

David L Popham

List of Publications by Year in descending order

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70
papers

4,540
citations

117453

34
h-index

110170

64
g-index

104
all docs

104
docs citations

104
times ranked

3371
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial developmental checkpoint that directly monitors cell surface morphogenesis. <i>Developmental Cell</i> , 2022, 57, 344-360.e6.	3.1	10
2	Genetic Suppression Meets Structure Prediction: Probing a Spore Germination Receptor Complex. <i>Journal of Bacteriology</i> , 2022, 204, JB0057921.	1.0	1
3	Lysozyme Resistance in <i>Clostridioides difficile</i> Is Dependent on Two Peptidoglycan Deacetylases. <i>Journal of Bacteriology</i> , 2020, 202, .	1.0	27
4	YpeB dimerization may be required to stabilize SleB for effective germination of <i>Bacillus anthracis</i> spores. <i>BMC Microbiology</i> , 2019, 19, 169.	1.3	13
5	Identification of L-Valine-initiated-germination-active genes in <i>Bacillus subtilis</i> using Tn-seq. <i>PLoS ONE</i> , 2019, 14, e0218220.	1.1	11
6	Membrane Proteomes and Ion Transporters in <i>Bacillus anthracis</i> and <i>Bacillus subtilis</i> Dormant and Germinating Spores. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	11
7	<i>Vibrio fischeri</i> DarR Directs Responses to d-Aspartate and Represents a Group of Similar LysR-Type Transcriptional Regulators. <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	9
8	<i>Clostridium difficile</i> Lipoprotein GerS Is Required for Cortex Modification and Thus Spore Germination. <i>MSphere</i> , 2018, 3, .	1.3	33
9	Transcriptional Profiling of <i>Coxiella burnetii</i> Reveals Extensive Cell Wall Remodeling in the Small Cell Variant Developmental Form. <i>PLoS ONE</i> , 2016, 11, e0149957.	1.1	50
10	Analysis of the Spore Membrane Proteome in <i>Clostridium perfringens</i> Implicates Cyanophycin in Spore Assembly. <i>Journal of Bacteriology</i> , 2016, 198, 1773-1782.	1.0	17
11	Spore Peptidoglycan. <i>Microbiology Spectrum</i> , 2015, 3, .	1.2	51
12	Lytic enzyme-assisted germination of <i>Bacillus anthracis</i> and <i>Bacillus subtilis</i> spores. <i>Journal of Applied Microbiology</i> , 2015, 119, 521-528.	1.4	4
13	A Quality-Control Mechanism Removes Unfit Cells from a Population of Sporulating Bacteria. <i>Developmental Cell</i> , 2015, 34, 682-693.	3.1	66
14	HtrC Is Involved in Proteolysis of YpeB during Germination of <i>Bacillus anthracis</i> and <i>Bacillus subtilis</i> Spores. <i>Journal of Bacteriology</i> , 2015, 197, 326-336.	1.0	22
15	Hypermotility in <i>Clostridium perfringens</i> Strain SM101 Is Due to Spontaneous Mutations in Genes Linked to Cell Division. <i>Journal of Bacteriology</i> , 2014, 196, 2405-2412.	1.0	4
16	Dustborne and airborne Gram-positive and Gram-negative bacteria in high versus low ERMI homes. <i>Science of the Total Environment</i> , 2014, 482-483, 92-99.	3.9	31
17	Role of YpeB in Cortex Hydrolysis during Germination of <i>Bacillus anthracis</i> Spores. <i>Journal of Bacteriology</i> , 2014, 196, 3399-3409.	1.0	21
18	<i>Clostridium difficile</i> Extracytoplasmic Function If Factor ν Regulates Lysozyme Resistance and Is Necessary for Pathogenesis in the Hamster Model of Infection. <i>Infection and Immunity</i> , 2014, 82, 2345-2355.	1.0	59

