Michel Arthur

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7663549/publications.pdf

Version: 2024-02-01

149 papers	8,944 citations	34105 52 h-index	49909 87 g-index
162 all docs	162 docs citations	162 times ranked	5075 citing authors

#	Article	IF	Citations
1	Molecular basis for vancomycin resistance in Enterococcus faecium BM4147: biosynthesis of a depsipeptide peptidoglycan precursor by vancomycin resistance proteins VanH and VanA. Biochemistry, 1991, 30, 10408-10415.	2.5	628
2	Glycopeptide resistance in enterococci. Trends in Microbiology, 1996, 4, 401-407.	7.7	387
3	The Peptidoglycan of Stationary-Phase Mycobacterium tuberculosis Predominantly Contains Cross-Links Generated by <scp>l,d</scp> -Transpeptidation. Journal of Bacteriology, 2008, 190, 4360-4366.	2.2	300
4	Identification of vancomycin resistance protein VanA as a D-alanine:D-alanine ligase of altered substrate specificity. Biochemistry, 1991, 30, 2017-2021.	2.5	242
5	The Mycobacterium tuberculosis protein LdtMt2 is a nonclassical transpeptidase required for virulence and resistance to amoxicillin. Nature Medicine, 2010, 16, 466-469.	30.7	242
6	Glycopeptide resistance mediated by enterococcal transposon Tn 1546 requires production of VanX for hydrolysis of D-alanyl-D-alanine. Molecular Microbiology, 1994, 13, 1065-1070.	2.5	210
7	A Novel Peptidoglycan Cross-linking Enzyme for a Î²-Lactam-resistant Transpeptidation Pathway. Journal of Biological Chemistry, 2005, 280, 38146-38152.	3.4	192
8	Quantitative analysis of the metabolism of soluble cytoplasmic peptidoglycan precursors of glycopeptideâ€resistant enterococci. Molecular Microbiology, 1996, 21, 33-44.	2.5	184
9	Sequence of the vanC gene of Enterococcus gallinarum BM4174 encoding a d-alanine:d-alanine ligase-related protein necessary for vancomycin resistance. Gene, 1992, 112, 53-58.	2.2	160
10	The vanZ gene of Tn1546 from enterococcus faecium BM4147 confers resistance to teicoplanin. Gene, 1995, 154, 87-92.	2.2	159
11	Evolution of peptidoglycan biosynthesis under the selective pressure of antibiotics in Gram-positive bacteria. FEMS Microbiology Reviews, 2008, 32, 386-408.	8.6	159
12	Identification of the l , d -Transpeptidases Responsible for Attachment of the Braun Lipoprotein to Escherichia coli Peptidoglycan. Journal of Bacteriology, 2007, 189, 3927-3931.	2.2	153
13	The VANA glycopeptide resistance protein is related to d-alanyl-d-alanine ligase cell wall biosynthesis enzymes. Molecular Genetics and Genomics, 1990, 224, 364-372.	2.4	147
14	Identification of the<scp>l,d</scp>-Transpeptidases for Peptidoglycan Cross-Linking inEscherichia coli. Journal of Bacteriology, 2008, 190, 4782-4785.	2.2	144
15	Origin and evolution of genes specifying resistance to macrolide, lincosamide and streptogramin antibiotics: data and hypotheses. Journal of Antimicrobial Chemotherapy, 1987, 20, 783-802.	3.0	137
16	Factors essential for L,D-transpeptidase-mediated peptidoglycan cross-linking and Î²-lactam resistance in Escherichia coli. ELife, 2016, 5, .	6.0	137
17	Novel Mechanism of Î²-Lactam Resistance Due to Bypass of DD-Transpeptidation in Enterococcus faecium. Journal of Biological Chemistry, 2000, 275, 16490-16496.	3.4	132
