Lai-Xi Wang

List of Publications by Year
in descending order

210	10,106	32410 55	51423 90
papers	citations	h-index	g-index

235	235	235	9478
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The interplay of protein engineering and glycoengineering to fineâ€tune antibody glycosylation and its impact on effector functions. Biotechnology and Bioengineering, 2022, 119, 102-117.	1.7	8
2	Sculpting therapeutic monoclonal antibody N-glycans using endoglycosidases. Current Opinion in Structural Biology, 2022, 72, 248-259.	2.6	7
3	Synthetic Antibodyâ€Rhamnose Cluster Conjugates Show Potent Complementâ€Dependent Cell Killing by Recruiting Natural Antibodies. Chemistry - A European Journal, 2022, 28, .	1.7	10
4	Site-Specific Chemoenzymatic Conjugation of High-Affinity M6P Glycan Ligands to Antibodies for Targeted Protein Degradation. ACS Chemical Biology, 2022, 17, 3013-3023.	1.6	23
5	Mechanism of cooperative N-glycan processing by the multi-modular endoglycosidase EndoE. Nature Communications, 2022, 13, 1137.	5.8	10
6	Synthesis and Evaluation of Three Azide-Modified Disaccharide Oxazolines as Enzyme Substrates for Single-Step Fc Glycan-Mediated Antibody-Drug Conjugation. Bioconjugate Chemistry, 2022, 33, 1179-1191.	1.8	9
7	An intranasally administrated SARS-CoV-2 beta variant subunit booster vaccine prevents beta variant replication in rhesus macaques. , 2022, 1, .		10
8	Synthesis and Immunological Study of N-Glycan-Bacteriophage QÎ² Conjugates Reveal Dominant Antibody Responses to the Conserved Chitobiose Core. Bioconjugate Chemistry, 2022, 33, 1350-1362.	1.8	6
9	Network-based redox communication between abiotic interactive materials. IScience, 2022, 25, 104548.	1.9	4
10	CTLA-4 expression by B-1a B cells is essential for immune tolerance. Nature Communications, 2021, 12, 525.	5.8	43
11	A facile chemoenzymatic synthesis of SARS-CoV-2 glycopeptides for probing glycosylation functions. Chemical Communications, 2021, 57, 6804-6807.	2.2	10
12	Chemoenzymatic glycan-selective remodeling of a therapeutic lysosomal enzyme with high-affinity M6P-glycan ligands. Enzyme substrate specificity is the name of the game. Chemical Science, 2021, 12, 12451-12462.	3.7	5
13	Exploring a combined Escherichia coli-based glycosylation and in vitro transglycosylation approach for expression of glycosylated interferon alpha. Bioorganic and Medicinal Chemistry, 2021, 33, 116037.	1.4	7
14	Interactive Materials for Bidirectional Redoxâ€Based Communication. Advanced Materials, 2021, 33, e2007758.	11.1	14
15	Protection against SARS-CoV-2 infection by a mucosal vaccine in rhesus macaques. JCI Insight, 2021, 6, .	2.3	52
16	Appropriate aglycone modification significantly expands the glycan substrate acceptability of Î±1,6-fucosyltransferase (FUT8). Biochemical Journal, 2021, 478, 1571-1583.	1.7	5
17	Simple, rapidly electroassembled thiolated PEGâ€based sensor interfaces enable rapid interrogation of antibody titer and glycosylation. Biotechnology and Bioengineering, 2021, 118, 2744-2758.	1.7	8
18	Site-Selective Chemoenzymatic Modification on the Core Fucose of an Antibody Enhances Its FcÎ³ Receptor Affinity and ADCC Activity. Journal of the American Chemical Society, 2021, 143, 7828-7838.	6.6	17

