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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153 papers	7,259 citations	50 h-index	81 g-index
162 ext. papers	8,247 ext. citations	6.5 avg, IF	5.53 L-index

#	Paper	IF	Citations
153	Molecular basis for vancomycin resistance in <i>Enterococcus faecium</i> BM4147: biosynthesis of a depsipeptide peptidoglycan precursor by vancomycin resistance proteins VanH and VanA. <i>Biochemistry</i> , 1991 , 30, 10408-15	3.2	521
152	Glycopeptide resistance in enterococci. <i>Trends in Microbiology</i> , 1996 , 4, 401-7	12.4	333
151	The peptidoglycan of stationary-phase <i>Mycobacterium tuberculosis</i> predominantly contains cross-links generated by L,D-transpeptidation. <i>Journal of Bacteriology</i> , 2008 , 190, 4360-6	3.5	256
150	The <i>Mycobacterium tuberculosis</i> protein LdtMt2 is a nonclassical transpeptidase required for virulence and resistance to amoxicillin. <i>Nature Medicine</i> , 2010 , 16, 466-9	50.5	208
149	Identification of vancomycin resistance protein VanA as a D-alanine:D-alanine ligase of altered substrate specificity. <i>Biochemistry</i> , 1991 , 30, 2017-21	3.2	204
148	Glycopeptide resistance mediated by enterococcal transposon Tn1546 requires production of VanX for hydrolysis of D-alanyl-D-alanine. <i>Molecular Microbiology</i> , 1994 , 13, 1065-70	4.1	179
147	A novel peptidoglycan cross-linking enzyme for a beta-lactam-resistant transpeptidation pathway. <i>Journal of Biological Chemistry</i> , 2005 , 280, 38146-52	5.4	152
146	Quantitative analysis of the metabolism of soluble cytoplasmic peptidoglycan precursors of glycopeptide-resistant enterococci. <i>Molecular Microbiology</i> , 1996 , 21, 33-44	4.1	150
145	The vanZ gene of Tn1546 from <i>Enterococcus faecium</i> BM4147 confers resistance to teicoplanin. <i>Gene</i> , 1995 , 154, 87-92	3.8	132
144	Sequence of the vanC gene of <i>Enterococcus gallinarum</i> BM4174 encoding a D-alanine:D-alanine ligase-related protein necessary for vancomycin resistance. <i>Gene</i> , 1992 , 112, 53-8	3.8	132
143	Evolution of peptidoglycan biosynthesis under the selective pressure of antibiotics in Gram-positive bacteria. <i>FEMS Microbiology Reviews</i> , 2008 , 32, 386-408	15.1	130
142	Identification of the L,D-transpeptidases responsible for attachment of the Braun lipoprotein to <i>Escherichia coli</i> peptidoglycan. <i>Journal of Bacteriology</i> , 2007 , 189, 3927-31	3.5	126
141	Origin and evolution of genes specifying resistance to macrolide, lincosamide and streptogramin antibiotics: data and hypotheses. <i>Journal of Antimicrobial Chemotherapy</i> , 1987 , 20, 783-802	5.1	123
140	Identification of the L,D-transpeptidases for peptidoglycan cross-linking in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2008 , 190, 4782-5	3.5	115
139	Novel mechanism of beta-lactam resistance due to bypass of DD-transpeptidation in <i>Enterococcus faecium</i> . <i>Journal of Biological Chemistry</i> , 2000 , 275, 16490-6	5.4	115
138	The VANA glycopeptide resistance protein is related to D-alanyl-D-alanine ligase cell wall biosynthesis enzymes. <i>Molecular Genetics and Genomics</i> , 1990 , 224, 364-72		108
137	Inactivation of <i>Mycobacterium tuberculosis</i> l,d-transpeptidase LdtMt1 by carbapenems and cephalosporins. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 4189-95	5.9	103

136	Unexpected inhibition of peptidoglycan LD-transpeptidase from <i>Enterococcus faecium</i> by the beta-lactam imipenem. <i>Journal of Biological Chemistry</i> , 2007 , 282, 30414-22	5.4	97
135	Crystal structure of a novel beta-lactam-insensitive peptidoglycan transpeptidase. <i>Journal of Molecular Biology</i> , 2006 , 359, 533-8	6.5	95
134	Regulation of VanA- and VanB-type glycopeptide resistance in enterococci. <i>Antimicrobial Agents and Chemotherapy</i> , 2001 , 45, 375-81	5.9	94
133	Covalent attachment of proteins to peptidoglycan. <i>FEMS Microbiology Reviews</i> , 2008 , 32, 307-20	15.1	93
132	In vitro cross-linking of <i>Mycobacterium tuberculosis</i> peptidoglycan by L,D-transpeptidases and inactivation of these enzymes by carbapenems. <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 5940-5	5.9	91