18	Inactivation of Mycobacterium tuberculosis <scp>l</scp> , <scp>d</scp> -Transpeptidase Ldt _{Mt1} by Carbapenems and Cephalosporins. Antimicrobial Agents and Chemotherapy, 2012, 56, 4189-4195.	3.2	131

#	Article	IF	Citations
19	Î²-Lactamase inhibition by avibactam in Mycobacterium abscessus. Journal of Antimicrobial Chemotherapy, 2015, 70, 1051-1058.	3.0	126
20	In Vitro Cross-Linking of Mycobacterium tuberculosis Peptidoglycan by <scp>l</scp> , <scp>d</scp> -Transpeptidases and Inactivation of These Enzymes by Carbapenems. Antimicrobial Agents and Chemotherapy, 2013, 57, 5940-5945.	3.2	124
21	Regulation of VanA- and VanB-Type Glycopeptide Resistance in Enterococci. Antimicrobial Agents and Chemotherapy, 2001, 45, 375-381.	3.2	115
22	Unexpected Inhibition of Peptidoglycan LD-Transpeptidase from Enterococcus faecium by the Î²-Lactam Imipenem. Journal of Biological Chemistry, 2007, 282, 30414-30422.	3.4	115
23	Covalent attachment of proteins to peptidoglycan. FEMS Microbiology Reviews, 2008, 32, 307-320.	8.6	114
24	Crystal Structure of a Novel Î²-Lactam-insensitive Peptidoglycan Transpeptidase. Journal of Molecular Biology, 2006, 359, 533-538.	4.2	110
25	Role of Class A Penicillin-Binding Proteins in PBP5-Mediated Î²-Lactam Resistance in Enterococcus faecalis. Journal of Bacteriology, 2004, 186, 1221-1228.	2.2	108
26	Requirement of the VanY and VanX D,D-peptidases for glycopeptide resistance in enterococci. Molecular Microbiology, 1998, 30, 819-830.	2.5	102
27	Mechanisms of glycopeptide resistance in enterococci. Journal of Infection, 1996, 32, 11-16.	3.3	101
28	Structural relationship between the vancomycin resistance protein VanH and 2-hydroxycarboxylic acid dehydrogenases. Gene, 1991, 103, 133-134.	2.2	97
29	Characterization of broad-spectrum Mycobacterium abscessus class A Â-lactamase. Journal of Antimicrobial Chemotherapy, 2014, 69, 691-696.	3.0	95
30	Mutations leading to increased levels of resistance to glycopeptide antibiotics in VanBâ€type enterococci. Molecular Microbiology, 1997, 25, 93-105.	2.5	93
31	Rapid Cytolysis of Mycobacterium tuberculosis by Faropenem, an Orally Bioavailable Î²-Lactam Antibiotic. Antimicrobial Agents and Chemotherapy, 2015, 59, 1308-1319.	3.2	92
32	The Peptidoglycan of Mycobacterium abscessus Is Predominantly Cross-Linked by <scp>l</scp> , <scp>d</scp> -Transpeptidases. Journal of Bacteriology, 2011, 193, 778-782.	2.2	91
33	The CroRS Two-Component Regulatory System Is Requiredfor Intrinsic Î²-Lactam Resistance in Enterococcusfaecalis. Journal of Bacteriology, 2003, 185, 7184-7192.	2.2	90
34	Functional Analysis of AtlA, the MajorN-Acetylglucosaminidase ofEnterococcus faecalis. Journal of Bacteriology, 2006, 188, 8513-8519.	2.2	90
35	Analysis of the nucleotide sequence of theereBgene encoding the erythromydn esterase type II. Nucleic Acids Research, 1986, 14, 4987-4999.	14.5	88
36	Aslfm, the D-Aspartate Ligase Responsible for the Addition of D-Aspartic Acid onto the Peptidoglycan Precursor of Enterococcus faecium. Journal of Biological Chemistry, 2006, 281, 11586-11594.	3.4	85

#	Article	IF	Citations
37	Role of Penicillin-Binding Protein 5 in Expression of Ampicillin Resistance and Peptidoglycan Structure in Enterococcus faecium. Antimicrobial Agents and Chemotherapy, 2001, 45, 2594-2597.	3.2	82
