Chuan Fa Liu

List of Publications by Year
in descending order

96	4,457	136740 32	114278 63
papers	citations	h-index	g-index

101	101	101	4371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Asparaginyl Endopeptidase-Mediated Protein C-Terminal Hydrazinolysis for the Synthesis of Bioconjugates. Bioconjugate Chemistry, 2022, 33, 238-247.	1.8	6
2	Vypal2: A Versatile Peptide Ligase for Precision Tailoring of Proteins. International Journal of Molecular Sciences, 2022, 23, 458.	1.8	5
3	PAL-Mediated Ligation for Protein and Cell-Surface Modification. Methods in Molecular Biology, 2022, , 177-193.	0.4	3
4	Characterization and application of natural and recombinant butelase-1 to improve industrial enzymes by end-to-end circularization. RSC Advances, 2021, 11, 23105-23112.	1.7	12
5	Design, Synthesis, and Biological Evaluation of Membrane-Active Bakuchiol Derivatives as Effective Broad-Spectrum Antibacterial Agents. Journal of Medicinal Chemistry, 2021, 64, 5603-5619.	2.9	49
6	pH-Controlled Protein Orthogonal Ligation Using Asparaginyl Peptide Ligases. Journal of the American Chemical Society, 2021, 143, 8704-8712.	6.6	25
7	Histone H4 lysine 20 mono-methylation directly facilitates chromatin openness and promotes transcription of housekeeping genes. Nature Communications, 2021, 12, 4800.	5.8	56
8	N Î³ â€Hydroxyasparagine: A Multifunctional Unnatural Amino Acid That is a Good P1 Substrate of Asparaginyl Peptide Ligases. Angewandte Chemie, 2021, 133, 22381-22385.	1.6	1
9	N Î³ â€Hydroxyasparagine: A Multifunctional Unnatural Amino Acid That is a Good P1 Substrate of Asparaginyl Peptide Ligases. Angewandte Chemie - International Edition, 2021, 60, 22207-22211.	7.2	5
10	Engineering protein theranostics using bio-orthogonal asparaginyl peptide ligases. Theranostics, 2021, 11, 5863-5875.	4.6	17
11	Site-Specific Protein Modifications by an Engineered Asparaginyl Endopeptidase from Viola canadensis. Frontiers in Chemistry, 2021, 9, 768854.	1.8	3
12	The legumain McPAL1 from Momordica cochinchinensis is a highly stable Asx-specific splicing enzyme. Journal of Biological Chemistry, 2021, 297, 101325.	1.6	9
13	Assessment of paper tip angular position, carryover, matrix effects and dried blood spot storage effect on paper spray mass spectrometry. Analytical Methods, 2020, 12, 747-757.	1.3	5
14	Tagging Transferrin Receptor with a Disulfide FRET Probe To Gauge the Redox State in Endosomal Compartments. Analytical Chemistry, 2020, 92, 12460-12466.	3.2	20
15	Turning an Asparaginyl Endopeptidase into a Peptide Ligase. ACS Catalysis, 2020, 10, 8825-8834.	5.5	29
16	Reduction of mNAT1/hNAT2 Contributes to Cerebral Endothelial Necroptosis and AÎ² Accumulation in Alzheimerâ€™s Disease. Cell Reports, 2020, 33, 108447.	2.9	26
17	Thienopyrimidinone Derivatives That Inhibit Bacterial tRNA (Guanine37-N¹)-Methyltransferase (TrmD) by Restructuring the Active Site with a Tyrosine-Flipping Mechanism. Journal of Medicinal Chemistry, 2019, 62, 7788-7805.	2.9	27
18	Quantifying the RNA cap epitranscriptome reveals novel caps in cellular and viral RNA. Nucleic Acids Research, 2019, 47, e130-e130.	6.5	124

