

# Julie A Maupin-Furlow

## List of Publications by Year in descending order

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111  
papers

3,436  
citations

109321

35  
h-index

168389

53  
g-index

114  
all docs

114  
docs citations

114  
times ranked

2750  
citing authors

#	ARTICLE	IF	CITATIONS
1	The tRNA discriminator base defines the mutual orthogonality of two distinct pyrrolysyl-tRNA synthetase/tRNAPyl pairs in the same organism. <i>Nucleic Acids Research</i> , 2022, 50, 4601-4615.	14.5	7
2	Lysine acetylation during oxidative stress response in the halophilic archaeon <i>Haloferax volcanii</i> . <i>FASEB Journal</i> , 2022, 36, .	0.5	0
3	Halophilic archaea and their potential to generate renewable fuels and chemicals. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1066-1090.	3.3	19
4	Bacterial effectors mimicking ubiquitin-proteasome pathway tweak plant immunity. <i>Microbiological Research</i> , 2021, 250, 126810.	5.3	15
5	Expression and tandem affinity purification of 20S proteasomes and other multisubunit complexes in <i>Haloferax volcanii</i> . <i>Methods in Enzymology</i> , 2021, 659, 315-326.	1.0	3
6	High-level synthesis and secretion of laccase, a metalloenzyme biocatalyst, by the halophilic archaeon <i>Haloferax volcanii</i> . <i>Methods in Enzymology</i> , 2021, 659, 297-313.	1.0	3
7	Redox and Thiols in Archaea. <i>Antioxidants</i> , 2020, 9, 381.	5.1	20
8	The Antioxidant Enzyme Methionine Sulfoxide Reductase A (MsrA) Interacts with Jab1/CSN5 and Regulates Its Function. <i>Antioxidants</i> , 2020, 9, 452.	5.1	6
9	The Archaeal Proteome Project advances knowledge about archaeal cell biology through comprehensive proteomics. <i>Nature Communications</i> , 2020, 11, 3145.	12.8	40
10	Modification of the host ubiquitome by bacterial enzymes. <i>Microbiological Research</i> , 2020, 235, 126429.	5.3	10
11	Insights through Genetics of Halophilic Microorganisms and Their Viruses. <i>Genes</i> , 2020, 11, 388.	2.4	3
12	Gene Expression of <i>Haloferax volcanii</i> on Intermediate and Abundant Sources of Fixed Nitrogen. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4784.	4.1	4
13	Alanine Tails Signal Proteolysis in Bacterial Ribosome-Associated Quality Control. <i>Cell</i> , 2019, 178, 76-90.e22.	28.9	81
14	Rhodanese-Like Domain Protein UbaC and Its Role in Ubiquitin-Like Protein Modification and Sulfur Mobilization in Archaea. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	3
15	Assays for ubiquitin-like protein ligation and proteasome function in archaea. <i>Methods in Enzymology</i> , 2019, 619, 161-178.	1.0	1
16	Stepping up protein degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 350-352.	7.1	0
17	Putting phage to work in deubiquitinase ligand discovery. <i>Journal of Biological Chemistry</i> , 2019, 294, 437-438.	3.4	0
18	RNA helicase homolog and its association with the JAMM2 metalloprotease required for targeted protein turnover in Archaea. <i>FASEB Journal</i> , 2019, 33, 631.36.	0.5	0