38	Balance between Two Transpeptidation Mechanisms Determines the Expression of Î²-Lactam Resistance in Enterococcus faecium. Journal of Biological Chemistry, 2002, 277, 35801-35807.	3.4	78
39	Specificity of L,D-Transpeptidases from Gram-positive Bacteria Producing Different Peptidoglycan Chemotypes. Journal of Biological Chemistry, 2007, 282, 13151-13159.	3.4	78
40	Impaired Inhibition by Avibactam and Resistance to the Ceftazidime-Avibactam Combination Due to the D ¹⁷⁹ Y Substitution in the KPC-2 Î²-Lactamase. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	76
41	Characterization and modelling of VanT: a novel, membrane-bound, serine racemase from vancomycin-resistant Enterococcus gallinarum BM4174. Molecular Microbiology, 1999, 31, 1653-1664.	2.5	75
42	Quantitative high-performance liquid chromatography analysis of the pool levels of undecaprenyl phosphate and its derivatives in bacterial membranes. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 213-220.	2.3	75
43	Moderate-Level Resistance to Glycopeptide LY333328 Mediated by Genes of the vanA and vanB Clusters in Enterococci. Antimicrobial Agents and Chemotherapy, 1999, 43, 1875-1880.	3.2	74
44	Synthesis of Mosaic Peptidoglycan Cross-bridges by Hybrid Peptidoglycan Assembly Pathways in Gram-positive Bacteria. Journal of Biological Chemistry, 2004, 279, 41546-41556.	3.4	74
45	Inhibition of the Î²-Lactamase Bla _{Mab} by Avibactam Improves the In Vitro and In Vivo Efficacy of Imipenem against Mycobacterium abscessus. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	73
46	Crystal Structures of Weissella viridescens FemX and Its Complex with UDP-MurNAc-Pentapeptide: Insights into FemABX Family Substrates Recognition. Structure, 2004, 12, 257-267.	3.3	71
47	Human- and Plant-Pathogenic Pseudomonas Species Produce Bacteriocins Exhibiting Colicin M-Like Hydrolase Activity towards Peptidoglycan Precursors. Journal of Bacteriology, 2009, 191, 3657-3664.	2.2	68
48	Synthesis of the l-Alanyl-l-alanine Cross-bridge of Enterococcus faecalis Peptidoglycan. Journal of Biological Chemistry, 2002, 277, 45935-45941.	3.4	66
49	Role of N-Acetylglucosaminidase and N-Acetylmuramidase Activities in Enterococcus faecalis Peptidoglycan Metabolism. Journal of Biological Chemistry, 2008, 283, 19845-19853.	3.4	66
50	Characterization of CrgA, a New Partner of the Mycobacterium tuberculosis Peptidoglycan Polymerization Complexes. Journal of Bacteriology, 2011, 193, 3246-3256.	2.2	61
51	In vitro activity of cefoxitin and imipenem against Mycobacterium abscessus complex. Clinical Microbiology and Infection, 2014, 20, O297-O300.	6.0	60
52	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
53	Sequence of the vanY gene required for production of a vancomycin-inducible D,D-carboxypeptidase in Enterococcus faecium BM4147. Gene, 1992, 120, 111-114.	2.2	58
54	Kinetic Features of L,D-Transpeptidase Inactivation Critical for Î²-Lactam Antibacterial Activity. PLoS ONE, 2013, 8, e67831.	2.5	56

#	Article	IF	Citations
55	Bactericidal and intracellular activity of Î²-lactams againstMycobacterium abscessus. Journal of Antimicrobial Chemotherapy, 2016, 71, 1556-1563.	3.0	55
56	Role of Class A Penicillin-Binding Proteins in the Expression of Î²-Lactam Resistance in Enterococcus faecium. Journal of Bacteriology, 2009, 191, 3649-3656.	2.2	54
