

Matthieu Fonvielle

List of Publications by Citations

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39
papers

596
citations

15
h-index

23
g-index

42
ext. papers

743
ext. citations

8.3
avg, IF

3.1
L-index

#	Paper	IF	Citations
39	Cyclodipeptide synthases, a family of class-I aminoacyl-tRNA synthetase-like enzymes involved in non-ribosomal peptide synthesis. <i>Nucleic Acids Research</i> , 2011 , 39, 4475-89	20.1	60
38	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
37	Idiosyncratic features in tRNAs participating in bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2007 , 35, 6870-83	20.1	40
36	Substrate and reaction specificity of Mycobacterium tuberculosis cytochrome P450 CYP121: insights from biochemical studies and crystal structures. <i>Journal of Biological Chemistry</i> , 2013 , 288, 17347-59	5.4	37
35	Nonribosomal peptide synthesis in animals: the cyclodipeptide synthase of Nematostella. <i>Chemistry and Biology</i> , 2011 , 18, 1362-8		35
34	Aminoacyl-tRNA recognition by the FemXWv transferase for bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2009 , 37, 1589-601	20.1	31
33	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
32	Specificity determinants for the two tRNA substrates of the cyclodipeptide synthase AlbC from Streptomyces noursei. <i>Nucleic Acids Research</i> , 2014 , 42, 7247-58	20.1	26
31	Rational design, synthesis, and evaluation of new selective inhibitors of microbial class II (zinc dependent) fructose bis-phosphate aldolases. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 7836-42	8.3	25
30	Synthesis and biochemical evaluation of selective inhibitors of class II fructose bisphosphate aldolases: towards new synthetic antibiotics. <i>Chemistry - A European Journal</i> , 2008 , 14, 8521-9	4.8	25
29	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
28	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
27	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
26	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
25	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
24	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
23	New highly selective inhibitors of class II fructose-1,6-bisphosphate aldolases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 2923-6	2.9	15

22	New inhibitors of rabbit muscle triose-phosphate isomerase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2906-9	2.9	13
21	New facile synthesis of phosphoglycolohydroxamic acid and other phosphoglycolic acid derivatives. <i>Tetrahedron Letters</i> , 2003 , 44, 9047-9049	2	12
20	Structural insight into YcbB-mediated beta-lactam resistance in Escherichia coli. <i>Nature Communications</i> , 2019 , 10, 1849	17.4	11
19	Recognition of Peptidoglycan Fragments by the Transpeptidase PBP4 From. <i>Frontiers in Microbiology</i> , 2018 , 9, 3223	5.7	10
18	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
17	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
16	Decoding the Logic of the tRNA Regiospecificity of Nonribosomal FemXWv Aminoacyl Transferase. <i>Angewandte Chemie</i> , 2010 , 122, 5241-5245	3.6	7
15	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
14	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
13	Diazabicyclooctane Functionalization for Inhibition of β -Lactamases from Enterobacteria. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 5257-5273	8.3	5
12	Synthesis of 3 ^W Fluoro-tRNA analogues for exploring non-ribosomal peptide synthesis in bacteria. <i>ChemBioChem</i> , 2015 , 16, 477-86	3.8	4
11	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
10	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
9	Synthesis of tRNA analogues containing a terminal ribose locked in the South conformation to study tRNA-dependent enzymes. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 1903-1911	3.9	2
8	New competitive inhibitors of cytosolic (NADH-dependent) rabbit muscle glycerophosphate dehydrogenase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 410-3	2.9	2
7	Phosphine-Mediated Bioconjugation of the 3 ^W End of RNA. <i>Organic Letters</i> , 2020 , 22, 8034-8038	6.2	2
6	Traceless Staudinger Ligation for Bioconjugation of RNA. <i>Current Protocols</i> , 2021 , 1, e42		2
5	Synthesis of stable aminoacyl-tRNA analogs. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2011 , Chapter 4, Unit 4.44	0.5	1

4	Synthesis of Carbapenems Containing Peptidoglycan Mimetics and Inhibition of the Cross-Linking Activity of a Transpeptidase of l,d Specificity. <i>Chemistry - A European Journal</i> , 2021 , 27, 3542-3551	4.8	1
3	Partition of tRNAGly isoacceptors between protein and cell-wall peptidoglycan synthesis in <i>Staphylococcus aureus</i> . <i>Nucleic Acids Research</i> , 2021 , 49, 684-699	20.1	0
2	Click and Release Chemistry for Activity-Based Purification of β -Lactam Targets. <i>Chemistry - A European Journal</i> , 2021 , 27, 7687-7695	4.8	0
1	Synthesis of 3'-Triazolyl-dinucleotides as precursors of stable Phe-tRNA(Phe) and Leu-tRNA(Leu) analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 3231-3	2.9	