131	Requirement of the VanY and VanX D,D-peptidases for glycopeptide resistance in enterococci. <i>Molecular Microbiology</i> , 1998 , 30, 819-30	4.1	91
130	Factors essential for L,D-transpeptidase-mediated peptidoglycan cross-linking and β -lactam resistance in. <i>ELife</i> , 2016 , 5,	8.9	90
129	β -lactamase inhibition by avibactam in <i>Mycobacterium abscessus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 1051-8	5.1	88
128	Mechanisms of glycopeptide resistance in enterococci. <i>Journal of Infection</i> , 1996 , 32, 11-6	18.9	87
127	Role of class A penicillin-binding proteins in PBP5-mediated beta-lactam resistance in <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2004 , 186, 1221-8	3.5	82
126	Structural relationship between the vancomycin resistance protein VanH and 2-hydroxycarboxylic acid dehydrogenases. <i>Gene</i> , 1991 , 103, 133-4	3.8	82
125	Mutations leading to increased levels of resistance to glycopeptide antibiotics in VanB-type enterococci. <i>Molecular Microbiology</i> , 1997 , 25, 93-105	4.1	78
124	903. Resensitization to β -lactams in Enterococci Depends on Penicillin-Binding Protein (PBP) Mislocalization and Is Mediated by a Single Protein That Modulates Cell Membrane (CM) Adaptation to Daptomycin (DAP). <i>Open Forum Infectious Diseases</i> , 2019 , 6, S28-S29	1	78
123	The CroRS two-component regulatory system is required for intrinsic beta-lactam resistance in <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2003 , 185, 7184-92	3.5	77
122	Analysis of the nucleotide sequence of the ereB gene encoding the erythromycin esterase type II. <i>Nucleic Acids Research</i> , 1986 , 14, 4987-99	20.1	76
121	Rapid cytolysis of <i>Mycobacterium tuberculosis</i> by faropenem, an orally bioavailable β -lactam antibiotic. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 1308-19	5.9	75
120	The peptidoglycan of <i>Mycobacterium abscessus</i> is predominantly cross-linked by L,D-transpeptidases. <i>Journal of Bacteriology</i> , 2011 , 193, 778-82	3.5	74
119	Role of penicillin-binding protein 5 in expression of ampicillin resistance and peptidoglycan structure in <i>Enterococcus faecium</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2001 , 45, 2594-7	5.9	70

118	Aslfm, the D-aspartate ligase responsible for the addition of D-aspartic acid onto the peptidoglycan precursor of <i>Enterococcus faecium</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 11586-94	5.4	68
117	Specificity of L,D-transpeptidases from gram-positive bacteria producing different peptidoglycan chemotypes. <i>Journal of Biological Chemistry</i> , 2007 , 282, 13151-9	5.4	66
116	Synthesis of mosaic peptidoglycan cross-bridges by hybrid peptidoglycan assembly pathways in gram-positive bacteria. <i>Journal of Biological Chemistry</i> , 2004 , 279, 41546-56	5.4	66
115	Crystal structures of <i>Weissella viridescens</i> FemX and its complex with UDP-MurNAc-pentapeptide: insights into FemABX family substrates recognition. <i>Structure</i> , 2004 , 12, 257-67	5.2	65
114	Characterization and modelling of VanT: a novel, membrane-bound, serine racemase from vancomycin-resistant <i>Enterococcus gallinarum</i> BM4174. <i>Molecular Microbiology</i> , 1999 , 31, 1653-64	4.1	65
113	Functional analysis of AtlA, the major N-acetylglucosaminidase of <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 8513-9	3.5	64
112	Characterization of broad-spectrum <i>Mycobacterium abscessus</i> class A β -lactamase. <i>Journal of Antimicrobial Chemotherapy</i> , 2014 , 69, 691-6	5.1	63
111	Balance between two transpeptidation mechanisms determines the expression of beta-lactam resistance in <i>Enterococcus faecium</i> . <i>Journal of Biological Chemistry</i> , 2002 , 277, 35801-7	5.4	62
110	Moderate-level resistance to glycopeptide LY333328 mediated by genes of the <i>vanA</i> and <i>vanB</i> clusters in enterococci. <i>Antimicrobial Agents and Chemotherapy</i> , 1999 , 43, 1875-80	5.9	62
109	Synthesis of the L-alanyl-L-alanine cross-bridge of <i>Enterococcus faecalis</i> peptidoglycan. <i>Journal of Biological Chemistry</i> , 2002 , 277, 45935-41	5.4	61
