Waldemar Vollmer

List of Publications by Year
in descending order

151 papers	13,138 citations	30070 54 h-index	28297 105 g-index
171 all docs	171 docs citations	171 times ranked	9679 citing authors

#	Article	IF	Citations
1	Peptidoglycan structure and architecture. FEMS Microbiology Reviews, 2008, 32, 149-167.	8.6	1,747
2	From the regulation of peptidoglycan synthesis to bacterial growth and morphology. Nature Reviews Microbiology, 2012, 10, 123-136.	28.6	1,062
3	Bacterial peptidoglycan (murein) hydrolases. FEMS Microbiology Reviews, 2008, 32, 259-286.	8.6	725
4	Murein (peptidoglycan) structure, architecture and biosynthesis in Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1714-1734.	2.6	359
5	Regulation of peptidoglycan synthesis and remodelling. Nature Reviews Microbiology, 2020, 18, 446-460.	28.6	342
6	Regulation of Peptidoglycan Synthesis by Outer-Membrane Proteins. Cell, 2010, 143, 1097-1109.	28.9	335
7	Structural variation in the glycan strands of bacterial peptidoglycan. FEMS Microbiology Reviews, 2008, 32, 287-306.	8.6	324
8	Architecture of peptidoglycan: more data and more models. Trends in Microbiology, 2010, 18, 59-66.	7.7	289
9	The physiology of bacterial cell division. Annals of the New York Academy of Sciences, 2013, 1277, 8-28.	3.8	281
10	Peptidoglycan Crosslinking Relaxation Promotes Helicobacter pylori's Helical Shape and Stomach Colonization. Cell, 2010, 141, 822-833.	28.9	240
11	The pgdA Gene Encodes for a PeptidoglycanN-Acetylglucosamine Deacetylase in Streptococcus pneumoniae. Journal of Biological Chemistry, 2000, 275, 20496-20501.	3.4	224
12	Interaction between two murein (peptidoglycan) synthases, PBP3 and PBP1B, in Escherichia coli. Molecular Microbiology, 2006, 61, 675-690.	2.5	173
13	Demonstration of Molecular Interactions between the Murein Polymerase PBP1B, the Lytic Transglycosylase MltA, and the Scaffolding Protein MipA of Escherichia coli. Journal of Biological Chemistry, 1999, 274, 6726-6734.	3.4	160
14	Coordination of peptidoglycan synthesis and outer membrane constriction during Escherichia coli cell division. ELife, 2015, 4, .	6.0	154
15	Different walls for rods and balls: the diversity of peptidoglycan. Molecular Microbiology, 2014, 91, 862-874.	2.5	150
16	Bacterial cell curvature through mechanical control of cell growth. EMBO Journal, 2009, 28, 1208-1219.	7.8	147
17	Cooperativity of peptidoglycan synthases active in bacterial cell elongation. Molecular Microbiology, 2012, 85, 179-194.	2.5	147
18	The Essential Cell Division Protein FtsN Interacts with the Murein (Peptidoglycan) Synthase PBP1B in Escherichia coli. Journal of Biological Chemistry, 2007, 282, 36394-36402.	3.4	140

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19	Regulation of bacterial cell wall growth. FEBS Journal, 2017, 284, 851-867.	4.7	140
20	Activities and regulation of peptidoglycan synthases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20150031.	4.0	138
21	In Vitro Murein (Peptidoglycan) Synthesis by Dimers of the Bifunctional Transglycosylase-Transpeptidase PBP1B from Escherichia coli. Journal of Biological Chemistry, 2005, 280, 38096-38101.	3.4	135
22	From models to pathogens: how much have we learned about <scp>S</scp>treptococcus pneumoniae cell division?. Environmental Microbiology, 2013, 15, 3133-3157.	3.8	135