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19	Determining the association of the TrmB-like protein OxsR to chromatin binding and oxidative stress in <i>Haloferax volcanii</i> . <i>FASEB Journal</i> , 2019, 33, 777.17.	0.5	0
20	Methionine Sulfoxide Reductases of Archaea. <i>Antioxidants</i> , 2018, 7, 124.	5.1	17
21	Proteolytic systems of archaea: slicing, dicing, and mincing in the extreme. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 561-580.	2.6	7
22	Molecular Factors of Hypochlorite Tolerance in the Hypersaline Archaeon <i>Haloferax volcanii</i> . <i>Genes</i> , 2018, 9, 562.	2.4	5
23	A Cobalamin Activity-Based Probe Enables Microbial Cell Growth and Finds New Cobalamin-Protein Interactions across Domains. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	15
24	Methionine sulfoxide reductase A (MsrA) mediates the ubiquitination of 14-3-3 protein isoforms in brain. <i>Free Radical Biology and Medicine</i> , 2018, 129, 600-607.	2.9	10
25	GlpR Is a Direct Transcriptional Repressor of Fructose Metabolic Genes in <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	14
26	Multiplex quantitative SILAC for analysis of archaeal proteomes: a case study of oxidative stress responses. <i>Environmental Microbiology</i> , 2018, 20, 385-401.	3.8	21
27	In vitro Analysis of Ubiquitin-like Protein Modification in Archaea. <i>Bio-protocol</i> , 2018, 8, .	0.4	1
28	RPT. , 2018, , 4756-4762.		0
29	Cdc48a AAA-ATPase and its association with ubiquitin-like SAMP1 and DNA repair in Archaea. <i>FASEB Journal</i> , 2018, 32, 786.10.	0.5	0
30	ThiN as a Versatile Domain of Transcriptional Repressors and Catalytic Enzymes of Thiamine Biosynthesis. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	11
31	Structural Insight into Ubiquitin-Like Protein Recognition and Oligomeric States of JAMM/MPN+ Proteases. <i>Structure</i> , 2017, 25, 823-833.e6.	3.3	16
32	Methionine Sulfoxide Reductase A (MsrA) and Its Function in Ubiquitin-Like Protein Modification in <i>Archaea</i> . <i>MBio</i> , 2017, 8, .	4.1	20
33	Chase Assay of Protein Stability in <i>Haloferax volcanii</i> . <i>Bio-protocol</i> , 2017, 7, .	0.4	1
34	Proteome targets of ubiquitin-like samp1ylation are associated with sulfur metabolism and oxidative stress in <i>Haloferax volcanii</i> . <i>Proteomics</i> , 2016, 16, 1100-1110.	2.2	16
35	Ubiquitin-Like Proteasome System Represents a Eukaryotic-Like Pathway for Targeted Proteolysis in Archaea. <i>MBio</i> , 2016, 7, .	4.1	28
36	Mechanistic insight into protein modification and sulfur mobilization activities of noncanonical E1 and associated ubiquitin-like proteins of Archaea. <i>FEBS Journal</i> , 2016, 283, 3567-3586.	4.7	21

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37	Archaeal Inorganic Pyrophosphatase Displays Robust Activity under High-Salt Conditions and in Organic Solvents. <i>Applied and Environmental Microbiology</i> , 2016, 82, 538-548.	3.1	13
38	Ubiquitin-Like Protein SAMP1 and JAMM/MPN+ Metalloprotease HvJAMM1 Constitute a System for Reversible Regulation of Metabolic Enzyme Activity in Archaea. <i>PLoS ONE</i> , 2015, 10, e0128399.	2.5	14
39	Archaeal Tuc1/Ncs6 Homolog Required for Wobble Uridine tRNA Thiolation Is Associated with Ubiquitin-Proteasome, Translation, and RNA Processing System Homologs. <i>PLoS ONE</i> , 2014, 9, e99104.	2.5	32
40	Conserved active site cysteine residue of archaeal THI4 homolog is essential for thiamine biosynthesis in <i>Haloferax volcanii</i> . <i>BMC Microbiology</i> , 2014, 14, 260.	3.3	14
41	Archaeal Ubiquitin-like SAMP3 is Isopeptide-linked to Proteins via a UbaA-dependent Mechanism. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 220-239.	3.8	25
42	Structural and biochemical properties of an extreme "salt-loving"™ proteasome activating nucleotidase from the archaeon <i>Haloferax volcanii</i> . <i>Extremophiles</i> , 2014, 18, 283-293.	2.3	10
43	Prokaryotic Ubiquitin-Like Protein Modification. <i>Annual Review of Microbiology</i> , 2014, 68, 155-175.	7.3	47
44	Functional Proteomic Discovery of Slr0110 as a Central Regulator of Carbohydrate Metabolism in <i>Synechocystis</i> Species PCC6803. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 204-219.	3.8	22
45	Post-translation modification in Archaea: lessons from <i>Haloferax volcanii</i> and other haloarchaea. <i>FEMS Microbiology Reviews</i> , 2013, 37, 583-606.	8.6	34
46	Ubiquitin-like proteins and their roles in archaea. <i>Trends in Microbiology</i> , 2013, 21, 31-38.	7.7	43
47	Prokaryotic Proteasomes: Nanocompartments of Degradation. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2013, 23, 321-334.	1.0	24
48	Nitrogen regulation of protein-protein interactions and transcript levels of GlnK <scp>Pll</scp> regulator and AmtB ammonium transporter homologs in Archaea. <i>MicrobiologyOpen</i> , 2013, 2, 826-840.	3.0	18
49	Crystal structure of the ubiquitin-like small archaeal modifier protein 2 from <i>Haloferax volcanii</i> . <i>Protein Science</i> , 2013, 22, 1206-1217.	7.6	8
50	Archaeal Proteasomes and Sampylation. <i>Sub-Cellular Biochemistry</i> , 2013, 66, 297-327.	2.4	14
51	Characterization of an archaeal ubiquitin-like protein SAMP1. <i>FASEB Journal</i> , 2013, 27, 782.8.	0.5	0
52	Enhanced archaeal laccase production in recombinant <i>Escherichia coli</i> by modification of N-terminal propeptide and twin arginine translocation motifs. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1523-1532.	3.0	13
53	Proteasomes and protein conjugation across domains of life. <i>Nature Reviews Microbiology</i> , 2012, 10, 100-111.	28.6	98
54	A comparative genomics perspective on the genetic content of the alkaliphilic haloarchaeon <i>Natrialba magadii</i> ATCC 43099T. <i>BMC Genomics</i> , 2012, 13, 165.	2.8	36

