

Kensaku Sakamoto

List of Publications by Year in descending order

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papers

4,336
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109264

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docs citations

99
times ranked

3713
citing authors

#	ARTICLE	IF	CITATIONS
1	The two-domain architecture of LAMP2A regulates its interaction with Hsc70. <i>Experimental Cell Research</i> , 2022, 411, 112986.	1.2	10
2	Incorporation of Halogenated Amino Acids into Antibody Fragments at Multiple Specific Sites Enhances Antigen Binding. <i>ChemBioChem</i> , 2021, 22, 120-123.	1.3	10
3	An expanded genetic code facilitates antibody chemical conjugation involving the lambda light chain. <i>Biochemical and Biophysical Research Communications</i> , 2021, 546, 35-39.	1.0	3
4	Direct homophilic interaction of LAMP2A with the two-domain architecture revealed by site-directed photo-crosslinks and steric hindrances in mammalian cells. <i>Autophagy</i> , 2021, 17, 4286-4304.	4.3	9
5	An integrated computational pipeline for designing high-affinity nanobodies with expanded genetic codes. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	4
6	Fully Productive Cell-Free Genetic Code Expansion by Structure-Based Engineering of <i>Methanomethylophilus alvus</i> Pyrrolysyl-tRNA Synthetase. <i>ACS Synthetic Biology</i> , 2020, 9, 718-732.	1.9	21
7	Cell-Free Protein Synthesis Using S30 Extracts from <i>Escherichia coli</i> RFzero Strains for Efficient Incorporation of Non-Natural Amino Acids into Proteins. <i>International Journal of Molecular Sciences</i> , 2019, 20, 492.	1.8	25
8	Synthetic Tyrosine tRNA Molecules with Noncanonical Secondary Structures. <i>International Journal of Molecular Sciences</i> , 2019, 20, 92.	1.8	9
9	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
10	Variants of the industrially relevant protease KP-43 with suppressed activity under alkaline conditions developed using expanded genetic codes. <i>Biochemistry and Biophysics Reports</i> , 2019, 17, 93-96.	0.7	2
11	Genetic Code Expansion of the Silkworm <i>Bombyx mori</i> to Functionalize Silk Fiber. <i>ACS Synthetic Biology</i> , 2018, 7, 801-806.	1.9	26
12	Pyrrolysyl-tRNA Synthetase with a Unique Architecture Enhances the Availability of Lysine Derivatives in Synthetic Genetic Codes. <i>Molecules</i> , 2018, 23, 2460.	1.7	25
13	Engineering of <i>Escherichia coli</i> β -lactamase TEM-1 variants showing higher activity under acidic conditions than at the neutral pH. <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 333-337.	1.0	3
14	Engineering an Automaturing Transglutaminase with Enhanced Thermostability by Genetic Code Expansion with Two Codon Reassignments. <i>ACS Synthetic Biology</i> , 2018, 7, 2170-2176.	1.9	25
15	JQ1 affects BRD2-dependent and independent transcription regulation without disrupting H4-hyperacetylated chromatin states. <i>Epigenetics</i> , 2018, 13, 410-431.	1.3	32
16	A reproducible and scalable procedure for preparing bacterial extracts for cell-free protein synthesis. <i>Journal of Biochemistry</i> , 2017, 162, 357-369.	0.9	34
17	Covalently Capturing Protein Interactions in Living Cells by Site-Specific Incorporation of Photo-Cross-Linkable Amino Acids. , 2017, , 159-181.		0
18	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