23	A broadly distributed toxin family mediates contact-dependent antagonism between gram-positive bacteria. ELife, 2017, 6, .	6.0	132
24	Cell wall peptidoglycan inMycobacterium tuberculosis: An Achillesâ€™ heel for the TB-causing pathogen. FEMS Microbiology Reviews, 2019, 43, 548-575.	8.6	131
25	Multiple Peptidoglycan Modification Networks Modulate Helicobacter pylori's Cell Shape, Motility, and Colonization Potential. PLoS Pathogens, 2012, 8, e1002603.	4.7	125
26	Discovery of chlamydial peptidoglycan reveals bacteria with murein sacculi but without FtsZ. Nature Communications, 2013, 4, 2856.	12.8	123
27	Murein (Peptidoglycan) Binding Property of the Essential Cell Division Protein FtsN from Escherichia coli. Journal of Bacteriology, 2004, 186, 6728-6737.	2.2	117
28	Peptidoglycan Remodeling Enables Escherichia coli To Survive Severe Outer Membrane Assembly Defect. MBio, 2019, 10, .	4.1	115
29	In Vitro Synthesis of Cross-linked Murein and Its Attachment to Sacculi by PBP1A from Escherichia coli. Journal of Biological Chemistry, 2006, 281, 26985-26993.	3.4	114
30	A penicillin-binding protein inhibits selection of colistin-resistant, lipooligosaccharide-deficient Acinetobacter baumannii. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6228-E6237.	7.1	114
31	The prokaryotic cytoskeleton: a putative target for inhibitors and antibiotics?. Applied Microbiology and Biotechnology, 2006, 73, 37-47.	3.6	112
32	PeptidoglycanN-Acetylglucosamine Deacetylase, a Putative Virulence Factor inStreptococcus pneumoniae. Infection and Immunity, 2002, 70, 7176-7178.	2.2	109
33	MreB Drives De N ovo Rod Morphogenesis in Caulobacter crescentus via Remodeling of the Cell Wall. Journal of Bacteriology, 2010, 192, 1671-1684.	2.2	103
34	Colocalization and interaction between elongasome and divisome during a preparative cell division phase in <scp>E</scp>scherichia coli. Molecular Microbiology, 2013, 87, 1074-1087.	2.5	103
35	Fluorescent D-amino-acids reveal bi-cellular cell wall modifications important for Bdellovibrio bacteriovorus predation. Nature Microbiology, 2017, 2, 1648-1657.	13.3	103
36	Mechanisms of Incorporation for <scp>D</scp>-Amino Acid Probes That Target Peptidoglycan Biosynthesis. ACS Chemical Biology, 2019, 14, 2745-2756.	3.4	101

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37	Borrelia burgdorferipeptidoglycan is a persistent antigen in patients with Lyme arthritis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13498-13507.	7.1	97
38	Interplay between Penicillin-binding proteins and SEDS proteins promotes bacterial cell wall synthesis. Scientific Reports, 2017, 7, 43306.	3.3	96
39	Outer-membrane lipoprotein LpoB spans the periplasm to stimulate the peptidoglycan synthase PBP1B. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8197-8202.	7.1	95
40	Peptidoglycan-Modifying Enzyme Pgp1 Is Required for Helical Cell Shape and Pathogenicity Traits in Campylobacter jejuni. PLoS Pathogens, 2012, 8, e1002602.	4.7	92
41	Cell age dependent concentration of Escherichia coli divisome proteins analyzed with ImageJ and ObjectJ. Frontiers in Microbiology, 2015, 6, 586.	3.5	92
42	Isolation and analysis of cell wall components from Streptococcus pneumoniae. Analytical Biochemistry, 2012, 421, 657-666.	2.4	90
43	The Peptidoglycan Sacculus of Myxococcus xanthus Has Unusual Structural Features and Is Degraded during Glycerol-Induced Myxospore Development. Journal of Bacteriology, 2009, 191, 494-505.	2.2	89
