Kay-Hooi Khoo

List of Publications by Year
in descending order

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237 papers	13,149 citations	23567 58 h-index	30922 102 g-index

249 all docs	249 docs citations	249 times ranked	13756 citing authors

#	Article	IF	Citations
1	Glycosylation and stabilization of programmed death ligand-1 suppresses T-cell activity. Nature Communications, 2016, 7, 12632.	12.8	648
2	Metformin Promotes Antitumor Immunity via Endoplasmic-Reticulum-Associated Degradation of PD-L1. Molecular Cell, 2018, 71, 606-620.e7.	9.7	491
3	Comparison of the methods for profiling glycoprotein glycansâ€"HUPO Human Disease Glycomics/Proteome Initiative multi-institutional study. Glycobiology, 2007, 17, 411-422.	2.5	382
4	Eradication of Triple-Negative Breast Cancer Cells by Targeting Glycosylated PD-L1. Cancer Cell, 2018, 33, 187-201.e10.	16.8	381
5	Sialylation and fucosylation of epidermal growth factor receptor suppress its dimerization and activation in lung cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11332-11337.	7.1	347
6	Mycobacterial lipoarabinomannan: An extraordinary lipoheteroglycan with profound physiological effects. Glycobiology, 1998, 8, 113-120.	2.5	333
7	STT3-dependent PD-L1 accumulation on cancer stem cells promotes immune evasion. Nature Communications, 2018, 9, 1908.	12.8	282
8	Human Sperm Binding Is Mediated by the Sialyl-Lewis ^x Oligosaccharide on the Zona Pellucida. Science, 2011, 333, 1761-1764.	12.6	278
9	Glycans on influenza hemagglutinin affect receptor binding and immune response. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18137-18142.	7.1	268
10	[8] Mass spectrometry of carbohydrate-containing biopolymers. Methods in Enzymology, 1994, 230, 108-132.	1.0	227
11	A new interpretation of the structure of the mycolyl-arabinogalactan complex of Mycobacterium tuberculosis as revealed through characterization of oligoglycosylalditol fragments by fast-atom bombardment mass spectrometry and 1H nuclear magnetic resonance spectroscopy. Biochemistry, 1995, 34, 4257-4266.	2.5	227
12	Studies on the immuno-Modulating and antitumor activities of Ganoderma lucidum (Reishi) polysaccharides: functional and proteomic analyses of a fucose-Containing glycoprotein fraction responsible for the activities. Bioorganic and Medicinal Chemistry, 2002, 10, 1057-1062.	3.0	218
13	Inositol Phosphate Capping of the Nonreducing Termini of Lipoarabinomannan from Rapidly Growing Strains of Mycobacterium. Journal of Biological Chemistry, 1995, 270, 12380-12389.	3.4	190
14	Definition of the full extent of glycosylation of the 45-kilodalton glycoprotein of Mycobacterium tuberculosis. Journal of Bacteriology, 1996, 178, 2498-2506.	2.2	176
15	Critical functions of N-glycans in L-selectin-mediated lymphocyte homing and recruitment. Nature Immunology, 2007, 8, 409-418.	14.5	169
16	The Role of the embA and embB Gene Products in the Biosynthesis of the Terminal Hexaarabinofuranosyl Motif of Mycobacterium smegmatisArabinogalactan. Journal of Biological Chemistry, 2001, 276, 48854-48862.	3.4	155
17	An Invertebrate Warburg Effect: A Shrimp Virus Achieves Successful Replication by Altering the Host Metabolome via the PI3K-Akt-mTOR Pathway. PLoS Pathogens, 2014, 10, e1004196.	4.7	141
18	Studies on the immuno-modulating and anti-tumor activities of Ganoderma lucidum (Reishi) polysaccharides. Bioorganic and Medicinal Chemistry, 2004, 12, 5595-5601.	3.0	139

