

# Janet M Wood

## List of Publications by Year in descending order

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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	Osmosensing by Bacteria: Signals and Membrane-Based Sensors. <i>Microbiology and Molecular Biology Reviews</i> , 1999, 63, 230-262.	6.6	512
2	Osmosensing and osmoregulatory compatible solute accumulation by bacteria. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2001, 130, 437-460.	1.8	388
3	OSMOADAPTATION BY RHIZOSPHERE BACTERIA. <i>Annual Review of Microbiology</i> , 1996, 50, 101-136.	7.3	267
4	Bacterial Osmoregulation: A Paradigm for the Study of Cellular Homeostasis. <i>Annual Review of Microbiology</i> , 2011, 65, 215-238.	7.3	251
5	Bacterial responses to osmotic challenges. <i>Journal of General Physiology</i> , 2015, 145, 381-388.	1.9	245
6	Cardiolipin and the osmotic stress responses of bacteria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2092-2100.	2.6	208
7	Bacterial osmosensing: roles of membrane structure and electrostatics in lipid-protein and protein-protein interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1666, 88-104.	2.6	175
8	Isolation and Sequencing of <i>Escherichia coli</i> Gene proP Reveals Unusual Structural Features of the Osmoregulatory Proline/Betaine transporter, ProP. <i>Journal of Molecular Biology</i> , 1993, 229, 268-276.	4.2	164
9	Cardiolipin promotes polar localization of osmosensory transporter ProP in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2007, 64, 1455-1465.	2.5	158
10	Proline porters effect the utilization of proline as nutrient or osmoprotectant for bacteria. <i>Journal of Membrane Biology</i> , 1988, 106, 183-202.	2.1	122
11	Na <sup>+</sup> (Li <sup>+</sup> )-proline cotransport in <i>Escherichia coli</i> . <i>Journal of Membrane Biology</i> , 1985, 84, 157-164.	2.1	108
12	Protein Localization in <i>Escherichia coli</i> Cells: Comparison of the Cytoplasmic Membrane Proteins ProP, LacY, ProW, AqpZ, MscS, and MscL. <i>Journal of Bacteriology</i> , 2010, 192, 912-924.	2.2	104
13	The ion coupling and organic substrate specificities of osmoregulatory transporter ProP in <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999, 1420, 30-44.	2.6	98
14	Osmosensor ProP of <i>Escherichia coli</i> Responds to the Concentration, Chemistry, and Molecular Size of Osmolytes in the Proteoliposome Lumen. <i>Biochemistry</i> , 2003, 42, 410-420.	2.5	86
15	Bacterial Osmosensing Transporters. <i>Methods in Enzymology</i> , 2007, 428, 77-107.	1.0	86
16	Cardiolipin Controls the Osmotic Stress Response and the Subcellular Location of Transporter ProP in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 12314-12323.	3.4	81
17	ProQ Is an RNA Chaperone that Controls ProP Levels in <i>Escherichia coli</i> . <i>Biochemistry</i> , 2011, 50, 3095-3106.	2.5	80
18	Osmosensing by Bacteria. <i>Science's STKE: Signal Transduction Knowledge Environment</i> , 2006, 2006, pe43-pe43.	3.9	71

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19	The osmotic stress response and virulence in pyelonephritis isolates of <i>Escherichia coli</i> : contributions of RpoS, ProP, ProU and other systems The GenBank accession numbers for the DNA sequences of the rpoS loci in <i>E. coli</i> strains HU734 and CFT073 are AF275947 and AF270497, respectively.. <i>Microbiology (United Kingdom)</i> , 2001, 147, 1657-1670.	1.8	67
20	Requirements for Osmosensing and Osmotic Activation of Transporter ProP from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2001, 40, 7324-7333.	2.5	59
21	The Osmotic Activation of Transporter ProP Is Tuned by Both Its C-terminal Coiled-coil and Osmotically Induced Changes in Phospholipid Composition. <i>Journal of Biological Chemistry</i> , 2005, 280, 41387-41394.	3.4	59
22	Protein ProQ Influences Osmotic Activation of Compatible Solute Transporter ProP in <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1999, 181, 1537-1543.	2.2	59
23	Osmoregulatory transporter ProP influences colonization of the urinary tract by <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 1998, 144, 91-102.	1.8	58
24	The role of the carboxyl terminal $\alpha$ -helical coiled-coil domain in osmosensing by transporter ProP of <i>Escherichia coli</i> . <i>Journal of Molecular Recognition</i> , 2000, 13, 309-322.	2.1	54
25	Physical properties of liposomes and proteoliposomes prepared from <i>Escherichia coli</i> polar lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1468, 175-186.	2.6	53
26	Osmoregulatory Systems of <i>Escherichia coli</i> : Identification of Betaine-Carnitine-Choline Transporter Family Member BetU and Distributions of betU and trkG among Pathogenic and Nonpathogenic Isolates. <i>Journal of Bacteriology</i> , 2004, 186, 296-306.	2.2	53
27	Osmotic Stress. <i>EcoSal Plus</i> , 2009, 3, .	5.4	48
28	Amplification of the put genes and identification of the put gene products in <i>Escherichia coli</i> K12. <i>Canadian Journal of Biochemistry</i> , 1980, 58, 787-796.	1.4	46
29	A Structural Model for the Osmosensor, Transporter, and Osmoregulator ProP of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2005, 44, 5634-5646.	2.5	44
30	Creation of a Fully Functional Cysteine-Less Variant of Osmosensor and Proton-Osmoprotectant Symporter ProP from <i>Escherichia coli</i> and Its Application to Assess the Transporter's Membrane Orientation. <i>Biochemistry</i> , 2003, 42, 11815-11823.	2.5	41
31	Solution Structure of the C-terminal Antiparallel Coiled-coil Domain from <i>Escherichia coli</i> Osmosensor ProP. <i>Journal of Molecular Biology</i> , 2003, 334, 1063-1076.	4.2	37
32	Genes encoding osmoregulatory proline/glycine betaine transporters and the proline catabolic system are present and expressed in diverse clinical <i>Escherichia coli</i> isolates. <i>Canadian Journal of Microbiology</i> , 1994, 40, 397-402.	1.7	32
33	Formation of an Antiparallel, Intermolecular Coiled Coil Is Associated with in Vivo Dimerization of Osmosensor and Osmoprotectant Transporter ProP in <i>Escherichia coli</i> . <i>Biochemistry</i> , 2005, 44, 10170-10180.	2.5	31
34	Detection of $\alpha$ -Helical Coiled-Coil Dimer Formation by Spin-Labeled Synthetic Peptides: A Model Parallel Coiled-Coil Peptide and the Antiparallel Coiled Coil Formed by a Replica of the ProP C-Terminus. <i>Biochemistry</i> , 2003, 42, 15170-15178.	2.5	30
35	An <i>Escherichia coli</i> Reference Collection Group B2- and Uropathogen-Associated Polymorphism in the proS-mutS Region of the <i>E. coli</i> Chromosome. <i>Journal of Bacteriology</i> , 2000, 182, 6272-6276.	2.2	29
36	Cardiolipin synthase A colocalizes with cardiolipin and osmosensing transporter ProP at the poles of <i>Escherichia coli</i> cells. <i>Molecular Microbiology</i> , 2018, 107, 623-638.	2.5	26

