

Takayuki Katoh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/741844/publications.pdf>

Version: 2024-02-01

55
papers

3,347
citations

201674

27
h-index

168389

53
g-index

59
all docs

59
docs citations

59
times ranked

3608
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vitro Selection of Thioether-Closed Macrocyclic Peptide by Means of the. <i>Methods in Molecular Biology</i> , 2022, 2371, 247-259.	0.9	1
2	In Vitro Selection of Foldamer-Like Macrocyclic Peptides Containing 2-Aminobenzoic Acid and 3-Aminothiophene-2-Carboxylic Acid. <i>Journal of the American Chemical Society</i> , 2022, 144, 2069-2072.	13.7	15
3	OUP accepted manuscript. <i>Nucleic Acids Research</i> , 2022, , .	14.5	7
4	In Vitro Genetic Code Reprogramming for the Expansion of Usable Noncanonical Amino Acids. <i>Annual Review of Biochemistry</i> , 2022, 91, 221-243.	11.1	14
5	Development of Bioactive Foldamers Using Ribosomally Synthesized Nonstandard Peptide Libraries. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 549-557.	3.2	3
6	In Vitro Selection of Macrocyclic <scp>d</scp>/<scp>l</scp>-Hybrid Peptides against Human EGFR. <i>Journal of the American Chemical Society</i> , 2021, 143, 5680-5684.	13.7	21
7	Macrocyclic peptides exhibit antiviral effects against influenza virus HA and prevent pneumonia in animal models. <i>Nature Communications</i> , 2021, 12, 2654.	12.8	21
8	Uniform affinity-tuning of <i>N</i>-methyl-aminoacyl-tRNAs to EF-Tu enhances their multiple incorporation. <i>Nucleic Acids Research</i> , 2021, 49, 10807-10817.	14.5	16
9	Consecutive Ribosomal Incorporation of $\hat{\pm}$ -Aminoxy/ $\hat{\pm}$ -Hydrazino Acids with <scp>l</scp>/<scp>d</scp>-Configurations into Nascent Peptide Chains. <i>Journal of the American Chemical Society</i> , 2021, 143, 18844-18848.	13.7	19
10	Ribosomal synthesis and de novo discovery of bioactive foldamer peptides containing cyclic $\hat{2}$ -amino acids. <i>Nature Chemistry</i> , 2020, 12, 1081-1088.	13.6	86
11	Ribosomal Elongation of Aminobenzoic Acid Derivatives. <i>Journal of the American Chemical Society</i> , 2020, 142, 16518-16522.	13.7	35
12	Methodologies for Backbone Macrocyclic Peptide Synthesis Compatible With Screening Technologies. <i>Frontiers in Chemistry</i> , 2020, 8, 447.	3.6	29
13	An aminoacylation ribozyme evolved from a natural tRNA-sensing T-box riboswitch. <i>Nature Chemical Biology</i> , 2020, 16, 702-709.	8.0	25
14	Ribosomal Elongation of Cyclic $\hat{3}$ -Amino Acids using a Reprogrammed Genetic Code. <i>Journal of the American Chemical Society</i> , 2020, 142, 4965-4969.	13.7	53
15	Improved Stability of siRNA-Loaded Lipid Nanoparticles Prepared with a PEG-Monoacyl Fatty Acid Facilitates Ligand-Mediated siRNA Delivery. <i>Molecular Pharmaceutics</i> , 2020, 17, 1397-1404.	4.6	22
16	A Case Study on the Keap1 Interaction with Peptide Sequence Epitopes Selected by the Peptidomic mRNA Display. <i>ChemBioChem</i> , 2019, 20, 2089-2100.	2.6	1
17	Flexizyme-catalyzed synthesis of $\hat{2}$ -aminoacyl-NH-tRNAs. <i>Nucleic Acids Research</i> , 2019, 47, e54-e54.	14.5	14
18	Engineering Translation Components Improve Incorporation of Exotic Amino Acids. <i>International Journal of Molecular Sciences</i> , 2019, 20, 522.	4.1	16