44	The Redundancy of Peptidoglycan Carboxypeptidases Ensures Robust Cell Shape Maintenance in Escherichia coli. MBio, 2016, 7, .	4.1	86
45	Robust peptidoglycan growth by dynamic and variable multi-protein complexes. Current Opinion in Microbiology, 2017, 36, 55-61.	5.1	84
46	Septal and lateral wall localization of PBP5, the major D,Dâ€carboxypeptidase of Escherichia coli, requires substrate recognition and membrane attachment. Molecular Microbiology, 2010, 77, 300-323.	2.5	82
47	Transferred interbacterial antagonism genes augment eukaryotic innate immune function. Nature, 2015, 518, 98-101.	27.8	82
48	The Pseudomonas aeruginosa T6SS Delivers a Periplasmic Toxin that Disrupts Bacterial Cell Morphology. Cell Reports, 2019, 29, 187-201.e7.	6.4	82
49	Flow cytometryâ€based enrichment for cell shape mutants identifies multiple genes that influence <scp>H</scp>elicobacter pylori morphology. Molecular Microbiology, 2013, 90, 869-883.	2.5	73
50	Plasticity of Escherichia coli cell wall metabolism promotes fitness and antibiotic resistance across environmental conditions. ELife, 2019, 8, .	6.0	72
51	Bacterial growth does require peptidoglycan hydrolases. Molecular Microbiology, 2012, 86, 1031-1035.	2.5	71
52	Specialized Peptidoglycan Hydrolases Sculpt the Intra-bacterial Niche of Predatory Bdellovibrio and Increase Population Fitness. PLoS Pathogens, 2012, 8, e1002524.	4.7	70
53	Peptidoglycan ld-Carboxypeptidase Pgp2 Influences Campylobacter jejuni Helical Cell Shape and Pathogenic Properties and Provides the Substrate for the dl-Carboxypeptidase Pgp1. Journal of Biological Chemistry, 2014, 289, 8007-8018.	3.4	69
54	Outer membrane lipoprotein NlpI scaffolds peptidoglycan hydrolases within multiâ€enzyme complexes in Escherichia coli. EMBO Journal, 2020, 39, e102246.	7.8	69

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55	Peptidoglycan in obligate intracellular bacteria. Molecular Microbiology, 2018, 107, 142-163.	2.5	68
56	Coordination of capsule assembly and cell wall biosynthesis in Staphylococcus aureus. Nature Communications, 2019, 10, 1404.	12.8	66
57	Mechanical interactions between bacteria and hydrogels. Scientific Reports, 2018, 8, 10893.	3.3	64
58	Identification of the teichoic acid phosphorylcholine esterase in Streptococcus pneumoniae. Molecular Microbiology, 2001, 39, 1610-1622.	2.5	61
59	Z-ring membrane anchors associate with cell wall synthases to initiate bacterial cell division. Nature Communications, 2018, 9, 5090.	12.8	60
60	Copper inhibits peptidoglycan LD-transpeptidases suppressing Î²-lactam resistance due to bypass of penicillin-binding proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10786-10791.	7.1	59
61	Crystal Structure of MltA from Escherichia coli Reveals a Unique Lytic Transglycosylase Fold. Journal of Molecular Biology, 2005, 352, 1068-1080.	4.2	56
62	Elongated Structure of the Outer-Membrane Activator of Peptidoglycan Synthesis LpoA: Implications for PBP1A Stimulation. Structure, 2014, 22, 1047-1054.	3.3	53
63	Osmolality-Dependent Relocation of Penicillin-Binding Protein PBP2 to the Division Site in Caulobacter crescentus. Journal of Bacteriology, 2012, 194, 3116-3127.	2.2	52
64	Lipoteichoic acid deficiency permits normal growth but impairs virulence of Streptococcus pneumoniae. Nature Communications, 2017, 8, 2093.	12.8	52
