

# Yuchen Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7584425/publications.pdf>

Version: 2024-02-01

30  
papers

1,942  
citations

471509

17  
h-index

610901

24  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2943  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Metabolic, Phylogenetic, and Ecological Diversity of the Methanogenic Archaea</i>. Annals of the New York Academy of Sciences, 2008, 1125, 171-189.	3.8	998
2	Methanogens: a window into ancient sulfur metabolism. Trends in Microbiology, 2012, 20, 251-258.	7.7	93
3	Sulfur metabolism in archaea reveals novel processes. Environmental Microbiology, 2012, 14, 2632-2644.	3.8	92
4	Cysteine Is Not the Sulfur Source for Iron-Sulfur Cluster and Methionine Biosynthesis in the Methanogenic Archaeon Methanococcus maripaludis. Journal of Biological Chemistry, 2010, 285, 31923-31929.	3.4	80
5	A [3Fe-4S] cluster is required for tRNA thiolation in archaea and eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12703-12708.	7.1	63
6	Global Responses of <i>Methanococcus maripaludis</i> to Specific Nutrient Limitations and Growth Rate. Journal of Bacteriology, 2008, 190, 2198-2205.	2.2	58
7	Selenoprotein biosynthesis defect causes progressive encephalopathy with elevated lactate. Neurology, 2015, 85, 306-315.	1.1	52
8	Biosynthesis of Sulfur-Containing tRNA Modifications: A Comparison of Bacterial, Archaeal, and Eukaryotic Pathways. Biomolecules, 2017, 7, 27.	4.0	51
9	Engineering the elongation factor Tu for efficient selenoprotein synthesis. Nucleic Acids Research, 2014, 42, 9976-9983.	14.5	49
10	Biosynthesis of 4-Thiouridine in tRNA in the Methanogenic Archaeon Methanococcus maripaludis*. Journal of Biological Chemistry, 2012, 287, 36683-36692.	3.4	48
11	Characterization of Energy-Conserving Hydrogenase B in <i>Methanococcus maripaludis</i>. Journal of Bacteriology, 2010, 192, 4022-4030.	2.2	42
12	Identification and codon reading properties of 5-cyanomethyl uridine, a new modified nucleoside found in the anticodon wobble position of mutant haloarchaeal isoleucine tRNAs. Rna, 2014, 20, 177-188.	3.5	35
13	Williamwhitmania taraxaci gen. nov., sp. nov., a proteolytic anaerobe with a novel type of cytology from Lake Untersee in Antarctica, description of Williamwhitmaniaceae fam. nov., and emendation of the order Bacteroidales Krieg 2012. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 4132-4145.	1.7	32
14	Expanded Cellular Amino Acid Pools Containing Phosphoserine, Phosphothreonine, and Phosphotyrosine. ACS Chemical Biology, 2014, 9, 1104-1112.	3.4	31
15	Methanococci Use the Diaminopimelate Aminotransferase (DapL) Pathway for Lysine Biosynthesis. Journal of Bacteriology, 2010, 192, 3304-3310.	2.2	28
16	Raineyella antarctica gen. nov., sp. nov., a psychrotolerant, d-amino-acid-utilizing anaerobe isolated from two geographic locations of the Southern Hemisphere. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 5529-5536.	1.7	26
17	The Sac10b Homolog in <i>Methanococcus maripaludis</i> Binds DNA at Specific Sites. Journal of Bacteriology, 2009, 191, 2315-2329.	2.2	24
18	Direct Interspecies Electron Transfer Between Archaea and Bacteria. , 2017, , 27-40.		21

#	ARTICLE	IF	CITATIONS
19	Sanguibacter gelidistatuariae sp. nov., a novel psychrotolerant anaerobe from an ice sculpture in Antarctica, and emendation of descriptions of the family Sanguibacteraceae, the genus Sanguibacter and species S. antarcticus, S. inulinus, S. kedieii, S. marinus, S. soli and S. suarezii. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1442-1450.	1.7	21
20	Taxonomy of Methanogens. , 2010, , 547-558.		18
21	Ancient translation factor is essential for tRNA-dependent cysteine biosynthesis in methanogenic archaea. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10520-10525.	7.1	17
22	Catalytic Mechanism of Sep-tRNA:Cys-tRNA Synthase. Journal of Biological Chemistry, 2012, 287, 5426-5433.	3.4	16
23	The putative tRNA 2-thiouridine synthetase Ncs6 is an essential sulfur carrier in Methanococcus maripaludis. FEBS Letters, 2014, 588, 873-877.	2.8	16
24	Tuning Gene Expression by Phosphate in the Methanogenic Archaeon Methanococcus maripaludis. ACS Synthetic Biology, 2021, 10, 3028-3039.	3.8	12
25	Structural basis for tRNA-dependent cysteine biosynthesis. Nature Communications, 2017, 8, 1521.	12.8	6
26	Diversity and Taxonomy of Methanogens. , 2018, , 1-59.		5
27	The Nbp35/ApbC homolog acts as a nonessential [4Fe-4S] transfer protein in methanogenic archaea. FEBS Letters, 2020, 594, 924-932.	2.8	4
28	Diversity and Taxonomy of Methanogens. , 2018, , 1-59.		2
29	Diversity and Taxonomy of Methanogens. , 2019, , 19-77.		2
30	Study of Fe-S Cluster Proteins in Methanococcus maripaludis, a Model Archaeal Organism. Methods in Molecular Biology, 2021, 2353, 37-50.	0.9	0