57	Regulated interactions between partner and non-partner sensors and response regulators that control glycopeptide resistance gene expression in enterococci. Microbiology (United Kingdom), 1999, 145, 1849-1858.	1.8	52
58	Inactivation Kinetics of a New Target of Î²-Lactam Antibiotics. Journal of Biological Chemistry, 2011, 286, 22777-22784.	3.4	50
59	In Vitro and Intracellular Activity of Imipenem Combined with Tedizolid, Rifabutin, and Avibactam against Mycobacterium abscessus. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	48
60	Atomic Model of a Cell-Wall Cross-Linking Enzyme in Complex with an Intact Bacterial Peptidoglycan. Journal of the American Chemical Society, 2014, 136, 17852-17860.	13.7	47
61	Synthesis of Stable Aminoacylâ€tRNA Analogues Containing Triazole as a Bioisoster of Esters. Chemistry - A European Journal, 2009, 15, 1929-1938.	3.3	46
62	Critical Impact of Peptidoglycan Precursor Amidation on the Activity of <scp>l,d</scp>â€Transpeptidases from Enterococcus faecium and Mycobacterium tuberculosis. Chemistry - A European Journal, 2018, 24, 5743-5747.	3.3	44
63	Single-cell analysis of glycopeptide resistance gene expression in teicoplanin-resistant mutants of a VanB-type Enterococcus faecalis. Molecular Microbiology, 1999, 32, 17-28.	2.5	43
64	Idiosyncratic features in tRNAs participating in bacterial cell wall synthesis. Nucleic Acids Research, 2007, 35, 6870-6883.	14.5	42
65	Specificity determinants for the two tRNA substrates of the cyclodipeptide synthase AlbC from Streptomyces noursei. Nucleic Acids Research, 2014, 42, 7247-7258.	14.5	40
66	Identification of the UDP-MurNAc-Pentapeptide: l -Alanine Ligase for Synthesis of Branched Peptidoglycan Precursors in Enterococcus faecalis. Journal of Bacteriology, 2001, 183, 5122-5127.	2.2	39
67	Activation of the <scp>l</scp>,<scp>d</scp>â€transpeptidation peptidoglycan crossâ€linking pathway by a metalloâ€<scp>d</scp>,<scp>d</scp>â€carboxypeptidase in Enterococcus faecium. Molecular Microbiology, 2010, 75, 874-885.	2.5	39
68	Inhibition of Î²-lactamases of mycobacteria by avibactam and clavulanate. Journal of Antimicrobial Chemotherapy, 2017, 72, dkw546.	3.0	39
69	Methicillin-Susceptible, Vancomycin-ResistantStaphylococcus aureus, Brazil. Emerging Infectious Diseases, 2015, 21, 1844-1848.	4.3	38
70	The Î²â€lactamâ€sensitive <scp>d</scp>,<scp>d</scp>â€carboxypeptidase activity of Pbp4 controls the <scp>l</scp>,<scp>d</scp> and <scp>d</scp>,<scp>d</scp> transpeptidation pathways in Corynebacterium jeikeium. Molecular Microbiology, 2009, 74, 650-661.	2.5	37
71	Impact of Î²-Lactamase Inhibition on the Activity of Ceftaroline against Mycobacterium tuberculosis and Mycobacterium abscessus. Antimicrobial Agents and Chemotherapy, 2015, 59, 2938-2941.	3.2	37
72	Combinations of Î²-Lactam Antibiotics Currently in Clinical Trials Are Efficacious in a DHP-I-Deficient Mouse Model of Tuberculosis Infection. Antimicrobial Agents and Chemotherapy, 2015, 59, 4997-4999.	3.2	37

#	Article	IF	Citations
73	Novel Mechanism of Resistance to Glycopeptide Antibiotics in Enterococcus faecium. Journal of Biological Chemistry, 2006, 281, 32254-32262.	3.4	36
