

Xinya Hemu

List of Publications by Year in descending order

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72
papers

4,569
citations

94433

37
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110387

64
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73
all docs

73
docs citations

73
times ranked

3010
citing authors

#	ARTICLE	IF	CITATIONS
1	Butelase 1 is an Asx-specific ligase enabling peptide macrocyclization and synthesis. <i>Nature Chemical Biology</i> , 2014, 10, 732-738.	8.0	348
2	Antimicrobial dendrimeric peptides. <i>FEBS Journal</i> , 2002, 269, 923-932.	0.2	208
3	Orally Active Peptidic Bradykinin B ₁ Receptor Antagonists Engineered from a Cyclotide Scaffold for Inflammatory Pain Treatment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5620-5624.	13.8	208
4	Synthesis and Application of Unprotected Cyclic Peptides as Building Blocks for Peptide Dendrimers. <i>Journal of the American Chemical Society</i> , 1997, 119, 2363-2370.	13.7	197
5	Methods and strategies of peptide ligation. <i>Biopolymers</i> , 2001, 60, 194-205.	2.4	182
6	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
7	Discovery and Characterization of Novel Cyclotides Originated from Chimeric Precursors Consisting of Albumin-1 Chain a and Cyclotide Domains in the Fabaceae Family. <i>Journal of Biological Chemistry</i> , 2011, 286, 24275-24287.	3.4	153
8	Engineering a Catalytically Efficient Recombinant Protein Ligase. <i>Journal of the American Chemical Society</i> , 2017, 139, 5351-5358.	13.7	153
9	Butelase 1: A Versatile Ligase for Peptide and Protein Macrocyclization. <i>Journal of the American Chemical Society</i> , 2015, 137, 15398-15401.	13.7	147
10	Thia Zip Reaction for Synthesis of Large Cyclic Peptides: Mechanisms and Applications. <i>Journal of the American Chemical Society</i> , 1999, 121, 4316-4324.	13.7	139
11	Orthogonal ligation strategies for peptide and protein. , 1999, 51, 311-332.		136
12	A biomimetic strategy in the synthesis and fragmentation of cyclic protein. <i>Protein Science</i> , 1998, 7, 1583-1592.	7.6	120
13	Methionine ligation strategy in the biomimetic synthesis of parathyroid hormones. , 1998, 46, 319-327.		112
14	Preparation of functionally active cell-permeable peptides by single-step ligation of two peptide modules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 9184-9189.	7.1	99
15	Discovery of Linear Cyclotides in Monocot Plant <i>Panicum laxum</i> of Poaceae Family Provides New Insights into Evolution and Distribution of Cyclotides in Plants. <i>Journal of Biological Chemistry</i> , 2013, 288, 3370-3380.	3.4	99
16	Self-powered, on-demand transdermal drug delivery system driven by triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 62, 610-619.	16.0	99
17	Butelase-mediated cyclization and ligation of peptides and proteins. <i>Nature Protocols</i> , 2016, 11, 1977-1988.	12.0	95
18	Total Synthesis of Circular Bacteriocins by Butelase 1. <i>Journal of the American Chemical Society</i> , 2016, 138, 6968-6971.	13.7	90