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19	Comparative studies on the substrate specificity and defucosylation activity of three Î±-l-fucosidases using synthetic fucosylated glycopeptides and glycoproteins as substrates. Bioorganic and Medicinal Chemistry, 2021, 42, 116243.	1.4	8
20	Glycosylation States on Intact Proteins Determined by NMR Spectroscopy. Molecules, 2021, 26, 4308.	1.7	8
21	One-Pot Conversion of Free Sialoglycans to Functionalized Glycan Oxazolines and Efficient Synthesis of Homogeneous Antibodyâ€“Drug Conjugates through Site-Specific Chemoenzymatic Glycan Remodeling. Bioconjugate Chemistry, 2021, 32, 1888-1897.	1.8	18
22	GH18 endo-Î²-N-acetylglucosaminidases use distinct mechanisms to process hybrid-type N-linked glycans. Journal of Biological Chemistry, 2021, 297, 101011.	1.6	6
23	General and Robust Chemoenzymatic Method for Glycan-Mediated Site-Specific Labeling and Conjugation of Antibodies: Facile Synthesis of Homogeneous Antibodyâ€“Drug Conjugates. ACS Chemical Biology, 2021, 16, 2502-2514.	1.6	24
24	Chemoenzymatic Synthesis and Antibody Binding of HIV-1 V1/V2 Glycopeptide-Bacteriophage QÎ² Conjugates as a Vaccine Candidate. International Journal of Molecular Sciences, 2021, 22, 12538.	1.8	4
25	Characterizing human Î±-1,6-fucosyltransferase (FUT8) substrate specificity and structural similarities with related fucosyltransferases. Journal of Biological Chemistry, 2020, 295, 17027-17045.	1.6	19
26	Structure and dynamics of an Î±-fucosidase reveal a mechanism for highly efficient IgG transfucosylation. Nature Communications, 2020, 11, 6204.	5.8	29
27	Synthetic Fluorinated <scp>l</scp>-Fucose Analogs Inhibit Proliferation of Cancer Cells and Primary Endothelial Cells. ACS Chemical Biology, 2020, 15, 2662-2672.	1.6	17
28	Glycosylation-dependent opsonophagocytic activity of staphylococcal protein A antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22992-23000.	3.3	19
29	Mediated Electrochemistry to Mimic Biology's Oxidative Assembly of Functional Matrices. Advanced Functional Materials, 2020, 30, 2001776.	7.8	17
30	FcRn, but not FcÎ³Rs, drives maternal-fetal transplacental transport of human IgG antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12943-12951.	3.3	55
31	Biochemical Characterization of Oyster and Clam Galectins: Selective Recognition of Carbohydrate Ligands on Host Hemocytes and Perkinsus Parasites. Frontiers in Chemistry, 2020, 8, 98.	1.8	11
32	Structural basis of mammalian high-mannose N-glycan processing by human gut Bacteroides. Nature Communications, 2020, 11, 899.	5.8	22
33	Sequential Glycosylation of Proteins with Substrate-Specific N-Glycosyltransferases. ACS Central Science, 2020, 6, 144-154.	5.3	31
34	Chemoenzymatic Synthesis of HIV-1 Glycopeptide Antigens. Methods in Molecular Biology, 2020, 2103, 249-262.	0.4	7
35	Glycoengineering of Antibodies for Modulating Functions. Annual Review of Biochemistry, 2019, 88, 433-459.	5.0	91
36	Molecular Basis of Broad Spectrum N-Glycan Specificity and Processing of Therapeutic IgG Monoclonal Antibodies by Endoglycosidase S2. ACS Central Science, 2019, 5, 524-538.	5.3	27

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37	PI-6â€ƒConstruction and analysis of V3 glycopeptide antigens for HIV-1 vaccine design. Journal of Acquired Immune Deficiency Syndromes (1999), 2019, 81, 78-78.	0.9	0