74	The Structure of FemX_{Wv} in Complex with a Peptidylâ€tRNA Conjugate: Mechanism of Aminoacyl Transfer from Alaâ€tRNA^{Ala} to Peptidoglycan Precursors. Angewandte Chemie - International Edition, 2013, 52, 7278-7281.	13.8	36
75	Structure of Enterococcus faecium<scp>l</scp>,<scp>d</scp>-Transpeptidase Acylated by Ertapenem Provides Insight into the Inactivation Mechanism. ACS Chemical Biology, 2013, 8, 1140-1146.	3.4	36
76	Diaminopimelic Acid Amidation in Corynebacteriales. Journal of Biological Chemistry, 2015, 290, 13079-13094.	3.4	36
77	Aminoacyl-tRNA recognition by the FemXWv transferase for bacterial cell wall synthesis. Nucleic Acids Research, 2009, 37, 1589-1601.	14.5	35
78	Structure-Based Site-Directed Mutagenesis of the UDP-MurNAc-Pentapeptide-Binding Cavity of the FemX Alanyl Transferase from Weissella viridescens. Journal of Bacteriology, 2005, 187, 3833-3838.	2.2	34
79	Functional and Structural Characterization of PaeM, a Colicin M-like Bacteriocin Produced by Pseudomonas aeruginosa. Journal of Biological Chemistry, 2012, 287, 37395-37405.	3.4	33
80	In vitro activity of tedizolid against the Mycobacterium abscessus complex. Diagnostic Microbiology and Infectious Disease, 2018, 90, 186-189.	1.8	33
81	Synthesis of Avibactam Derivatives and Activity on Î²â€Łactamases and Peptidoglycan Biosynthesis Enzymes of Mycobacteria. Chemistry - A European Journal, 2018, 24, 8081-8086.	3.3	30
82	Regulation of icosahedral virion capsid size by the in vivo activity of a cloned gene product.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 2428-2432.	7.1	29
83	Dynamics Induced by Î²-Lactam Antibiotics in the Active Site of Bacillus subtilis l,d-Transpeptidase. Structure, 2012, 20, 850-861.	3.3	29
84	Reversible inactivation of a peptidoglycan transpeptidase by a Î²-lactam antibiotic mediated by Î²-lactam-ring recyclization in the enzyme active site. Scientific Reports, 2017, 7, 9136.	3.3	29
85	Structural insight into YcbB-mediated beta-lactam resistance in Escherichia coli. Nature Communications, 2019, 10, 1849.	12.8	29
86	Stable Analogues of Aminoacyl-tRNA for Inhibition of an Essential Step of Bacterial Cell-Wall Synthesis. Journal of the American Chemical Society, 2007, 129, 12642-12643.	13.7	28
87	Hydrolysis of Clavulanate by Mycobacterium tuberculosis Î²-Lactamase BlaC Harboring a Canonical SDN Motif. Antimicrobial Agents and Chemotherapy, 2015, 59, 5714-5720.	3.2	28
88	In Vitro and Intracellular Activity of Imipenem Combined with Rifabutin and Avibactam against Mycobacterium abscessus. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	28
89	Two-Step Acquisition of Resistance to the Teicoplanin-Gentamicin Combination by VanB-Type Enterococcus faecalis In Vitro and in Experimental Endocarditis. Antimicrobial Agents and Chemotherapy, 1999, 43, 476-482.	3.2	27
90	The Elucidation of the Structure of Thermotoga maritima Peptidoglycan Reveals Two Novel Types of Cross-link. Journal of Biological Chemistry, 2009, 284, 21856-21862.	3.4	27

#	Article	IF	Citations
91	Decoding the Logic of the tRNA Regiospecificity of Nonribosomal FemX_{Wv} Aminoacyl Transferase. Angewandte Chemie - International Edition, 2010, 49, 5115-5119.	13.8	26
92	Kinetic Analysis of Enterococcus faecium <scp>l</scp> , <scp>d</scp> -Transpeptidase Inactivation by Carbapenems. Antimicrobial Agents and Chemotherapy, 2012, 56, 3409-3412.	3.2	25
