

Zhimeng Wu

List of Publications by Year in descending order

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39
papers

1,273
citations

516710

16
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

1460
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemoenzymatic Glycoengineering of Intact IgG Antibodies for Gain of Functions. <i>Journal of the American Chemical Society</i> , 2012, 134, 12308-12318.	13.7	272
2	Chemoenzymatic Synthesis and Fc γ 3 Receptor Binding of Homogeneous Glycoforms of Antibody Fc Domain. Presence of a Bisecting Sugar Moiety Enhances the Affinity of Fc to Fc γ 3IIIa Receptor. <i>Journal of the American Chemical Society</i> , 2011, 133, 18975-18991.	13.7	135
3	One-pot N-glycosylation remodeling of IgG with non-natural sialylglycopeptides enables glycosite-specific and dual-payload antibody-drug conjugates. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 9501-9518.	2.8	88
4	Chemoenzymatic synthesis of glycoengineered IgG antibodies and glycosite-specific antibody-drug conjugates. <i>Nature Protocols</i> , 2017, 12, 1702-1721.	12.0	87
5	Hyaluronan decoration of milk exosomes directs tumor-specific delivery of doxorubicin. <i>Carbohydrate Research</i> , 2020, 493, 108032.	2.3	76
6	Potent neutralizing nanobodies resist convergent circulating variants of SARS-CoV-2 by targeting diverse and conserved epitopes. <i>Nature Communications</i> , 2021, 12, 4676.	12.8	74
7	Sortase A-Catalyzed Transpeptidation of Glycosylphosphatidylinositol Derivatives for Chemoenzymatic Synthesis of GPI-Anchored Proteins. <i>Journal of the American Chemical Society</i> , 2010, 132, 1567-1571.	13.7	72
8	Sortase A-catalyzed peptide cyclization for the synthesis of macrocyclic peptides and glycopeptides. <i>Chemical Communications</i> , 2011, 47, 9218.	4.1	71
9	New Method for Site-Specific Modification of Liposomes with Proteins Using Sortase A-Mediated Transpeptidation. <i>Bioconjugate Chemistry</i> , 2012, 23, 650-655.	3.6	40
10	Sortase-Mediated Transpeptidation for Site-Specific Modification of Peptides, Glycopeptides, and Proteins. <i>Journal of Carbohydrate Chemistry</i> , 2012, 31, 48-66.	1.1	35
11	Comprehensive Analysis of the Glycome and Glycoproteome of Bovine Milk-Derived Exosomes. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 12692-12701.	5.2	29
12	Site-specific C-terminal dinitrophenylation to reconstitute the antibody Fc functions for nanobodies. <i>Chemical Science</i> , 2019, 10, 9331-9338.	7.4	25
13	Sortase A-mediated chemoenzymatic synthesis of complex glycosylphosphatidylinositol-anchored protein. <i>Chemical Communications</i> , 2013, 49, 11689.	4.1	23
14	Nanobody-Engineered Natural Killer Cell Conjugates for Solid Tumor Adoptive Immunotherapy. <i>Small</i> , 2021, 17, e2103463.	10.0	20
15	Efficient expression of sortase A from <i>Staphylococcus aureus</i> in <i>Escherichia coli</i> and its enzymatic characterizations. <i>Bioresources and Bioprocessing</i> , 2017, 4, 13.	4.2	18
16	Universal endogenous antibody recruiting nanobodies capable of triggering immune effectors for targeted cancer immunotherapy. <i>Chemical Science</i> , 2021, 12, 4623-4630.	7.4	18
17	Design and synthesis of novel dual-cyclic RGD peptides for $\alpha_5\beta_3$ integrin targeting. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 896-900.	2.2	17
18	Rhamnose modified bovine serum albumin as a carrier protein promotes the immune response against sTn antigen. <i>Chemical Communications</i> , 2020, 56, 13959-13962.	4.1	16