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19	Synthesis of large cyclic cystine-knot peptide by orthogonal coupling strategy using unprotected peptide precursor. <i>Tetrahedron Letters</i> , 1997, 38, 5599-5602.	1.4	87
20	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
21	Butelase-Mediated Macrocyclization of α -Amino Acid-Containing Peptides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12802-12806.	13.8	82
22	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
23	Novel Cyclotides and Uncyclotides with Highly Shortened Precursors from <i>Chassalia chartacea</i> and Effects of Methionine Oxidation on Bioactivities. <i>Journal of Biological Chemistry</i> , 2012, 287, 17598-17607.	3.4	72
24	One-Pot Dual Labeling of IgG 1 and Preparation of C-to-C Fusion Proteins Through a Combination of Sortase A and Butelase 1. <i>Bioconjugate Chemistry</i> , 2018, 29, 3245-3249.	3.6	72
25	Membranolytic selectivity of cystine-stabilized cyclic protegrins. <i>FEBS Journal</i> , 2000, 267, 3289-3300.	0.2	69
26	Butelase-mediated synthesis of protein thioesters and its application for tandem chemoenzymatic ligation. <i>Chemical Communications</i> , 2015, 51, 17289-17292.	4.1	68
27	Enzymatic Engineering of Live Bacterial Cell Surfaces Using Butelase...1. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7822-7825.	13.8	63
28	Orthogonal coupling of unprotected peptide segments through histidyl amino terminus. <i>Tetrahedron Letters</i> , 1997, 38, 3-6.	1.4	61
29	Chemical Synthesis of Circular Proteins. <i>Journal of Biological Chemistry</i> , 2012, 287, 27020-27025.	3.4	59
30	Two-step selective formation of three disulfide bridges in the synthesis of the C-terminal epidermal growth factor-like domain in human blood coagulation factor IX. <i>Protein Science</i> , 1994, 3, 1267-1275.	7.6	57
31	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
32	Correlations of Cationic Charges with Salt Sensitivity and Microbial Specificity of Cystine-stabilized β -Strand Antimicrobial Peptides. <i>Journal of Biological Chemistry</i> , 2002, 277, 50450-50456.	3.4	55
33	A Thioethylalkylamido (TEA) Thioester Surrogate in the Synthesis of a Cyclic Peptide via a Tandem Acyl Shift. <i>Organic Letters</i> , 2013, 15, 2620-2623.	4.6	54
34	Optimal Oxidative Folding of the Novel Antimicrobial Cyclotide from <i>Hedyotis biflora</i> Requires High Alcohol Concentrations. <i>Biochemistry</i> , 2011, 50, 7275-7283.	2.5	52
35	Immunostimulating and Gram-negative-specific antibacterial cyclotides from the butterfly pea (<i>Clitoria ternatea</i>). <i>FEBS Journal</i> , 2016, 283, 2067-2090.	4.7	49
36	A high-throughput peptidomic strategy to decipher the molecular diversity of cyclic cysteine-rich peptides. <i>Scientific Reports</i> , 2016, 6, 23005.	3.3	48

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37	Marked Increase in Membranolytic Selectivity of Novel Cyclic Tachyplesins Constrained with an Antiparallel Two- β Strand Cystine Knot Framework. <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 783-790.	2.1	47
38	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
39	An Orally Active Bradykinin B ₁ Receptor Antagonist Engineered as a Bifunctional Chimera of Sunflower Trypsin Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 504-510.	6.4	39
40	Biomimetic synthesis of cyclic peptides using novel thioester surrogates. <i>Biopolymers</i> , 2013, 100, 492-501.	2.4	36
41	A novel strategy for the discrimination of gelatinous Chinese medicines based on enzymatic digestion followed by nano-flow liquid chromatography in tandem with orbitrap mass spectrum detection. <i>International Journal of Nanomedicine</i> , 2015, 10, 4947.	6.7	35
42	Design of Salt-Insensitive Glycine-Rich Antimicrobial Peptides with Cyclic Tricystine Structures. <i>Biochemistry</i> , 2000, 39, 7159-7169.	2.5	31
43	Dementia-linked amyloidosis is associated with brain protein deamidation as revealed by proteomic profiling of human brain tissues. <i>Molecular Brain</i> , 2016, 9, 20.	2.6	30
44	Bleogens: Cactus-Derived Anti-Candida Cysteine-Rich Peptides with Three Different Precursor Arrangements. <i>Frontiers in Plant Science</i> , 2017, 8, 2162.	3.6	30
45	Turning an Asparaginyl Endopeptidase into a Peptide Ligase. <i>ACS Catalysis</i> , 2020, 10, 8825-8834.	11.2	29
46	Solid-Phase Synthesis of 1,2,3,4-Tetrahydro- β -carboline-Containing Peptidomimetics. <i>Organic Letters</i> , 2000, 2, 3075-3078.	4.6	27
47	A Facile Ligation Approach to Prepare Three-Helix Bundles of HIV Fusion-State Protein Mimetics. <i>Organic Letters</i> , 2002, 4, 4167-4170.	4.6	25
48	pH-Controlled Protein Orthogonal Ligation Using Asparaginyl Peptide Ligases. <i>Journal of the American Chemical Society</i> , 2021, 143, 8704-8712.	13.7	25
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	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
51	Macrocytic Antimicrobial Peptides Engineered from β -Conotoxin. <i>Current Pharmaceutical Design</i> , 2017, 23, 2131-2138.	1.9	21
52	Immobilized Peptide Asparaginyl Ligases Enhance Stability and Facilitate Macrocyclization and Site-Specific Ligation. <i>Journal of Organic Chemistry</i> , 2020, 85, 1504-1512.	3.2	19
53	Peptide asparaginyl ligases—renegade peptide bond makers. <i>Science China Chemistry</i> , 2020, 63, 296-307.	8.2	19
54	Pulsed SILAC-based proteomic analysis unveils hypoxia- and serum starvation-induced <i>de novo</i> protein synthesis with PHD finger protein 14 (PHF14) as a hypoxia sensitive epigenetic regulator in cell cycle progression. <i>Oncotarget</i> , 2019, 10, 2136-2150.	1.8	19