108	Human- and plant-pathogenic <i>Pseudomonas</i> species produce bacteriocins exhibiting colicin M-like hydrolase activity towards peptidoglycan precursors. <i>Journal of Bacteriology</i> , 2009 , 191, 3657-64	3.5	55
107	Inhibition of the β -lactamase Bla by Avibactam Improves the and Efficacy of Imipenem against <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	54
106	Characterization of CrgA, a new partner of the <i>Mycobacterium tuberculosis</i> peptidoglycan polymerization complexes. <i>Journal of Bacteriology</i> , 2011 , 193, 3246-56	3.5	53
105	Role of N-acetylglucosaminidase and N-acetylmuramidase activities in <i>Enterococcus faecalis</i> peptidoglycan metabolism. <i>Journal of Biological Chemistry</i> , 2008 , 283, 19845-53	5.4	51
104	Impaired Inhibition by Avibactam and Resistance to the Ceftazidime-Avibactam Combination Due to the DY Substitution in the KPC-2 β -lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	50
103	Regulated interactions between partner and non-partner sensors and response regulators that control glycopeptide resistance gene expression in enterococci. <i>Microbiology (United Kingdom)</i> , 1999 , 145 (Pt 8), 1849-1858	2.9	50
102	Quantitative high-performance liquid chromatography analysis of the pool levels of undecaprenyl phosphate and its derivatives in bacterial membranes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 213-20	3.2	45
101	Sequence of the <i>vanY</i> gene required for production of a vancomycin-inducible D,D-carboxypeptidase in <i>Enterococcus faecium</i> BM4147. <i>Gene</i> , 1992 , 120, 111-4	3.8	44

100	Role of class A penicillin-binding proteins in the expression of beta-lactam resistance in <i>Enterococcus faecium</i> . <i>Journal of Bacteriology</i> , 2009 , 191, 3649-56	3.5	42
99	Synthesis of stable aminoacyl-tRNA analogues containing triazole as a bioisoster of esters. <i>Chemistry - A European Journal</i> , 2009 , 15, 1929-38	4.8	42
98	Inactivation kinetics of a new target of beta-lactam antibiotics. <i>Journal of Biological Chemistry</i> , 2011 , 286, 22777-84	5.4	42
97	Kinetic features of L,D-transpeptidase inactivation critical for β -lactam antibacterial activity. <i>PLoS ONE</i> , 2013 , 8, e67831	3.7	42
96	In vitro activity of cefoxitin and imipenem against <i>Mycobacterium abscessus</i> complex. <i>Clinical Microbiology and Infection</i> , 2014 , 20, O297-300	9.5	41
95	Bactericidal and intracellular activity of β -lactams against <i>Mycobacterium abscessus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2016 , 71, 1556-63	5.1	41
94	Idiosyncratic features in tRNAs participating in bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2007 , 35, 6870-83	20.1	40
93	Single-cell analysis of glycopeptide resistance gene expression in teicoplanin-resistant mutants of a VanB-type <i>Enterococcus faecalis</i> . <i>Molecular Microbiology</i> , 1999 , 32, 17-28	4.1	39
92	Copper inhibits peptidoglycan LD-transpeptidases suppressing β -lactam resistance due to bypass of penicillin-binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10786-10791	11.5	39
91	Atomic model of a cell-wall cross-linking enzyme in complex with an intact bacterial peptidoglycan. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17852-60	16.4	38
90	The beta-lactam-sensitive D,D-carboxypeptidase activity of Pbp4 controls the L,D and D,D transpeptidation pathways in <i>Corynebacterium jeikeium</i> . <i>Molecular Microbiology</i> , 2009 , 74, 650-61	4.1	36
89	Identification of the UDP-MurNAc-pentapeptide:L-alanine ligase for synthesis of branched peptidoglycan precursors in <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2001 , 183, 5122-7	3.5	36
88	Activation of the L,D-transpeptidation peptidoglycan cross-linking pathway by a metallo-D,D-carboxypeptidase in <i>Enterococcus faecium</i> . <i>Molecular Microbiology</i> , 2010 , 75, 874-85	4.1	35
87	Novel mechanism of resistance to glycopeptide antibiotics in <i>Enterococcus faecium</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 32254-62	5.4	32
