Roland Benz

List of Publications by Year
in descending order

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320 papers	14,435 citations	19608 61 h-index	32761 100 g-index
329 all docs	329 docs citations	329 times ranked	9709 citing authors

#	Article	IF	Citations
1	Mechanism of Interaction of Different Classes of Cationic Antimicrobial Peptides with Planar Bilayers and with the Cytoplasmic Membrane of Escherichia coli. Biochemistry, 1999, 38, 7235-7242.	1.2	681
2	Permeation of hydrophilic solutes through mitochondrial outer membranes: review on mitochondrial porins. BBA - Biomembranes, 1994, 1197, 167-196.	7.9	384
3	The Preprotein Translocation Channel of the Outer Membrane of Mitochondria. Cell, 1998, 93, 1009-1019.	13.5	363
4	Permeation of hydrophilic molecules through the outer membrane of gram-negativ bacteria. Review of becterial porins. FEBS Journal, 1988, 176, 1-19.	0.2	255
5	Porin from Bacterial and Mitochondrial Outer Membrane. Critical Reviews in Biochemistry, 1985, 19, 145-190.	7.5	247
6	Evidence for identity between the hexokinase-binding protein and the mitochondrial porin in the outer membrane of rat liver mitochondria. Biochimica Et Biophysica Acta - Biomembranes, 1982, 688, 429-440.	1.4	245
7	The repeat domain of Escherichia coli haemolysin (HlyA) is responsible for its Ca2+-dependent binding to erythrocytes. Molecular Genetics and Genomics, 1988, 214, 553-561.	2.4	209
8	Structural Properties of Pore-Forming Oligomers of Î±-Synuclein. Journal of the American Chemical Society, 2009, 131, 17482-17489.	6.6	191
9	Lipid II-Mediated Pore Formation by the Peptide Antibiotic Nisin: a Black Lipid Membrane Study. Journal of Bacteriology, 2004, 186, 3259-3261.	1.0	183
10	Identification and characterization of the pore-forming protein in the outer membrane of rat liver mitochondria. Biochimica Et Biophysica Acta - Biomembranes, 1982, 686, 204-214.	1.4	181
11	Properties of the large ion-permeable pores formed from protein F of Pseudomonas aeruginosa in lipid bilayer membranes. Biochimica Et Biophysica Acta - Biomembranes, 1981, 646, 298-308.	1.4	179
12	Structure of the cell envelope of corynebacteria: importance of the non-covalently bound lipids in the formation of the cell wall permeability barrier and fracture plane. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 Td	0.7	159
13	Mechanism of sugar transport through the sugar-specific LamB channel ofEscherichia coli outer membrane. Journal of Membrane Biology, 1987, 100, 21-29.	1.0	177
14	Purification and Characterisation of a Pore Protein of the Outer Mitochondrial Membrane from Neurospora crassa. FEBS Journal, 1982, 123, 629-636.	0.2	172
15	Transport of oppositely charged lipophilic probe ions in lipid bilayer membranes having various structures. Journal of Membrane Biology, 1978, 44, 353-376.	1.0	168
16	Cellular Uptake of Clostridium botulinum C2 Toxin Requires Oligomerization and Acidification. Journal of Biological Chemistry, 2000, 275, 18704-18711.	1.6	161
17	The kinetic mechanism by which CCCP (carbonyl cyanidem-Chlorophenylhydrazone) transports protons across membranes. Journal of Membrane Biology, 1984, 82, 179-190.	1.0	158
18	Permeability of the cell wall of Mycobacterium smegmatis. Molecular Microbiology, 1994, 14, 283-290.	1.2	150

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19	Influence of Proline Residues on the Antibacterial and Synergistic Activities of Î±-Helical Peptidesâ€. Biochemistry, 1999, 38, 8102-8111.	1.2	149
20	Cloning of the mspA gene encoding a porin from Mycobacterium smegmatis. Molecular Microbiology, 1999, 33, 933-945.	1.2	143
21	The cationically selective state of the mitochondrial outer membrane pore: a study with intact mitochondria and reconstituted mitochondrial porin. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1022, 311-318.	1.4	141