38	Site-specific immobilization of endoglycosidases for streamlined chemoenzymatic glycan remodeling of antibodies. Carbohydrate Research, 2018, 458-459, 77-84.	1.1	31
39	One-pot enzymatic glycan remodeling of a therapeutic monoclonal antibody by endoglycosidase S (Endo-S) from Streptococcus pyogenes. Bioorganic and Medicinal Chemistry, 2018, 26, 1347-1355.	1.4	17
40	C-104 Defining the glycopeptide epitopes of broadly neutralizing antibodies for HIV vaccine design. Journal of Acquired Immune Deficiency Syndromes (1999), 2018, 77, 38-38.	0.9	0
41	Site-selective chemoenzymatic glycoengineering of Fab and Fc glycans of a therapeutic antibody. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12023-12027.	3.3	72
42	Synthetic HIV V3 Glycopeptide Immunogen Carrying a N334 N-Glycan Induces Glycan-Dependent Antibodies with Promiscuous Site Recognition. Journal of Medicinal Chemistry, 2018, 61, 10116-10125.	2.9	21
43	Implementation of Glycan Remodeling to Plant-Made Therapeutic Antibodies. International Journal of Molecular Sciences, 2018, 19, 421.	1.8	12
44	Chemoenzymatic Defucosylation of Therapeutic Antibodies for Enhanced Effector Functions Using Bacterial Î±-Fucosidases. Methods in Molecular Biology, 2018, 1827, 367-380.	0.4	11
45	Structural basis for the recognition of complex-type N-glycans by Endoglycosidase S. Nature Communications, 2018, 9, 1874.	5.8	38
46	The Odd â€œRBâ€•Phageâ€”Identification of Arabinosylation as a New Epigenetic Modification of DNA in T4-Like Phage RB69. Viruses, 2018, 10, 313.	1.5	18
47	Multivalent Antigen Presentation Enhances the Immunogenicity of a Synthetic Three-Component HIV-1 V3 Glycopeptide Vaccine. ACS Central Science, 2018, 4, 582-589.	5.3	34
48	Top-Down Chemoenzymatic Approach to Synthesizing Diverse High-Mannose N-Glycans and Related Neoglycoproteins for Carbohydrate Microarray Analysis. Bioconjugate Chemistry, 2018, 29, 1911-1921.	1.8	23
49	Chemoenzymatic Methods for the Synthesis of Glycoproteins. Chemical Reviews, 2018, 118, 8359-8413.	23.0	170
50	Generation and Comparative Kinetic Analysis of New Glycosynthase Mutants from Streptococcus pyogenes Endoglycosidases for Antibody Glycoengineering. Biochemistry, 2018, 57, 5239-5246.	1.2	16
51	Expanded Exploration of FUT8 Substrate Specificity Towards a Variety of Its Less Preferred Substrates. FASEB Journal, 2018, 32, 673.2.	0.2	0
52	Coexistence of potent HIV-1 broadly neutralizing antibodies and antibody-sensitive viruses in a viremic controller. Science Translational Medicine, 2017, 9, .	5.8	128
53	Systematic Synthesis and Binding Study of HIV V3 Glycopeptides Reveal the Fine Epitopes of Several Broadly Neutralizing Antibodies. ACS Chemical Biology, 2017, 12, 1566-1575.	1.6	24
54	Glycan Remodeling of Human Erythropoietin (EPO) Through Combined Mammalian Cell Engineering and Chemoenzymatic Transglycosylation. ACS Chemical Biology, 2017, 12, 1665-1673.	1.6	43

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55	Synthetic multivalent V3 glycopeptides display enhanced recognition by glycan-dependent HIV-1 broadly neutralizing antibodies. Chemical Communications, 2017, 53, 5453-5456.	2.2	18
56	Modulating IgG effector function by Fc glycan engineering. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3485-3490.	3.3	278