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55	Engineering protein theranostics using bio-orthogonal asparaginyl peptide ligases. <i>Theranostics</i> , 2021, 11, 5863-5875.	10.0	17
56	Ligase-Controlled Cyclo-oligomerization of Peptides. <i>Organic Letters</i> , 2019, 21, 2029-2032.	4.6	13
57	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
58	Quantitative analysis and comparison of four major flavonol glycosides in the leaves of <i>Toona sinensis</i> (A. Juss.) roemer (chinese toon) from various origins by high-performance liquid chromatography-diode array detector and hierarchical clustering analysis. <i>Pharmacognosy Magazine</i> , 2016, 12, 270.	0.6	11
59	Solvent assistance in regiospecific disulfide formation in dimethylsulfoxide. <i>International Journal of Peptide Research and Therapeutics</i> , 1999, 6, 265-273.	0.1	10
60	Hololectin Interdomain Linker Determines Asparaginyl Endopeptidase-Mediated Maturation of Antifungal Hevein-Like Peptides in Oats. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	10
61	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
62	Peptide macrocyclization through amide-to-amide transpeptidation. <i>Tetrahedron</i> , 2014, 70, 7707-7713.	1.9	6
63	Asparaginyl Endopeptidase-Mediated Protein C-Terminal Hydrazinolysis for the Synthesis of Bioconjugates. <i>Bioconjugate Chemistry</i> , 2022, 33, 238-247.	3.6	6
64	Selective Bi-directional Amide Bond Cleavage of <i>N</i> -Methylcysteinyl Peptide. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4370-4380.	2.4	5
65	<i>N</i> 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
66	Vypal2: A Versatile Peptide Ligase for Precision Tailoring of Proteins. <i>International Journal of Molecular Sciences</i> , 2022, 23, 458.	4.1	5
67	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
68	PAL-Mediated Ligation for Protein and Cell-Surface Modification. <i>Methods in Molecular Biology</i> , 2022, , 177-193.	0.9	3
69	Mimicking Reverse Protein Splicing by Three-Segment Tandem Peptide Ligation. <i>Protein and Peptide Letters</i> , 2005, 12, 743-749.	0.9	1
70	<i>N</i> 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
71	Solvent assistance in regiospecific disulfide formation in dimethylsulfoxide. <i>International Journal of Peptide Research and Therapeutics</i> , 1999, 6, 265-273.	0.1	0
72	Shape-mimetics of G-protein-coupled receptors in therapeutic drug design and screening. <i>Drug Development Research</i> , 2004, 62, 336-348.	2.9	0