Janet M Wood

List of Publications by Year
in descending order

58 papers	4,377 citations	147801 31 h-index	149698 56 g-index
60 all docs	60 docs citations	60 times ranked	3592 citing authors

#	Article	IF	Citations
1	Cultivation at high osmotic pressure confers ubiquinone 8â€“independent protection of respiration onEscherichia coli. Journal of Biological Chemistry, 2020, 295, 981-993.	3.4	4
2	Salt-Dependent Interactions between the C-Terminal Domain of Osmoregulatory Transporter ProP of Escherichia coli and the Lipid Membrane. Journal of Physical Chemistry B, 2020, 124, 8209-8220.	2.6	5
3	Cultivation at high osmotic pressure confers ubiquinone 8â€“independent protection of respiration on Escherichia coli. Journal of Biological Chemistry, 2020, 295, 981-993.	3.4	10
4	Cardiolipin synthase A colocalizes with cardiolipin and osmosensing transporter ProP at the poles of Escherichia coli cells. Molecular Microbiology, 2018, 107, 623-638.	2.5	26
5	Perspective: challenges and opportunities for the study of cardiolipin, a key player in bacterial cell structure and function. Current Genetics, 2018, 64, 795-798.	1.7	9
6	Dual Role of the C-Terminal Domain in Osmosensing by Bacterial Osmolyte Transporter ProP. Biophysical Journal, 2018, 115, 2152-2166.	0.5	11
7	ProPâ€ProP and ProPâ€phospholipid interactions determine the subcellular distribution of osmosensing transporter ProP inEscherichia coli. Molecular Microbiology, 2017, 103, 469-482.	2.5	13
8	Contributions of Coulombic and Hofmeister Effects to the Osmotic Activation of Escherichia coli Transporter ProP. Biochemistry, 2016, 55, 1301-1313.	2.5	20
9	Bacterial responses to osmotic challenges. Journal of General Physiology, 2015, 145, 381-388.	1.9	245
10	YehZYXW of Escherichia coli Is a Low-Affinity, Non-Osmoregulatory Betaine-Specific ABC Transporter. Biochemistry, 2015, 54, 5735-5747.	2.5	25
11	Osmotic Stress. , 2014, , 133-156.		11
12	Analysis of Strains Lacking Known Osmolyte Accumulation Mechanisms Reveals Contributions of Osmolytes and Transporters to Protection against Abiotic Stress. Applied and Environmental Microbiology, 2014, 80, 5366-5378.	3.1	23
13	Salinity-Dependent Impacts of ProQ, Prc, and Spr Deficiencies on Escherichia coli Cell Structure. Journal of Bacteriology, 2014, 196, 1286-1296.	2.2	24
14	Impacts of the Osmolality and the Lumenal Ionic Strength on Osmosensory Transporter ProP in Proteoliposomes. Journal of Biological Chemistry, 2012, 287, 27813-27822.	3.4	11
15	ProQ Is an RNA Chaperone that Controls ProP Levels in Escherichia coli. Biochemistry, 2011, 50, 3095-3106.	2.5	80
16	Bacterial Osmoregulation: A Paradigm for the Study of Cellular Homeostasis. Annual Review of Microbiology, 2011, 65, 215-238.	7.3	251
17	Transmembrane Helix I and Periplasmic Loop 1 ofEscherichia coliProP Are Involved in Osmosensing and Osmoprotectant Transport. Biochemistry, 2010, 49, 8847-8856.	2.5	21
18	Protein Localization in Escherichia coli Cells: Comparison of the Cytoplasmic Membrane Proteins ProP, LacY, ProW, AqpZ, MscS, and MscL. Journal of Bacteriology, 2010, 192, 912-924.	2.2	104