57	Synthetic Three-Component HIV-1 V3 Glycopeptide Immunogens Induce Glycan-Dependent Antibody Responses. Cell Chemical Biology, 2017, 24, 1513-1522.e4.	2.5	38
58	Designer Î±1,6-Fucosidase Mutants Enable Direct Core Fucosylation of Intact N-Glycopeptides and N-Glycoproteins. Journal of the American Chemical Society, 2017, 139, 15074-15087.	6.6	49
59	Revisiting the substrate specificity of mammalian Î±1,6-fucosyltransferase reveals that it catalyzes core fucosylation of N-glycans lacking Î±1,3-arm GlcNAc. Journal of Biological Chemistry, 2017, 292, 14796-14803.	1.6	35
60	Chemoenzymatic synthesis of glycoengineered IgG antibodies and glycosite-specific antibodyâ€“drug conjugates. Nature Protocols, 2017, 12, 1702-1721.	5.5	87
61	Antibody against Microbial Neuraminidases Recognizes Human Sialidase 3 (NEU3): the Neuraminidase/Sialidase Superfamily Revisited. MBio, 2017, 8, .	1.8	8
62	Conformational Heterogeneity of the HIV Envelope Glycan Shield. Scientific Reports, 2017, 7, 4435.	1.6	32
63	A facile synthesis of a complex type N-glycan thiazoline as an effective inhibitor against the antibody-deactivating endo-Î²-N-acetylglucosaminidases. Journal of Carbohydrate Chemistry, 2017, 36, 336-346.	0.4	1
64	Chemoenzymatic Glycan Remodeling of Natural and Recombinant Glycoproteins. Methods in Enzymology, 2017, 597, 265-281.	0.4	12
65	CHAPTER 2. Chemical Biology of Protein N-Glycosylation. Chemical Biology, 2017, , 20-47.	0.1	0
66	Endoglycosidases for the Synthesis of Polysaccharides and Glycoconjugates. Advances in Carbohydrate Chemistry and Biochemistry, 2016, 73, 73-116.	0.4	13
67	Site-Selective Chemoenzymatic Glycosylation of an HIV-1 Polypeptide Antigen with Two Distinct N-Glycans via an Orthogonal Protecting Group Strategy. Journal of Organic Chemistry, 2016, 81, 6176-6185.	1.7	30
68	Mammalian Î±-1,6-Fucosyltransferase (FUT8) Is the Sole Enzyme Responsible for the N-Acetylglucosaminyltransferase I-independent Core Fucosylation of High-mannose N-Glycans. Journal of Biological Chemistry, 2016, 291, 11064-11071.	1.6	52
69	Glycosynthase Mutants of Endoglycosidase S2 Show Potent Transglycosylation Activity and Remarkably Relaxed Substrate Specificity for Antibody Glycosylation Remodeling. Journal of Biological Chemistry, 2016, 291, 16508-16518.	1.6	96
70	Chemoenzymatic Synthesis and Receptor Binding of Mannose-6-Phosphate (M6P)-Containing Glycoprotein Ligands Reveal Unusual Structural Requirements for M6P Receptor Recognition. Journal of the American Chemical Society, 2016, 138, 12472-12485.	6.6	37
71	An Fcâ€“Small Molecule Conjugate for Targeted Inhibition of the Adenosineâ€…2A Receptor. ChemBioChem, 2016, 17, 1951-1960.	1.3	1
72	Endo-F3 Glycosynthase Mutants Enable Chemoenzymatic Synthesis of Core-fucosylated Triantennary Complex Type Glycopeptides and Glycoproteins. Journal of Biological Chemistry, 2016, 291, 9356-9370.	1.6	84

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73	Evaluation of a glycoengineered monoclonal antibody via LC-MS analysis in combination with multiple enzymatic digestion. MAbs, 2016, 8, 340-346.	2.6	17
74	Targeting N-Glycan Cryptic Sugar Moieties for Broad-Spectrum Virus Neutralization: Progress in Identifying Conserved Molecular Targets in Viruses of Distinct Phylogenetic Origins. Molecules, 2015, 20, 4610-4622.	1.7	8