65	Two Faces of CwlM, an Essential PknB Substrate, in Mycobacterium tuberculosis. Cell Reports, 2018, 25, 57-67.e5.	6.4	52
66	<scp>d</scp>-Amino Acid Derivatives as in Situ Probes for Visualizing Bacterial Peptidoglycan Biosynthesis. Accounts of Chemical Research, 2019, 52, 2713-2722.	15.6	52
67	Distinct cytoskeletal proteins define zones of enhanced cell wall synthesis in Helicobacter pylori. ELife, 2020, 9, .	6.0	51
68	Diffusion and capture permits dynamic coupling between treadmilling FtsZ filaments and cell division proteins. Nature Microbiology, 2020, 5, 407-417.	13.3	48
69	Peptidoglycan editing provides immunity to Acinetobacter baumannii during bacterial warfare. Science Advances, 2020, 6, eabb5614.	10.3	44
70	The host metabolite D-serine contributes to bacterial niche specificity through gene selection. ISME Journal, 2015, 9, 1039-1051.	9.8	43
71	The Cell Wall of Streptococcus pneumoniae. Microbiology Spectrum, 2019, 7, .	3.0	43
72	Lyme disease and relapsing feverBorreliaelongate through zones of peptidoglycan synthesis that mark division sites of daughter cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9162-9170.	7.1	42

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73	Peptidoglycan editing by a specific ld-transpeptidase controls the muramidase-dependent secretion of typhoid toxin. Nature Microbiology, 2018, 3, 1243-1254.	13.3	40
74	Interrupting peptidoglycan deacetylation during Bdellovibrio predator-prey interaction prevents ultimate destruction of prey wall, liberating bacterial-ghosts. Scientific Reports, 2016, 6, 26010.	3.3	39
75	The lytic transglycosylase MltB connects membrane homeostasis andin vivofitness ofAcinetobacter baumannii. Molecular Microbiology, 2018, 109, 745-762.	2.5	38
76	Ankyrin-mediated self-protection during cell invasion by the bacterial predator Bdellovibrio bacteriovorus. Nature Communications, 2015, 6, 8884.	12.8	37
77	Staphylococcus aureus cell wall structure and dynamics during host-pathogen interaction. PLoS Pathogens, 2021, 17, e1009468.	4.7	36
78	Induced conformational changes activate the peptidoglycan synthase PBP1B. Molecular Microbiology, 2018, 110, 335-356.	2.5	35
79	High-Resolution Analysis of the Peptidoglycan Composition in Streptomyces coelicolor. Journal of Bacteriology, 2018, 200, .	2.2	35
80	MreC and MreD balance the interaction between the elongasome proteins PBP2 and RodA. PLoS Genetics, 2020, 16, e1009276.	3.5	35
81	Slippery Liquid-Like Solid Surfaces with Promising Antibiofilm Performance under Both Static and Flow Conditions. ACS Applied Materials & Interfaces, 2022, 14, 6307-6319.	8.0	35
82	Two Putative Polysaccharide Deacetylases Are Required for Osmotic Stability and Cell Shape Maintenance in Bacillus anthracis. Journal of Biological Chemistry, 2015, 290, 13465-13478.	3.4	34
83	Structure of the essential peptidoglycan amidotransferase MurT/GatD complex from Streptococcus pneumoniae. Nature Communications, 2018, 9, 3180.	12.8	34
84	Peptidoglycan maturation controls outer membrane protein assembly. Nature, 2022, 606, 953-959.	27.8	34
85	Structure of the LdcB LD-Carboxypeptidase Reveals the Molecular Basis of Peptidoglycan Recognition. Structure, 2014, 22, 949-960.	3.3	31
86	Ticks Resist Skin Commensals with Immune Factor of Bacterial Origin. Cell, 2020, 183, 1562-1571.e12.	28.9	31
