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List of Publications by Year
in descending order

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Version: 2024-02-01

47 papers	3,123 citations	172457 29 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	3489 citing authors

#	Article	IF	Citations
1	Encapsulation of the septal cell wall protects Streptococcus pneumoniae from its major peptidoglycan hydrolase and host defenses. PLoS Pathogens, 2022, 18, e1010516.	4.7	2
2	A molecular link between cell wall biosynthesis, translation fidelity, and stringent response in<i>Streptococcus pneumoniae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
3	The Mycobacteriophage Ms6 LysB N-Terminus Displays Peptidoglycan Binding Affinity. Viruses, 2021, 13, 1377.	3.3	6
4	eHooke: A tool for automated image analysis of spherical bacteria based on cell cycle progression. Biological Imaging, 2021, 1, e3.	2.2	11
5	Assembly of Peptidoglycan Fragmentsâ€"A Synthetic Challenge. Pharmaceuticals, 2020, 13, 392.	3.8	2
6	A top-down chemo-enzymatic approach towards N-acetylglucosamine-N-acetylmuramic oligosaccharides: Chitosan as a reliable template. Carbohydrate Polymers, 2019, 224, 115133.	10.2	7
7	A comparative genomics approach for identifying host-range determinants in Streptococcus thermophilus bacteriophages. Scientific Reports, 2019, 9, 7991.	3.3	26
8	Accessibility to Peptidoglycan Is Important for the Recognition of Gram-Positive Bacteria in Drosophila. Cell Reports, 2019, 27, 2480-2492.e6.	6.4	32
9	The pentaglycine bridges of Staphylococcus aureus peptidoglycan are essential for cell integrity. Scientific Reports, 2019, 9, 5010.	3.3	38
10	Revisiting Anti-tuberculosis Therapeutic Strategies That Target the Peptidoglycan Structure and Synthesis. Frontiers in Microbiology, 2019, 10, 190.	3.5	31
11	Peptidoglycan synthesis drives an FtsZ-treadmilling-independent step of cytokinesis. Nature, 2018, 554, 528-532.	27.8	149
12	Cell Wall Glycans Mediate Recognition of the Dairy Bacterium Streptococcus thermophilus by Bacteriophages. Applied and Environmental Microbiology, 2018, 84, .	3.1	30
13	From a Natural Polymer to Relevant NAGâ€NAM Precursors. Asian Journal of Organic Chemistry, 2018, 7, 2544-2551.	2.7	5
14	Hydrolysis of peptidoglycan is modulated by amidation of <i>meso</i>â€diaminopimelic acid and <scp>M</scp>g²⁺ in <scp><i>B</i></scp><i>acillus subtilis</i>. Molecular Microbiology, 2017, 104, 972-988.	2.5	42
15	Analysis of Cell Wall Teichoic Acids in Staphylococcus aureus. Methods in Molecular Biology, 2016, 1440, 201-213.	0.9	17
16	The Invertebrate Lysozyme Effector ILYS-3 Is Systemically Activated in Response to Danger Signals and Confers Antimicrobial Protection in C. elegans. PLoS Pathogens, 2016, 12, e1005826.	4.7	33
17	Peptidoglycan Branched Stem Peptides Contribute to Streptococcus pneumoniae Virulence by Inhibiting Pneumolysin Release. PLoS Pathogens, 2015, 11, e1004996.	4.7	37
18	Staphylococcus aureus Survives with a Minimal Peptidoglycan Synthesis Machine but Sacrifices Virulence and Antibiotic Resistance. PLoS Pathogens, 2015, 11, e1004891.	4.7	82