22	Clostridium perfringens Epsilon Toxin Induces a Rapid Change of Cell Membrane Permeability to Ions and Forms Channels in Artificial Lipid Bilayers. Journal of Biological Chemistry, 2001, 276, 15736-15740.	1.6	141
23	Low pH-induced Formation of Ion Channels by Clostridium difficile Toxin B in Target Cells. Journal of Biological Chemistry, 2001, 276, 10670-10676.	1.6	141
24	A syringe-like injection mechanism in Photorhabdus luminescens toxins. Nature, 2013, 495, 520-523.	13.7	130
25	Pxmp2 Is a Channel-Forming Protein in Mammalian Peroxisomal Membrane. PLoS ONE, 2009, 4, e5090.	1.1	126
26	Modulation of Neisseria Porin (PorB) by Cytosolic ATP/GTP of Target Cells: Parallels between Pathogen Accommodation and Mitochondrial Endosymbiosis. Cell, 1996, 85, 391-402.	13.5	123
27	Pore-forming activity in the outer membrane of the chloroplast envelope. FEBS Letters, 1984, 169, 85-89.	1.3	120
28	Porin pores of mitochondrial outer membranes from high and low eukaryotic cells: biochemical and biophysical characterization. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 894, 109-119.	0.5	120
29	Inhibition of adenine nucleotide transport through the mitochondrial porin by a synthetic polyanion. FEBS Letters, 1988, 231, 75-80.	1.3	115
30	LcrV is a channel size-determining component of the Yop effector translocon of Yersinia. Molecular Microbiology, 2001, 39, 620-632.	1.2	111
31	A Review on the Valorization of Macroalgal Wastes for Biomethane Production. Marine Drugs, 2016, 14, 120.	2.2	111
32	Î²-Barrel Mobility Underlies Closure of the Voltage-Dependent Anion Channel. Structure, 2012, 20, 1540-1549.	1.6	104
33	SlyA, a regulatory protein from Salmonella typhimurium, induces a haemolytic and pore-forming protein in Escherichia coli. Molecular Genetics and Genomics, 1995, 249, 474-486.	2.4	103
34	Interaction of non-classical detergents with the mitochondrial porin. A new purification procedure and characterization of the pore-forming unit. FEBS Journal, 1989, 183, 179-187.	0.2	102
35	Analysis of the SlyA-controlled expression, subcellular localization and pore-forming activity of a 34 kDa haemolysin (ClyA) from Escherichia coli K-12. Molecular Microbiology, 1999, 31, 557-567.	1.2	100
36	Determination of ion permeability through the channels made of porins from the outer membrane ofSalmonella typhimurium in lipid bilayer membranes. Journal of Membrane Biology, 1980, 56, 19-29.	1.0	96

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37	Structural determinants for membrane insertion, pore formation and translocation of Clostridium difficile toxin B. Molecular Microbiology, 2011, 79, 1643-1654.	1.2	96
38	Structural and Functional Characterization of an Essential RTX Subdomain of Bordetella pertussis Adenylate Cyclase Toxin. Journal of Biological Chemistry, 2006, 281, 16914-16926.	1.6	91
39	Influence of sterols on ion transport through lipid bilayer membranes. Biochimica Et Biophysica Acta - Biomembranes, 1978, 506, 265-280.	1.4	90
40	The 35 kDa DCCD-binding protein from pig heart mitochondria is the mitochondrial porin. Biochimica Et Biophysica Acta - Biomembranes, 1985, 813, 230-242.	1.4	86
41	How do protons cross the membrane-solution interface? Kinetic studies on bilayer membranes exposed to the protonophore S-13 (5-chloro-3-tert-butyl-2â€²-chloro-4â€² nitrosalicylanilide). Journal of Membrane Biology, 1987, 95, 73-89.	1.0	84
42	An RND-Type Efflux System in Borrelia burgdorferi Is Involved in Virulence and Resistance to Antimicrobial Compounds. PLoS Pathogens, 2008, 4, e1000009.	2.1	83
43	TolC of Escherichia coli Functions as an Outer Membrane Channel. Zentralblatt Fur Bakteriologie: International Journal of Medical Microbiology, 1993, 278, 187-196.	0.5	82