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55	Archaeal JAB1/MPN1/MOV34 metalloenzyme (HvJAMM1) cleaves ubiquitin-like small archaeal modifier proteins (SAMPs) from protein-conjugates. <i>Molecular Microbiology</i> , 2012, 86, 971-987.	2.5	39
56	Extreme challenges and advances in archaeal proteomics. <i>Current Opinion in Microbiology</i> , 2012, 15, 351-356.	5.1	15
57	Chemical crosslinking, mass spectrometry, and in silico modeling of proteasomal 20S core particles of the haloarchaeon <i>Haloferax volcanii</i> . <i>Proteomics</i> , 2012, 12, 1806-1814.	2.2	16
58	Microbial diversity of the hypersaline Sidi Ameur and Himalatt Salt Lakes of the Algerian Sahara. <i>Journal of Arid Environments</i> , 2011, 75, 909-916.	2.4	39
59	Activity and Transcriptional Regulation of Bacterial Protein-Like Glycerol-3-Phosphate Dehydrogenase of the Haloarchaea in <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2011, 193, 4469-4476.	2.2	27
60	Activity and Transcriptional Regulation of Bacterial Protein-Like Glycerol-3-Phosphate Dehydrogenase of the Haloarchaea in <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2011, 193, 6110-6110.	2.2	1
61	E1- and ubiquitin-like proteins provide a direct link between protein conjugation and sulfur transfer in archaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4417-4422.	7.1	83
62	Ubiquitin-like small archaeal modifier proteins (SAMPs) in <i>Haloferax volcanii</i> . <i>Nature</i> , 2010, 463, 54-60.	27.8	170
63	Phosphorylation and Methylation of Proteasomal Proteins of the Haloarchaeon <i>Haloferax volcanii</i> . <i>Archaea</i> , 2010, 2010, 1-10.	2.3	25
64	Archaeal Protein Biogenesis: Posttranslational Modification and Degradation. <i>Archaea</i> , 2010, 2010, 1-2.	2.3	1
65	The Complete Genome Sequence of <i>Haloferax volcanii</i> DS2, a Model Archaeon. <i>PLoS ONE</i> , 2010, 5, e9605.	2.5	234
66	Hydrophobic carboxy-terminal residues dramatically reduce protein levels in the haloarchaeon <i>Haloferax volcanii</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 248-255.	1.8	14
67	GlpR Represses Fructose and Glucose Metabolic Enzymes at the Level of Transcription in the Haloarchaeon <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2010, 192, 6251-6260.	2.2	33
68	LccA, an Archaeal Laccase Secreted as a Highly Stable Glycoprotein into the Extracellular Medium by <i>Haloferax volcanii</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 733-743.	3.1	117
69	Glycerol-Mediated Repression of Glucose Metabolism and Glycerol Kinase as the Sole Route of Glycerol Catabolism in the Haloarchaeon <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2009, 191, 4307-4315.	2.2	37
70	Stabilization of an archaeal DNA-sliding clamp protein, PCNA, by proteasome-activating nucleotidase gene knockout in <i>Haloferax volcanii</i> . <i>FEMS Microbiology Letters</i> , 2009, 294, 32-36.	1.8	8
71	The N-Terminal Penultimate Residue of 20S Proteasome $\hat{1}$ Influences its N $\hat{1}$ Acetylation and Protein Levels as Well as Growth Rate and Stress Responses of <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2009, 191, 3794-3803.	2.2	40
72	Gene cloning and heterologous synthesis of a haloalkaliphilic extracellular protease of <i>Natrialba magadii</i> (Nep). <i>Extremophiles</i> , 2008, 12, 677-687.	2.3	60