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19	Discovery of novel bacterial queuine salvage enzymes and pathways in human pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19126-19135.	3.3	36
20	Butelase 1-Mediated Ligation of Peptides and Proteins. Methods in Molecular Biology, 2019, 2012, 83-109.	0.4	11
21	Structural determinants for peptide-bond formation by asparaginyl ligases. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11737-11746.	3.3	81
22	PARP1 exhibits enhanced association and catalytic efficiency with Î³H2A.X-nucleosome. Nature Communications, 2019, 10, 5751.	5.8	25
23	7-Deazaguanine modifications protect phage DNA from host restriction systems. Nature Communications, 2019, 10, 5442.	5.8	63
24	Chemical and Enzymatic Strategies for Bacterial and Mammalian Cell Surface Engineering. Chemistry - A European Journal, 2018, 24, 8042-8050.	1.7	20
25	Total chemical and semisynthetic approaches for the preparation of ubiquitinated proteins and their applications. Science China Chemistry, 2018, 61, 251-265.	4.2	25
26	Thiazolidin-5-imine Formation as a Catalyst-Free Bioorthogonal Reaction for Protein and Live Cell Labeling. Organic Letters, 2018, 20, 7790-7793.	2.4	7
27	Investigating Glyoxylate-Mediated Transamination Using Dipeptide Arrays and Proteomic Peptide Mixtures. Bioconjugate Chemistry, 2018, 29, 3285-3292.	1.8	1
28	Facilitating Subtiligase-Catalyzed Peptide Ligation Reactions by Using Peptide Thioester Substrates. Organic Letters, 2018, 20, 6691-6694.	2.4	15
29	A new method of N to C sequential ligation using thioacid capture ligation and native chemical ligation. Royal Society Open Science, 2018, 5, 172455.	1.1	2
30	Immobilization and Intracellular Delivery of Circular Proteins by Modifying a Genetically Incorporated Unnatural Amino Acid. Bioconjugate Chemistry, 2018, 29, 2170-2175.	1.8	22
31	Frontispiece: Chemical and Enzymatic Strategies for Bacterial and Mammalian Cell Surface Engineering. Chemistry - A European Journal, 2018, 24, .	1.7	1
32	Peptide Weinreb amide derivatives as thioester precursors for native chemical ligation. Organic and Biomolecular Chemistry, 2017, 15, 2491-2496.	1.5	14
33	Enzymatic Engineering of Live Bacterial Cell Surfaces Using Butelaseâ€...1. Angewandte Chemie, 2017, 129, 7930-7933.	1.6	12
34	Enzymatic Engineering of Live Bacterial Cell Surfaces Using Butelaseâ€...1. Angewandte Chemie - International Edition, 2017, 56, 7822-7825.	7.2	63
35	Regulation of Nucleosome Stacking and Chromatin Compaction by the Histone H4 N-Terminal Tailâ€“H2A Acidic Patch Interaction. Journal of Molecular Biology, 2017, 429, 2075-2092.	2.0	56
36	Thiazolidine-Masked Î±-Oxo Aldehyde Functionality for Peptide and Protein Modification. Bioconjugate Chemistry, 2017, 28, 325-329.	1.8	24

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37	Role of remodeling and spacing factor 1 in histone H2A ubiquitination-mediated gene silencing. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7949-E7958.	3.3	35
38	Progress in Chemical Synthesis of Peptides and Proteins. Transactions of Tianjin University, 2017, 23, 401-419.	3.3	17
39	Identification and Characterization of Roseltide, a Knottin-type Neutrophil Elastase Inhibitor Derived from Hibiscus sabdariffa. Scientific Reports, 2016, 6, 39401.	1.6	35
40	Genetic incorporation of 1,2-aminothiol functionality for site-specific protein modification via thiazolidine formation. Organic and Biomolecular Chemistry, 2016, 14, 5282-5285.	1.5	18
41	5-Methylisoxazole-3-carboxamide-Directed Palladium-Catalyzed Î³-C(sp³)â€“H Acetoxylation and Application to the Synthesis of Î³-Mercapto Amino Acids for Native Chemical Ligation. Organic Letters, 2016, 18, 2696-2699.	2.4	30
42	The Influence of Ionic Environment and Histone Tails on Columnar Order of Nucleosome Core Particles. Biophysical Journal, 2016, 110, 1720-1731.	0.2	27
43	Butelase-mediated cyclization and ligation of peptides and proteins. Nature Protocols, 2016, 11, 1977-1988.	5.5	95
44	Nâ€Linked Glycosyl Auxiliaryâ€Mediated Native Chemical Ligation on Aspartic Acid: Application towards Nâ€Glycopeptide Synthesis. Angewandte Chemie - International Edition, 2016, 55, 10363-10367.	7.2	17
45	Nâ€Linked Glycosyl Auxiliaryâ€Mediated Native Chemical Ligation on Aspartic Acid: Application towards Nâ€Glycopeptide Synthesis. Angewandte Chemie, 2016, 128, 10519-10523.	1.6	4
46	Butelase-Mediated Ligation as an Efficient Bioconjugation Method for the Synthesis of Peptide Dendrimers. Bioconjugate Chemistry, 2016, 27, 2592-2596.	1.8	40
47	Semisynthetic UbH2A reveals different activities of deubiquitinases and inhibitory effects of H2A K119 ubiquitination on H3K36 methylation in mononucleosomes. Organic and Biomolecular Chemistry, 2016, 14, 835-839.	1.5	36
48	Siteâ€Specific Nâ€Terminal Labeling of Peptides and Proteins using Butelaseâ€...1 and Thiodepsipeptide. Angewandte Chemie, 2015, 127, 15920-15924.	1.6	18
49	Siteâ€Specific Nâ€Terminal Labeling of Peptides and Proteins using Butelaseâ€...1 and Thiodepsipeptide. Angewandte Chemie - International Edition, 2015, 54, 15694-15698.	7.2	82
50	Auxiliary-Directed Pd-Catalyzed Î³-C(sp³)â€“H Bond Activation of Î±-Aminobutanoic Acid Derivatives. Organic Letters, 2015, 17, 6094-6097.	2.4	50
51	High-resolution HDX-MS reveals distinct mechanisms of RNA recognition and activation by RIG-I and MDA5. Nucleic Acids Research, 2015, 43, 1216-1230.	6.5	45
52	Application of paper sprayâ€“MS in PK studies using sunitinib and benzethonium as model compounds. Bioanalysis, 2015, 7, 413-423.	0.6	21
53	Butelase-mediated synthesis of protein thioesters and its application for tandem chemoenzymatic ligation. Chemical Communications, 2015, 51, 17289-17292.	2.2	68
54	Ambient ionization MS for bioanalysis: recent developments and challenges. Bioanalysis, 2015, 7, 1901-1923.	0.6	26