44	An Amphipathic Î±-Helix Including Glutamates 509 and 516 Is Crucial for Membrane Translocation of Adenylate Cyclase Toxin and Modulates Formation and Cation Selectivity of Its Membrane Channels. Journal of Biological Chemistry, 1999, 274, 37644-37650.	1.6	78
45	Cholesterol-dependent Pore Formation of Clostridium difficile Toxin A. Journal of Biological Chemistry, 2006, 281, 10808-10815.	1.6	77
46	Mutations affecting pore formation by haemolysin from Escherichia coli. Molecular Genetics and Genomics, 1991, 226-226, 198-208.	2.4	74
47	The Role of the N and C Termini of Recombinant Neurospora Mitochondrial Porin in Channel Formation and Voltage-dependent Gating. Journal of Biological Chemistry, 1996, 271, 13593-13599.	1.6	74
48	Biochemical and Biophysical Characterization of the Cell Wall Porin of Corynebacterium glutamicum:â€‰ The Channel Is Formed by a Low Molecular Mass Polypeptide. Biochemistry, 1998, 37, 15024-15032.	1.2	72
49	Interaction ofClostridium botulinumC2â€toxin with lipid bilayer membranes and vero cells: inhibition of channel function by chloroquine and related compoundsin vitroand intoxificationin vivo. FASEB Journal, 2001, 15, 1658-1660.	0.2	72
50	Interaction of Clostridium perfringenslota-Toxin with Lipid Bilayer Membranes. Journal of Biological Chemistry, 2002, 277, 6143-6152.	1.6	72
51	Structures of sequential open states in a symmetrical opening transition of the TolC exit duct. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2112-2117.	3.3	72
52	Insecticidal Toxin Complex Proteins from Xenorhabdus nematophilus. Journal of Biological Chemistry, 2011, 286, 22742-22749.	1.6	71
53	Acylation of Lysine 860 Allows Tight Binding and Cytotoxicity of Bordetella Adenylate Cyclase on CD11b-Expressing Cells. Biochemistry, 2005, 44, 12759-12766.	1.2	68
54	Outer-membrane protein PhoE from Escherichia coli forms anion-selective pores in lipid-bilayer membranes. FEBS Journal, 1984, 140, 319-324.	0.2	67

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55	The haemolysin-secreting ShlB protein of the outer membrane of Serratia marcescens : determination of surface-exposed residues and formation of ion-permeable pores by ShlB mutants in artificial lipid bilayer membranes. Molecular Microbiology, 1999, 32, 1212-1225.	1.2	66
56	Determination of the Conformation of the Human VDAC1 N-Terminal Peptide, a Protein Moiety Essential for the Functional Properties of the Pore. ChemBioChem, 2007, 8, 744-756.	1.3	66
57	The Membrane of Leaf Peroxisomes Contains a Porin-like Channel. Journal of Biological Chemistry, 1995, 270, 17559-17565.	1.6	65
58	Pore-Forming Properties of the Plasmid-Encoded Hemolysin of Enterohemorrhagic Escherichia Coli 0157: H7. FEBS Journal, 1996, 241, 594-601.	0.2	65
59	The C Terminus of Component C2II of Clostridium botulinum C2 Toxin Is Essential for Receptor Binding. Infection and Immunity, 2000, 68, 4566-4573.	1.0	65
60	Diffusion through channel derivatives of theEscherichia coliFhuA transport protein. FEBS Journal, 2002, 269, 4948-4959.	0.2	65
61	Demonstration and chemical modification of a specific phosphate binding site in the phosphate-starvation-inducible outer membrane porin protein P of Pseudomonas aeruginosa. Biochimica Et Biophysica Acta - Biomembranes, 1986, 860, 699-707.	1.4	64
62	Permeability properties of the porin of spinach leaf peroxisomes. FEBS Journal, 1998, 251, 359-366.	0.2	63
63	Clostridium botulinum C2 Toxin. Journal of Biological Chemistry, 2003, 278, 37360-37367.	1.6	63
64	Segments Crucial for Membrane Translocation and Pore-forming Activity of Bordetella Adenylate Cyclase Toxin. Journal of Biological Chemistry, 2007, 282, 12419-12429.	1.6	63
65	The diphenylpyrazole compound anle138b blocks Aî² channels and rescues disease phenotypes in a mouse model for amyloid pathology. EMBO Molecular Medicine, 2018, 10, 32-47.	3.3	63
66	Pore formation by the mitochondrial porin of rat brain in lipid bilayer membranes. Biochimica Et Biophysica Acta - Biomembranes, 1986, 860, 268-276.	1.4	62