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19	Cardiolipin and the osmotic stress responses of bacteria. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 2092-2100.	2.6	208
20	Osmotic Stress. EcoSal Plus, 2009, 3, .	5.4	48
21	Roles of K⁺, H⁺, H₂O, and Î”Î¨ in Solute Transport Mediated by Major Facilitator Superfamily Members ProP and LacY. Biochemistry, 2008, 47, 8176-8185.	2.5	19
22	Core Residue Replacements Cause Coiled-Coil Orientation Switching in Vitro and in Vivo:â€‰Structureâ†'Function Correlations for Osmosensory Transporter ProP. Biochemistry, 2008, 47, 60-72.	2.5	23
23	Periplasmic Loops of Osmosensory Transporter ProP in Escherichia coli Are Sensitive to Osmolality. Biochemistry, 2008, 47, 13584-13593.	2.5	23
24	Cardiolipin Controls the Osmotic Stress Response and the Subcellular Location of Transporter ProP in Escherichia coli. Journal of Biological Chemistry, 2008, 283, 12314-12323.	3.4	81
25	Bacterial Osmosensing Transporters. Methods in Enzymology, 2007, 428, 77-107.	1.0	86
26	Structural and Functional Analysis of ProQ:Â An Osmoregulatory Protein ofEscherichia coliâ€. Biochemistry, 2007, 46, 3084-3095.	2.5	23
27	Structure and Function of Transmembrane Segment XII in Osmosensor and Osmoprotectant Transporter ProP of Escherichia coli. Biochemistry, 2007, 46, 5647-5655.	2.5	19
28	Cardiolipin promotes polar localization of osmosensory transporter ProP inEscherichia coli. Molecular Microbiology, 2007, 64, 1455-1465.	2.5	158
29	Preliminary NMR Analysis of ProP440â€“500 the C-Terminal Cytoplasmic Domain of Bacterial Osmosensory Protein ProP. , 2006, , 258-260.		0
30	Osmosensing by Bacteria. Science's STKE: Signal Transduction Knowledge Environment, 2006, 2006, pe43-pe43.	3.9	71
31	The Osmotic Activation of Transporter ProP Is Tuned by Both Its C-terminal Coiled-coil and Osmotically Induced Changes in Phospholipid Composition. Journal of Biological Chemistry, 2005, 280, 41387-41394.	3.4	59
32	A Structural Model for the Osmosensor, Transporter, and Osmoregulator ProP ofEscherichia coliâ€. Biochemistry, 2005, 44, 5634-5646.	2.5	44
33	Formation of an Antiparallel, Intermolecular Coiled Coil Is Associated with in Vivo Dimerization of Osmosensor and Osmoprotectant Transporter ProP in Escherichia coli. Biochemistry, 2005, 44, 10170-10180.	2.5	31
34	Osmoregulatory Systems of Escherichia coli :Identification of Betaine-Carnitine-Choline Transporter Family MemberBetU and Distributions of betU and trkG amongPathogenic and NonpathogenicIsolates. Journal of Bacteriology, 2004, 186, 296-306.	2.2	53
35	Overexpression, Purification, and Characterization of ProQ, a Posttranslational Regulator for Osmoregulatory Transporter ProP ofEscherichia coliâ€. Biochemistry, 2004, 43, 12979-12989.	2.5	22
36	Bacterial osmosensing: roles of membrane structure and electrostatics in lipidâ€“protein and proteinâ€“protein interactions. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1666, 88-104.	2.6	175