#	ARTICLE	IF	CITATIONS
19	L-Rhamnosylation of Listeria monocytogenes Wall Teichoic Acids Promotes Resistance to Antimicrobial Peptides by Delaying Interaction with the Membrane. PLoS Pathogens, 2015, 11, e1004919.	4.7	70
20	Cell shape dynamics during the staphylococcal cell cycle. Nature Communications, 2015, 6, 8055.	12.8	208
21	Optimization of Fluorescent Tools for Cell Biology Studies in Gram-Positive Bacteria. PLoS ONE, 2014, 9, e113796.	2.5	5
22	Bacterial autolysins trim cell surface peptidoglycan to prevent detection by the Drosophila innate immune system. ELife, 2014, 3, e02277.	6.0	32
23	An early cytoplasmic step of peptidoglycan synthesis is associated to <scp>MreB</scp> in <i><scp>B</scp>acillus subtilis</i>. Molecular Microbiology, 2014, 91, 348-362.	2.5	35
24	Construction of Improved Tools for Protein Localization Studies in Streptococcus pneumoniae. PLoS ONE, 2013, 8, e55049.	2.5	23
25	Thioridazine Induces Major Changes in Global Gene Expression and Cell Wall Composition in Methicillin-Resistant Staphylococcus aureus USA300. PLoS ONE, 2013, 8, e64518.	2.5	44
26	Synthesis of capsular polysaccharide at the division septum of Streptococcus pneumoniae is dependent on a bacterial tyrosine kinase. Molecular Microbiology, 2011, 82, 515-534.	2.5	41
27	Wall Teichoic Acids of Staphylococcus aureus Limit Recognition by the Drosophila Peptidoglycan Recognition Protein-SA to Promote Pathogenicity. PLoS Pathogens, 2011, 7, e1002421.	4.7	46
28	Teichoic acids are temporal and spatial regulators of peptidoglycan cross-linking in <i>Staphylococcus aureus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18991-18996.	7.1	225
29	<i>Staphylococcus aureus</i> PBP4 Is Essential for Î²-Lactam Resistance in Community-Acquired Methicillin-Resistant Strains. Antimicrobial Agents and Chemotherapy, 2008, 52, 3955-3966.	3.2	146
30	Peptidoglycan recognition protein-SD provides versatility of receptor formation in <i>Drosophila</i> immunity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11881-11886.	7.1	35
31	Fluorescence Ratio Imaging Microscopy Shows Decreased Access of Vancomycin to Cell Wall Synthetic Sites in Vancomycin-Resistant<i>Staphylococcus aureus</i>. Antimicrobial Agents and Chemotherapy, 2007, 51, 3627-3633.	3.2	74
32	Tracking of controlled Escherichia coli replication fork stalling and restart at repressor-bound DNA in vivo. EMBO Journal, 2006, 25, 2596-2604.	7.8	107
33	Sensing of Gram-positive bacteria in Drosophila: GNBP1 is needed to process and present peptidoglycan to PGRP-SA. EMBO Journal, 2006, 25, 5005-5014.	7.8	88
34	Replication fork blockage by transcription factor-DNA complexes in Escherichia coli. Nucleic Acids Research, 2006, 34, 5194-5202.	14.5	49
35	Requirements of peptidoglycan structure that allow detection by the <i>Drosophila</i> Toll pathway. EMBO Reports, 2005, 6, 327-333.	4.5	99
36	Role of murE in the Expression of Î²-Lactam Antibiotic Resistance in Staphylococcus aureus. Journal of Bacteriology, 2004, 186, 1705-1713.	2.2	41

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37	Recombination and chromosome segregation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 61-69.	4.0	70
38	Cell wall branches, penicillin resistance and the secrets of the MurM protein. Trends in Microbiology, 2003, 11, 547-553.	7.7	42
39	Spatial and temporal organization of replicating <i>Escherichia coli</i> chromosomes. Molecular Microbiology, 2003, 49, 731-743.	2.5	360
40	The murMN operon: A functional link between antibiotic resistance and antibiotic tolerance in Streptococcus pneumoniae. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1550-1555.	7.1	60
41	The Role ofmurMNOperon in Penicillin Resistance and Antibiotic Tolerance ofStreptococcus pneumoniae. Microbial Drug Resistance, 2001, 7, 303-316.	2.0	24
42	Functional Analysis of Streptococcus pneumoniae MurM Reveals the Region Responsible for Its Specificity in the Synthesis of Branched Cell Wall Peptides. Journal of Biological Chemistry, 2001, 276, 39618-39628.	3.4	31
43	Complementation of the Essential Peptidoglycan Transpeptidase Function of Penicillin-Binding Protein 2 (PBP2) by the Drug Resistance Protein PBP2A in Staphylococcus aureus. Journal of Bacteriology, 2001, 183, 6525-6531.	2.2	194
44	Characterization of the murMN Operon Involved in the Synthesis of Branched Peptidoglycan Peptides in Streptococcus pneumoniae. Journal of Biological Chemistry, 2000, 275, 27768-27774.	3.4	57
45	Distribution of the Mosaic StructuredmurM Genes among Natural Populations ofStreptococcus pneumoniae. Journal of Bacteriology, 2000, 182, 6798-6805.	2.2	45
46	Inhibition of the expression of penicillin resistance in Streptococcus pneumoniae by inactivation of cell wall muropeptide branching genes. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4891-4896.	7.1	165
47	Antibiotic Resistance As a Stress Response: Complete Sequencing of a Large Number of Chromosomal Loci in<i>Staphylococcus aureus</i>Strain COL That Impact on the Expression of Resistance to Methicillin. Microbial Drug Resistance, 1999, 5, 163-175.	2.0	147