87	A specialized MreB-dependent cell wall biosynthetic complex mediates the formation of stalk-specific peptidoglycan in Caulobacter crescentus. PLoS Genetics, 2019, 15, e1007897.	3.5	31
88	Substrate recognition and catalysis by LytB, a pneumococcal peptidoglycan hydrolase involved in virulence. Scientific Reports, 2015, 5, 16198.	3.3	30
89	Studying intact bacterial peptidoglycan by proton-detected NMR spectroscopy at 100â€¯kHz MAS frequency. Journal of Structural Biology, 2019, 206, 66-72.	2.8	30
90	Inactivation of the Monofunctional Peptidoglycan Glycosyltransferase SgtB Allows Staphylococcus aureus To Survive in the Absence of Lipoteichoic Acid. Journal of Bacteriology, 2019, 201, .	2.2	30

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91	Molecular Basis for Immunity Protein Recognition of a Type VII Secretion System Exported Antibacterial Toxin. Journal of Molecular Biology, 2018, 430, 4344-4358.	4.2	29
92	Regulation and function of class A Penicillin-binding proteins. Current Opinion in Microbiology, 2021, 60, 80-87.	5.1	29
93	ActS activates peptidoglycan amidases during outer membrane stress in Escherichia coli. Molecular Microbiology, 2021, 116, 329-342.	2.5	28
94	AmiA is a penicillin target enzyme with dual activity in the intracellular pathogen Chlamydia pneumoniae. Nature Communications, 2014, 5, 4201.	12.8	27
95	The stoichiometric divisome: a hypothesis. Frontiers in Microbiology, 2015, 6, 455.	3.5	27
96	The Campylobacter jejuni helical to coccoid transition involves changes to peptidoglycan and the ability to elicit an immune response. Molecular Microbiology, 2019, 112, 280-301.	2.5	27
97	Subunit Arrangement in GpsB, a Regulator of Cell Wall Biosynthesis. Microbial Drug Resistance, 2016, 22, 446-460.	2.0	26
98	The Fluorescent D-Amino Acid NADA as a Tool to Study the Conditional Activity of Transpeptidases in Escherichia coli. Frontiers in Microbiology, 2018, 9, 2101.	3.5	26
99	A Genome-Wide Helicobacter pylori Morphology Screen Uncovers a Membrane-Spanning Helical Cell Shape Complex. Journal of Bacteriology, 2019, 201, .	2.2	25
100	Peptidoglycan degradation machinery in Clostridium difficile forespore engulfment. Molecular Microbiology, 2018, 110, 390-410.	2.5	24
101	The active repertoire of Escherichia coli peptidoglycan amidases varies with physiochemical environment. Molecular Microbiology, 2021, 116, 311-328.	2.5	24
102	Transfer of penicillin resistance from <scp>S</scp>treptococcus oralis to <scp>S</scp>treptococcus pneumoniae identifies mur<scp>E</scp> as resistance determinant. Molecular Microbiology, 2015, 97, 866-880.	2.5	23
103	Accumulation of Peptidoglycan O-Acetylation Leads to Altered Cell Wall Biochemistry and Negatively Impacts Pathogenesis Factors of Campylobacter jejuni. Journal of Biological Chemistry, 2016, 291, 22686-22702.	3.4	23
104	Coupling of polymerase and carrier lipid phosphatase prevents product inhibition in peptidoglycan synthesis. Cell Surface, 2018, 2, 1-13.	3.0	23
105	Recognition of Peptidoglycan Fragments by the Transpeptidase PBP4 From Staphylococcus aureus. Frontiers in Microbiology, 2018, 9, 3223.	3.5	23
106	Bacterial outer membrane evolution via sporulation?. Nature Chemical Biology, 2012, 8, 14-18.	8.0	22
107	The external PASTA domain of the essential serine/threonine protein kinase PknB regulates mycobacterial growth. Open Biology, 2015, 5, 150025.	3.6	22
