

Xinya Hemu

List of Publications by Year in descending order

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72
papers

4,569
citations

108046

37
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124990

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73
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docs citations

73
times ranked

3339
citing authors

#	ARTICLE	IF	CITATIONS
1	Asparaginyl Endopeptidase-Mediated Protein C-Terminal Hydrazinolysis for the Synthesis of Bioconjugates. <i>Bioconjugate Chemistry</i> , 2022, 33, 238-247.	1.8	6
2	Vypal2: A Versatile Peptide Ligase for Precision Tailoring of Proteins. <i>International Journal of Molecular Sciences</i> , 2022, 23, 458.	1.8	5
3	Hololectin Interdomain Linker Determines Asparaginyl Endopeptidase-Mediated Maturation of Antifungal Hevein-Like Peptides in Oats. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	10
4	PAL-Mediated Ligation for Protein and Cell-Surface Modification. <i>Methods in Molecular Biology</i> , 2022, , 177-193.	0.4	3
5	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.	1.7	12
6	pH-Controlled Protein Orthogonal Ligation Using Asparaginyl Peptide Ligases. <i>Journal of the American Chemical Society</i> , 2021, 143, 8704-8712.	6.6	25
7	N ¹³ â€Hydroxyasparagine: A Multifunctional Unnatural Amino Acid That is a Good P1 Substrate of Asparaginyl Peptide Ligases. <i>Angewandte Chemie</i> , 2021, 133, 22381-22385.	1.6	1
8	N ¹³ â€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.	7.2	5
9	Engineering protein theranostics using bio-orthogonal asparaginyl peptide ligases. <i>Theranostics</i> , 2021, 11, 5863-5875.	4.6	17
10	Site-Specific Protein Modifications by an Engineered Asparaginyl Endopeptidase from <i>Viola canadensis</i> . <i>Frontiers in Chemistry</i> , 2021, 9, 768854.	1.8	3
11	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.	1.6	9
12	Immobilized Peptide Asparaginyl Ligases Enhance Stability and Facilitate Macrocyclization and Site-Specific Ligation. <i>Journal of Organic Chemistry</i> , 2020, 85, 1504-1512.	1.7	19
13	Turning an Asparaginyl Endopeptidase into a Peptide Ligase. <i>ACS Catalysis</i> , 2020, 10, 8825-8834.	5.5	29
14	Peptide asparaginyl ligasesâ€renegade peptide bond makers. <i>Science China Chemistry</i> , 2020, 63, 296-307.	4.2	19
15	Self-powered, on-demand transdermal drug delivery system driven by triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 62, 610-619.	8.2	99
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.	3.3	81
17	Ligase-Controlled Cyclo-oligomerization of Peptides. <i>Organic Letters</i> , 2019, 21, 2029-2032.	2.4	13
18	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.	0.8	19

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19	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.	1.8	72
20	Immobilization and Intracellular Delivery of Circular Proteins by Modifying a Genetically Incorporated Unnatural Amino Acid. <i>Bioconjugate Chemistry</i> , 2018, 29, 2170-2175.	1.8	22
21	Engineering a Catalytically Efficient Recombinant Protein Ligase. <i>Journal of the American Chemical Society</i> , 2017, 139, 5351-5358.	6.6	153
22	Enzymatic Engineering of Live Bacterial Cell Surfaces Using Butelase 1. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7822-7825.	7.2	63
23	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.	2.9	39
24	Bleogens: Cactus-Derived Anti-Candida Cysteine-Rich Peptides with Three Different Precursor Arrangements. <i>Frontiers in Plant Science</i> , 2017, 8, 2162.	1.7	30
25	Macrocyclic Antimicrobial Peptides Engineered from β -Conotoxin. <i>Current Pharmaceutical Design</i> , 2017, 23, 2131-2138.	0.9	21
26	Immunostimulating and Gram-negative-specific antibacterial cyclotides from the butterfly pea (<i>Clitoria ternatea</i>). <i>FEBS Journal</i> , 2016, 283, 2067-2090.	2.2	49
27	Butelase-mediated cyclization and ligation of peptides and proteins. <i>Nature Protocols</i> , 2016, 11, 1977-1988.	5.5	95
28	Butelase-Mediated Macrocyclization of α -Amino Acid-Containing Peptides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12802-12806.	7.2	82
29	Butelase-Mediated Ligation as an Efficient Bioconjugation Method for the Synthesis of Peptide Dendrimers. <i>Bioconjugate Chemistry</i> , 2016, 27, 2592-2596.	1.8	40
30	A high-throughput peptidomic strategy to decipher the molecular diversity of cyclic cysteine-rich peptides. <i>Scientific Reports</i> , 2016, 6, 23005.	1.6	48
31	Total Synthesis of Circular Bacteriocins by Butelase 1. <i>Journal of the American Chemical Society</i> , 2016, 138, 6968-6971.	6.6	90
32	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.	1.3	30
33	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.	0.3	11
34	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.	3.3	35
35	Butelase 1: A Versatile Ligase for Peptide and Protein Macrocyclization. <i>Journal of the American Chemical Society</i> , 2015, 137, 15398-15401.	6.6	147
36	Butelase-mediated synthesis of protein thioesters and its application for tandem chemoenzymatic ligation. <i>Chemical Communications</i> , 2015, 51, 17289-17292.	2.2	68