75	Desialylation of airway epithelial cells during influenza virus infection enhances pneumococcal adhesion via galectin binding. Molecular Immunology, 2015, 65, 1-16.	1.0	82
76	Galectin CvGal2 from the Eastern Oyster (Crassostrea virginica) Displays Unique Specificity for ABH Blood Group Oligosaccharides and Differentially Recognizes Sympatric Perkinsus Species. Biochemistry, 2015, 54, 4711-4730.	1.2	38
77	Chemoenzymatic Glyco-engineering of Monoclonal Antibodies. Methods in Molecular Biology, 2015, 1321, 375-387.	0.4	28
78	Sialylation of IgG Fc domain impairs complement-dependent cytotoxicity. Journal of Clinical Investigation, 2015, 125, 4160-4170.	3.9	229
79	Synthetic Carbohydrate Antigens for HIV Vaccine Design. , 2015, , 373-378.		0
80	Human airway epithelia express catalytically active NEU3 sialidase. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L876-L886.	1.3	14
81	P-C6â€ƒCrystal structure of EndoS, an immunomodulatory endoglycosidase specific for human IgG antibodies.. Journal of Acquired Immune Deficiency Syndromes (1999), 2014, 67, 86.	0.9	0
82	Targeting host nucleotide biosynthesis with resveratrol inhibits emtricitabine-resistant HIV-1. Aids, 2014, 28, 317-323.	1.0	25
83	Crystal structure ofStreptococcus pyogenesEndoS, an immunomodulatory endoglycosidase specific for human IgG antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6714-6719.	3.3	56
84	Uncovering Cryptic Glycan Markers in Multiple Sclerosis (<scp>MS</scp>) and Experimental Autoimmune Encephalomyelitis (<scp>EAE</scp>). Drug Development Research, 2014, 75, 172-188.	1.4	16
85	Chemical and Chemoenzymatic Synthesis of Glycoproteins for Deciphering Functions. Chemistry and Biology, 2014, 21, 51-66.	6.2	146
86	Forces and Dynamics of Glucose and Inhibitor Binding to Sodium Glucose Co-transporter SGLT1 Studied by Single Molecule Force Spectroscopy. Journal of Biological Chemistry, 2014, 289, 21673-21683.	1.6	17
87	Structural Characterization of Anti-Inflammatory Immunoglobulin G Fc Proteins. Journal of Molecular Biology, 2014, 426, 3166-3179.	2.0	126
88	Chemoenzymatic Fc Glycosylation via Engineered Aldehyde Tags. Bioconjugate Chemistry, 2014, 25, 788-795.	1.8	64
89	An Fc Domain Proteinâ€“Small Molecule Conjugate as an Enhanced Immunomodulator. Journal of the American Chemical Society, 2014, 136, 3370-3373.	6.6	14
90	Anti-Carbohydrate HIV Vaccine Design. , 2014, , 143-176.		1

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91	Synthetic Carbohydrate Antigens for HIV Vaccine Design. , 2014, , 1-6.		0
92	Chemoenzymatic synthesis of HIVâ€1 V1V2 glycopeptide antigens for epitope characterization and neutralizing antibody detection (1004.4). FASEB Journal, 2014, 28, 1004.4.	0.2	0
93	Endo F3 glycosynthase mutant enables chemoenzymatic synthesis of core fucosylated triantennary complex type glycopeptides and glycoproteins (1007.7). FASEB Journal, 2014, 28, 1007.7.	0.2	0
94	Synthetic glycopeptides reveal the glycan specificity of HIV-neutralizing antibodies. Nature Chemical Biology, 2013, 9, 521-526.	3.9	106
95	Design and synthesis of glycoprotein-based multivalent glyco-ligands for influenza hemagglutinin and human galectin-3. Bioorganic and Medicinal Chemistry, 2013, 21, 2037-2044.	1.4	51
