

# Chenguang Fan

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,849  
citations

304368

22  
h-index

344852

36  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1654  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of translation machinery in recoded bacteria enables multi-site incorporation of nonstandard amino acids. <i>Nature Biotechnology</i> , 2015, 33, 1272-1279.	9.4	234
2	Short N-terminal sequences package proteins into bacterial microcompartments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7509-7514.	3.3	214
3	Continuous directed evolution of aminoacyl-tRNA synthetases. <i>Nature Chemical Biology</i> , 2017, 13, 1253-1260.	3.9	185
4	Interactions between the termini of lumen enzymes and shell proteins mediate enzyme encapsulation into bacterial microcompartments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14995-15000.	3.3	127
5	The N-Terminal Region of the Medium Subunit (PduD) Packages Adenosylcobalamin-Dependent Diol Dehydratase (PduCDE) into the Pdu Microcompartment. <i>Journal of Bacteriology</i> , 2011, 193, 5623-5628.	1.0	98
6	Genetic Analysis of the Protein Shell of the Microcompartments Involved in Coenzyme B <sub>12</sub> -Dependent 1,2-Propanediol Degradation by <i>Salmonella</i> . <i>Journal of Bacteriology</i> , 2011, 193, 1385-1392.	1.0	93
7	Rationally evolving tRNA <sup>Pyl</sup> for efficient incorporation of noncanonical amino acids. <i>Nucleic Acids Research</i> , 2015, 43, e156-e156.	6.5	86
8	The PduQ Enzyme Is an Alcohol Dehydrogenase Used to Recycle NAD <sup>+</sup> Internally within the Pdu Microcompartment of <i>Salmonella enterica</i> . <i>PLoS ONE</i> , 2012, 7, e47144.	1.1	81
9	Studying the Lysine Acetylation of Malate Dehydrogenase. <i>Journal of Molecular Biology</i> , 2017, 429, 1396-1405.	2.0	80
10	Genetically Incorporating Two Distinct Post-translational Modifications into One Protein Simultaneously. <i>ACS Synthetic Biology</i> , 2018, 7, 689-695.	1.9	70
11	The PduM Protein Is a Structural Component of the Microcompartments Involved in Coenzyme B <sub>12</sub> -Dependent 1,2-Propanediol Degradation by <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , 2012, 194, 1912-1918.	1.0	64
12	Expanding the genetic code of <i>Escherichia coli</i> with phosphotyrosine. <i>FEBS Letters</i> , 2016, 590, 3040-3047.	1.3	60
13	The PduX Enzyme of <i>Salmonella enterica</i> Is an L-Threonine Kinase Used for Coenzyme B <sub>12</sub> Synthesis. <i>Journal of Biological Chemistry</i> , 2008, 283, 11322-11329.	1.6	52
14	Catalytic Activity, Stability, and Loading Trends of Alcohol Dehydrogenase Enzyme Encapsulated in a Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26084-26094.	4.0	37
15	Exploring the Substrate Range of Wild-type Aminoacyl-tRNA Synthetases. <i>ChemBioChem</i> , 2014, 15, 1805-1809.	1.3	34
16	Recent Development of Genetic Code Expansion for Posttranslational Modification Studies. <i>Molecules</i> , 2018, 23, 1662.	1.7	33
17	Characterizing Lysine Acetylation of Isocitrate Dehydrogenase in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2018, 430, 1901-1911.	2.0	33
18	Expanding the genetic code of <i>Salmonella</i> with non-canonical amino acids. <i>Scientific Reports</i> , 2016, 6, 39920.	1.6	31

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19	Kinetic and Functional Analysis of L-Threonine Kinase, the PduX Enzyme of Salmonella enterica. Journal of Biological Chemistry, 2009, 284, 20240-20248.	1.6	26
20	Increasing the fidelity of noncanonical amino acid incorporation in cell-free protein synthesis. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3047-3052.	1.1	24
21	Dual Genetic Encoding of Acetyl-Lysine and Non-Deacetylable Thioacetyl-Lysine Mediated by Flexizyme. Angewandte Chemie - International Edition, 2016, 55, 4083-4086.	7.2	23
22	Genetically encoding thioacetyl-Lysine as a non-deacetylable analog of lysine acetylation in <i>Escherichia coli</i> . FEBS Open Bio, 2017, 7, 1805-1814.	1.0	23
23	Characterizing lysine acetylation of <i>Escherichia coli</i> type <i>scpII</i> citrate synthase. FEBS Journal, 2019, 286, 2799-2808.	2.2	22
24	Biochemical Characterization of the Lysine Acetylation of Tyrosyl-tRNA Synthetase in <i>Escherichia coli</i> . ChemBioChem, 2017, 18, 1928-1934.	1.3	21
25	Methyl-Coenzyme M Reductase and Its Post-translational Modifications. Frontiers in Microbiology, 2020, 11, 578356.	1.5	18
26	The Application of Cell-Free Protein Synthesis in Genetic Code Expansion for Post-translational Modifications. Frontiers in Pharmacology, 2019, 10, 248.	1.6	16
27	Functional Characterization and Mutation Analysis of Human ATP:Cob(I)alamin Adenosyltransferase. Biochemistry, 2008, 47, 2806-2813.	1.2	13
28	Genome-Wide Quantification of the Effect of Gene Overexpression on Escherichia coli Growth. Genes, 2018, 9, 414.	1.0	13
29	Genome-Wide Screening of Oxidizing Agent Resistance Genes in Escherichia coli. Antioxidants, 2021, 10, 861.	2.2	11
30	A Facile Protocol to Generate Site-Specifically Acetylated Proteins in <i>Escherichia Coli</i> . Journal of Visualized Experiments, 2017, , .	0.2	8
31	Site-Specifically Studying Lysine Acetylation of Aminoacyl-tRNA Synthetases. ACS Chemical Biology, 2019, 14, 288-295.	1.6	5
32	Introducing noncanonical amino acids for studying and engineering bacterial microcompartments. Current Opinion in Microbiology, 2021, 61, 67-72.	2.3	4
33	Studying Acetylation of Aconitase Isozymes by Genetic Code Expansion. Frontiers in Chemistry, 2022, 10, 862483.	1.8	4
34	A Synthetic Reporter for Probing Mistranslation in Living Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 623.	2.0	1
35	Editorial: Synthetic Nucleic Acids for Expanding Genetic Codes and Probing Living Cells. Frontiers in Bioengineering and Biotechnology, 2021, 9, 720534.	2.0	1
36	Multifunctional Aspects of PduA Shell Protein from the Microcompartments of Salmonella enterica. Biophysical Journal, 2012, 102, 259a.	0.2	0

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37	Studying Lysine Acetylation of Aminoacyl-tRNA Synthetases in Escherichia coli. FASEB Journal, 2019, 33, 630.3.	0.2	0