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19	One-step purification and immobilization of extracellularly expressed sortase A by magnetic particles to develop a robust and recyclable biocatalyst. <i>Scientific Reports</i> , 2017, 7, 6561.	3.3	14
20	Enzymatic On-Resin Peptide Cleavage and in Situ Cyclization One-Pot Strategy for the Synthesis of Cyclopeptide and Cyclotide. <i>Journal of Organic Chemistry</i> , 2018, 83, 14078-14083.	3.2	12
21	Chemoenzymatic Synthesis of the Human CD52 and CD24 Antigen Analogues. <i>Organic Letters</i> , 2013, 15, 5906-5908.	4.6	11
22	MUC1 vaccines using β -cyclodextrin grafted chitosan (CS-g-CD) as carrier via host-guest interaction elicit robust immune responses. <i>Chinese Chemical Letters</i> , 2022, 33, 4882-4885.	9.0	11
23	New potent and selective α 5 β 1 integrin ligands: Macrocyclic peptides containing RGD motif synthesized by sortase A-mediated ligation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 1911-1913.	2.2	10
24	Sortase A-mediated on-resin peptide cleavage and in situ ligation: an efficient one-pot strategy for the synthesis of functional peptides and proteins. <i>Organic Chemistry Frontiers</i> , 2017, 4, 2058-2062.	4.5	10
25	Sortase A-mediated crosslinked short-chain dehydrogenases/reductases as novel biocatalysts with improved thermostability and catalytic efficiency. <i>Scientific Reports</i> , 2017, 7, 3081.	3.3	10
26	A new strategy for synthesis of branched cyclic peptide by Asn side-chain hydrazide ligation. <i>Chinese Chemical Letters</i> , 2015, 26, 946-950.	9.0	9
27	Dinitrophenol-mediated modulation of an anti-PD-L1 VHH for Fc-dependent effector functions and prolonged serum half-life. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 165, 105941.	4.0	9
28	Exendin 4-Hapten Conjugate Capable of Binding with Endogenous Antibodies for Peptide Half-life Extension and Exerting Long-Acting Hypoglycemic Activity. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 4947-4959.	6.4	8
29	Chemical Synthesis of Antibody-Hapten Conjugates Capable of Recruiting the Endogenous Antibody to Magnify the Fc Effector Immunity of Antibody for Cancer Immunotherapy. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 323-332.	6.4	8
30	Site-selective modification of exendin 4 with variable molecular weight dextrans by oxime-ligation chemistry for improving type 2 diabetic treatment. <i>Carbohydrate Polymers</i> , 2020, 249, 116864.	10.2	7
31	Synthesis of DNP-modified GM3-based anticancer vaccine and evaluation of its immunological activities for cancer immunotherapy. <i>Chinese Chemical Letters</i> , 2021, 32, 4041-4044.	9.0	7
32	Dinitrophenol-Hyaluronan Conjugates as Multivalent Antibody-Recruiting Glycopolymers for Targeted Cancer Immunotherapy. <i>ChemMedChem</i> , 2021, 16, 2960-2968.	3.2	7
33	Nanobody-Based Bispecific Neutralizer for Shiga Toxin-Producing <i>E. coli</i> . <i>ACS Infectious Diseases</i> , 2022, 8, 321-329.	3.8	6
34	Aspartic Acid Side-Chain Benzyl Ester as a Multifunctionalization Precursor for Synthesis of Branched and Cyclic Arginylglycylaspartic Acid Peptides. <i>Synlett</i> , 2017, 28, 1966-1970.	1.8	5
35	β -Galactosidase-dependent metabolic glycoengineering of tumor cells for imaging and immunotherapy. <i>Chemical Communications</i> , 2022, 58, 2568-2571.	4.1	5
36	Efficient extracellular expression of transpeptidase sortase A in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2017, 133, 132-138.	1.3	3

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37	Immobilization of Staphylococcus aureus Sortase A on Chitosan Particles and Its Applications in Peptide-to-Peptide Ligation and Peptide Cyclization. <i>Molecules</i> , 2018, 23, 192.	3.8	2
38	Chemoenzymatic synthesis of 6- α -sialolactose-modified nanobody. <i>Journal of Carbohydrate Chemistry</i> , 0, 1-15.	1.1	2
39	A two-stage glycine supplementation strategy enhances the extracellular expression of sortase A in <i>Escherichia coli</i> . <i>Process Biochemistry</i> , 2019, 76, 11-17.	3.7	1