96	Synthetic carbohydrate antigens for HIV vaccine design. Current Opinion in Chemical Biology, 2013, 17, 997-1005.	2.8	50
97	A two-step enzymatic glycosylation of polypeptides with complex N -glycans. Bioorganic and Medicinal Chemistry, 2013, 21, 2262-2270.	1.4	56
98	Chemoenzymatic synthesis and lectin recognition of a selectively fluorinated glycoprotein. Bioorganic and Medicinal Chemistry, 2013, 21, 4768-4777.	1.4	18
99	Realizing the promise of chemical glycobiology. Chemical Science, 2013, 4, 3381.	3.7	92
100	Structural basis for diverse N-glycan recognition by HIV-1â€“neutralizing V1â€“V2â€“directed antibody PG16. Nature Structural and Molecular Biology, 2013, 20, 804-813.	3.6	257
101	Targeting of the Purine Biosynthesis Host Cell Pathway Enhances the Activity of Tenofovir Against Sensitive and Drug-Resistant HIV-1. Journal of Infectious Diseases, 2013, 208, 2085-2094.	1.9	14
102	The Galectin CvGal1 from the Eastern Oyster (Crassostrea virginica) Binds to Blood Group A Oligosaccharides on the Hemocyte Surface*. Journal of Biological Chemistry, 2013, 288, 24394-24409.	1.6	61
103	Liquidâ€“liquid diffusion crystallization improves the X-ray diffraction of EndoS, an endo-Î²-N-acetylglucosaminidase fromStreptococcus pyogeneswith activity on human IgG. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1405-1410.	0.7	5
104	Antiâ€Oligomannose Antibodies as Potential Serum Biomarkers of Aggressive Prostate Cancer. Drug Development Research, 2013, 74, 65-80.	1.4	28
105	NEU1 Sialidase Expressed in Human Airway Epithelia Regulates Epidermal Growth Factor Receptor (EGFR) and MUC1 Protein Signaling. Journal of Biological Chemistry, 2012, 287, 8214-8231.	1.6	69
106	Remarkable Transglycosylation Activity of Glycosynthase Mutants of Endo-D, an Endo-Î²-N-acetylglucosaminidase from Streptococcus pneumoniae. Journal of Biological Chemistry, 2012, 287, 11272-11281.	1.6	74
107	NEU1 and NEU3 Sialidase Activity Expressed in Human Lung Microvascular Endothelia. Journal of Biological Chemistry, 2012, 287, 15966-15980.	1.6	54
108	MUC1 glycopeptide epitopes predicted by computational glycomics. International Journal of Oncology, 2012, 41, 1977-1984.	1.4	15

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109	Chemoenzymatic Glycoengineering of Intact IgG Antibodies for Gain of Functions. Journal of the American Chemical Society, 2012, 134, 12308-12318.	6.6	272
110	Carbohydrate-Based Vaccines against HIV/AIDS. ACS Symposium Series, 2012, , 157-186.	0.5	1
111	Emerging Technologies for Making Glycan-Defined Glycoproteins. ACS Chemical Biology, 2012, 7, 110-122.	1.6	131
112	Chemoenzymatic Synthesis and FcÎ³ Receptor Binding of Homogeneous Glycoforms of Antibody Fc Domain. Presence of a Bisecting Sugar Moiety Enhances the Affinity of Fc to FcÎ³IIIa Receptor. Journal of the American Chemical Society, 2011, 133, 18975-18991.	6.6	135
113	Convergent Synthesis of Homogeneous Glc₁Man₉GlcNAc₂-Protein and Derivatives as Ligands of Molecular Chaperones in Protein Quality Control. Journal of the American Chemical Society, 2011, 133, 14404-14417.	6.6	64
114	Highly Soluble Heteroheptacene: A New Building Block for p-Type Semiconducting Polymers. Organic Letters, 2011, 13, 324-327.	2.4	27