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37	Osmosensor ProP of Escherichia coli Responds to the Concentration, Chemistry, and Molecular Size of Osmolytes in the Proteoliposome Lumen[,]. Biochemistry, 2003, 42, 410-420.	2.5	86
38	Creation of a Fully Functional Cysteine-Less Variant of Osmosensor and Proton-Osmoprotectant Symporter ProP fromEscherichia coliand Its Application to Assess the Transporter's Membrane Orientationâ€. Biochemistry, 2003, 42, 11815-11823.	2.5	41
39	Solution Structure of the C-terminal Antiparallel Coiled-coil Domain from Escherichia coli Osmosensor ProP. Journal of Molecular Biology, 2003, 334, 1063-1076.	4.2	37
40	Detection of Î±-Helical Coiled-Coil Dimer Formation by Spin-Labeled Synthetic Peptides:Â A Model Parallel Coiled-Coil Peptide and the Antiparallel Coiled Coil Formed by a Replica of the ProP C-Terminusâ€. Biochemistry, 2003, 42, 15170-15178.	2.5	30
41	Requirements for Osmosensing and Osmotic Activation of Transporter ProP fromEscherichia coliâ€. Biochemistry, 2001, 40, 7324-7333.	2.5	59
42	Osmosensing and osmoregulatory compatible solute accumulation by bacteria. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2001, 130, 437-460.	1.8	388
43	The osmotic stress response and virulence in pyelonephritis isolates of Escherichia coli: contributions of RpoS, ProP, ProU and other systems The GenBank accession numbers for the DNA sequences of the rpoS loci in E. coli strains HU734 and CFT073 are AF275947 and AF270497, respectively.. Microbiology (United Kingdom), 2001, 147, 1657-1670.	1.8	67
44	The role of the carboxyl terminal ?-helical coiled-coil domain in osmosensing by transporter ProP ofEscherichia coli. Journal of Molecular Recognition, 2000, 13, 309-322.	2.1	54
45	An Escherichia coli Reference Collection Group B2- and Uropathogen-Associated Polymorphism in therpoS-mutS Region of the E. coliChromosome. Journal of Bacteriology, 2000, 182, 6272-6276.	2.2	29
46	Physical properties of liposomes and proteoliposomes prepared from Escherichia coli polar lipids. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1468, 175-186.	2.6	53
47	The role of the carboxyl terminal Î±â€helical coiledâ€coil domain in osmosensing by transporter ProP of Escherichia coli. Journal of Molecular Recognition, 2000, 13, 309-322.	2.1	1
48	Osmosensing by Bacteria: Signals and Membrane-Based Sensors. Microbiology and Molecular Biology Reviews, 1999, 63, 230-262.	6.6	512
49	The ion coupling and organic substrate specificities of osmoregulatory transporter ProP in Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1420, 30-44.	2.6	98
50	Protein ProQ Influences Osmotic Activation of Compatible Solute Transporter ProP in Escherichia coli K-12. Journal of Bacteriology, 1999, 181, 1537-1543.	2.2	59
51	Osmoregulatory transporter ProP influences colonization of the urinary tract by Escherichia coli. Microbiology (United Kingdom), 1998, 144, 91-102.	1.8	58
52	OSMOADAPTATION BY RHIZOSPHERE BACTERIA. Annual Review of Microbiology, 1996, 50, 101-136.	7.3	267
53	Genes encoding osmoregulatory proline/glycine betaine transporters and the proline catabolic system are present and expressed in diverse clinical Escherichia coli isolates. Canadian Journal of Microbiology, 1994, 40, 397-402.	1.7	32
54	Isolation and Sequencing of Escherichia coli Gene proP Reveals Unusual Structural Features of the Osmoregulatory Proline/Betaine transporter, ProP. Journal of Molecular Biology, 1993, 229, 268-276.	4.2	164

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55	Proline porters effect the utilization of proline as nutrient or osmoprotectant for bacteria. Journal of Membrane Biology, 1988, 106, 183-202.	2.1	122
56	Transmembrane Amino Acid Flux in Bacterial Cells. Critical Reviews in Biotechnology, 1987, 5, 1-47.	9.0	22
57	Na+ (Li+)-proline cotransport inEscherichia coli. Journal of Membrane Biology, 1985, 84, 157-164.	2.1	108
58	Amplification of the put genes and identification of the put gene products in Escherichia coli K12. Canadian Journal of Biochemistry, 1980, 58, 787-796.	1.4	46