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73	Shotgun Proteomics of the Haloarchaeon <i>Haloferax volcanii</i> . <i>Journal of Proteome Research</i> , 2008, 7, 5033-5039.	3.7	51
74	Proteasomal Components Required for Cell Growth and Stress Responses in the Haloarchaeon <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2008, 190, 8096-8105.	2.2	55
75	Genetic and Proteomic Analyses of a Proteasome-Activating Nucleotidase A Mutant of the Haloarchaeon <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2008, 190, 193-205.	2.2	37
76	Proteomic analysis of <i>Haloferax volcanii</i> reveals salinity-mediated regulation of the stress response protein PspA. <i>Microbiology (United Kingdom)</i> , 2008, 154, 1436-1443.	1.8	45
77	Effect of proteasome inhibitor clasto-lactacystin- $\beta$ -lactone on the proteome of the haloarchaeon <i>Haloferax volcanii</i> . <i>Microbiology (United Kingdom)</i> , 2007, 153, 2271-2280.	1.8	18
78	Transcriptional linkage of <i>Haloferax volcanii</i> proteasomal genes with non-proteasomal gene neighbours including RNase P, MOSC domain and SAM-methyltransferase homologues. <i>Microbiology (United Kingdom)</i> , 2007, 153, 3009-3022.	1.8	7
79	Proteasomes from Structure to Function: Perspectives from Archaea. <i>Current Topics in Developmental Biology</i> , 2006, 75, 125-169.	2.2	50
80	Haloarchaeal proteases and proteolytic systems. <i>FEMS Microbiology Reviews</i> , 2006, 30, 17-35.	8.6	69
81	Haloarchaeal proteases and proteolytic systems. <i>FEMS Microbiology Reviews</i> , 2006, 30, 649-649.	8.6	1
82	Trizol-based method for sample preparation and isoelectric focusing of halophilic proteins. <i>Analytical Biochemistry</i> , 2006, 351, 254-259.	2.4	62
83	Proteasomes and Other Nanocompartmentalized Proteases of Archaea. <i>Microbiology Monographs</i> , 2006, , 23-46.	0.6	1
84	<i>Haloferax volcanii</i> PitA: an example of functional interaction between the Pfam chlorite dismutase and antibiotic biosynthesis monooxygenase families?. <i>Bioinformatics</i> , 2006, 22, 671-675.	4.1	35
85	Posttranslational Modification of the 20S Proteasomal Proteins of the Archaeon <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2006, 188, 7521-7530.	2.2	27
86	Improvement of two-dimensional gel electrophoresis proteome maps of the haloarchaeon <i>Haloferax volcanii</i> . <i>Proteomics</i> , 2005, 5, 354-359.	2.2	30
87	Recombinant production of <i>Zymomonas mobilis</i> pyruvate decarboxylase in the haloarchaeon <i>Haloferax volcanii</i> . <i>Archaea</i> , 2005, 1, 327-334.	2.3	21
88	Construction and expression of an ethanol production operon in Gram-positive bacteria. <i>Microbiology (United Kingdom)</i> , 2005, 151, 4023-4031.	1.8	43
89	Archaeal proteasomes and other regulatory proteases. <i>Current Opinion in Microbiology</i> , 2005, 8, 720-728.	5.1	38
90	Proteasomes: perspectives from the archaea. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 1743.	3.0	29