108	The Protozoan Trichomonas vaginalis Targets Bacteria with Laterally Acquired NlpC/P60 Peptidoglycan Hydrolases. MBio, 2018, 9, .	4.1	22

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109	DpaA Detaches Braunâ€™s Lipoprotein from Peptidoglycan. MBio, 2021, 12, .	4.1	22
110	Lytic transglycosylase MltG cleaves in nascent peptidoglycan and produces short glycan strands. Cell Surface, 2021, 7, 100053.	3.0	21
111	New Aspects of the Interplay between Penicillin Binding Proteins, murM , and the Two-Component System CiaRH of Penicillin-Resistant Streptococcus pneumoniae Serotype 19A Isolates from Hungary. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	20
112	Cell morphology maintenance in Bacillus subtilis through balanced peptidoglycan synthesis and hydrolysis. Scientific Reports, 2020, 10, 17910.	3.3	20
113	Peptidoglycan biosynthesis is driven by lipid transfer along enzyme-substrate affinity gradients. Nature Communications, 2022, 13, 2278.	12.8	20
114	Tol-Pal System and Rgs Proteins Interact to Promote Unipolar Growth and Cell Division in Sinorhizobium meliloti. MBio, 2020, 11, .	4.1	18
115	Septal Class A Penicillin-Binding Protein Activity and <scp>ld</scp> -Transpeptidases Mediate Selection of Colistin-Resistant Lipooligosaccharide-Deficient Acinetobacter baumannii. MBio, 2021, 12, .	4.1	17
116	The Novel Membrane-Associated Auxiliary Factors AuxA and AuxB Modulate Î²-lactam Resistance in MRSA by stabilizing Lipoteichoic Acids. International Journal of Antimicrobial Agents, 2021, 57, 106283.	2.5	17
117	In Vitro Peptidoglycan Synthesis Assay with Lipid II Substrate. Methods in Molecular Biology, 2013, 966, 273-288.	0.9	17
118	Stimulation of PgdAâ€dependent peptidoglycan Nâ€deacetylation by GpsBâ€PBP A1 in Listeria monocytogenes. Molecular Microbiology, 2018, 107, 472-487.	2.5	16
119	Seven-transmembrane receptor protein RgsP and cell wall-binding protein RgsM promote unipolar growth in Rhizobiales. PLoS Genetics, 2018, 14, e1007594.	3.5	16
120	Loss of YhcB results in dysregulation of coordinated peptidoglycan, LPS and phospholipid synthesis during Escherichia coli cell growth. PLoS Genetics, 2021, 17, e1009586.	3.5	16
121	Structure and activity of ChiX: a peptidoglycan hydrolase required for chitinase secretion by Serratia marcescens. Biochemical Journal, 2018, 475, 415-428.	3.7	15
122	SPOR Proteins Are Required for Functionality of Class A Penicillin-Binding Proteins in Escherichia coli. MBio, 2020, 11, .	4.1	15
123	Siteâ€Specific Immobilization of the Peptidoglycan Synthase PBP1B on a Surface Plasmon Resonance Chip Surface. ChemBioChem, 2016, 17, 2250-2256.	2.6	14
124	Morphology heterogeneity within a Campylobacter jejuni helical population: the use of calcofluor white to generate rodâ€shaped C. jejuni 81â€176 clones and the genetic determinants responsible for differences in morphology within 11168 strains. Molecular Microbiology, 2017, 104, 948-971.	2.5	14
125	Real-time monitoring of peptidoglycan synthesis by membrane-reconstituted penicillin-binding proteins. ELife, 2021, 10, .	6.0	13
126	Combining Cell Envelope Stress Reporter Assays in a Screening Approach to Identify BAM Complex Inhibitors. ACS Infectious Diseases, 2021, 7, 2250-2263.	3.8	13

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127	Role of endopeptidases in peptidoglycan synthesis mediated by alternative crossâ€linking enzymes in Escherichia coli. EMBO Journal, 2021, 40, e108126.	7.8	13