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19	Structure-based site-directed photo-crosslinking analyses of multimeric cell-adhesive interactions of voltage-gated sodium channel β_2 subunits. <i>Scientific Reports</i> , 2016, 6, 26618.	1.6	13
20	Adenovirus vector-based incorporation of a photo-cross-linkable amino acid into proteins in human primary cells and cancerous cell lines. <i>Scientific Reports</i> , 2016, 6, 36946.	1.6	12
21	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
22	Crystal structure of eukaryotic translation initiation factor 2B. <i>Nature</i> , 2016, 531, 122-125.	13.7	103
23	Intra- and inter-nucleosomal interactions of the histone H4 tail revealed with a human nucleosome core particle with genetically-incorporated H4 tetra-acetylation. <i>Scientific Reports</i> , 2015, 5, 17204.	1.6	67
24	Protein stabilization utilizing a redefined codon. <i>Scientific Reports</i> , 2015, 5, 9762.	1.6	35
25	Highly reproductive <i>Escherichia coli</i> cells with no specific assignment to the UAG codon. <i>Scientific Reports</i> , 2015, 5, 9699.	1.6	126
26	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
27	Ubiquitin acetylation inhibits polyubiquitin chain elongation. <i>EMBO Reports</i> , 2015, 16, 192-201.	2.0	116
28	Multiple Site-Specific Installations of ϵ -Monomethyl-L-Lysine into Histone Proteins by Cell-Based and Cell-Free Protein Synthesis. <i>ChemBioChem</i> , 2014, 15, 1830-1838.	1.3	36
29	Expanded Genetic Code Technologies for Incorporating Modified Lysine at Multiple Sites. <i>ChemBioChem</i> , 2014, 15, 2181-2187.	1.3	29
30	1P088 Multiple site-selective integrations of bulky halogenated tyrosines enhance protein stability (01F. Protein : Engineering, Poster, The 52nd Annual Meeting of the Biophysical Society of Tj ETQq0 0 0 rg BT, Overlook 10 Tf 50)		
31	Structural Stability of Halogenated Protein: Fragment Molecular Orbital Study. <i>Journal of Computer Chemistry Japan</i> , 2014, 13, 308-309.	0.0	1
32	Efficient Decoding of the UAG Triplet as a Full-Fledged Sense Codon Enhances the Growth of a <i>prfA</i> -Deficient Strain of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2012, 194, 2606-2613.	1.0	36
33	Tetrameric Interaction of the Ecto-enzyme CD38 on the Cell Surface Enables Its Catalytic and Raft-Association Activities. <i>Structure</i> , 2012, 20, 1585-1595.	1.6	31
34	Wide-range protein photo-crosslinking achieved by a genetically encoded N -(benzyloxycarbonyl)lysine derivative with a diazirinyl moiety. <i>Molecular BioSystems</i> , 2012, 8, 1131.	2.9	50
35	Site-Specific Incorporation of Unnatural Amino Acids into Proteins in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2012, 794, 215-228.	0.4	7
36	Structural basis for extracellular interactions between calcitonin receptor-like receptor and receptor activity-modifying protein 2 for adrenomedullin-specific binding. <i>Protein Science</i> , 2012, 21, 199-210.	3.1	54

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37	Structural basis of interleukin-5 dimer recognition by its β receptor. <i>Protein Science</i> , 2012, 21, 850-864.	3.1	57
38	Crystallographic Study of a Site-Specifically Cross-Linked Protein Complex with a Genetically Incorporated Photoreactive Amino Acid. <i>Biochemistry</i> , 2011, 50, 250-257.	1.2	48
39	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
40	Genetic Incorporation of a Photo-Crosslinkable Amino Acid Reveals Novel Protein Complexes with GRB2 in Mammalian Cells. <i>Journal of Molecular Biology</i> , 2011, 406, 343-353.	2.0	49
41	Dissecting Cell Signaling Pathways with Genetically Encoded 3-iodo-L-tyrosine. <i>ChemBioChem</i> , 2011, 12, 387-389.	1.3	3
42	Genetic encoding of non-natural amino acids in <i>Drosophila melanogaster</i> Schneider 2 cells. <i>Protein Science</i> , 2010, 19, 440-448.	3.1	34
43	Crystal structure of bacterial RNA polymerase bound with a transcription inhibitor protein. <i>Nature</i> , 2010, 468, 978-982.	13.7	140
44	Functional replacement of the endogenous tyrosyl-tRNA synthetase-tRNA ^{Tyr} pair by the archaeal tyrosine pair in <i>Escherichia coli</i> for genetic code expansion. <i>Nucleic Acids Research</i> , 2010, 38, 3682-3691.	6.5	35
45	Codon reassignment in the <i>Escherichia coli</i> genetic code. <i>Nucleic Acids Research</i> , 2010, 38, 8188-8195.	6.5	173
46	Site-specific incorporation of 4-iodo-L-phenylalanine through opal suppression. <i>Journal of Biochemistry</i> , 2010, 148, 179-187.	0.9	4
47	Biologically-implemented genetic algorithm for protein engineering. , 2009, , .		2
48	Genetic Encoding of 3-Iodo-L-Tyrosine in <i>Escherichia coli</i> for Single-Wavelength Anomalous Dispersion Phasing in Protein Crystallography. <i>Structure</i> , 2009, 17, 335-344.	1.6	60
49	Recognition of Non- β -amino Substrates by Pyrrolysyl-tRNA Synthetase. <i>Journal of Molecular Biology</i> , 2009, 385, 1352-1360.	2.0	78
50	Site-specific Incorporation of 3-Iodo-L-tyrosine into Proteins and Single-wavelength Anomalous Dispersion Phasing with Soft X-ray in Protein Crystallography. <i>Nihon Kessho Gakkaishi</i> , 2009, 51, 251-257.	0.0	1
51	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
52	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
53	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
54	Transplantation of a tyrosine editing domain into a tyrosyl-tRNA synthetase variant enhances its specificity for a tyrosine analog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13298-13303.	3.3	27