86	Combinations of β -lactam Antibiotics Currently in Clinical Trials Are Efficacious in a DHP-I-Deficient Mouse Model of Tuberculosis Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 4997-9	5.9	31
85	Aminoacyl-tRNA recognition by the FemXWv transferase for bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2009 , 37, 1589-601	20.1	31
84	Diaminopimelic Acid Amidation in <i>Corynebacteriales</i> : NEW INSIGHTS INTO THE ROLE OF LtsA IN PEPTIDOGLYCAN MODIFICATION. <i>Journal of Biological Chemistry</i> , 2015 , 290, 13079-94	5.4	30
83	Structure of <i>Enterococcus faecium</i> L,D-transpeptidase acylated by ertapenem provides insight into the inactivation mechanism. <i>ACS Chemical Biology</i> , 2013 , 8, 1140-6	4.9	30

82	Structure-based site-directed mutagenesis of the UDP-MurNAc-pentapeptide-binding cavity of the FemX alanine transferase from <i>Weissella viridescens</i> . <i>Journal of Bacteriology</i> , 2005 , 187, 3833-8	3.5	30
81	Inhibition of β -lactamases of mycobacteria by avibactam and clavulanate. <i>Journal of Antimicrobial Chemotherapy</i> , 2017 , 72, 1081-1088	5.1	30
80	The structure of FemX(Wv) in complex with a peptidyl-RNA conjugate: mechanism of aminoacyl transfer from Ala-tRNA(Ala) to peptidoglycan precursors. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7278-81	16.4	29
79	Methicillin-Susceptible, Vancomycin-Resistant <i>Staphylococcus aureus</i> , Brazil. <i>Emerging Infectious Diseases</i> , 2015 , 21, 1844-8	10.2	28
78	and Intracellular Activity of Imipenem Combined with Tedizolid, Rifabutin, and Avibactam against. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	27
77	Impact of β -lactamase inhibition on the activity of ceftaroline against <i>Mycobacterium tuberculosis</i> and <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 2938-41	5.9	26
76	Specificity determinants for the two tRNA substrates of the cyclodipeptide synthase AlbC from <i>Streptomyces noursei</i> . <i>Nucleic Acids Research</i> , 2014 , 42, 7247-58	20.1	26
75	Dynamics induced by β -lactam antibiotics in the active site of <i>Bacillus subtilis</i> L,D-transpeptidase. <i>Structure</i> , 2012 , 20, 850-61	5.2	25
74	Two-step acquisition of resistance to the teicoplanin-gentamicin combination by VanB-type <i>Enterococcus faecalis</i> in vitro and in experimental endocarditis. <i>Antimicrobial Agents and Chemotherapy</i> , 1999 , 43, 476-82	5.9	25
73	and Intracellular Activity of Imipenem Combined with Rifabutin and Avibactam against <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	24
72	Decoding the logic of the tRNA regiospecificity of nonribosomal FemX(Wv) aminoacyl transferase. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5115-9	16.4	24
71	Stable analogues of aminoacyl-tRNA for inhibition of an essential step of bacterial cell-wall synthesis. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12642-3	16.4	24
70	Functional and structural characterization of PaeM, a colicin M-like bacteriocin produced by <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2012 , 287, 37395-405	5.4	23
69	The elucidation of the structure of <i>Thermotoga maritima</i> peptidoglycan reveals two novel types of cross-link. <i>Journal of Biological Chemistry</i> , 2009 , 284, 21856-21862	5.4	23
68	Synthesis of Avibactam Derivatives and Activity on β -lactamases and Peptidoglycan Biosynthesis Enzymes of Mycobacteria. <i>Chemistry - A European Journal</i> , 2018 , 24, 8081-8086	4.8	22
67	Peptidoglycan cross-linking in glycopeptide-resistant Actinomycetales. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 1749-56	5.9	22
66	Kinetic analysis of <i>Enterococcus faecium</i> L,D-transpeptidase inactivation by carbapenems. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 3409-12	5.9	22
65	In vitro activity of tedizolid against the <i>Mycobacterium abscessus</i> complex. <i>Diagnostic Microbiology and Infectious Disease</i> , 2018 , 90, 186-189	2.9	22

64	Hydrolysis of clavulanate by Mycobacterium tuberculosis β -lactamase BlaC harboring a canonical SDN motif. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 5714-20	5.9	21