67	Alkali ion transport through lipid bilayer membranes mediated by enniatin A and B and beauvericin. Journal of Membrane Biology, 1978, 43, 367-394.	1.0	60
68	The cell wall porin ofNocardia farcinica: biochemical identification of the channelâ€forming protein and biophysical characterization of the channel properties. Molecular Microbiology, 1998, 29, 139-150.	1.2	59
69	The major outer membrane protein OprG ofPseudomonas aeruginosacontributes to cytotoxicity and forms an anaerobically regulated, cation-selective channel. FEMS Microbiology Letters, 2009, 296, 241-247.	0.7	59
70	Clostridium septicum alpha-toxin forms pores and induces rapid cell necrosis. Toxicon, 2010, 55, 61-72.	0.8	59
71	Optical and electrical properties of thin monoolein lipid bilayers. Journal of Membrane Biology, 1985, 85, 181-189.	1.0	58
72	Negative regulation of mitochondrial VDAC channels by C-Raf kinase. BMC Cell Biology, 2002, 3, 14.	3.0	58

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73	Î²â€synuclein aggregates and induces neurodegeneration in dopaminergic neurons. Annals of Neurology, 2013, 74, 109-118.	2.8	58
74	Pulling Peptides across Nanochannels: Resolving Peptide Binding and Translocation through the Hetero-oligomeric Channel from Nocardia farcinica. ACS Nano, 2012, 6, 10699-10707.	7.3	57
75	The Adsorption of Phloretin to Lipid Monolayers and Bilayers Cannot Be Explained by Langmuir Adsorption Isotherms Alone. Biophysical Journal, 1998, 74, 1399-1408.	0.2	56
76	Molecular and functional characterization of VDAC2 purified from mammal spermatozoa. Bioscience Reports, 2009, 29, 351-362.	1.1	56
77	Selective and specific internalization of clostridial C3 ADP-ribosyltransferases into macrophages and monocytes. Cellular Microbiology, 2010, 12, 233-247.	1.1	56
78	HlyA Hemolysin of Vibrio Cholerae O1 Biotype El Tor. Identification of the Hemolytic Complex and Evidence for the Formation of Anion-Selective Ion-Permeable Channels. FEBS Journal, 1996, 240, 646-654.	0.2	55
79	Interaction of Phloretin with Lipid Monolayers: Relationship between Structural Changes and Dipole Potential Change. Biophysical Journal, 1999, 77, 1477-1488.	0.2	55
80	Anthrax Toxin Protective Antigen: Inhibition of Channel Function by Chloroquine and Related Compounds and Study of Binding Kinetics Using the Current Noise Analysis. Biophysical Journal, 2005, 88, 1715-1724.	0.2	55
81	Topology of PhoE porin: the 'eyelet' region. Molecular Microbiology, 1993, 7, 131-140.	1.2	54
82	Role of Sterols in the Functional Reconstitution of Water-Soluble Mitochondrial Porins from Different Organisms. Biochemistry, 1995, 34, 3352-3361.	1.2	54
83	Rate Constants of Sugar Transport Through Two LamB Mutants ofEscherichia coli: Comparison with Wild-type Maltoporin and LamB ofSalmonella typhimurium. Journal of Molecular Biology, 1996, 259, 666-678.	2.0	53
84	Xâ€ray crystallographic and mass spectrometric structure determination and functional characterization of succinylated porin from rhodobacter capsulatus: Implications for ion selectivity and singleâ€channel conductance. Protein Science, 1996, 5, 1477-1489.	3.1	53
85	The cation-selective substate of the mitochondrial outer membrane pore: Single-channel conductance and influence on intermembrane and peripheral kinases. Journal of Bioenergetics and Biomembranes, 1992, 24, 33-39.	1.0	52
86	Chapter 19 Uptake of solutes through bacterial outer membranes. New Comprehensive Biochemistry, 1994, 27, 397-423.	0.1	52
87	Channel Formation by the Binding Component ofClostridium botulinumC2 Toxin:Â Glutamate 307 of C2II Affects Channel Propertiesin Vitroand pH-Dependent C2I Translocationin Vivoâ€. Biochemistry, 2003, 42, 5368-5377.	1.2	52
