Chenguang Fan

List of Publications by Year
in descending order

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	Studying Acetylation of Aconitase Isozymes by Genetic Code Expansion. Frontiers in Chemistry, 2022, 10, 862483.	1.8	4
2	Genome-Wide Screening of Oxidizing Agent Resistance Genes in Escherichia coli. Antioxidants, 2021, 10, 861.	2.2	11
3	Introducing noncanonical amino acids for studying and engineering bacterial microcompartments. Current Opinion in Microbiology, 2021, 61, 67-72.	2.3	4
4	Editorial: Synthetic Nucleic Acids for Expanding Genetic Codes and Probing Living Cells. Frontiers in Bioengineering and Biotechnology, 2021, 9, 720534.	2.0	1
5	Methyl-Coenzyme M Reductase and Its Post-translational Modifications. Frontiers in Microbiology, 2020, 11, 578356.	1.5	18
6	Catalytic Activity, Stability, and Loading Trends of Alcohol Dehydrogenase Enzyme Encapsulated in a Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2020, 12, 26084-26094.	4.0	37
7	A Synthetic Reporter for Probing Mistranslation in Living Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 623.	2.0	1
8	The Application of Cell-Free Protein Synthesis in Genetic Code Expansion for Post-translational Modifications. Frontiers in Pharmacology, 2019, 10, 248.	1.6	16
9	Characterizing lysine acetylation of <i>Escherichia coli</i> type <scp>II</scp> citrate synthase. FEBS Journal, 2019, 286, 2799-2808.	2.2	22
10	Site-Specifically Studying Lysine Acetylation of Aminoacyl-tRNA Synthetases. ACS Chemical Biology, 2019, 14, 288-295.	1.6	5
11	Studying Lysine Acetylation of Aminoacylâ€tRNA Synthetases in Escherichia coli. FASEB Journal, 2019, 33, 630.3.	0.2	0
12	Genetically Incorporating Two Distinct Post-translational Modifications into One Protein Simultaneously. ACS Synthetic Biology, 2018, 7, 689-695.	1.9	70
13	Genome-Wide Quantification of the Effect of Gene Overexpression on Escherichia coli Growth. Genes, 2018, 9, 414.	1.0	13
14	Recent Development of Genetic Code Expansion for Posttranslational Modification Studies. Molecules, 2018, 23, 1662.	1.7	33
15	Characterizing Lysine Acetylation of Isocitrate Dehydrogenase in Escherichia coli. Journal of Molecular Biology, 2018, 430, 1901-1911.	2.0	33
16	Studying the Lysine Acetylation of Malate Dehydrogenase. Journal of Molecular Biology, 2017, 429, 1396-1405.	2.0	80
17	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
18	Continuous directed evolution of aminoacyl-tRNA synthetases. Nature Chemical Biology, 2017, 13, 1253-1260.	3.9	185

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19	A Facile Protocol to Generate Site-Specifically Acetylated Proteins in Escherichia Coli. Journal of Visualized Experiments, 2017, , .	0.2	8
20	Genetically encoding thioacetylâ€lysine as a nonâ€deacetylatable analog of lysine acetylation in <i>Escherichia coli</i>. FEBS Open Bio, 2017, 7, 1805-1814.	1.0	23
21	Biochemical Characterization of the Lysine Acetylation of Tyrosylâ€tRNA Synthetase in <i>Escherichia coli</i>. ChemBioChem, 2017, 18, 1928-1934.	1.3	21
22	Dual Genetic Encoding of Acetylâ€lysine and Nonâ€deacetylatable Thioacetylâ€lysine Mediated by Flexizyme. Angewandte Chemie - International Edition, 2016, 55, 4083-4086.	7.2	23
23	Expanding the genetic code of Salmonella with non-canonical amino acids. Scientific Reports, 2016, 6, 39920.	1.6	31
24	Expanding the genetic code of <i>Escherichia coli</i> with phosphotyrosine. FEBS Letters, 2016, 590, 3040-3047.	1.3	60
25	Evolution of translation machinery in recoded bacteria enables multi-site incorporation of nonstandard amino acids. Nature Biotechnology, 2015, 33, 1272-1279.	9.4	234
26	Rationally evolving tRNA^{Pyl}for efficient incorporation of noncanonical amino acids. Nucleic Acids Research, 2015, 43, e156-e156.	6.5	86
27	Exploring the Substrate Range of Wildâ€Type Aminoacylâ€tRNA Synthetases. ChemBioChem, 2014, 15, 1805-1809.	1.3	34
28	Interactions between the termini of lumen enzymes and shell proteins mediate enzyme encapsulation into bacterial microcompartments. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14995-15000.	3.3	127
29	The PduM Protein Is a Structural Component of the Microcompartments Involved in Coenzyme B ₁₂ -Dependent 1,2-Propanediol Degradation by Salmonella enterica. Journal of Bacteriology, 2012, 194, 1912-1918.	1.0	64
30	Multifunctional Aspects of PduA Shell Protein from the Microcompartments of Salmonella enterica. Biophysical Journal, 2012, 102, 259a.	0.2	0
31	The PduQ Enzyme Is an Alcohol Dehydrogenase Used to Recycle NAD+ Internally within the Pdu Microcompartment of Salmonella enterica. PLoS ONE, 2012, 7, e47144.	1.1	81
32	Genetic Analysis of the Protein Shell of the Microcompartments Involved in Coenzyme B ₁₂ -Dependent 1,2-Propanediol Degradation by <i>Salmonella</i>. Journal of Bacteriology, 2011, 193, 1385-1392.	1.0	93
33	The N-Terminal Region of the Medium Subunit (PduD) Packages Adenosylcobalamin-Dependent Diol Dehydratase (PduCDE) into the Pdu Microcompartment. Journal of Bacteriology, 2011, 193, 5623-5628.	1.0	98
34	Short N-terminal sequences package proteins into bacterial microcompartments. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7509-7514.	3.3	214
35	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
36	Functional Characterization and Mutation Analysis of Human ATP:Cob(I)alamin Adenosyltransferase. Biochemistry, 2008, 47, 2806-2813.	1.2	13

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37	The PduX Enzyme of Salmonella enterica Is an l-Threonine Kinase Used for Coenzyme B12 Synthesis. Journal of Biological Chemistry, 2008, 283, 11322-11329.	1.6	52