

# 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	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
2	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
3	Bubbles, Gating, and Anesthetics in Ion Channels. <i>Biophysical Journal</i> , 2008, 94, 4282-4298.	0.5	82
4	Volume Exclusion in Calcium Selective Channels. <i>Biophysical Journal</i> , 2008, 94, 3486-3496.	0.5	58
5	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
6	Steric Selectivity in Na Channels Arising from Protein Polarization and Mobile Side Chains. <i>Biophysical Journal</i> , 2007, 93, 1960-1980.	0.5	111
7	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
8	Ca <sup>2+</sup> Selectivity of a Chemically Modified OmpF with Reduced Pore Volume. <i>Biophysical Journal</i> , 2006, 91, 4392-4400.	0.5	49
9	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
10	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
11	Permeation Properties of an Engineered Bacterial OmpF Porin Containing the EEEE-Locus of Ca <sup>2+</sup> Channels. <i>Biophysical Journal</i> , 2004, 87, 3137-3147.	0.5	77
12	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
13	Density functional theory of charged, hard-sphere fluids. <i>Physical Review E</i> , 2003, 68, 031503.	2.1	159
14	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
15	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
16	A physical mechanism for large-ion selectivity of ion channels. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4763-4769.	2.8	32
17	Ca <sup>2+</sup> -transport properties and determinants of anomalous mole fraction effects of single voltage-gated Ca <sup>2+</sup> -channels in hair cells from bullfrog saccule. <i>Journal of Physiology</i> , 2002, 538, 729-745.	2.9	42
18	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

#	ARTICLE	IF	CITATIONS
19	Electrodifusion in ionic channels of biological membranes. Journal of Molecular Liquids, 2000, 87, 149-162.	4.9	50
20	Binding and Selectivity in L-Type Calcium Channels:A Mean Spherical Approximation. Biophysical Journal, 2000, 79, 1976-1992.	0.5	208
21	Progress and Prospects in Permeation. Journal of General Physiology, 1999, 113, 773-782.	1.9	119
22	Ion Permeation and Glutamate Residues Linked by Poisson-Nernst-Planck Theory in L-Type Calcium Channels. Biophysical Journal, 1998, 75, 1287-1305.	0.5	255
23	Anomalous Mole Fraction Effect, Electrostatics, and Binding in Ionic Channels. Biophysical Journal, 1998, 74, 2327-2334.	0.5	113
24	Structure of the axolemma of frog myelinated nerve: Relaxation experiments with a lipophilic probe ion. Journal of Membrane Biology, 1981, 59, 127-134.	2.1	28
25	A new voltage clamp method for Ranvier nodes. Pflugers Archiv European Journal of Physiology, 1969, 309, 176-192.	2.8	229