David L Popham

List of Publications by Year in descending order

70	4,540	34	64
papers	citations	h-index	g-index
		117453	110170

104	104	104	3371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Function of a bacterial activator protein that binds to transcriptional enhancers. Science, 1989, 243, 629-635.	6.0	456
2	A Eukaryotic-like Ser/Thr Kinase Signals Bacteria to Exit Dormancy in Response to Peptidoglycan Fragments. Cell, 2008, 135, 486-496.	13.5	434
3	A bacterial enhancer functions to tether a transcriptional activator near a promoter. Science, 1990, 248, 486-490.	6.0	211
4	Muramic lactam in peptidoglycan of Bacillus subtilis spores is required for spore outgrowth but not for spore dehydration or heat resistance. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 15405-15410.	3.3	209
5	Role of penicillin-binding proteins in bacterial cell morphogenesis. Current Opinion in Microbiology, 2003, 6, 594-599.	2.3	168
6	Analysis of the properties of spores of Bacillus subtilis prepared at different temperatures. Journal of Applied Microbiology, 2002, 92, 1105-1115.	1.4	157
7	Peptidoglycan Synthesis in the Absence of Class A Penicillin-Binding Proteins in Bacillus subtilis. Journal of Bacteriology, 2003, 185, 1423-1431.	1.0	146
8	Analysis of the peptidoglycan structure of Bacillus subtilis endospores. Journal of Bacteriology, 1996, 178, 6451-6458.	1.0	132
9	Heat, hydrogen peroxide, and UV resistance of Bacillus subtilis spores with increased core water content and with or without major DNA-binding proteins. Applied and Environmental Microbiology, 1995, 61, 3633-3638.	1.4	121
10	Specialized peptidoglycan of the bacterial endospore: the inner wall of the lockbox. Cellular and Molecular Life Sciences, 2002, 59, 426-433.	2.4	114
11	Reduction in Membrane Phosphatidylglycerol Content Leads to Daptomycin Resistance in Bacillus subtilis. Antimicrobial Agents and Chemotherapy, 2011, 55, 4326-4337.	1.4	110
12	Daughter Cell Separation by Penicillin-Binding Proteins and Peptidoglycan Amidases in Escherichia coli. Journal of Bacteriology, 2006, 188, 5345-5355.	1.0	101
13	Phenotypes of Bacillus subtilis mutants lacking multiple class A high-molecular-weight penicillin-binding proteins. Journal of Bacteriology, 1996, 178, 2079-2085.	1.0	97
14	Sulfur and Nitrogen Limitation in Escherichia coli K-12: Specific Homeostatic Responses. Journal of Bacteriology, 2005, 187, 1074-1090.	1.0	96
15	The bacterial septal ring protein <scp>RlpA</scp> is a lytic transglycosylase that contributes to rod shape and daughter cell separation in <scp><i>P</i></scp><i>seudomonas aeruginosa</i>. Molecular Microbiology, 2014, 93, 113-128.	1.2	95
16	Influence of Curli Expression by Escherichia coli O157:H7 on the Cell's Overall Hydrophobicity, Charge, and Ability To Attach to Lettuce. Journal of Food Protection, 2007, 70, 1339-1345.	0.8	85
17	Roles of Low-Molecular-Weight Penicillin-Binding Proteins in <i>Bacillus subtilis</i> Spore Peptidoglycan Synthesis and Spore Properties. Journal of Bacteriology, 1999, 181, 126-132.	1.0	81
18	Production of Muramic Î´-Lactam in Bacillus subtilis Spore Peptidoglycan. Journal of Bacteriology, 2004, 186, 80-89.	1.0	80

