

Chuan Fa Liu

List of Publications by Year in descending order

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96
papers

4,457
citations

136950

32
h-index

114465

63
g-index

101
all docs

101
docs citations

101
times ranked

4371
citing authors

#	ARTICLE	IF	CITATIONS
1	Lysine Acetylation Is a Highly Abundant and Evolutionarily Conserved Modification in Escherichia Coli. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 215-225.	3.8	450
2	Peptide synthesis using unprotected peptides through orthogonal coupling methods.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 12485-12489.	7.1	249
3	Dual Native Chemical Ligation at Lysine. <i>Journal of the American Chemical Society</i> , 2009, 131, 13592-13593.	13.7	246
4	Peptide segment ligation strategy without use of protecting groups.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 6584-6588.	7.1	202
5	Metabolic Regulation of Protein N-Alpha-Acetylation by Bcl-xL Promotes Cell Survival. <i>Cell</i> , 2011, 146, 607-620.	28.9	185
6	The effects of histone H4 tail acetylations on cation-induced chromatin folding and self-association. <i>Nucleic Acids Research</i> , 2011, 39, 1680-1691.	14.5	178
7	Chemical Ligation Approach To Form a Peptide Bond between Unprotected Peptide Segments. Concept and Model Study. <i>Journal of the American Chemical Society</i> , 1994, 116, 4149-4153.	13.7	176
8	A Direct Method for Site-Specific Protein Acetylation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9611-9614.	13.8	124
9	Quantifying the RNA cap epitranscriptome reveals novel caps in cellular and viral RNA. <i>Nucleic Acids Research</i> , 2019, 47, e130-e130.	14.5	124
10	Structure of a human DNA repair protein UBA domain that interacts with HIV-1 Vpr. <i>Nature Structural Biology</i> , 1998, 5, 1042-1047.	9.7	121
11	Peptidyl <i>N</i> -Bis(2-mercaptoethyl)-amides as Thioester Precursors for Native Chemical Ligation. <i>Organic Letters</i> , 2011, 13, 386-389.	4.6	100
12	Butelase-mediated cyclization and ligation of peptides and proteins. <i>Nature Protocols</i> , 2016, 11, 1977-1988.	12.0	95
13	Orthogonal Ligation of Unprotected Peptide Segments through Pseudoproline Formation for the Synthesis of HIV-1 Protease Analogs.. <i>Journal of the American Chemical Society</i> , 1996, 118, 307-312.	13.7	86
14	Improved solid phase synthesis of C-terminal peptide aldehydes. <i>Tetrahedron Letters</i> , 1995, 36, 7871-7874.	1.4	82
15	Site-Specific N-Terminal Labeling of Peptides and Proteins using Butelase...1 and Thiodepsipeptide. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15694-15698.	13.8	82
16	Structural determinants for peptide-bond formation by asparaginyl ligases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11737-11746.	7.1	81
17	Synthesis of K48-linked diubiquitin using dual native chemical ligation at lysine. <i>Chemical Communications</i> , 2010, 46, 7199.	4.1	76
18	Protein C-Terminal Modification through Thioacid/Azide Amidation. <i>Bioconjugate Chemistry</i> , 2009, 20, 197-200.	3.6	68