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19	Structural mapping of the glycans from the egg glycoproteins of Schistosoma mansoni and Schistosoma japonicum: identification of novel core structures and terminal sequences. Glycobiology, 1997, 7, 663-677.	2.5	136
20	Comparison of Methods for Profiling O-Glycosylation. Molecular and Cellular Proteomics, 2010, 9, 719-727.	3.8	136
21	Cysteine S-Nitrosylation Protects Protein-tyrosine Phosphatase 1B against Oxidation-induced Permanent Inactivation. Journal of Biological Chemistry, 2008, 283, 35265-35272.	3.4	135
22	Structural definition of acylated phosphatidylinositol mannosides from Mycobacterium tuberculosis: definition of a common anchor for lipomannan and lipoarabinomannan. Glycobiology, 1995, 5, 117-127.	2.5	131
23	The Emb proteins of mycobacteria direct arabinosylation of lipoarabinomannan and arabinogalactan via an N-terminal recognition region and a C-terminal synthetic region. Molecular Microbiology, 2003, 50, 69-76.	2.5	126
24	A Unique Multifucosylated â^'3GalNAcÎ²1â†'4GlcNAcÎ²1â†'3GalÎ±1- Motif Constitutes the Repeating Unit of the Complex O-Glycans Derived from the Cercarial Glycocalyx of Schistosoma mansoni. Journal of Biological Chemistry, 1995, 270, 17114-17123.	3.4	125
25	Immobilized Metal Affinity Chromatography Revisited: pH/Acid Control toward High Selectivity in Phosphoproteomics. Journal of Proteome Research, 2008, 7, 4058-4069.	3.7	125
26	The surface glycopeptidolipids of mycobacteria: structures and biological properties. Cellular and Molecular Life Sciences, 2001, 58, 2018-2042.	5.4	121
27	MIRAGE: The minimum information required for a glycomics experiment. Glycobiology, 2014, 24, 402-406.	2.5	116
28	Truncated Structural Variants of Lipoarabinomannan in Ethambutol Drug-resistant Strains of Mycobacterium smegmatis. Journal of Biological Chemistry, 1996, 271, 28682-28690.	3.4	104
29	The pimB Gene of Mycobacterium tuberculosis Encodes a Mannosyltransferase Involved in Lipoarabinomannan Biosynthesis. Journal of Biological Chemistry, 1999, 274, 31625-31631.	3.4	104
30	Stage-specific embryonic antigen-4 as a potential therapeutic target in glioblastoma multiforme and other cancers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2482-2487.	7.1	104
31	Switching of the core structures of glycosphingolipids from globo- and lacto- to ganglio-series upon human embryonic stem cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22564-22569.	7.1	103
32	Phosphoproteomics of Klebsiella pneumoniae NTUH-K2044 Reveals a Tight Link between Tyrosine Phosphorylation and Virulence. Molecular and Cellular Proteomics, 2009, 8, 2613-2623.	3.8	102
33	Fibronectin in cell adhesion and migration via N-glycosylation. Oncotarget, 2017, 8, 70653-70668.	1.8	98
34	Characterization of nematode glycoproteins: the major O-glycans of Toxocara excretory-secretory antigens are O-methylated trisaccharides. Glycobiology, 1991, 1, 163-171.	2.5	96
35	Redox regulation of the protein tyrosine phosphatase PTP1B in cancer cells. FEBS Journal, 2008, 275, 69-88.	4.7	96
36	Characterisation of the phosphorylcholine-containing N-linked oligosaccharides in the excretory-secretory 62 kDa glycoprotein of Acanthocheilonema viteae. Molecular and Biochemical Parasitology, 1997, 85, 53-66.	1.1	95