63	Regulation of icosahedral virion capsid size by the in vivo activity of a cloned gene product. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 2428-32	11.5	21
62	Critical Impact of Peptidoglycan Precursor Amidation on the Activity of L,D-Transpeptidases from Enterococcus faecium and Mycobacterium tuberculosis. <i>Chemistry - A European Journal</i> , 2018 , 24, 5743-5747	4.8	20
61	Efficient access to peptidyl-RNA conjugates for picomolar inhibition of non-ribosomal FemX(Wv) aminoacyl transferase. <i>Chemistry - A European Journal</i> , 2013 , 19, 1357-63	4.8	19
60	Serine/threonine protein phosphatase-mediated control of the peptidoglycan cross-linking L,D-transpeptidase pathway in Enterococcus faecium. <i>MBio</i> , 2014 , 5, e01446-14	7.8	19
59	Fighting resistant tuberculosis with old compounds: the carbapenem paradigm. <i>Clinical Microbiology and Infection</i> , 2011 , 17, 1755-6	9.5	18
58	Inhibition by Avibactam and Clavulanate of the β -lactamases KPC-2 and CTX-M-15 Harboring the Substitution NG in the Conserved SDN Motif. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	17
57	Reversible inactivation of a peptidoglycan transpeptidase by a β -lactam antibiotic mediated by β -lactam-ring recyclization in the enzyme active site. <i>Scientific Reports</i> , 2017 , 7, 9136	4.9	16
56	Impact of peptidoglycan O-acetylation on autolytic activities of the Enterococcus faecalis N-acetylglucosaminidase AtlA and N-acetylmuramidase AtlB. <i>FEBS Letters</i> , 2009 , 583, 3033-8	3.8	16
55	Characterization of colicin M and its orthologs targeting bacterial cell wall peptidoglycan biosynthesis. <i>Microbial Drug Resistance</i> , 2012 , 18, 222-9	2.9	16
54	Routes of Synthesis of Carbapenems for Optimizing Both the Inactivation of L,D-Transpeptidase LdtMt1 of Mycobacterium tuberculosis and the Stability toward Hydrolysis by β -lactamase BlaC. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 3427-38	8.3	15
53	Involvement of the Eukaryote-Like Kinase-Phosphatase System and a Protein That Interacts with Penicillin-Binding Protein 5 in Emergence of Cephalosporin Resistance in Cephalosporin-Sensitive Class A Penicillin-Binding Protein Mutants in Enterococcus faecium. <i>MBio</i> , 2016 , 7, e02188-15	7.8	15
52	Colicin M hydrolyses branched lipids II from Gram-positive bacteria. <i>Biochimie</i> , 2012 , 94, 985-90	4.6	14
51	Discovery of the first inhibitors of bacterial enzyme D-aspartate ligase from Enterococcus faecium (AslFm). <i>European Journal of Medicinal Chemistry</i> , 2013 , 67, 208-20	6.8	13
50	Colicin M, a peptidoglycan lipid-II-degrading enzyme: potential use for antibacterial means?. <i>Biochemical Society Transactions</i> , 2012 , 40, 1522-7	5.1	13
49	Bactericidal activity of gentamicin against Enterococcus faecalis in vitro and in vivo. <i>Antimicrobial Agents and Chemotherapy</i> , 2000 , 44, 2077-80	5.9	13
48	Combination of Amino Acid Substitutions Leading to CTX-M-15-Mediated Resistance to the Ceftazidime-Avibactam Combination. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	13
47	The in vitro contribution of autolysins to bacterial killing elicited by amoxicillin increases with inoculum size in Enterococcus faecalis. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 910-2	5.9	12

46	Structural insight into YcbB-mediated beta-lactam resistance in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2019 , 10, 1849	17.4	11
45	Peptidoglycan Cross-Linking Activity of L,d-Transpeptidases from <i>Clostridium difficile</i> and Inactivation of These Enzymes by β -Lactams. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	11
44	Expression of glycopeptide-resistance gene in response to vancomycin and teicoplanin in the cardiac vegetations of rabbits infected with VanB-type <i>Enterococcus faecalis</i> . <i>Journal of Infectious Diseases</i> , 2004 , 189, 90-7	7	11
43	Contribution of the autolysin AtlA to the bactericidal activity of amoxicillin against <i>Enterococcus faecalis</i> JH2-2. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 1667-9	5.9	10
42	Recognition of Peptidoglycan Fragments by the Transpeptidase PBP4 From. <i>Frontiers in Microbiology</i> , 2018 , 9, 3223	5.7	10