93	Serine/Threonine Protein Phosphatase-Mediated Control of the Peptidoglycan Cross-Linking <scp>l</scp> , <scp>d</scp> <scp>-</scp> Transpeptidase Pathway in Enterococcus faecium. MBio, 2014, 5, e01446-14.	4.1	25
94	Routes of Synthesis of Carbapenems for Optimizing Both the Inactivation of <scp>l</scp>,<scp>d</scp>-Transpeptidase Ldt_{Mt1} of Mycobacterium tuberculosis and the Stability toward Hydrolysis by Î²-Lactamase BlaC. Journal of Medicinal Chemistry, 2016, 59, 3427-3438.	6.4	23
95	Peptidoglycan Cross-Linking Activity of <scp>l</scp> , <scp>d</scp> -Transpeptidases from Clostridium difficile and Inactivation of These Enzymes by Î²-Lactams. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	23
96	Recognition of Peptidoglycan Fragments by the Transpeptidase PBP4 From Staphylococcus aureus. Frontiers in Microbiology, 2018, 9, 3223.	3.5	23
97	Efficient Access to Peptidylâ€RNA Conjugates for Picomolar Inhibition of Nonâ€ribosomal FemX_{Wv} Aminoacyl Transferase. Chemistry - A European Journal, 2013, 19, 1357-1363.	3.3	22
98	Peptidoglycan Cross-Linking in Glycopeptide-Resistant Actinomycetales. Antimicrobial Agents and Chemotherapy, 2014, 58, 1749-1756.	3.2	22
99	Impact of peptidoglycan Oâ€acetylation on autolytic activities of the Enterococcus faecalis Nâ€acetylglucosaminidase AtlA and Nâ€acetylmuramidase AtlB. FEBS Letters, 2009, 583, 3033-3038.	2.8	21
100	Inhibition by Avibactam and Clavulanate of the Î²-Lactamases KPC-2 and CTX-M-15 Harboring the Substitution N ¹³² G in the Conserved SDN Motif. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	21
101	Combination of Amino Acid Substitutions Leading to CTX-M-15-Mediated Resistance to the Ceftazidime-Avibactam Combination. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	21
102	Fighting resistant tuberculosis with old compounds: the carbapenem paradigm. Clinical Microbiology and Infection, 2011, 17, 1755-1756.	6.0	20
103	Discovery of the first inhibitors of bacterial enzyme d-aspartate ligase from Enterococcus faecium (Aslfm). European Journal of Medicinal Chemistry, 2013, 67, 208-220.	5.5	19
104	Bactericidal Activity of Gentamicin against Enterococcus faecalis In Vitro and In Vivo. Antimicrobial Agents and Chemotherapy, 2000, 44, 2077-2080.	3.2	17
105	Colicin M, a peptidoglycan lipid-II-degrading enzyme: potential use for antibacterial means?. Biochemical Society Transactions, 2012, 40, 1522-1527.	3.4	17
106	Characterization of Colicin M and its Orthologs Targeting Bacterial Cell Wall Peptidoglycan Biosynthesis. Microbial Drug Resistance, 2012, 18, 222-229.	2.0	17
107	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. MBio, 2016, 7, e02188-15.	4.1	17
108	Diazabicyclooctane Functionalization for Inhibition of Î²-Lactamases from Enterobacteria. Journal of Medicinal Chemistry, 2020, 63, 5257-5273.	6.4	17

#	Article	IF	Citations
109	Ceftazidime-Avibactam Resistance Mediated by the N ³⁴⁶ Y Substitution in Various AmpC Î²-Lactamases. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	17
110	The In Vitro Contribution of Autolysins to Bacterial Killing Elicited by Amoxicillin Increases with Inoculum Size in Enterococcus faecalis. Antimicrobial Agents and Chemotherapy, 2011, 55, 910-912.	3.2	15