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19	The bacterial septal ring protein <sc>RlpA</sc> is a lytic transglycosylase that contributes to rod shape and daughter cell separation in <sc>Pseudomonas aeruginosa</sc>. <i>Molecular Microbiology</i> , 2014, 93, 113-128.	1.2	95
20	Levels of Germination Proteins in <i>Bacillus subtilis</i> Dormant, Superdormant, and Germinating Spores. <i>PLoS ONE</i> , 2014, 9, e95781.	1.1	26
21	Visualizing the production and arrangement of peptidoglycan in <sc>Gram</sc>-positive cells. <i>Molecular Microbiology</i> , 2013, 88, 645-649.	1.2	16
22	Nuclear Magnetic Resonance Solution Structure of the Peptidoglycan-Binding SPOR Domain from <i>Escherichia coli</i> DamX: Insights into Septal Localization. <i>Biochemistry</i> , 2013, 52, 627-639.	1.2	16
23	Identification of SPOR Domain Amino Acids Important for Septal Localization, Peptidoglycan Binding, and a Disulfide Bond in the Cell Division Protein FtsN. <i>Journal of Bacteriology</i> , 2013, 195, 5308-5315.	1.0	20
24	In vitro and in vivo analyses of the <i>Bacillus anthracis</i> spore cortex lytic protein SleL. <i>Microbiology (United Kingdom)</i> , 2012, 158, 1359-1368.	0.7	21
25	<i>Lactobacillus brantae</i> sp. nov., isolated from faeces of Canada geese (<i>Branta canadensis</i>). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012, 62, 2068-2076.	0.8	23
26	The catalytic domain of the germination-specific lytic transglycosylase SleB from <i>Bacillus anthracis</i> displays a unique active site topology. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 2469-2475.	1.5	25
27	<i>In Vitro</i> Studies of Peptidoglycan Binding and Hydrolysis by the <i>Bacillus anthracis</i> Germination-Specific Lytic Enzyme SleB. <i>Journal of Bacteriology</i> , 2011, 193, 125-131.	1.0	44
28	Reduction in Membrane Phosphatidylglycerol Content Leads to Daptomycin Resistance in <i>Bacillus subtilis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4326-4337.	1.4	110
29	EtfA catalyses the formation of dipicolinic acid in <i>Clostridium perfringens</i>. <i>Molecular Microbiology</i> , 2010, 75, 178-186.	1.2	37
30	Discovery and Characterization of Three New <i>Escherichia coli</i> Septal Ring Proteins That Contain a SPOR Domain: DamX, DedD, and RlpA. <i>Journal of Bacteriology</i> , 2010, 192, 242-255.	1.0	78
31	Contributions of Four Cortex Lytic Enzymes to Germination of <i>Bacillus anthracis</i> Spores. <i>Journal of Bacteriology</i> , 2010, 192, 763-770.	1.0	54
32	Homologues of the <i>Bacillus subtilis</i> SpoVB Protein Are Involved in Cell Wall Metabolism. <i>Journal of Bacteriology</i> , 2009, 191, 6012-6019.	1.0	32
33	Roles of Germination-Specific Lytic Enzymes CwlJ and SleB in <i>Bacillus anthracis</i>. <i>Journal of Bacteriology</i> , 2009, 191, 2237-2247.	1.0	45
34	The SpmA/B and DacF proteins of <i>Clostridium perfringens</i> play important roles in spore heat resistance. <i>FEMS Microbiology Letters</i> , 2009, 291, 188-194.	0.7	18
35	Shared Catalysis in Virus Entry and Bacterial Cell Wall Depolymerization. <i>Journal of Molecular Biology</i> , 2009, 387, 607-618.	2.0	28
36	A Eukaryotic-like Ser/Thr Kinase Signals Bacteria to Exit Dormancy in Response to Peptidoglycan Fragments. <i>Cell</i> , 2008, 135, 486-496.	13.5	434

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37	The <i>Bacillus anthracis</i> SleL (YaaH) Protein Is an N-Acetylglucosaminidase Involved in Spore Cortex Depolymerization. <i>Journal of Bacteriology</i> , 2008, 190, 7601-7607.	1.0	42
38	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. <i>Journal of Aquatic Food Product Technology</i> , 2008, 17, 322-337.	0.6	7
39	Cortex Peptidoglycan Lytic Activity in Germinating <i>Bacillus anthracis</i> Spores. <i>Journal of Bacteriology</i> , 2008, 190, 4541-4548.	1.0	26
40	Factors Contributing to Heat Resistance of <i>Clostridium perfringens</i> Endospores. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3328-3335.	1.4	54
41	Influence of Curli Expression by <i>Escherichia coli</i> O157:H7 on the Cell's Overall Hydrophobicity, Charge, and Ability To Attach to Lettuce. <i>Journal of Food Protection</i> , 2007, 70, 1339-1345.	0.8	85
42	Spore cortex formation in <i>Bacillus subtilis</i> is regulated by accumulation of peptidoglycan precursors under the control of sigma K. <i>Molecular Microbiology</i> , 2007, 65, 1582-1594.	1.2	47
43	Penicillin-Binding Protein 1a Promotes Resistance of Group B <i>Streptococcus</i> to Antimicrobial Peptides. <i>Infection and Immunity</i> , 2006, 74, 6179-6187.	1.0	44
44	Daughter Cell Separation by Penicillin-Binding Proteins and Peptidoglycan Amidases in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006, 188, 5345-5355.	1.0	101
45	Sulfur and Nitrogen Limitation in <i>Escherichia coli</i> K-12: Specific Homeostatic Responses. <i>Journal of Bacteriology</i> , 2005, 187, 1074-1090.	1.0	96
46	A Mother Cell-Specific Class B Penicillin-Binding Protein, PBP4b, in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2004, 186, 258-261.	1.0	11
47	Production of Muramic $\hat{\Gamma}$ -Lactam in <i>Bacillus subtilis</i> Spore Peptidoglycan. <i>Journal of Bacteriology</i> , 2004, 186, 80-89.	1.0	80
48	Unmasking Novel Sporulation Genes in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2004, 186, 8089-8095.	1.0	17
49	Role of penicillin-binding proteins in bacterial cell morphogenesis. <i>Current Opinion in Microbiology</i> , 2003, 6, 594-599.	2.3	168
50	Peptidoglycan Synthesis in the Absence of Class A Penicillin-Binding Proteins in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2003, 185, 1423-1431.	1.0	146
51	Rod Shape Determination by the <i>Bacillus subtilis</i> Class B Penicillin-Binding Proteins Encoded by <i>pbpA</i> and <i>pbpH</i> . <i>Journal of Bacteriology</i> , 2003, 185, 4717-4726.	1.0	76
52	Specialized peptidoglycan of the bacterial endospore: the inner wall of the lockbox. <i>Cellular and Molecular Life Sciences</i> , 2002, 59, 426-433.	2.4	114
53	Analysis of the properties of spores of <i>Bacillus subtilis</i> prepared at different temperatures. <i>Journal of Applied Microbiology</i> , 2002, 92, 1105-1115.	1.4	157
54	Amino Acids in the <i>Bacillus subtilis</i> Morphogenetic Protein SpoIVA with Roles in Spore Coat and Cortex Formation. <i>Journal of Bacteriology</i> , 2001, 183, 1645-1654.	1.0	33