41	Electrophilic RNA for Peptidyl-RNA Synthesis and Site-Specific Cross-Linking with tRNA-Binding Enzymes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13553-13557	16.4	9
40	Ceftazidime-Avibactam Resistance Mediated by the NY Substitution in Various AmpC β -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	7
39	Electrophilic RNA for Peptidyl-RNA Synthesis and Site-Specific Cross-Linking with tRNA-Binding Enzymes. <i>Angewandte Chemie</i> , 2016 , 128, 13751-13755	3.6	7
38	Decoding the Logic of the tRNA Regiospecificity of Nonribosomal FemXWv Aminoacyl Transferase. <i>Angewandte Chemie</i> , 2010 , 122, 5241-5245	3.6	7
37	Heterogeneity of genes conferring high-level resistance to erythromycin by inactivation in enterobacteria. <i>Annales De L'institut Pasteur Microbiologie</i> , 1986 , 137A, 125-34		7
36	Mutation landscape of acquired cross-resistance to glycopeptide and β -lactam antibiotics in <i>Enterococcus faecium</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 5306-15	5.9	6
35	Acyl acceptor recognition by <i>Enterococcus faecium</i> L,D-transpeptidase Ldtfm. <i>Molecular Microbiology</i> , 2015 , 98, 90-100	4.1	6
34	The Structure of FemXWv in Complex with a Peptidyl-RNA Conjugate: Mechanism of Aminoacyl Transfer from Ala-tRNA ^{Ala} to Peptidoglycan Precursors. <i>Angewandte Chemie</i> , 2013 , 125, 7419-7422	3.6	6
33	A phasmid shuttle vector for the cloning of complex operons in <i>Salmonella</i> . <i>Plasmid</i> , 1990 , 23, 42-58	3.3	6
32	Tryptophan Fluorescence Quenching in β -Lactam-Interacting Proteins Is Modulated by the Structure of Intermediates and Final Products of the Acylation Reaction. <i>ACS Infectious Diseases</i> , 2019 , 5, 1169-1176	5.5	5
31	Negative Impact of Carbapenem Methylation on the Reactivity of β -Lactams for Cysteine Acylation as Revealed by Quantum Calculations and Kinetic Analyses. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	5
30	Activity-Based Protein Profiling Reveals That Cephalosporins Selectively Active on Non-replicating Bind Multiple Protein Families and Spare Peptidoglycan Transpeptidases. <i>Frontiers in Microbiology</i> , 2020 , 11, 1248	5.7	5
29	Diazabicyclooctane Functionalization for Inhibition of β -Lactamases from Enterobacteria. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 5257-5273	8.3	5

28	Cleavage specificity of Enterococcus faecalis EnpA (EF1473), a peptidoglycan endopeptidase related to the LytM/lysostaphin family of metallopeptidases. <i>Journal of Molecular Biology</i> , 2010 , 398, 507-17	6.5	5
27	Unusual substrate specificity of the peptidoglycan MurE ligase from Erysipelothrix rhusiopathiae. <i>Biochimie</i> , 2016 , 121, 209-18	4.6	4
26	Synthesis of 3Sfluoro-tRNA analogues for exploring non-ribosomal peptide synthesis in bacteria. <i>ChemBioChem</i> , 2015 , 16, 477-86	3.8	4
25	Hybrid Potential Simulation of the Acylation of Enterococcus faecium L,D-Transpeptidase by Carbapenems. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 4767-81	3.4	4
24	Synthesis of Lipid-Carbohydrate-Peptidyl-RNA Conjugates to Explore the Limits Imposed by the Substrate Specificity of Cell Wall Enzymes on the Acquisition of Drug Resistance. <i>Chemistry - A European Journal</i> , 2018 , 24, 14911-14915	4.8	3
23	Synthesis and biological evaluation of non-isomerizable analogues of Ala-tRNA(Ala). <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 6161-9	3.9	3
22	Backbone and side-chain 1H, 15N and 13C assignment of apo- and imipenem-acylated L,D-transpeptidase from Bacillus subtilis. <i>Biomolecular NMR Assignments</i> , 2012 , 6, 205-8	0.7	3
21	Author response: Factors essential for L,D-transpeptidase-mediated peptidoglycan cross-linking and β -lactam resistance in Escherichia coli 2016 ,		3
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15	Crystallization and preliminary X-ray analysis of Weissella viridescens FemX UDP-MurNAc-pentapeptide:l-alanine ligase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1055-7		2
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2	L,d-Transpeptidase (<i>Enterococcus</i>) 2013 , 2465-2472		
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