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91	Differential Regulation of the PanA and PanB Proteasome-Activating Nucleotidase and 20S Proteasomal Proteins of the Haloarchaeon <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2004, 186, 7763-7772.	2.2	56
92	Analysis of Proteasome-Dependent Proteolysis in <i>Haloferax volcanii</i> Cells, Using Short-Lived Green Fluorescent Proteins. <i>Applied and Environmental Microbiology</i> , 2004, 70, 7530-7538.	3.1	83
93	Archaeal proteasomes. <i>Metabolic Engineering</i> , 2003, 5, 151-163.	7.0	5
94	Subunit Topology of Two 20S Proteasomes from <i>Haloferax volcanii</i> . <i>Journal of Bacteriology</i> , 2003, 185, 165-174.	2.2	49
95	Cloning and Characterization of the <i>Zymobacter palmae</i> Pyruvate Decarboxylase Gene ( <i>pdC</i> ) and Comparison to Bacterial Homologues. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2869-2876.	3.1	63
96	Archaeal proteasomes: Proteolytic nanocompartments of the cell. <i>Advances in Applied Microbiology</i> , 2001, 50, 279-338.	2.4	13
97	Pyruvate decarboxylase: a key enzyme for the oxidative metabolism of lactic acid by <i>Acetobacter pasteurianus</i> . <i>Archives of Microbiology</i> , 2001, 176, 443-451.	2.2	57
98	Production of the Gram-positive <i>Sarcina ventriculi</i> pyruvate decarboxylase in <i>Escherichia coli</i> The GenBank accession number for the sequence reported in this paper is AF354297.. <i>Microbiology (United Kingdom)</i> 147: 101-107 (2001)	0.0	0
99	Proteasomes in the archaea from structure to function. <i>Frontiers in Bioscience - Landmark</i> , 2000, 5, d837-865.	3.0	3
100	Biochemical and Physical Properties of the <i>Methanococcus jannaschii</i> 20S Proteasome and PAN, a Homolog of the ATPase (Rpt) Subunits of the Eucaryal 26S Proteasome. <i>Journal of Bacteriology</i> , 2000, 182, 1680-1692.	2.2	82
101	Proteasomes in the archaea: from structure to function. <i>Frontiers in Bioscience - Landmark</i> , 2000, 5, d837.	3.0	40
102	Halophilic 20S Proteasomes of the Archaeon <i>Haloferax volcanii</i> : Purification, Characterization, and Gene Sequence Analysis. <i>Journal of Bacteriology</i> , 1999, 181, 5814-5824.	2.2	57
103	Biochemical Characterization of the 20S Proteasome from the Methanoarchaeon <i>Methanosarcina thermophila</i> . <i>Journal of Bacteriology</i> , 1998, 180, 1480-1487.	2.2	60
104	Biochemical Characterization of the 20S Proteasome from the Methanoarchaeon <i>Methanosarcina thermophila</i> . <i>Journal of Bacteriology</i> , 1998, 180, 3017-3017.	2.2	0
105	Characterization of the <i>cdhD</i> and <i>cdhE</i> genes encoding subunits of the corrinoid/iron-sulfur enzyme of the CO dehydrogenase complex from <i>Methanosarcina thermophila</i> . <i>Journal of Bacteriology</i> , 1996, 178, 340-346.	2.2	36
106	Analysis of the CO dehydrogenase/acetyl-coenzyme A synthase operon of <i>Methanosarcina thermophila</i> . <i>Journal of Bacteriology</i> , 1996, 178, 6849-6856.	2.2	51
107	Analysis of genes in the pathway for the fermentation of acetate to methane by <i>Methanosarcina thermophila</i> . , 1996, , 64-71.		2
108	Genetic analysis of the <i>modABCD</i> (molybdate transport) operon of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1995, 177, 4851-4856.	2.2	104

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109	Molybdate and regulation of mod (molybdate transport), fdhF, and hyc (formate hydrogenlyase) operons in Escherichia coli. Journal of Bacteriology, 1995, 177, 4857-4864.	2.2	85
110	A Proteasome from the Methanogenic Archaeon Methanosarcina thermophila. Journal of Biological Chemistry, 1995, 270, 28617-28622.	3.4	77
111	Vitamin B1 (Thiamine) Metabolism and Regulation in Archaea. , O, , .		13