111	Colicin M hydrolyses branched lipids II from Gram-positive bacteria. Biochimie, 2012, 94, 985-990.	2.6	15
112	Expression of Glycopeptideâ€Resistance Gene in Response to Vancomycin and Teicoplanin in the Cardiac Vegetations of Rabbits Infected with VanBâ€TypeEnterococcus faecalis. Journal of Infectious Diseases, 2004, 189, 90-97.	4.0	13
113	Role of endopeptidases in peptidoglycan synthesis mediated by alternative crossâ€linking enzymes in Escherichia coli. EMBO Journal, 2021, 40, e108126.	7.8	13
114	Electrophilic RNA for Peptidylâ€RNA Synthesis and Siteâ€Specific Crossâ€Linking with tRNAâ€Binding Enzymes. Angewandte Chemie - International Edition, 2016, 55, 13553-13557.	13.8	11
115	Activity-Based Protein Profiling Reveals That Cephalosporins Selectively Active on Non-replicating Mycobacterium tuberculosis Bind Multiple Protein Families and Spare Peptidoglycan Transpeptidases. Frontiers in Microbiology, 2020, 11, 1248.	3.5	11
116	Heterogeneity of genes conferring high-level resistance to erythromycin by inactivation in enterobacteria. Annales De L'Institut Pasteur Microbiologie, 1986, 137, 125-134.	0.6	10
117	Contribution of the Autolysin AtlA to the Bactericidal Activity of Amoxicillin against Enterococcus faecalis JH2-2. Antimicrobial Agents and Chemotherapy, 2009, 53, 1667-1669.	3.2	10
118	Vancomycin sensing. Nature Chemical Biology, 2010, 6, 313-315.	8.0	10
119	Cleavage Specificity of Enterococcus faecalis EnpA (EF1473), a Peptidoglycan Endopeptidase Related to the LytM/Lysostaphin Family of Metallopeptidases. Journal of Molecular Biology, 2010, 398, 507-517.	4.2	10
120	Tryptophan Fluorescence Quenching in Î²-Lactam-Interacting Proteins Is Modulated by the Structure of Intermediates and Final Products of the Acylation Reaction. ACS Infectious Diseases, 2019, 5, 1169-1176.	3.8	9
121	Electrophilic RNA for Peptidylâ€RNA Synthesis and Siteâ€Specific Crossâ€Linking with tRNAâ€Binding Enzymes. Angewandte Chemie, 2016, 128, 13751-13755.	2.0	8
122	A phasmid shuttle vector for the cloning of complex operons in Salmonella. Plasmid, 1990, 23, 42-58.	1.4	7
123	Mutation Landscape of Acquired Cross-Resistance to Glycopeptide and Î²-Lactam Antibiotics in Enterococcus faecium. Antimicrobial Agents and Chemotherapy, 2015, 59, 5306-5315.	3.2	7
124	Acyl acceptor recognition by <scp>E</scp>nterococcus faecium<scp>l</scp>,<scp>d</scp>â€transpeptidase <scp>L</scp>dt_{fm}. Molecular Microbiology, 2015, 98, 90-100.	2.5	6
125	Synthesis of Carbapenems Containing Peptidoglycan Mimetics and Inhibition of the Crossâ€Linking Activity of a Transpeptidase of l,d Specificity. Chemistry - A European Journal, 2021, 27, 3542-3551.	3.3	6
126	Phosphine-Mediated Bioconjugation of the 3â€²-End of RNA. Organic Letters, 2020, 22, 8034-8038.	4.6	6

#	Article	IF	Citations
127	Partition of tRNAGly isoacceptors between protein and cell-wall peptidoglycan synthesis in Staphylococcus aureus. Nucleic Acids Research, 2021, 49, 684-699.	14.5	6
128	Synthesis of 3â€²â€Fluoroâ€tRNA Analogues for Exploring Nonâ€ribosomal Peptide Synthesis in Bacteria. ChemBioChem, 2015, 16, 477-486.	2.6	5
129	Hybrid Potential Simulation of the Acylation of Enterococcus faecium <scp>l</scp>,<scp>d</scp>-Transpeptidase by Carbapenems. Journal of Physical Chemistry B, 2016, 120, 4767-4781.	2.6	5