115	Molecular recognition force spectroscopy of a specific lectinâ€“carbohydrate interaction at single-molecule level. Journal of Structural Biology, 2011, 176, 46-51.	1.3	7
116	Unusual Transglycosylation Activity of Flavobacterium meningosepticum Endoglycosidases Enables Convergent Chemoenzymatic Synthesis of Core Fucosylated Complex Nâ€Glycopeptides. ChemBioChem, 2011, 12, 932-941.	1.3	44
117	The Amazing Transglycosylation Activity of Endo-Î²-N-Acetylglucosaminidases. Trends in Glycoscience and Glycotechnology, 2011, 23, 33-52.	0.0	31
118	Structure of HIV-1 gp120 V1/V2 domain with broadly neutralizing antibody PG9. Nature, 2011, 480, 336-343.	13.7	794
119	Arthrobacter Endoâ€Îβâ€Nâ€Acetylglucosaminidase Shows Transglycosylation Activity on Complexâ€Type Nâ€Glycan Oxazolines: Oneâ€Pot Conversion of Ribonuclease B to Sialylated Ribonuclease C. ChemBioChem, 2010, 11, 1350-1355.	1.3	64
120	A combined method for producing homogeneous glycoproteins with eukaryotic N-glycosylation. Nature Chemical Biology, 2010, 6, 264-266.	3.9	171
121	LPS-induced cytokine production in human dendritic cells is regulated by sialidase activity. Journal of Leukocyte Biology, 2010, 88, 1227-1239.	1.5	80
122	Antibody recognition of a unique tumor-specific glycopeptide antigen. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10056-10061.	3.3	77
123	Efficient Glycosynthase Mutant Derived from Mucor hiemalis Endo-Î²-N-acetylglucosaminidase Capable of Transferring Oligosaccharide from Both Sugar Oxazoline and Natural N-Glycan. Journal of Biological Chemistry, 2010, 285, 511-521.	1.6	140
124	Efficient transfer of sialo-oligosaccharide onto proteins by combined use of a glycosynthase-like mutant of Mucor hiemalis endoglycosidase and synthetic sialo-complex-type sugar oxazoline. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 1203-1209.	1.1	87
125	Expeditious chemoenzymatic synthesis of CD52 glycopeptide antigens. Organic and Biomolecular Chemistry, 2010, 8, 5224.	1.5	31
126	Expression, Glycoform Characterization, and Antibody-Binding of HIV-1 V3 Glycopeptide Domain Fused with Human IgG1-Fc. Bioconjugate Chemistry, 2010, 21, 875-883.	1.8	19

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127	Structural Basis and Catalytic Mechanism for the Dual Functional Endo-Î²-N-Acetylglucosaminidase A. PLoS ONE, 2009, 4, e4658.	1.1	52
128	Enhanced Immune Recognition of Cryptic Glycan Markers in Human Tumors. Cancer Research, 2009, 69, 2018-2025.	0.4	44
129	222 Antibody 2G12 recognizes a glycopeptide epitope on HIV-1 gp120 envelope glycoprotein. Journal of Acquired Immune Deficiency Syndromes (1999), 2009, 51, .	0.9	0
130	A Yeast Glycoprotein Shows High-Affinity Binding to the Broadly Neutralizing Human Immunodeficiency Virus Antibody 2G12 and Inhibits gp120 Interactions with 2G12 and DC-SIGN. Journal of Virology, 2009, 83, 4861-4870.	1.5	35
131	Enzymatic Glycosylation of Triazoleâ€Linked GlcNAc/Glcâ€“Peptides: Synthesis, Stability and Antiâ€HIV Activity of Triazoleâ€Linked HIVâ€1 gp41 Glycopeptide C34 Analogues. ChemBioChem, 2009, 10, 1234-1242.	1.3	38
132	Epitope mapping of a chimeric CD137 mAb: a necessary step for assessing the biologic relevance of nonâ€human primate models. Journal of Molecular Recognition, 2009, 22, 242-249.	1.1	0