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55	ISWI Remodelling of Physiological Chromatin Fibres Acetylated at Lysine 16 of Histone H4. PLoS ONE, 2014, 9, e88411.	1.1	24
56	Chemical Methods for Protein Ubiquitination. Topics in Current Chemistry, 2014, 362, 89-106.	4.0	15
57	Native chemical ubiquitination using a genetically incorporated azidonorleucine. Chemical Communications, 2014, 50, 7971-7974.	2.2	37
58	Interactions and Stacking in Ordered Mononucleosomes and Folded Chromatin: Effects of Histone Tail Modifications. Biophysical Journal, 2014, 106, 74a.	0.2	0
59	Facile Synthesis of Peptidyl Salicylaldehyde Esters and Its Use in Cyclic Peptide Synthesis. Organic Letters, 2013, 15, 5182-5185.	2.4	29
60	Chemical synthesis of N-peptidyl 2-pyrrolidinemethanethiol for peptide ligation. Tetrahedron Letters, 2013, 54, 3777-3780.	0.7	7
61	N-to-C Sequential Ligation Using Peptidyl N,N-Bis(2-mercaptoethyl)amide Building Blocks. Organic Letters, 2012, 14, 374-377.	2.4	31
62	The Effectcs of Histone H4 Acetylations in Nucleosome-Nucleosome Interactions and on Chromatin Folding and Fibre-Fibre Association. Biophysical Journal, 2012, 102, 481a.	0.2	0
63	The effects of histone H4 tail acetylations on cation-induced chromatin folding and self-association. Nucleic Acids Research, 2011, 39, 1680-1691.	6.5	178
64	Synthesis of histone H3 proteins by a thioacid capture ligation strategy. Chemical Communications, 2011, 47, 1746-1748.	2.2	17
65	Metabolic Regulation of Protein N-Alpha-Acetylation by Bcl-xL Promotes Cell Survival. Cell, 2011, 146, 607-620.	13.5	185
66	Influence of Histone Tails and H4 Tail Acetylations on Nucleosomeâ€“Nucleosome Interactions. Journal of Molecular Biology, 2011, 414, 749-764.	2.0	62
67	Peptidyl N,N-Bis(2-mercaptoethyl)-amides as Thioester Precursors for Native Chemical Ligation. Organic Letters, 2011, 13, 386-389.	2.4	100
68	A Direct Method for Siteâ€Specific Protein Acetylation. Angewandte Chemie - International Edition, 2011, 50, 9611-9614.	7.2	124
69	A new safety-catch protecting group and linker for solid-phase synthesis. Tetrahedron Letters, 2010, 51, 3218-3220.	0.7	16
70	Synthesis of K48-linked diubiquitin using dual native chemical ligation at lysine. Chemical Communications, 2010, 46, 7199.	2.2	76
71	Lysine Acetylation Is a Highly Abundant and Evolutionarily Conserved Modification in Escherichia Coli. Molecular and Cellular Proteomics, 2009, 8, 215-225.	2.5	450
72	Synthesis of 4-mercapto-l-lysine derivatives: Potential building blocks for sequential native chemical ligation. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6268-6271.	1.0	40