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37	YehZYXW of <i>Escherichia coli</i> Is a Low-Affinity, Non-Osmoregulatory Betaine-Specific ABC Transporter. <i>Biochemistry</i> , 2015, 54, 5735-5747.	2.5	25
38	Salinity-Dependent Impacts of ProQ, Prc, and Spr Deficiencies on <i>Escherichia coli</i> Cell Structure. <i>Journal of Bacteriology</i> , 2014, 196, 1286-1296.	2.2	24
39	Structural and Functional Analysis of ProQ: An Osmoregulatory Protein of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2007, 46, 3084-3095.	2.5	23
40	Core Residue Replacements Cause Coiled-Coil Orientation Switching <i>in Vitro</i> and <i>in Vivo</i> : Structure-Function Correlations for Osmosensory Transporter ProP. <i>Biochemistry</i> , 2008, 47, 60-72.	2.5	23
41	Periplasmic Loops of Osmosensory Transporter ProP in <i>Escherichia coli</i> Are Sensitive to Osmolality. <i>Biochemistry</i> , 2008, 47, 13584-13593.	2.5	23
42	Analysis of Strains Lacking Known Osmolyte Accumulation Mechanisms Reveals Contributions of Osmolytes and Transporters to Protection against Abiotic Stress. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5366-5378.	3.1	23
43	Transmembrane Amino Acid Flux in Bacterial Cells. <i>Critical Reviews in Biotechnology</i> , 1987, 5, 1-47.	9.0	22
44	Overexpression, Purification, and Characterization of ProQ, a Posttranslational Regulator for Osmoregulatory Transporter ProP of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2004, 43, 12979-12989.	2.5	22
45	Transmembrane Helix I and Periplasmic Loop 1 of <i>Escherichia coli</i> ProP Are Involved in Osmosensing and Osmoprotectant Transport. <i>Biochemistry</i> , 2010, 49, 8847-8856.	2.5	21
46	Contributions of Coulombic and Hofmeister Effects to the Osmotic Activation of <i>Escherichia coli</i> Transporter ProP. <i>Biochemistry</i> , 2016, 55, 1301-1313.	2.5	20
47	Structure and Function of Transmembrane Segment XII in Osmosensor and Osmoprotectant Transporter ProP of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2007, 46, 5647-5655.	2.5	19
48	Roles of K <sup>+</sup> , H <sup>+</sup> , H <sub>2</sub> O, and $\gamma$ -P in Solute Transport Mediated by Major Facilitator Superfamily Members ProP and LacY. <i>Biochemistry</i> , 2008, 47, 8176-8185.	2.5	19
49	ProP-ProP and ProP-Phospholipid interactions determine the subcellular distribution of osmosensing transporter ProP in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2017, 103, 469-482.	2.5	13
50	Impacts of the Osmolality and the Luminal Ionic Strength on Osmosensory Transporter ProP in Proteoliposomes. <i>Journal of Biological Chemistry</i> , 2012, 287, 27813-27822.	3.4	11
51	Osmotic Stress. , 2014, , 133-156.		11
52	Dual Role of the C-Terminal Domain in Osmosensing by Bacterial Osmolyte Transporter ProP. <i>Biophysical Journal</i> , 2018, 115, 2152-2166.	0.5	11
53	Cultivation at high osmotic pressure confers ubiquinone 8-independent protection of respiration on <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 981-993.	3.4	10
54	Perspective: challenges and opportunities for the study of cardiolipin, a key player in bacterial cell structure and function. <i>Current Genetics</i> , 2018, 64, 795-798.	1.7	9

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55	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
56	Cultivation at high osmotic pressure confers ubiquinone 8-independent protection of respiration on Escherichia coli. Journal of Biological Chemistry, 2020, 295, 981-993.	3.4	4
57	The role of the carboxyl terminal $\alpha$ -helical coiled-coil domain in osmosensing by transporter ProP of Escherichia coli. Journal of Molecular Recognition, 2000, 13, 309-322.	2.1	1
58	Preliminary NMR Analysis of ProP440-500 the C-Terminal Cytoplasmic Domain of Bacterial Osmosensory Protein ProP. , 2006, , 258-260.		0