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37	Cryo-EM analysis of a feline coronavirus spike protein reveals a unique structure and camouflaging glycans. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1438-1446.	7.1	94
38	Strategic shotgun proteomics approach for efficient construction of an expression map of targeted protein families in hepatoma cell lines. Proteomics, 2003, 3, 2472-2486.	2.2	89
39	Novel LC-MS² Product Dependent Parallel Data Acquisition Function and Data Analysis Workflow for Sequencing and Identification of Intact Glycopeptides. Analytical Chemistry, 2014, 86, 5478-5486.	6.5	89
40	Structural definition of the non-reducing termini of mannose-capped LAM from Mycobacterium tuberculosis through selective enzymatic degradation and fast atom bombardment-mass spectrometry. Glycobiology, 1993, 3, 497-506.	2.5	87
41	Targeting Glycosylated PD-1 Induces Potent Antitumor Immunity. Cancer Research, 2020, 80, 2298-2310.	0.9	87
42	Variation in Mannose-capped Terminal Arabinan Motifs of Lipoarabinomannans from Clinical Isolates of Mycobacterium tuberculosis and Mycobacterium avium Complex. Journal of Biological Chemistry, 2001, 276, 3863-3871.	3.4	85
43	The Identification and Location of Succinyl Residues and the Characterization of the Interior Arabinan Region Allow for a Model of the Complete Primary Structure of Mycobacterium tuberculosis Mycolyl Arabinogalactan. Journal of Biological Chemistry, 2008, 283, 12992-13000.	3.4	82
44	Mass Spectrometry-Based Quantitative Proteomics for Dissecting Multiplexed Redox Cysteine Modifications in Nitric Oxide-Protected Cardiomyocyte Under Hypoxia. Antioxidants and Redox Signaling, 2014, 20, 1365-1381.	5.4	82
45	Glycolipid GD3 and GD3 synthase are key drivers for glioblastoma stem cells and tumorigenicity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5592-5597.	7.1	81
46	The Carboxy Terminus of EmbC from Mycobacterium smegmatis Mediates Chain Length Extension of the Arabinan in Lipoarabinomannan. Journal of Biological Chemistry, 2006, 281, 19512-19526.	3.4	75
47	Structural characterization of glycosphingolipids from the eggs of Schistosoma mansoni and Schistosoma japonicum. Glycobiology, 1997, 7, 653-661.	2.5	74
48	Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies for serum glycopeptide analysis. Nature Methods, 2021, 18, 1304-1316.	19.0	74
49	Distinctive characteristics of MALDI-Q/TOF and TOF/TOF tandem mass spectrometry for sequencing of permethylated complex type N-glycans. Glycoconjugate Journal, 2006, 23, 355-369.	2.7	73
50	Immunogenic glycoconjugates implicated in parasitic nematode diseases. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1999, 1455, 353-362.	3.8	72
51	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. Glycobiology, 2017, 27, 280-284.	2.5	69
52	Core3 O-Glycan Synthase Suppresses Tumor Formation and Metastasis of Prostate Carcinoma PC3 and LNCaP Cells through Down-regulation of Î±2Î²1 Integrin Complex. Journal of Biological Chemistry, 2009, 284, 17157-17169.	3.4	66
53	Immunization of fucose-containing polysaccharides from Reishi mushroom induces antibodies to tumor-associated Globo H-series epitopes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13809-13814.	7.1	66
54	Structural studies on the oligosaccharides isolated from bovine kidney heparan sulphate and characterization of bacterial heparitinases used as substrates. Glycobiology, 1994, 4, 535-544.	2.5	65