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19	Butelase-mediated synthesis of protein thioesters and its application for tandem chemoenzymatic ligation. <i>Chemical Communications</i> , 2015, 51, 17289-17292.	4.1	68
20	Enzymatic Engineering of Live Bacterial Cell Surfaces Using Butelase...1. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7822-7825.	13.8	63
21	7-Deazaguanine modifications protect phage DNA from host restriction systems. <i>Nature Communications</i> , 2019, 10, 5442.	12.8	63
22	Influence of Histone Tails and H4 Tail Acetylations on Nucleosome-Nucleosome Interactions. <i>Journal of Molecular Biology</i> , 2011, 414, 749-764.	4.2	62
23	Acyl disulfide-mediated intramolecular acylation for orthogonal coupling between unprotected peptide segments. Mechanism and application. <i>Tetrahedron Letters</i> , 1996, 37, 933-936.	1.4	57
24	Regulation of Nucleosome Stacking and Chromatin Compaction by the Histone H4 N-Terminal Tail-H2A Acidic Patch Interaction. <i>Journal of Molecular Biology</i> , 2017, 429, 2075-2092.	4.2	56
25	Histone H4 lysine 20 mono-methylation directly facilitates chromatin openness and promotes transcription of housekeeping genes. <i>Nature Communications</i> , 2021, 12, 4800.	12.8	56
26	Auxiliary-Directed Pd-Catalyzed $\text{I}^3\text{-C}(\text{sp}^3)$ -H Bond Activation of I^\pm -Aminobutanoic Acid Derivatives. <i>Organic Letters</i> , 2015, 17, 6094-6097.	4.6	50
27	Design, Synthesis, and Biological Evaluation of Membrane-Active Bakuchiol Derivatives as Effective Broad-Spectrum Antibacterial Agents. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 5603-5619.	6.4	49
28	High-resolution HDX-MS reveals distinct mechanisms of RNA recognition and activation by RIG-I and MDA5. <i>Nucleic Acids Research</i> , 2015, 43, 1216-1230.	14.5	45
29	Synthesis of 4-mercapto-l-lysine derivatives: Potential building blocks for sequential native chemical ligation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6268-6271.	2.2	40
30	Butelase-Mediated Ligation as an Efficient Bioconjugation Method for the Synthesis of Peptide Dendrimers. <i>Bioconjugate Chemistry</i> , 2016, 27, 2592-2596.	3.6	40
31	Native chemical ubiquitination using a genetically incorporated azidonorleucine. <i>Chemical Communications</i> , 2014, 50, 7971-7974.	4.1	37
32	Semisynthetic UbH2A reveals different activities of deubiquitinases and inhibitory effects of H2A K119 ubiquitination on H3K36 methylation in mononucleosomes. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 835-839.	2.8	36
33	Discovery of novel bacterial queuine salvage enzymes and pathways in human pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19126-19135.	7.1	36
34	Identification and Characterization of Roseltide, a Knottin-type Neutrophil Elastase Inhibitor Derived from <i>Hibiscus sabdariffa</i> . <i>Scientific Reports</i> , 2016, 6, 39401.	3.3	35
35	Role of remodeling and spacing factor 1 in histone H2A ubiquitination-mediated gene silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7949-E7958.	7.1	35
36	N-to-C Sequential Ligation Using Peptidyl N,N-Bis(2-mercaptoethyl)amide Building Blocks. <i>Organic Letters</i> , 2012, 14, 374-377.	4.6	31

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37	5-Methylisoxazole-3-carboxamide-Directed Palladium-Catalyzed $\text{I}^3\text{-C}(\text{sp}^3)$ Acetoxylation and Application to the Synthesis of I^3 -Mercapto Amino Acids for Native Chemical Ligation. <i>Organic Letters</i> , 2016, 18, 2696-2699.	4.6	30
38	Facile Synthesis of Peptidyl Salicylaldehyde Esters and Its Use in Cyclic Peptide Synthesis. <i>Organic Letters</i> , 2013, 15, 5182-5185.	4.6	29
39	Turning an Asparaginyl Endopeptidase into a Peptide Ligase. <i>ACS Catalysis</i> , 2020, 10, 8825-8834.	11.2	29
40	Lanthionine macrocyclization by <i>in situ</i> activation of serine. <i>Chemical Biology and Drug Design</i> , 1998, 51, 432-436.	1.1	27
41	The Influence of Ionic Environment and Histone Tails on Columnar Order of Nucleosome Core Particles. <i>Biophysical Journal</i> , 2016, 110, 1720-1731.	0.5	27
42	Thienopyrimidinone Derivatives That Inhibit Bacterial tRNA (Guanine ³⁷ -N ¹)-Methyltransferase (TrmD) by Restructuring the Active Site with a Tyrosine-Flipping Mechanism. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 7788-7805.	6.4	27
43	Ambient ionization MS for bioanalysis: recent developments and challenges. <i>Bioanalysis</i> , 2015, 7, 1901-1923.	1.5	26
44	Reduction of mNAT1/hNAT2 Contributes to Cerebral Endothelial Necroptosis and $\text{A}\beta$ Accumulation in Alzheimer's Disease. <i>Cell Reports</i> , 2020, 33, 108447.	6.4	26
45	Total chemical and semisynthetic approaches for the preparation of ubiquitinated proteins and their applications. <i>Science China Chemistry</i> , 2018, 61, 251-265.	8.2	25
46	PARP1 exhibits enhanced association and catalytic efficiency with $\text{I}^3\text{H2A.X}$ -nucleosome. <i>Nature Communications</i> , 2019, 10, 5751.	12.8	25
47	pH-Controlled Protein Orthogonal Ligation Using Asparaginyl Peptide Ligases. <i>Journal of the American Chemical Society</i> , 2021, 143, 8704-8712.	13.7	25
48	A Simple Method for Preparing Peptide C-Terminal Thioacids and Their Application in Sequential Chemoenzymatic Ligation. <i>ChemBioChem</i> , 2008, 9, 1052-1056.	2.6	24
49	Specificity and formation of unusual amino acids of an amide ligation strategy for unprotected peptides. <i>International Journal of Peptide and Protein Research</i> , 1995, 45, 209-216.	0.1	24
50	ISWI Remodelling of Physiological Chromatin Fibres Acetylated at Lysine 16 of Histone H4. <i>PLoS ONE</i> , 2014, 9, e88411.	2.5	24
51	Thiazolidine-Masked I^{\pm} -Oxo Aldehyde Functionality for Peptide and Protein Modification. <i>Bioconjugate Chemistry</i> , 2017, 28, 325-329.	3.6	24
52	Immobilization and Intracellular Delivery of Circular Proteins by Modifying a Genetically Incorporated Unnatural Amino Acid. <i>Bioconjugate Chemistry</i> , 2018, 29, 2170-2175.	3.6	22
53	Application of paper spray-MS in PK studies using sunitinib and benzethonium as model compounds. <i>Bioanalysis</i> , 2015, 7, 413-423.	1.5	21
54	Subtilisin-Catalyzed Synthesis of Amino Acid and Peptide Esters. Application in a Two-Step Enzymatic Ligation Strategy. <i>Organic Letters</i> , 2001, 3, 4157-4159.	4.6	20

