microscopic Charge Movement to Macroscopic Currents: The Ramo-Shockley Theorem Applied to Ion Channels. <i>Biophysical Journal</i> , 2004, 87, 3716-3722.	0.5	36
23	Monte Carlo Simulation Study of a System with a Dielectric Boundary: Application to Calcium Channel Selectivity. <i>Molecular Simulation</i> , 2004, 30, 89-96.	2.0	35
24	A physical mechanism for large-ion selectivity of ion channels. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4763-4769.	2.8	32
25	Structure of the axolemma of frog myelinated nerve: Relaxation experiments with a lipophilic probe ion. <i>Journal of Membrane Biology</i> , 1981, 59, 127-134.	2.1	28