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37	Selective Biâ€directional Amide Bond Cleavage of <i>N</i>â€Methylcysteinyl Peptide. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4370-4380.	1.2	5
38	Butelase 1 is an Asx-specific ligase enabling peptide macrocyclization and synthesis. <i>Nature Chemical Biology</i> , 2014, 10, 732-738.	3.9	348
39	Peptide macrocyclization through amide-to-amide transpeptidation. <i>Tetrahedron</i> , 2014, 70, 7707-7713.	1.0	6
40	Biomimetic synthesis of cyclic peptides using novel thioester surrogates. <i>Biopolymers</i> , 2013, 100, 492-501.	1.2	36
41	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.	2.4	54
42	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.	1.6	99
43	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.	1.6	72
44	Chemical Synthesis of Circular Proteins. <i>Journal of Biological Chemistry</i> , 2012, 287, 27020-27025.	1.6	59
45	Orally Active Peptidic Bradykinin B₁â€Receptor Antagonists Engineered from a Cyclotide Scaffold for Inflammatory Pain Treatment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5620-5624.	7.2	208
46	Optimal Oxidative Folding of the Novel Antimicrobial Cyclotide from <i>Hedyotis biflora</i> Requires High Alcohol Concentrations. <i>Biochemistry</i> , 2011, 50, 7275-7283.	1.2	52
47	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.	1.6	153
48	Mimicking Reverse Protein Splicing by Three-Segment Tandem Peptide Ligation. <i>Protein and Peptide Letters</i> , 2005, 12, 743-749.	0.4	1
49	Shape-mimetics of G-protein-coupled receptors in therapeutic drug design and screening. <i>Drug Development Research</i> , 2004, 62, 336-348.	1.4	0
50	Correlations of Cationic Charges with Salt Sensitivity and Microbial Specificity of Cystine-stabilized Î2-Strand Antimicrobial Peptides. <i>Journal of Biological Chemistry</i> , 2002, 277, 50450-50456.	1.6	55
51	A Facile Ligation Approach to Prepare Three-Helix Bundles of HIV Fusion-State Protein Mimetics. <i>Organic Letters</i> , 2002, 4, 4167-4170.	2.4	25
52	Antimicrobial dendrimeric peptides. <i>FEBS Journal</i> , 2002, 269, 923-932.	0.2	208
53	Methods and strategies of peptide ligation. <i>Biopolymers</i> , 2001, 60, 194-205.	1.2	182
54	Membranolytic selectivity of cystine-stabilized cyclic protegrins. <i>FEBS Journal</i> , 2000, 267, 3289-3300.	0.2	69

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55	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.	1.0	47
56	Solid-Phase Synthesis of 1,2,3,4-Tetrahydro- β -carboline-Containing Peptidomimetics. <i>Organic Letters</i> , 2000, 2, 3075-3078.	2.4	27
57	Design of Salt-Insensitive Glycine-Rich Antimicrobial Peptides with Cyclic Tricystine Structures. <i>Biochemistry</i> , 2000, 39, 7159-7169.	1.2	31
58	Solvent assistance in regiospecific disulfide formation in dimethylsulfoxide. <i>International Journal of Peptide Research and Therapeutics</i> , 1999, 6, 265-273.	0.1	0
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	Orthogonal ligation strategies for peptide and protein. , 1999, 51, 311-332.		136
61	Thia Zip Reaction for Synthesis of Large Cyclic Peptides: Mechanisms and Applications. <i>Journal of the American Chemical Society</i> , 1999, 121, 4316-4324.	6.6	139
62	Methionine ligation strategy in the biomimetic synthesis of parathyroid hormones. , 1998, 46, 319-327.		112
63	A biomimetic strategy in the synthesis and fragmentation of cyclic protein. <i>Protein Science</i> , 1998, 7, 1583-1592.	3.1	120
64	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.	3.3	99
65	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.	6.6	197
66	Orthogonal coupling of unprotected peptide segments through histidyl amino terminus. <i>Tetrahedron Letters</i> , 1997, 38, 3-6.	0.7	61
67	Synthesis of large cyclic cystine-knot peptide by orthogonal coupling strategy using unprotected peptide precursor. <i>Tetrahedron Letters</i> , 1997, 38, 5599-5602.	0.7	87
68	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.	6.6	86
69	Acyl disulfide-mediated intramolecular acylation for orthogonal coupling between unprotected peptide segments. Mechanism and application. <i>Tetrahedron Letters</i> , 1996, 37, 933-936.	0.7	57
70	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
71	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.	3.1	57
72	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.	6.6	176