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55	Chemical and Enzymatic Strategies for Bacterial and Mammalian Cell Surface Engineering. <i>Chemistry - A European Journal</i> , 2018, 24, 8042-8050.	3.3	20
56	Tagging Transferrin Receptor with a Disulfide FRET Probe To Gauge the Redox State in Endosomal Compartments. <i>Analytical Chemistry</i> , 2020, 92, 12460-12466.	6.5	20
57	Site-Specific N-Terminal Labeling of Peptides and Proteins using Butelase-1 and Thiopeptide. <i>Angewandte Chemie</i> , 2015, 127, 15920-15924.	2.0	18
58	Genetic incorporation of 1,2-aminothiol functionality for site-specific protein modification via thiazolidine formation. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5282-5285.	2.8	18
59	Solid-phase synthesis of peptide thioacids through hydrothiolysis of resin-bound peptide thioesters. <i>Tetrahedron Letters</i> , 2008, 49, 6122-6125.	1.4	17
60	Synthesis of histone H3 proteins by a thioacid capture ligation strategy. <i>Chemical Communications</i> , 2011, 47, 1746-1748.	4.1	17
61	Linked Glycosyl Auxiliary-Mediated Native Chemical Ligation on Aspartic Acid: Application towards Glycopeptide Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10363-10367.	13.8	17
62	Progress in Chemical Synthesis of Peptides and Proteins. <i>Transactions of Tianjin University</i> , 2017, 23, 401-419.	6.4	17
63	Engineering protein theranostics using bio-orthogonal asparaginyl peptide ligases. <i>Theranostics</i> , 2021, 11, 5863-5875.	10.0	17
64	An Enzymatic Approach to the Synthesis of Peptide Thioesters: Mechanism and Scope. <i>ChemBioChem</i> , 2007, 8, 1512-1515.	2.6	16
65	A new safety-catch protecting group and linker for solid-phase synthesis. <i>Tetrahedron Letters</i> , 2010, 51, 3218-3220.	1.4	16
66	Chemical Methods for Protein Ubiquitination. <i>Topics in Current Chemistry</i> , 2014, 362, 89-106.	4.0	15
67	Facilitating Subtiligase-Catalyzed Peptide Ligation Reactions by Using Peptide Thioester Substrates. <i>Organic Letters</i> , 2018, 20, 6691-6694.	4.6	15
68	Modulating the Hybridization Property of PNA with a Peptoid-Like Side Chain. <i>Organic Letters</i> , 2009, 11, 2329-2332.	4.6	14
69	Peptide Weinreb amide derivatives as thioester precursors for native chemical ligation. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2491-2496.	2.8	14
70	Enzymatic Engineering of Live Bacterial Cell Surfaces Using Butelase-1. <i>Angewandte Chemie</i> , 2017, 129, 7930-7933.	2.0	12
71	Characterization and application of natural and recombinant butelase-1 to improve industrial enzymes by end-to-end circularization. <i>RSC Advances</i> , 2021, 11, 23105-23112.	3.6	12
72	Butelase 1-Mediated Ligation of Peptides and Proteins. <i>Methods in Molecular Biology</i> , 2019, 2012, 83-109.	0.9	11