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55	Two Class A High-Molecular-Weight Penicillin-Binding Proteins of <i>Bacillus subtilis</i> Play Redundant Roles in Sporulation. <i>Journal of Bacteriology</i> , 2001, 183, 6046-6053.	1.0	40
56	Structural Analysis of <i>Bacillus subtilis</i> Spore Peptidoglycan during Sporulation. <i>Journal of Bacteriology</i> , 2000, 182, 4491-4499.	1.0	79
57	Roles of Low-Molecular-Weight Penicillin-Binding Proteins in <i>Bacillus subtilis</i> Spore Peptidoglycan Synthesis and Spore Properties. <i>Journal of Bacteriology</i> , 1999, 181, 126-132.	1.0	81
58	Spore Peptidoglycan Structure in a <i>cwlD dacB</i> Double Mutant of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1999, 181, 6205-6209.	1.0	21
59	Identification of a gene for a rubrerythrin/nigerythrin-like protein in <i>Spirillum volutans</i> by using amino acid sequence data from mass spectrometry and NH ₂ -terminal sequencing. <i>Journal of Applied Microbiology</i> , 1998, 85, 875-882.	1.4	28
60	<i>Bacillus subtilis</i> Cells Lacking Penicillin-Binding Protein 1 Require Increased Levels of Divalent Cations for Growth. <i>Journal of Bacteriology</i> , 1998, 180, 4555-4563.	1.0	65
61	Characterization of <i>dacC</i> , Which Encodes a New Low-Molecular-Weight Penicillin-Binding Protein in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1998, 180, 4967-4973.	1.0	34
62	Analysis of Outgrowth of <i>Bacillus subtilis</i> Spores Lacking Penicillin-Binding Protein 2a. <i>Journal of Bacteriology</i> , 1998, 180, 6493-6502.	1.0	34
63	Analysis of the peptidoglycan structure of <i>Bacillus subtilis</i> endospores. <i>Journal of Bacteriology</i> , 1996, 178, 6451-6458.	1.0	132
64	Muramic lactam in peptidoglycan of <i>Bacillus subtilis</i> spores is required for spore outgrowth but not for spore dehydration or heat resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 15405-15410.	3.3	209
65	Phenotypes of <i>Bacillus subtilis</i> mutants lacking multiple class A high-molecular-weight penicillin-binding proteins. <i>Journal of Bacteriology</i> , 1996, 178, 2079-2085.	1.0	97
66	Heat, hydrogen peroxide, and UV resistance of <i>Bacillus subtilis</i> spores with increased core water content and with or without major DNA-binding proteins. <i>Applied and Environmental Microbiology</i> , 1995, 61, 3633-3638.	1.4	121
67	A bacterial enhancer functions to tether a transcriptional activator near a promoter. <i>Science</i> , 1990, 248, 486-490.	6.0	211
68	Function of a bacterial activator protein that binds to transcriptional enhancers. <i>Science</i> , 1989, 243, 629-635.	6.0	456
69	Structure and Synthesis of Cell Wall, Spore Cortex, Teichoic Acids, S-Layers, and Capsules. , 0, , 21-41.		61
70	Spore Peptidoglycan. , 0, , 157-177.		4