#	ARTICLE	IF	CITATIONS
19	Ribosomal Formation of Thioamide Bonds in Polypeptide Synthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 20004-20008.	13.7	33
20	In vitro expression of genetically encoded non-standard peptides consisting of exotic amino acid building blocks. <i>Current Opinion in Biotechnology</i> , 2019, 58, 28-36.	6.6	12
21	Ribosomal Synthesis of Backbone-Cyclic Peptides Compatible with In Vitro Display. <i>Journal of the American Chemical Society</i> , 2019, 141, 2279-2287.	13.7	53
22	Thioether Macrocyclic Peptides Selected against TET1 Compact Catalytic Domain Inhibit TET1 Catalytic Activity. <i>ChemBioChem</i> , 2018, 19, 979-985.	2.6	14
23	Artificial Division of Codon Boxes for Expansion of the Amino Acid Repertoire of Ribosomal Polypeptide Synthesis. <i>Methods in Molecular Biology</i> , 2018, 1728, 17-47.	0.9	3
24	tRNA engineering for manipulating genetic code. <i>RNA Biology</i> , 2018, 15, 453-460.	3.1	17
25	Advances in in vitro genetic code reprogramming in 2014–2017. <i>Synthetic Biology</i> , 2018, 3, ysy008.	2.2	11
26	Ribosomal Incorporation of Consecutive β -Amino Acids. <i>Journal of the American Chemical Society</i> , 2018, 140, 12159-12167.	13.7	80
27	Genetic code expansion via integration of redundant amino acid assignment by finely tuning tRNA pools. <i>Current Opinion in Chemical Biology</i> , 2018, 46, 212-218.	6.1	13
28	Highly selective inhibition of histone demethylases by de novo macrocyclic peptides. <i>Nature Communications</i> , 2017, 8, 14773.	12.8	124
29	Consecutive Elongation of D-Amino Acids in Translation. <i>Cell Chemical Biology</i> , 2017, 24, 46-54.	5.2	101
30	Efficient siRNA Delivery by Lipid Nanoparticles Modified with a Nonstandard Macrocyclic Peptide for EpCAM-Targeting. <i>Molecular Pharmaceutics</i> , 2017, 14, 3290-3298.	4.6	28
31	Amino acid substrates impose polyamine, eIF5A, or hypusine requirement for peptide synthesis. <i>Nucleic Acids Research</i> , 2017, 45, 8392-8402.	14.5	36
32	Logical engineering of D-arm and T-stem of tRNA that enhances d-amino acid incorporation. <i>Nucleic Acids Research</i> , 2017, 45, 12601-12610.	14.5	76
33	tRid, an enabling method to isolate previously inaccessible small RNA fractions. <i>Methods</i> , 2016, 106, 105-111.	3.8	5
34	A human microRNA precursor binding to folic acid discovered by small RNA transcriptomic SELEX. <i>Rna</i> , 2016, 22, 1918-1928.	3.5	9
35	Essential structural elements in tRNAPro for EF-P-mediated alleviation of translation stalling. <i>Nature Communications</i> , 2016, 7, 11657.	12.8	68
36	Expanding the amino acid repertoire of ribosomal polypeptide synthesis via the artificial division of codon boxes. <i>Nature Chemistry</i> , 2016, 8, 317-325.	13.6	96

#	ARTICLE	IF	CITATIONS
37	A Fluorescent Imaging Probe Based on a Macrocyclic Scaffold That Binds to Cellular EpCAM. <i>Journal of Molecular Evolution</i> , 2015, 81, 210-217.	1.8	33
38	Destabilization of microRNAs in human cells by 3' deadenylation mediated by PARN and CUGBP1. <i>Nucleic Acids Research</i> , 2015, 43, 7521-7534.	14.5	74
39	Selection-Based Discovery of Druglike Macrocyclic Peptides. <i>Annual Review of Biochemistry</i> , 2014, 83, 727-752.	11.1	178
40	An orthogonal ribosome-tRNA pair via engineering of the peptidyl transferase center. <i>Nature Chemical Biology</i> , 2014, 10, 555-557.	8.0	70
41	Structural basis for the drug extrusion mechanism by a MATE multidrug transporter. <i>Nature</i> , 2013, 496, 247-251.	27.8	225
42	A Macrocyclic Peptide that Serves as a Cocrystallization Ligand and Inhibits the Function of a MATE Family Transporter. <i>Molecules</i> , 2013, 18, 10514-10530.	3.8	44
43	Selective thioether macrocyclization of peptides having the N-terminal 2-chloroacetyl group and competing two or three cysteine residues in translation. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5783.	2.8	51
44	Charging of tRNAs Using Ribozymes and Selection of Cyclic Peptides Containing Thioethers. <i>Methods in Molecular Biology</i> , 2012, 805, 335-348.	0.9	21
45	Ribosomal synthesis of backbone macrocyclic peptides. <i>Chemical Communications</i> , 2011, 47, 9946.	4.1	37
46	Drug discovery of non-standard peptide with genetic code reprogramming. <i>Drug Delivery System</i> , 2011, 26, 584-592.	0.0	0
47	Flexizymes for genetic code reprogramming. <i>Nature Protocols</i> , 2011, 6, 779-790.	12.0	363
48	Natural Product-Like Macrocyclic N-Methyl-Peptide Inhibitors against a Ubiquitin Ligase Uncovered from a Ribosome-Expressed De Novo Library. <i>Chemistry and Biology</i> , 2011, 18, 1562-1570.	6.0	274
49	Actin-binding protein ABP140 is a methyltransferase for 3-methylcytidine at position 32 of tRNAs in <i>Saccharomyces cerevisiae</i> . <i>Rna</i> , 2011, 17, 1111-1119.	3.5	62
50	Selective stabilization of mammalian microRNAs by 3' adenylation mediated by the cytoplasmic poly(A) polymerase GLD-2. <i>Genes and Development</i> , 2009, 23, 433-438.	5.9	378
51	Biogenesis of glutamyl-mt tRNA ^{Gln} in human mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16209-16214.	7.1	93
52	Specific residues at every third position of siRNA shape its efficient RNAi activity. <i>Nucleic Acids Research</i> , 2007, 35, e27.	14.5	85
53	Human Mitochondrial mRNAs Are Stabilized with Polyadenylation Regulated by Mitochondria-specific Poly(A) Polymerase and Polynucleotide Phosphorylase. <i>Journal of Biological Chemistry</i> , 2005, 280, 19721-19727.	3.4	162
54	Simple and rapid synthesis of siRNA derived from in vitro transcribed shRNA. <i>Nucleic Acids Symposium Series</i> , 2003, 3, 249-250.	0.3	15

#	ARTICLE	IF	CITATIONS
55	Preparation of materials for flexizyme reactions and genetic code reprogramming. Protocol Exchange, 0, , .	0.3	3