133	Endo-Î²-N-acetylglucosaminidase-catalyzed polymerization of Î²-Glcp-(1â†’4)-GlcpNAc oxazoline: a revisit to enzymatic transglycosylation. Carbohydrate Research, 2009, 344, 592-598.	1.1	35
134	Enzymatic transglycosylation for glycoconjugate synthesis. Current Opinion in Chemical Biology, 2009, 13, 592-600.	2.8	150
135	Expanding the Repertoire of Glycosynthases. Chemistry and Biology, 2009, 16, 1026-1027.	6.2	9
136	Chemoenzymatic Synthesis and Lectin Array Characterization of a Class of N-Glycan Clusters. Journal of the American Chemical Society, 2009, 131, 17963-17971.	6.6	39
137	Glycosynthases Enable a Highly Efficient Chemoenzymatic Synthesis of N-Glycoproteins Carrying Intact Natural N-Glycans. Journal of the American Chemical Society, 2009, 131, 2214-2223.	6.6	174
138	Quantitative Glycomics from Fluidic Glycan Microarrays. Journal of the American Chemical Society, 2009, 131, 13646-13650.	6.6	37
139	Chemoenzymatic synthesis of glycopeptides and glycoproteins through endoglycosidase-catalyzed transglycosylation. Carbohydrate Research, 2008, 343, 1509-1522.	1.1	118
140	Introducing N-glycans into natural products through a chemoenzymatic approach. Carbohydrate Research, 2008, 343, 2903-2913.	1.1	40
141	Synthesis and inhibitory activity of oligosaccharide thiazolines as a class of mechanism-based inhibitors for endo-Î²-N-acetylglucosaminidases. Bioorganic and Medicinal Chemistry, 2008, 16, 4670-4675.	1.4	19
142	Chemoenzymatic synthesis of N-linked neoglycoproteins through a chitinase-catalyzed transglycosylation. Bioorganic and Medicinal Chemistry, 2008, 16, 8366-8372.	1.4	9
143	Convergent Chemoenzymatic Synthesis of Complex N-Glycopeptides. ACS Symposium Series, 2008, , 123-150.	0.5	1
144	Glycoengineering of Human IgG1-Fc through Combined Yeast Expression and in Vitro Chemoenzymatic Glycosylation. Biochemistry, 2008, 47, 10294-10304.	1.2	98

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145	Expeditious Chemoenzymatic Synthesis of Homogeneous N-Glycoproteins Carrying Defined Oligosaccharide Ligands. Journal of the American Chemical Society, 2008, 130, 13790-13803.	6.6	91
146	Mutants of Mucor hiemalis Endo-Î²-N-acetylglucosaminidase Show Enhanced Transglycosylation and Glycosynthase-like Activities. Journal of Biological Chemistry, 2008, 283, 4469-4479.	1.6	213
147	Fc-dependent expression of CD137 on human NK cells: insights into â€œagonisticâ€•effects of anti-CD137 monoclonal antibodies. Blood, 2008, 112, 699-707.	0.6	102
148	The Chitin Catabolic Cascade in the Marine Bacterium Vibrio Cholerae: Characterization of a Unique Chitin Oligosaccharide Deacetylase. Glycobiology, 2007, 17, 1377-1387.	1.3	90
149	Editorial [Hot Topic: New Approaches to HIV-1 Inhibitor and Vaccine Design (Executive Editor: Lai-Xi) Tj ETQq1 1 0.784314 rgBT /Over	0.9	1
150	Novel template-assembled oligosaccharide clusters as epitope mimics for HIV-neutralizing antibody 2G12. Design, synthesis, and antibody binding study. Organic and Biomolecular Chemistry, 2007, 5, 1529.	1.5	119
151	Synthesis and anti-HIV activity of trivalent CD4-mimetic miniproteins. Bioorganic and Medicinal Chemistry, 2007, 15, 4220-4228.	1.4	27
152	Toward a glycopeptide-based HIV-1 vaccine. Retrovirology, 2006, 3, 1.	0.9	1
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