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55	1P065 X-ray structure analyses for iodo-tyrosine incorporated proteins(Proteins-methodology,Poster) Tj ETQq1 1 0,784314 rgBT /Ove	0.0	0
56	Site-Specific Functionalization of Proteins by Organopalladium Reactions. ChemBioChem, 2007, 8, 232-238.	1.3	96
57	Regioselective Carbon-Carbon Bond Formation in Proteins with Palladium Catalysis; New Protein Chemistry by Organometallic Chemistry. ChemBioChem, 2007, 8, 159-159.	1.3	0
58	Theoretical Basis for Stochastic Optimization Starting from a Single Point in the Search Space Formed by Real DNA Molecules. Transactions of the Japanese Society for Artificial Intelligence, 2007, 22, 405-415.	0.1	1
59	Cation- π Interaction in the Polyolefin Cyclization Cascade Uncovered by Incorporating Unnatural Amino Acids into the Catalytic Sites of Squalene Cyclase. Journal of the American Chemical Society, 2006, 128, 13184-13194.	6.6	72
60	Site-specific incorporation of non-natural amino acids into proteins in mammalian cells with an expanded genetic code. Nature Protocols, 2006, 1, 2957-2962.	5.5	41
61	DNA polymerase programmed with a hairpin DNA incorporates a multiple-instruction architecture into molecular computing. BioSystems, 2006, 83, 18-25.	0.9	25
62	Translation of "rare" Codons in a Cell-free Protein Synthesis System from Escherichia coli. Journal of Structural and Functional Genomics, 2006, 7, 31-36.	1.2	28
63	Regioselective Carbon-Carbon Bond Formation in Proteins with Palladium Catalysis; New Protein Chemistry by Organometallic Chemistry. ChemBioChem, 2006, 7, 134-139.	1.3	96
64	A New Protein Engineering Approach Combining Chemistry and Biology, Part I; Site-Specific Incorporation of 4-iodo-L-phenylalanine in vitro by Using Misacylated Suppressor tRNAPhe. ChemBioChem, 2006, 7, 1577-1581.	1.3	10
65	Protein photo-cross-linking in mammalian cells by site-specific incorporation of a photoreactive amino acid. Nature Methods, 2005, 2, 201-206.	9.0	223
66	Hairpin-based state machine and conformational addressing: Design and experiment. Natural Computing, 2005, 4, 103-126.	1.8	18
67	Structural basis of nonnatural amino acid recognition by an engineered aminoacyl-tRNA synthetase for genetic code expansion. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1366-1371.	3.3	38
68	Structural Snapshots of the KMSKS Loop Rearrangement for Amino Acid Activation by Bacterial Tyrosyl-tRNA Synthetase. Journal of Molecular Biology, 2005, 346, 105-117.	2.0	92
69	The Escherichia coli argU10(Ts) Phenotype Is Caused by a Reduction in the Cellular Level of the argU tRNA for the Rare Codons AGA and AGG. Journal of Bacteriology, 2004, 186, 5899-5905.	1.0	11
70	Conformational Addressing Using the Hairpin Structure of Single-Strand DNA. Lecture Notes in Computer Science, 2004, , 219-224.	1.0	9
71	Structural basis for orthogonal tRNA specificities of tyrosyl-tRNA synthetases for genetic code expansion. Nature Structural and Molecular Biology, 2003, 10, 425-432.	3.6	193
72	An engineered Escherichia coli tyrosyl-tRNA synthetase for site-specific incorporation of an unnatural amino acid into proteins in eukaryotic translation and its application in a wheat germ cell-free system. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9715-9720.	3.3	163