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19	Structural Analysis of Bacillus subtilisSpore Peptidoglycan during Sporulation. Journal of Bacteriology, 2000, 182, 4491-4499.	1.0	79
20	Discovery and Characterization of Three New<i>Escherichia coli</i>Septal Ring Proteins That Contain a SPOR Domain: DamX, DedD, and RlpA. Journal of Bacteriology, 2010, 192, 242-255.	1.0	78
21	Rod Shape Determination by the Bacillus subtilis Class B Penicillin-Binding Proteins Encoded by pbpA and pbpH. Journal of Bacteriology, 2003, 185, 4717-4726.	1.0	76
22	A Quality-Control Mechanism Removes Unfit Cells from a Population of Sporulating Bacteria. Developmental Cell, 2015, 34, 682-693.	3.1	66
23	<i>Bacillus subtilis</i> Cells Lacking Penicillin-Binding Protein 1 Require Increased Levels of Divalent Cations for Growth. Journal of Bacteriology, 1998, 180, 4555-4563.	1.0	65
24	Structure and Synthesis of Cell Wall, Spore Cortex, Teichoic Acids, S-Layers, and Capsules. , 0, , 21-41.		61
25	Clostridium difficile Extracytoplasmic Function Ïƒ Factor Ïƒ ^V Regulates Lysozyme Resistance and Is Necessary for Pathogenesis in the Hamster Model of Infection. Infection and Immunity, 2014, 82, 2345-2355.	1.0	59
26	Factors Contributing to Heat Resistance of<i>Clostridium perfringens</i>Endospores. Applied and Environmental Microbiology, 2008, 74, 3328-3335.	1.4	54
27	Contributions of Four Cortex Lytic Enzymes to Germination of <i>Bacillus anthracis</i> Spores. Journal of Bacteriology, 2010, 192, 763-770.	1.0	54
28	Spore Peptidoglycan. Microbiology Spectrum, 2015, 3, .	1.2	51
29	Transcriptional Profiling of Coxiella burnetii Reveals Extensive Cell Wall Remodeling in the Small Cell Variant Developmental Form. PLoS ONE, 2016, 11, e0149957.	1.1	50
30	Spore cortex formation in <i>Bacillus subtilis</i> is regulated by accumulation of peptidoglycan precursors under the control of sigma K. Molecular Microbiology, 2007, 65, 1582-1594.	1.2	47
31	Roles of Germination-Specific Lytic Enzymes CwlJ and SleB in <i>Bacillus anthracis</i>. Journal of Bacteriology, 2009, 191, 2237-2247.	1.0	45
32	Penicillin-Binding Protein 1a Promotes Resistance of Group B Streptococcus to Antimicrobial Peptides. Infection and Immunity, 2006, 74, 6179-6187.	1.0	44
33	<i>In Vitro</i> Studies of Peptidoglycan Binding and Hydrolysis by the <i>Bacillus anthracis</i> Germination-Specific Lytic Enzyme SleB. Journal of Bacteriology, 2011, 193, 125-131.	1.0	44
34	The <i>Bacillus anthracis</i> SleL (YaaH) Protein Is an <i>N</i> -Acetylglucosaminidase Involved in Spore Cortex Depolymerization. Journal of Bacteriology, 2008, 190, 7601-7607.	1.0	42
35	Two Class A High-Molecular-Weight Penicillin-Binding Proteins of Bacillus subtilis Play Redundant Roles in Sporulation. Journal of Bacteriology, 2001, 183, 6046-6053.	1.0	40
36	EtfA catalyses the formation of dipicolinic acid in<i>Clostridium perfringens</i>. Molecular Microbiology, 2010, 75, 178-186.	1.2	37

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37	Characterization of dacC , Which Encodes a New Low-Molecular-Weight Penicillin-Binding Protein in Bacillus subtilis. Journal of Bacteriology, 1998, 180, 4967-4973.	1.0	34
38	Analysis of Outgrowth of Bacillus subtilis Spores Lacking Penicillin-Binding Protein 2a. Journal of Bacteriology, 1998, 180, 6493-6502.	1.0	34
39	Amino Acids in the Bacillus subtilis Morphogenetic Protein SpoIVA with Roles in Spore Coat and Cortex Formation. Journal of Bacteriology, 2001, 183, 1645-1654.	1.0	33
40	<i>Clostridium difficile</i> Lipoprotein GerS Is Required for Cortex Modification and Thus Spore Germination. MSphere, 2018, 3, .	1.3	33
41	Homologues of the <i>Bacillus subtilis</i> SpoVB Protein Are Involved in Cell Wall Metabolism. Journal of Bacteriology, 2009, 191, 6012-6019.	1.0	32
42	Dustborne and airborne Gram-positive and Gram-negative bacteria in high versus low ERMI homes. Science of the Total Environment, 2014, 482-483, 92-99.	3.9	31
43	Identification of a gene for a rubrerythrin/nigerythrin-like protein inSpirillum volutansby using amino acid sequence data from mass spectrometry and NH2-terminal sequencing. Journal of Applied Microbiology, 1998, 85, 875-882.	1.4	28
44	Shared Catalysis in Virus Entry and Bacterial Cell Wall Depolymerization. Journal of Molecular Biology, 2009, 387, 607-618.	2.0	28
45	Lysozyme Resistance in Clostridioides difficile Is Dependent on Two Peptidoglycan Deacetylases. Journal of Bacteriology, 2020, 202, .	1.0	27
46	Cortex Peptidoglycan Lytic Activity in Germinating <i>Bacillus anthracis</i> Spores. Journal of Bacteriology, 2008, 190, 4541-4548.	1.0	26
47	Levels of Germination Proteins in Bacillus subtilis Dormant, Superdormant, and Germinating Spores. PLoS ONE, 2014, 9, e95781.	1.1	26
48	The catalytic domain of the germinationâ€specific lytic transglycosylase SleB from <i>Bacillus anthracis</i> displays a unique active site topology. Proteins: Structure, Function and Bioinformatics, 2012, 80, 2469-2475.	1.5	25
49	Lactobacillus brantae sp. nov., isolated from faeces of Canada geese (Branta canadensis). International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 2068-2076.	0.8	23
50	HtrC Is Involved in Proteolysis of YpeB during Germination of Bacillus anthracis and Bacillus subtilis Spores. Journal of Bacteriology, 2015, 197, 326-336.	1.0	22
51	In vitro and in vivo analyses of the Bacillus anthracis spore cortex lytic protein SleL. Microbiology (United Kingdom), 2012, 158, 1359-1368.	0.7	21
52	Role of YpeB in Cortex Hydrolysis during Germination of Bacillus anthracis Spores. Journal of Bacteriology, 2014, 196, 3399-3409.	1.0	21
53	Spore Peptidoglycan Structure in a <i>cwlD dacB</i> Double Mutant of <i>Bacillus subtilis</i>. Journal of Bacteriology, 1999, 181, 6205-6209.	1.0	21
54	Identification of SPOR Domain Amino Acids Important for Septal Localization, Peptidoglycan Binding, and a Disulfide Bond in the Cell Division Protein FtsN. Journal of Bacteriology, 2013, 195, 5308-5315.	1.0	20