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73	Modulating the Hybridization Property of PNA with a Peptoid-Like Side Chain. Organic Letters, 2009, 11, 2329-2332.	2.4	14
74	Dual Native Chemical Ligation at Lysine. Journal of the American Chemical Society, 2009, 131, 13592-13593.	6.6	246
75	Protein C-Terminal Modification through Thioacid/Azide Amidation. Bioconjugate Chemistry, 2009, 20, 197-200.	1.8	68
76	A Simple Method for Preparing Peptide Câ€Terminal Thioacids and Their Application in Sequential Chemoenzymatic Ligation. ChemBioChem, 2008, 9, 1052-1056.	1.3	24
77	Subtiligase as a hydrothiolase for the synthesis of peptide thioacids. Tetrahedron Letters, 2008, 49, 2891-2894.	0.7	7
78	Solid-phase synthesis of peptide thioacids through hydrothiolysis of resin-bound peptide thioesters. Tetrahedron Letters, 2008, 49, 6122-6125.	0.7	17
79	An Enzymatic Approach to the Synthesis of Peptide Thioesters: Mechanism and Scope. ChemBioChem, 2007, 8, 1512-1515.	1.3	16
80	Intramolecular orthogonal ligation for the synthesis of cyclic peptides. , 2002, , 235-236.		0
81	Subtilisin-Catalyzed Synthesis of Amino Acid and Peptide Esters. Application in a Two-Step Enzymatic Ligation Strategy. Organic Letters, 2001, 3, 4157-4159.	2.4	20
82	A comparison of folding techniques in the chemical synthesis of the epidermal growth factor-like domain in neu differentiation factor Î±/Î². Chemical Biology and Drug Design, 2000, 55, 359-371.	1.2	10
83	Structure of a human DNA repair protein UBA domain that interacts with HIV-1 Vpr. Nature Structural Biology, 1998, 5, 1042-1047.	9.7	121
84	Lanthionine macrocyclization by in situ activation of serine. Chemical Biology and Drug Design, 1998, 51, 432-436.	1.2	27
85	Synthesis of a symmetric branched peptide. Assembly of a cyclic peptide on a small tetraacetate template. Chemical Communications, 1997, , 1619-1620.	2.2	5
86	Orthogonal Ligation of Unprotected Peptide Segments through Pseudoproline Formation for the Synthesis of HIV-1 Protease Analogs,. Journal of the American Chemical Society, 1996, 118, 307-312.	6.6	86
87	Acyl disulfide-mediated intramolecular acylation for orthogonal coupling between unprotected peptide segments. Mechanism and application. Tetrahedron Letters, 1996, 37, 933-936.	0.7	57
88	Peptide synthesis using unprotected peptides through orthogonal coupling methods.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 12485-12489.	3.3	249
89	Improved solid phase synthesis of C-terminal peptide aldehydes. Tetrahedron Letters, 1995, 36, 7871-7874.	0.7	82
90	Specificity and formation of unusual amino acids of an amide ligation strategy for unprotected peptides. International Journal of Peptide and Protein Research, 1995, 45, 209-216.	0.1	24

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91	Synthesis of a fully active HIV-1 protease analogue by a chemical ligation approach. , 1995, , 23-27.		0
92	Chemical Ligation Approach To Form a Peptide Bond between Unprotected Peptide Segments. Concept and Model Study. Journal of the American Chemical Society, 1994, 116, 4149-4153.	6.6	176
93	Peptide segment ligation strategy without use of protecting groups.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 6584-6588.	3.3	202
94	Preparation and study of derivatives and analogues of the phencyclidine molecule possessing immunosuppressive properties in vitro. European Journal of Medicinal Chemistry, 1990, 25, 609-615.	2.6	10
95	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
96	Synthesis, conformation, and antibody recognition of peptides built of the sequence of the flap of human renin. Tetrahedron, 1988, 44, 675-683.	1.0	10