88	Characterization of Dominantly Negative Mutant ClyA Cytotoxin Proteins in Escherichia coli. Journal of Bacteriology, 2003, 185, 5491-5499.	1.0	52
89	Oligomerization is involved in pore formation byBordetellaadenylate cyclase toxin. FASEB Journal, 2009, 23, 2831-2843.	0.2	51
90	Characterization of the nucleoside-binding site inside the Tsx channel of Escherichia coli outer membrane Reconstitution experiments with lipid bilayer membranes. FEBS Journal, 1988, 176, 699-705.	0.2	50

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91	Identification of a new pore in the mitochondrial outer membrane of a porin-deficient yeast mutant. FEBS Journal, 1989, 181, 703-708.	0.2	50
92	Pore formation in artificial membranes by the secreted hemolysins of Proteus vulgaris and Morganella morganii. FEBS Journal, 1994, 220, 339-347.	0.2	49
93	ClyA cytolysin from Salmonella: Distribution within the genus, regulation of expression by SlyA, and pore-forming characteristics. International Journal of Medical Microbiology, 2009, 299, 21-35.	1.5	49
94	Interaction of phloretin with membranes: on the mode of action of phloretin at the water-lipid interface. European Biophysics Journal, 2000, 29, 172-183.	1.2	48
95	Identification of Novel in Vivo Phosphorylation Sites of the Human Proapoptotic Protein BAD. Journal of Biological Chemistry, 2009, 284, 28004-28020.	1.6	48
96	Oligomerization of Escherichia coli haemolysin (HlyA) is involved in pore formation. Molecular Genetics and Genomics, 1993, 241-241, 89-96.	2.4	47
97	Reversible electrical breakdown of squid giant axon membrane. Biochimica Et Biophysica Acta - Biomembranes, 1981, 645, 115-123.	1.4	46
98	Identification of an anion-specific channel in the cell wall of the Gram-positive bacterium Corynebacterium glutamicum. Molecular Microbiology, 2003, 50, 1295-1308.	1.2	46
99	Interaction of hopanoids with phosphatidylcholines containing oleic and ï‰-cyclohexyldodecanoic acid in lipid bilayer membranes. Chemistry and Physics of Lipids, 1983, 34, 7-24.	1.5	45
100	Clostridium perfringens Delta Toxin Is Sequence Related to Beta Toxin, NetB, and Staphylococcus Pore-Forming Toxins, but Shows Functional Differences. PLoS ONE, 2008, 3, e3764.	1.1	45
101	Online monitoring of concentration and dynamics of volatile fatty acids in anaerobic digestion processes with mid-infrared spectroscopy. Bioprocess and Biosystems Engineering, 2015, 38, 237-249.	1.7	45
102	Characterization of the mitochondrial porin from Drosophila melanogaster. Biochimica Et Biophysica Acta - Biomembranes, 1989, 987, 1-7.	1.4	42
103	Ion Selectivity Reversal and Induction of Voltage-Gating by Site-Directed Mutations in theParacoccus denitrificansPorinâ€. Biochemistry, 1999, 38, 2206-2212.	1.2	42
104	Regulation of glycolysis by Raf protein serine/threonine kinases. Advances in Enzyme Regulation, 2002, 42, 317-332.	2.9	42
105	Studies on Human Porin. VII. The Channel Properties of the Human B-Lymphocyte Membrane-Derived â€œPorin 31HLâ€•are Similar to those of Mitochondrial Porins. Biological Chemistry Hoppe-Seyler, 1992, 373, 295-304.	1.4	41
106	Identification of the channel-forming domain of Clostridium perfringens Epsilon-toxin (ETX). Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 2584-2593.	1.4	41
107	Properties of a Cyclodextrin-specific, Unusual Porin from Klebsiella oxytoca. Journal of Biological Chemistry, 1999, 274, 25159-25166.	1.6	40
108	Biochemical Identification and Biophysical Characterization of a Channel-Forming Protein fromRhodococcus erythropolis. Journal of Bacteriology, 2000, 182, 764-770.	1.0	40

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109	Both Î±-haemolysin determinants contribute to full virulence of uropathogenic Escherichia coli strain 536. Microbes and Infection, 2006, 8, 2006-2012.	1.0	40
110	Structure of the squid axon membrane as derived from charge-pulse relaxation studies in the presence of absorbed lipophilic ions. Journal of Membrane Biology, 1981, 59, 91-104.	1.0	39