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55	The SpmA/B and DacF proteins of<i>Clostridium perfringens</i>play important roles in spore heat resistance. FEMS Microbiology Letters, 2009, 291, 188-194.	0.7	18
56	Unmasking Novel Sporulation Genes in Bacillus subtilis. Journal of Bacteriology, 2004, 186, 8089-8095.	1.0	17
57	Analysis of the Spore Membrane Proteome in Clostridium perfringens Implicates Cyanophycin in Spore Assembly. Journal of Bacteriology, 2016, 198, 1773-1782.	1.0	17
58	Visualizing the production and arrangement of peptidoglycan in <scp>G</scp>ramâ€positive cells. Molecular Microbiology, 2013, 88, 645-649.	1.2	16
59	Nuclear Magnetic Resonance Solution Structure of the Peptidoglycan-Binding SPOR Domain from <i>Escherichia coli</i> DamX: Insights into Septal Localization. Biochemistry, 2013, 52, 627-639.	1.2	16
60	YpeB dimerization may be required to stabilize SleB for effective germination of Bacillus anthracis spores. BMC Microbiology, 2019, 19, 169.	1.3	13
61	A Mother Cell-Specific Class B Penicillin-Binding Protein, PBP4b, in Bacillus subtilis. Journal of Bacteriology, 2004, 186, 258-261.	1.0	11
62	Identification of L-Valine-initiated-germination-active genes in Bacillus subtilis using Tn-seq. PLoS ONE, 2019, 14, e0218220.	1.1	11
63	Membrane Proteomes and Ion Transporters in <i>Bacillus anthracis</i> and <i>Bacillus subtilis</i> Dormant and Germinating Spores. Journal of Bacteriology, 2019, 201, .	1.0	11
64	Bacterial developmental checkpoint that directly monitors cell surface morphogenesis. Developmental Cell, 2022, 57, 344-360.e6.	3.1	10
65	Vibrio fischeri DarR Directs Responses to d -Aspartate and Represents a Group of Similar LysR-Type Transcriptional Regulators. Journal of Bacteriology, 2018, 200, .	1.0	9
66	Pressure-Induced Germination and Inactivation of<i>Bacillus cereus</i>Spores and Their Survival in Fresh Blue Crab Meat (<i>Callinectes sapidus</i>) During Storage. Journal of Aquatic Food Product Technology, 2008, 17, 322-337.	0.6	7
67	Hypermotility in Clostridium perfringens Strain SM101 Is Due to Spontaneous Mutations in Genes Linked to Cell Division. Journal of Bacteriology, 2014, 196, 2405-2412.	1.0	4
68	Lytic enzyme-assisted germination of <i>Bacillus anthracis</i> and <i>Bacillus subtilis</i> spores. Journal of Applied Microbiology, 2015, 119, 521-528.	1.4	4
69	Spore Peptidoglycan. , 0, , 157-177.		4
70	Genetic Suppression Meets Structure Prediction: Probing a Spore Germination Receptor Complex. Journal of Bacteriology, 2022, 204, JB0057921.	1.0	1