

Matthieu Fonvielle

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6230348/matthieu-fonvielle-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Partition of tRNA ^{Gly} 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
38	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
37	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
36	Traceless Staudinger Ligation for Bioconjugation of RNA. <i>Current Protocols</i> , 2021 , 1, e42		2
35	Diazabicyclooctane Functionalization for Inhibition of β -Lactamases from Enterobacteria. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 5257-5273	8.3	5
34	Phosphine-Mediated Bioconjugation of the 3' End of RNA. <i>Organic Letters</i> , 2020 , 22, 8034-8038	6.2	2
33	Structural insight into YcbB-mediated beta-lactam resistance in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2019 , 10, 1849	17.4	11
32	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
31	Synthesis of Avibactam Derivatives and Activity on β -Lactamases and Peptidoglycan Biosynthesis Enzymes of <i>Mycobacteria</i> . <i>Chemistry - A European Journal</i> , 2018 , 24, 8081-8086	4.8	22
30	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
29	Critical Impact of Peptidoglycan Precursor Amidation on the Activity of L,d-Transpeptidases from <i>Enterococcus faecium</i> and <i>Mycobacterium tuberculosis</i> . <i>Chemistry - A European Journal</i> , 2018 , 24, 5743-5747	4.8	20
28	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
27	Recognition of Peptidoglycan Fragments by the Transpeptidase PBP4 From. <i>Frontiers in Microbiology</i> , 2018 , 9, 3223	5.7	10
26	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
25	Routes of Synthesis of Carbapenems for Optimizing Both the Inactivation of L,D-Transpeptidase LdtMt1 of <i>Mycobacterium tuberculosis</i> and the Stability toward Hydrolysis by β -Lactamase BlaC. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 3427-38	8.3	15
24	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
23	Synthesis of 3 ^H fluoro-tRNA analogues for exploring non-ribosomal peptide synthesis in bacteria. <i>ChemBioChem</i> , 2015 , 16, 477-86	3.8	4

22	Synthesis of 3'-triazoyl-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	
21	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
20	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
19	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
18	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
17	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
16	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</i> , 2013 , 125, 7419-7422	3.6	6
15	Nonribosomal peptide synthesis in animals: the cyclodipeptide synthase of <i>Nematostella</i> . <i>Chemistry and Biology</i> , 2011 , 18, 1362-8		35
14	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
13	Synthesis of stable aminoacyl-tRNA analogs. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2011 , Chapter 4, Unit 4.44	0.5	1
12	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
11	Decoding the Logic of the tRNA Regiospecificity of Nonribosomal FemX(Wv) Aminoacyl Transferase. <i>Angewandte Chemie</i> , 2010 , 122, 5241-5245	3.6	7
10	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
9	Aminoacyl-tRNA recognition by the FemX(Wv) transferase for bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2009 , 37, 1589-601	20.1	31
8	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
7	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
6	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
5	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

4	Idiosyncratic features in tRNAs participating in bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2007 , 35, 6870-83	20.1	40
3	New inhibitors of rabbit muscle triose-phosphate isomerase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2906-9	2.9	13
2	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
1	New facile synthesis of phosphoglycolohydroxamic acid and other phosphoglycolic acid derivatives. <i>Tetrahedron Letters</i> , 2003 , 44, 9047-9049	2	12