130	Unusual substrate specificity of the peptidoglycan MurE ligase from Erysipelothrix rhusiopathiae. Biochimie, 2016, 121, 209-218.	2.6	5
131	Synthesis of Lipidâ€Carbohydrateâ€Peptidylâ€RNA Conjugates to Explore the Limits Imposed by the Substrate Specificity of Cell Wall Enzymes on the Acquisition of Drug Resistance. Chemistry - A European Journal, 2018, 24, 14911-14915.	3.3	5
132	Negative Impact of Carbapenem Methylation on the Reactivity of Î²-Lactams for Cysteine Acylation as Revealed by Quantum Calculations and Kinetic Analyses. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	5
133	Heavy isotope labeling and mass spectrometry reveal unexpected remodeling of bacterial cell wall expansion in response to drugs. ELife, 0, 11, .	6.0	5
134	Synthesis and biological evaluation of non-isomerizable analogues of Ala-tRNAAla. Organic and Biomolecular Chemistry, 2013, 11, 6161.	2.8	4
135	Synthesis of tRNA analogues containing a terminal ribose locked in the South conformation to study tRNA-dependent enzymes. Organic and Biomolecular Chemistry, 2018, 16, 1903-1911.	2.8	4
136	Inhibition Activity of Avibactam against Nocardia farcinica Î²-Lactamase FAR _{IFM10152}. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	4
137	Traceless Staudinger Ligation for Bioconjugation of RNA. Current Protocols, 2021, 1, e42.	2.9	4
138	Backbone and side-chain 1H, 15N and 13C assignment of apo- and imipenem-acylated l,d-transpeptidase from Bacillus subtilis. Biomolecular NMR Assignments, 2012, 6, 205-208.	0.8	3
139	Regulation of Bacterial Peptidoglycan Polymerization. Trends in Microbiology, 2016, 24, 519-521.	7.7	3
140	Impact of relebactam-mediated inhibition of Mycobacterium abscessus BlaMab Î²-lactamase on the in vitro and intracellular efficacy of imipenem. Journal of Antimicrobial Chemotherapy, 2020, 75, 379-383.	3.0	3
141	Click and Release Chemistry for Activityâ€Based Purification of Î²â€Lactam Targets. Chemistry - A European Journal, 2021, 27, 7687-7695.	3.3	3
142	Crystallization and preliminary X-ray analysis ofWeissella viridescensFemX UDP-MurNAc-pentapeptide:L-alanine ligase. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1055-1057.	2.5	2
143	Synthesis of Stable Aminoacyl-tRNA Analogs. , 2011, Chapter 4, 4.44.1-4.44.33.		2
144	Chemical shift perturbations induced by the acylation of Enterococcus faecium l,d-transpeptidase catalytic cysteine with ertapenem. Biomolecular NMR Assignments, 2014, 8, 339-343.	0.8	2

#	Article	IF	Citations
145	Regulation of Glycopeptide Resistance Genes of Enterococcal Transposon Tn1546 by the VanR-VanS Two-Component Regulatory System. , 0, , 387-391.		2
146	Traceless Staudinger Ligation To Introduce Chemical Diversity on Î²-Lactamase Inhibitors of Second Generation. Organic Letters, 2021, 23, 7755-7758.	4.6	2
147	Synthesis of 3â€²-triazoyl-dinucleotides as precursors of stable Phe-tRNAPhe and Leu-tRNALeu analogues. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3231-3233.	2.2	1
148	l,d-Transpeptidase (Enterococcus). , 2013, , 2465-2472.		0
149	903. Resensitization to Î²-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). Open Forum Infectious Diseases, 2019, 6, S28-S29.	0.9	0