111	O-Mycoloylated Proteins from Corynebacterium. Journal of Biological Chemistry, 2010, 285, 21908-21912.	1.6	39
112	Structure, Dynamics, and Substrate Specificity of the OprO Porin from Pseudomonas aeruginosa. Biophysical Journal, 2015, 109, 1429-1438.	0.2	39
113	Channel formation by RTX-toxins of pathogenic bacteria: Basis of their biological activity. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 526-537.	1.4	39
114	Porin of Paramecium mitochondria isolation, characterization and ion selectivity of the closed state. Biochimica Et Biophysica Acta - Biomembranes, 1989, 978, 319-327.	1.4	38
115	The Fusobacterium nucleatum Major Outer-Membrane Protein (FomA) Forms Trimeric, Water-Filled Channels in Lipid Bilayer Membranes. FEBS Journal, 1995, 233, 310-316.	0.2	38
116	Mechanism of C2-toxin Inhibition by Fluphenazine and Related Compounds: Investigation of their Binding Kinetics to the C2II-channel using the Current Noise Analysis. Journal of Molecular Biology, 2003, 333, 527-540.	2.0	38
117	Characterization of OpdH, a Pseudomonas aeruginosa Porin Involved in the Uptake of Tricarboxylates. Journal of Bacteriology, 2007, 189, 929-939.	1.0	37
118	Clostridium botulinum C2 Toxin. Journal of Biological Chemistry, 2008, 283, 3904-3914.	1.6	37
119	Studies on Human Porin. III. Does the Voltage-Dependent Anion Channel â€œPorin 31HLâ€•Form Part of the Chloride Channel Complex, which is Observed in Different Cells and Thought to be Affected in Cystic Fibrosis?. Biological Chemistry Hoppe-Seyler, 1990, 371, 1047-1050.	1.4	36
120	The gene bglH present in the bgl operon of Escherichia coli, responsible for uptake and fermentation of beta-glucosides encodes for a carbohydrate-specific outer membrane porin. Molecular Microbiology, 1999, 31, 499-510.	1.2	36
121	pH-induced Collapse of the Extracellular Loops ClosesEscherichia coli Maltoporin and Allows the Study of Asymmetric Sugar Binding. Journal of Biological Chemistry, 2002, 277, 41318-41325.	1.6	36
122	PorA Represents the Major Cell Wall Channel of the Gram-Positive Bacterium Corynebacterium glutamicum. Journal of Bacteriology, 2003, 185, 4779-4786.	1.0	36
123	Elimination of channel-forming activity by insertional inactivation of thep66gene inBorrelia burgdorferi. FEMS Microbiology Letters, 2007, 266, 241-249.	0.7	35
124	Differences in Purinergic Amplification of Osmotic Cell Lysis by the Pore-Forming RTX Toxins Bordetella pertussis CyaA and Actinobacillus pleuropneumoniae ApxIA: the Role of Pore Size. Infection and Immunity, 2013, 81, 4571-4582.	1.0	35
125	Functional reconstitution of ICln in lipid bilayers. Pflugers Archiv European Journal of Physiology, 2000, 440, 100-115.	1.3	33
126	Channel Formation in Model Membranes by the Adenylate Cyclase Toxin of Bordetella pertussis:â€‰ Effect of Calcium. Biochemistry, 2003, 42, 8077-8084.	1.2	33

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127	Interaction of Bacteriophage Lambda with Its Cell Surface Receptor:â€‰An in Vitro Study of Binding of the Viral Tail Protein gpJ to LamB (Maltoporin). Biochemistry, 2006, 45, 2708-2720.	1.2	33
128	Isolation of mitochondrial porin from Neurospora crassa. FEBS Letters, 1982, 145, 72-76.	1.3	32
129	Elimination of Channel-Forming Activity by Insertional Inactivation of the p13 Gene in Borrelia burgdorferi. Journal of Bacteriology, 2002, 184, 6811-6819.	1.0	32
130	Amino Acid Residues Involved in Membrane Insertion and Pore Formation of Clostridium botulinum C2 Toxin. Biochemistry, 2008, 47, 8406-8413.	1.2	32
131	Deletion of Î²-strands 9 and 10 converts VDAC1 voltage-dependence in an asymmetrical process. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 793-805.	0.5	32