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73	Indolmycin Resistance of <i>Streptomyces coelicolor</i> A3(2) by Induced Expression of One of Its Two Tryptophanyl-tRNA Synthetases. <i>Journal of Biological Chemistry</i> , 2002, 277, 23882-23887.	1.6	50
74	Site-specific incorporation of an unnatural amino acid into proteins in mammalian cells. <i>Nucleic Acids Research</i> , 2002, 30, 4692-4699.	6.5	231
75	Solution structure of an RNA fragment with the P7/P9.0 region and the 3' terminal guanosine of the <i>Tetrahymena</i> group I intron. <i>Rna</i> , 2002, 8, 440-451.	1.6	17
76	Complexity analysis of the SAT engine: DNA algorithms as probabilistic algorithms. <i>Theoretical Computer Science</i> , 2002, 287, 59-71.	0.5	3
77	Shifted positioning of the anticodon nucleotide residues of amber suppressor tRNA species by <i>Escherichia coli</i> arginyl-tRNA synthetase. <i>FEBS Journal</i> , 2001, 268, 6207-6213.	0.2	12
78	Successive state transitions with I/O interface by molecules. <i>Lecture Notes in Computer Science</i> , 2001, , 17-26.	1.0	14
79	Synthesis Of N-Labeled Peptidyl AMP. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 1993-2003.	0.4	1
80	State transitions by molecules. <i>BioSystems</i> , 1999, 52, 81-91.	0.9	94
81	RNA aptamers that specifically bind to the Ras-binding domain of Raf-1. <i>FEBS Letters</i> , 1998, 441, 322-326.	1.3	22
82	Chemical Synthesis and Properties of Conformationally Fixed Diuridine Monophosphates as Building Blocks of the RNA Turn Motif. <i>Journal of Organic Chemistry</i> , 1998, 63, 1429-1443.	1.7	31
83	Synthesis and Properties of Conformationally Rigid Cyclouridylic Acids Having Covalent Bonding Linkers Between the Uracil 5-Position and the 5'-Phosphate Group. <i>Nucleosides & Nucleotides</i> , 1997, 16, 1023-1032.	0.5	6
84	Cleavage effect of oligoribonucleotides substituted at the cleavage sites with modified pyrimidine- and purine-nucleosides. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1997, 1354, 211-218.	2.4	5
85	Chemical Synthesis and Conformational Properties of a New Cyclouridylic Acid Having an Ethylene Bridge between the Uracil 5-Position and 5'-Phosphate Group. <i>Journal of Organic Chemistry</i> , 1996, 61, 1500-1504.	1.7	18
86	NMR Studies of the Effects of the 5'-Phosphate Group on Conformational Properties of 5-Methylaminomethyluridine Found in the First Position of the Anticodon of <i>Escherichia coli</i> tRNA ^{Arg} . <i>Biochemistry</i> , 1996, 35, 6533-6538.	1.2	23
87	Major Identity Determinants in the "Augmented D Helix" of tRNA ^{Glu} from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1996, 256, 685-700.	2.0	65
88	Synthesis and properties of conformationally rigid cyclouridylic acid having a covalent bonding linker between the uracil 5-position and the 5'-phosphate group. <i>Tetrahedron Letters</i> , 1995, 36, 9515-9518.	0.7	6
89	Characterization of the secondary structure of an oligonucleotide corresponding to the autocleavage site of a precursor RNA from bacteriophage T4. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1994, 1218, 351-356.	2.4	2
90	Chemical Synthesis and Properties of an Interresidually Cyclized Uridyl(3'-5')uridine as a model of tRNA U-Turn Structure Having a Sharp Bend. <i>Journal of the American Chemical Society</i> , 1994, 116, 4469-4470.	6.6	3

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91	A modified uridine in the first position of the anticodon of a minor species of arginine tRNA, the argU gene product, from Escherichia coli. FEBS Journal, 1993, 216, 369-375.	0.2	35
92	Mechanisms of the inhibition of reverse transcription by unmodified and modified antisense oligonucleotides. FEBS Letters, 1993, 330, 161-164.	1.3	21
93	Synthesis of Uridyl (3'→5') Uridine Derivatives Containing 5-(Methylamino-Methyl) Uridine as A Modified Nucleoside Found from <i>E. COLI</i> Minor tRNA ^{Arg} . Nucleosides & Nucleotides, 1993, 12, 305-321.	0.5	6
94	Cleavage reaction of a synthetic oligoribonucleotide corresponding to the autocleavage site of a precursor RNA from bacteriophage T4. FEBS Letters, 1991, 293, 204-206.	1.3	13
95	Structural Basis for Genetic-Code Expansion with Various Bulky Lysine Derivatives by an Engineered Pyrrolysyl-tRNA Synthetase. SSRN Electronic Journal, 0, , .	0.4	0