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73	Synthesis, conformation, and antibody recognition of peptides built of the sequence of the flap of human renin. <i>Tetrahedron</i> , 1988, 44, 675-683.	1.9	10
74	Preparation and study of derivatives and analogues of the phencyclidine molecule possessing immunosuppressive properties in vitro. <i>European Journal of Medicinal Chemistry</i> , 1990, 25, 609-615.	5.5	10
75	A comparison of folding techniques in the chemical synthesis of the epidermal growth factor-like domain in neu differentiation factor $\hat{1}\hat{2}$. <i>Chemical Biology and Drug Design</i> , 2000, 55, 359-371.	1.1	10
76	The legumain McPAL1 from <i>Momordica cochinchinensis</i> is a highly stable Asx-specific splicing enzyme. <i>Journal of Biological Chemistry</i> , 2021, 297, 101325.	3.4	9
77	Subtiligase as a hydrothiolase for the synthesis of peptide thioacids. <i>Tetrahedron Letters</i> , 2008, 49, 2891-2894.	1.4	7
78	Chemical synthesis of N-peptidyl 2-pyrrolidinemethanethiol for peptide ligation. <i>Tetrahedron Letters</i> , 2013, 54, 3777-3780.	1.4	7
79	Thiazolidin-5-imine Formation as a Catalyst-Free Bioorthogonal Reaction for Protein and Live Cell Labeling. <i>Organic Letters</i> , 2018, 20, 7790-7793.	4.6	7
80	Asparaginyl Endopeptidase-Mediated Protein C-Terminal Hydrazinolysis for the Synthesis of Bioconjugates. <i>Bioconjugate Chemistry</i> , 2022, 33, 238-247.	3.6	6
81	Synthesis of a symmetric branched peptide. Assembly of a cyclic peptide on a small tetraacetate template. <i>Chemical Communications</i> , 1997, , 1619-1620.	4.1	5
82	Assessment of paper tip angular position, carryover, matrix effects and dried blood spot storage effect on paper spray mass spectrometry. <i>Analytical Methods</i> , 2020, 12, 747-757.	2.7	5
83	N ¹³ $\hat{3}$ $\hat{3}$ Hydroxyasparagine: A Multifunctional Unnatural Amino Acid That is a Good P1 Substrate of Asparaginyl Peptide Ligases. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22207-22211.	13.8	5
84	Vypal2: A Versatile Peptide Ligase for Precision Tailoring of Proteins. <i>International Journal of Molecular Sciences</i> , 2022, 23, 458.	4.1	5
85	<i>N</i> -Linked Glycosyl Auxiliary-Mediated Native Chemical Ligation on Aspartic Acid: Application towards Glycopeptide Synthesis. <i>Angewandte Chemie</i> , 2016, 128, 10519-10523.	2.0	4
86	Site-Specific Protein Modifications by an Engineered Asparaginyl Endopeptidase from <i>Viola canadensis</i> . <i>Frontiers in Chemistry</i> , 2021, 9, 768854.	3.6	3
87	PAL-Mediated Ligation for Protein and Cell-Surface Modification. <i>Methods in Molecular Biology</i> , 2022, , 177-193.	0.9	3
88	A new method of N to C sequential ligation using thioacid capture ligation and native chemical ligation. <i>Royal Society Open Science</i> , 2018, 5, 172455.	2.4	2
89	Investigating Glyoxylate-Mediated Transamination Using Dipeptide Arrays and Proteomic Peptide Mixtures. <i>Bioconjugate Chemistry</i> , 2018, 29, 3285-3292.	3.6	1
90	Frontispiece: Chemical and Enzymatic Strategies for Bacterial and Mammalian Cell Surface Engineering. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	1

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91	N ³ -Hydroxyasparagine: A Multifunctional Unnatural Amino Acid That is a Good P1 Substrate of Asparaginyl Peptide Ligases. <i>Angewandte Chemie</i> , 2021, 133, 22381-22385.	2.0	1
92	The Effects of Histone H4 Acetylations in Nucleosome-Nucleosome Interactions and on Chromatin Folding and Fibre-Fibre Association. <i>Biophysical Journal</i> , 2012, 102, 481a.	0.5	0
93	Interactions and Stacking in Ordered Mononucleosomes and Folded Chromatin: Effects of Histone Tail Modifications. <i>Biophysical Journal</i> , 2014, 106, 74a.	0.5	0
94	Immuno-chemical Recognition of Synthetic Peptides Based on the Sequence and Three-dimensional Structure of Human Renin: An Immuno-control of Renin Activity. , 1989, , 423-430.		0
95	Synthesis of a fully active HIV-1 protease analogue by a chemical ligation approach. , 1995, , 23-27.		0
96	Intramolecular orthogonal ligation for the synthesis of cyclic peptides. , 2002, , 235-236.		0