

Tatsuo Yanagisawa

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,523
citations

394286

19
h-index

501076

28
g-index

32
all docs

32
docs citations

32
times ranked

1491
citing authors

#	ARTICLE	IF	CITATIONS
1	Multistep Engineering of Pyrrolysyl-tRNA Synthetase to Genetically Encode N ^ε -(o-Azidobenzoyloxycarbonyl) lysine for Site-Specific Protein Modification. <i>Chemistry and Biology</i> , 2008, 15, 1187-1197.	6.2	299
2	Adding l-lysine derivatives to the genetic code of mammalian cells with engineered pyrrolysyl-tRNA synthetases. <i>Biochemical and Biophysical Research Communications</i> , 2008, 371, 818-822.	1.0	245
3	A paralog of lysyl-tRNA synthetase aminoacylates a conserved lysine residue in translation elongation factor P. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1136-1143.	3.6	141
4	Crystallographic Studies on Multiple Conformational States of Active-site Loops in Pyrrolysyl-tRNA Synthetase. <i>Journal of Molecular Biology</i> , 2008, 378, 634-652.	2.0	88
5	Recognition of Non- $\hat{\mu}$ -amino Substrates by Pyrrolysyl-tRNA Synthetase. <i>Journal of Molecular Biology</i> , 2009, 385, 1352-1360.	2.0	78
6	Genetic-code evolution for protein synthesis with non-natural amino acids. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 757-761.	1.0	72
7	Reassignment of a rare sense codon to a non-canonical amino acid in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2015, 43, 8111-8122.	6.5	70
8	Wide-range protein photo-crosslinking achieved by a genetically encoded N ^μ -(benzyloxycarbonyl)lysine derivative with a diazirinyl moiety. <i>Molecular BioSystems</i> , 2012, 8, 1131.	2.9	50
9	Crystallization and preliminary X-ray crystallographic analysis of the catalytic domain of pyrrolysyl-tRNA synthetase from the methanogenic archaeon <i>Methanosarcina mazei</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1031-1033.	0.7	44
10	Molecular Cloning and Crystal Structural Analysis of a Novel $\hat{\mu}$ -N-Acetylhexosaminidase from <i>Paenibacillus</i> sp. TS12 Capable of Degrading Glycosphingolipids. <i>Journal of Molecular Biology</i> , 2009, 392, 87-99.	2.0	40
11	<i>Neisseria meningitidis</i> Translation Elongation Factor P and Its Active-Site Arginine Residue Are Essential for Cell Viability. <i>PLoS ONE</i> , 2016, 11, e0147907.	1.1	40
12	How Does <i>Pseudomonas fluorescens</i> Avoid Suicide from Its Antibiotic Pseudomonic Acid?. <i>Journal of Biological Chemistry</i> , 2003, 278, 25887-25894.	1.6	39
13	Incorporation of a Doubly Functionalized Synthetic Amino Acid into Proteins for Creating Chemical and Light-Induced Conjugates. <i>Bioconjugate Chemistry</i> , 2016, 27, 198-206.	1.8	37
14	Structural Basis for Genetic-Code Expansion with Bulky Lysine Derivatives by an Engineered Pyrrolysyl-tRNA Synthetase. <i>Cell Chemical Biology</i> , 2019, 26, 936-949.e13.	2.5	37
15	Multiple Site-Specific Installations of N ^μ -Monomethyl-L-lysine into Histone Proteins by Cell-Based and Cell-Free Protein Synthesis. <i>ChemBioChem</i> , 2014, 15, 1830-1838.	1.3	36
16	Expanded Genetic Code Technologies for Incorporating Modified Lysine at Multiple Sites. <i>ChemBioChem</i> , 2014, 15, 2181-2187.	1.3	29
17	Crystal Structures of Tyrosyl-tRNA Synthetases from Archaea. <i>Journal of Molecular Biology</i> , 2006, 355, 395-408.	2.0	27
18	Structural basis of protein arginine rhamnosylation by glycosyltransferase EarP. <i>Nature Chemical Biology</i> , 2018, 14, 368-374.	3.9	22

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19	Modeling of tRNA-assisted mechanism of Arg activation based on a structure of Arg-tRNA synthetase, tRNA, and an ATP analog (ANP). <i>FEBS Journal</i> , 2009, 276, 4763-4779.	2.2	21
20	Meningococcal PilV Potentiates <i>Neisseria meningitidis</i> Type IV Pilus-Mediated Internalization into Human Endothelial and Epithelial Cells. <i>Infection and Immunity</i> , 2012, 80, 4154-4166.	1.0	21
21	Fully Productive Cell-Free Genetic Code Expansion by Structure-Based Engineering of <i>Methanomylophilus alvus</i> Pyrrolysyl-tRNA Synthetase. <i>ACS Synthetic Biology</i> , 2020, 9, 718-732.	1.9	21
22	A novel crystal form of pyrrolysyl-tRNA synthetase reveals the pre- and post-aminoacyl-tRNA synthesis conformational states of the adenylate and aminoacyl moieties and an asparagine residue in the catalytic site. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 5-15.	2.5	15
23	Extensive Survey of Antibody Invariant Positions for Efficient Chemical Conjugation Using Expanded Genetic Codes. <i>Bioconjugate Chemistry</i> , 2017, 28, 2099-2108.	1.8	15
24	Cell-Free Protein Synthesis for Multiple Site-Specific Incorporation of Noncanonical Amino Acids Using Cell Extracts from RF-1 Deletion <i>E. coli</i> Strains. <i>Methods in Molecular Biology</i> , 2018, 1728, 49-65.	0.4	14
25	Crystal structure of tRNA m1A58 methyltransferase Trml from <i>Aquifex aeolicus</i> in complex with S-adenosyl-l-methionine. <i>Journal of Structural and Functional Genomics</i> , 2014, 15, 173-180.	1.2	9
26	Multiple Functions of Glutamate Uptake via Meningococcal GltT-GltM -Glutamate ABC Transporter in <i>Neisseria meningitidis</i> Internalization into Human Brain Microvascular Endothelial Cells. <i>Infection and Immunity</i> , 2015, 83, 3555-3567.	1.0	6
27	Genetic incorporation of non-canonical amino acid photocrosslinkers in <i>Neisseria meningitidis</i> : New method provides insights into the physiological function of the function-unknown NMB1345 protein. <i>PLoS ONE</i> , 2020, 15, e0237883.	1.1	6
28	A SelB/EF-Tu/aIF2-like protein from <i>Methanosarcina mazei</i> in the GTP-bound form binds cysteinyl-tRNA ^{Cys} . <i>Journal of Structural and Functional Genomics</i> , 2015, 16, 25-41.	1.2	1
29	Title is missing!. , 2020, 15, e0237883.		0
30	Title is missing!. , 2020, 15, e0237883.		0
31	Title is missing!. , 2020, 15, e0237883.		0
32	Title is missing!. , 2020, 15, e0237883.		0