132	Structure of a Tc holotoxin pore provides insights into the translocation mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23083-23090.	3.3	32
133	A Putative Î±-Helical Porin from Corynebacterium glutamicum. Journal of Molecular Biology, 2008, 379, 482-491.	2.0	31
134	Identification and characterization of the channel-forming protein in the cell wall of Corynebacterium amycolatum. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2574-2582.	1.4	31
135	Thermo-acidic pretreatment of marine brown algae Fucus vesiculosus to increase methane productionâ€"a disposal principle for macroalgae waste from beaches. Journal of Applied Phycology, 2015, 27, 601-609.	1.5	31
136	Role of lysines in ion selectivity of bacterial outer membrane porins. Biochimica Et Biophysica Acta - Biomembranes, 1986, 860, 263-267.	1.4	30
137	Crystallization and Preliminary X-ray Diffraction Analysis of ScrY, a Specific Bacterial Outer Membrane Porin. Journal of Molecular Biology, 1993, 229, 258-262.	2.0	30
138	Interaction of Serratia marcescens hemolysin (ShlA) with artificial and erythrocyte membranes. Demonstration of the formation of aqueous multistate channels. FEBS Journal, 1994, 223, 655-663.	0.2	30
139	The deletion of 70 amino acids near the N-terminal end of the sucrose-specific porin ScrY causes its functional similarity to LamB in vivo and in vitro. Molecular Microbiology, 1995, 17, 757-767.	1.2	30
140	Vegetative Insecticidal Protein (Vip1Ac) ofBacillus thuringiensisHD201:Â Evidence for Oligomer and Channel Formationâ€. Biochemistry, 2006, 45, 283-288.	1.2	30
141	[27] Isolation and properties of the porin of the outer mitochondrial membrane from Neurospora crassa. Methods in Enzymology, 1983, 97, 286-294.	0.4	29
142	Energy-coupled transport through the outer membrane ofEscherichia colismall deletions in the gating loop convert the FhuA transport protein into a diffusion channel. FEBS Letters, 1994, 346, 59-64.	1.3	29
143	Collective membrane motions in the mesoscopic range and their modulation by the binding of a monomolecular protein layer of streptavidin studied by dynamic light scattering. Physical Review E, 1999, 59, 5987-5994.	0.8	29
144	Phloretin-Induced Changes of Lipophilic Ion Transport across the Plasma Membrane of Mammalian Cells. Biophysical Journal, 2001, 81, 1006-1013.	0.2	29

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145	Use of Nonelectrolytes Reveals the Channel Size and Oligomeric Constitution of the Borrelia burgdorferi P66 Porin. PLoS ONE, 2013, 8, e78272.	1.1	29
146	Structure of the axolemma of frog myelinated nerve: Relaxation experiments with a lipophilic probe ion. Journal of Membrane Biology, 1981, 59, 127-134.	1.0	28
147	Molecular basis of porin selectivity: membrane experiments with OmpC-PhoE and OmpF-PhoE hybrid proteins of Escherichia coli K-12. Biochimica Et Biophysica Acta - Biomembranes, 1989, 981, 8-14.	1.4	28
148	Anion transport through the phosphate-specific OprP-channel of the Pseudomonas aeruginosa outer membrane: effects of phosphate, di-and tribasic anions and of negatively-charged lipids. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1149, 224-230.	1.4	28
149	The cell wall porin of the gram-positive bacterium Nocardia asteroides forms cation-selective channels that exhibit asymmetric voltage dependence. Archives of Microbiology, 1999, 171, 173-182.	1.0	28
150	Functional Characterization of a Second Porin Isoform in Drosophila melanogaster. Journal of Biological Chemistry, 2004, 279, 25364-25373.	1.6	28
151	Reconstitution Experiments and Gene Deletions Reveal the Existence of Two-Component Major Cell Wall Channels in the Genus Corynebacterium. Journal of Bacteriology, 2010, 192, 786-800.	1.0	28
152	Modeling the Ion Selectivity of the Phosphate Specific Channel OprP. Journal of Physical Chemistry Letters, 2012, 3, 3639-3645.	2.1	28
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