128	Asymmetric peptidoglycan editing generates cell curvature in Bdellovibrio predatory bacteria. Nature Communications, 2022, 13, 1509.	12.8	12
129	Discovery of Pyrrolidine-2,3-diones as Novel Inhibitors of P. aeruginosa PBP3. Antibiotics, 2021, 10, 529.	3.7	11
130	Penicillin-Binding Protein 1 (PBP1) of Staphylococcus aureus Has Multiple Essential Functions in Cell Division. MBio, 2022, 13, .	4.1	11
131	Continuous Fluorescence Assay for Peptidoglycan Glycosyltransferases. Methods in Molecular Biology, 2016, 1440, 171-184.	0.9	10
132	Structure of the Peptidoglycan Synthase Activator LpoP in Pseudomonas aeruginosa. Structure, 2020, 28, 643-650.e5.	3.3	9
133	Co-Inactivation of GlnR and CodY Regulators Impacts Pneumococcal Cell Wall Physiology. PLoS ONE, 2015, 10, e0123702.	2.5	8
134	The cell wall hydrolase Pmp23 is important for assembly and stability of the division ring in Streptococcus pneumoniae. Scientific Reports, 2018, 8, 7591.	3.3	8
135	Peptidoglycan Recycling Promotes Outer Membrane Integrity and Carbapenem Tolerance in Acinetobacter baumannii. MBio, 2022, 13, .	4.1	8
136	Does the Nucleoid Determine Cell Dimensions in Escherichia coli?. Frontiers in Microbiology, 2019, 10, 1717.	3.5	6
137	Optimized Protocol for the Incorporation of FDAA (HADA Labeling) for in situ Labeling of Peptidoglycan. Bio-protocol, 2019, 9, e3316.	0.4	6
138	Localizing Peptidoglycan Synthesis in Helicobacter pylori using Clickable Metabolic Probes. Current Protocols, 2021, 1, e80.	2.9	5
139	The VarA-CsrA regulatory pathway influences cell shape in Vibrio cholerae. PLoS Genetics, 2022, 18, e1010143.	3.5	5
140	Early midcell localization of Escherichia coli PBP4 supports the function of peptidoglycan amidases. PLoS Genetics, 2022, 18, e1010222.	3.5	5
141	Targeting the Bacterial Cytoskeleton of the Burkholderia cepacia Complex for Antimicrobial Development: A Cautionary Tale. International Journal of Molecular Sciences, 2018, 19, 1604.	4.1	4
142	Backbone and side-chain 1H, 13C, and 15N NMR assignments of the N-terminal domain of Escherichia coli LpoA. Biomolecular NMR Assignments, 2015, 9, 65-69.	0.8	3
143	Antibacterial potency of type VI amidase effector toxins is dependent on substrate topology and cellular context. ELife, 0, 11, .	6.0	3
144	Peptidoglycan from Akkermansia muciniphila MucT: chemical structure and immunostimulatory properties of muropeptides. Glycobiology, 2022, 32, 712-719.	2.5	2

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145	Bacterial Cell Wall Precursor Phosphatase Assays Using Thin-layer Chromatography (TLC) and High Pressure Liquid Chromatography (HPLC). Bio-protocol, 2018, 8, e2761.	0.4	1
146	MreC and MreD balance the interaction between the elongasome proteins PBP2 and RodA. , 2020, 16, e1009276.		0
147	MreC and MreD balance the interaction between the elongasome proteins PBP2 and RodA. , 2020, 16, e1009276.		0
148	MreC and MreD balance the interaction between the elongasome proteins PBP2 and RodA. , 2020, 16, e1009276.		0
149	MreC and MreD balance the interaction between the elongasome proteins PBP2 and RodA. , 2020, 16, e1009276.		0
150	MreC and MreD balance the interaction between the elongasome proteins PBP2 and RodA. , 2020, 16, e1009276.		0
151	MreC and MreD balance the interaction between the elongasome proteins PBP2 and RodA. , 2020, 16, e1009276.		0