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55	Systems glycomics of adult zebrafish identifies organ-specific sialylation and glycosylation patterns. Nature Communications, 2018, 9, 4647.	12.8	65
56	Truncated Structural Variants of Lipoarabinomannan in Mycobacterium leprae and an Ethambutol-resistant Strain of Mycobacterium tuberculosis. Journal of Biological Chemistry, 2004, 279, 41227-41239.	3.4	64
57	S-Alkylating Labeling Strategy for Site-Specific Identification of the S-Nitrosoproteome. Journal of Proteome Research, 2010, 9, 6417-6439.	3.7	64
58	Ceramide Glycosylation by Glucosylceramide Synthase Selectively Maintains the Properties of Breast Cancer Stem Cells. Journal of Biological Chemistry, 2012, 287, 37195-37205.	3.4	64
59	Biomic study of human myeloid leukemia cells differentiation to macrophages using DNA array, proteomic, and bioinformatic analytical methods. Electrophoresis, 2002, 23, 2490-2504.	2.4	62
60	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. Glycobiology, 2016, 26, 907-910.	2.5	62
61	Glycomic survey mapping of zebrafish identifies unique sialylation pattern. Glycobiology, 2006, 16, 244-257.	2.5	61
62	Structural characterization of the N-glycans from Echinococcus granulosus hydatid cyst membrane and protoscoleces. Molecular and Biochemical Parasitology, 1997, 86, 237-248.	1.1	60
63	New Insights into the Biosynthesis of Mycobacterial Lipomannan Arising from Deletion of a Conserved Gene. Journal of Biological Chemistry, 2007, 282, 27133-27140.	3.4	60
64	Enabling techniques and strategic workflow for sulfoglycomics based on mass spectrometry mapping and sequencing of permethylated sulfated glycans. Glycobiology, 2009, 19, 1136-1149.	2.5	60
65	Sweet-Heart â€" An integrated suite of enabling computational tools for automated MS2/MS3 sequencing and identification of glycopeptides. Journal of Proteomics, 2013, 84, 1-16.	2.4	60
66	Quantitative apical membrane proteomics reveals vasopressin-induced actin dynamics in collecting duct cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17119-17124.	7.1	58
67	Characteristic structural features of schistosome cercarial N-glycans: expression of Lewis X and core xylosylation. Glycobiology, 2001, 11, 149-163.	2.5	57
68	Expression of De-N-acetyl-gangliosides in Human Melanoma Cells Is Induced by Genistein or Nocodazole. Journal of Biological Chemistry, 1995, 270, 2921-2930.	3.4	56
69	N-Glycan Structures from the Major Glycoproteins of Pigeon Egg White. Journal of Biological Chemistry, 2001, 276, 23230-23239.	3.4	56
70	CRL2 aids elimination of truncated selenoproteins produced by failed UGA/Sec decoding. Science, 2015, 349, 91-95.	12.6	56
71	Structural Determination of Five Novel Tetrasaccharides Containing 3-O-Sulfatedd-Glucuronic Acid and Two Rare Oligosaccharides Containing a Î²-d-Glucose Branch Isolated from Squid Cartilage Chondroitin Sulfate Eâ€. Biochemistry, 2004, 43, 11063-11074.	2.5	55
72	Protein tyrosine phosphatase PTPN3 inhibits lung cancer cell proliferation and migration by promoting EGFR endocytic degradation. Oncogene, 2015, 34, 3791-3803.	5.9	55

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73	Unmasking of CD22 Co-receptor on Germinal Center B-cells Occurs by Alternative Mechanisms in Mouse and Man. Journal of Biological Chemistry, 2015, 290, 30066-30077.	3.4	52
74	Isolation and Characterization of Major Glycoproteins of Pigeon Egg White. Journal of Biological Chemistry, 2001, 276, 23221-23229.	3.4	51
75	Glycoproteomics analysis to identify a glycoform on haptoglobin associated with lung cancer. Proteomics, 2011, 11, 2162-2170.	2.2	51
76	In Vitro Modification of Human Centromere Protein CENP-C Fragments by Small Ubiquitin-like Modifier (SUMO) Protein. Journal of Biological Chemistry, 2004, 279, 39653-39662.	3.4	50
77	Characterization of Oligosaccharide Ligands Expressed on SW1116 Cells Recognized by Mannan-binding Protein. Journal of Biological Chemistry, 2005, 280, 10897-10913.	3.4	50
78	Structural analysis of the N-linked glycan chains from a stylar glycoprotein associated with expression of self-incompatibility in Nicotiana alata. Glycobiology, 1992, 2, 241-250.	2.5	49
79	Isolation and characterization of an active compound from black soybean [Glycine max (L.) Merr.] and its effect on proliferation and differentiation of human leukemic U937 cells. Anti-Cancer Drugs, 2001, 12, 841-846.	1.4	49
80	Altered Expression Profile of the Surface Glycopeptidolipids in Drug-resistant Clinical Isolates of Mycobacterium aviumComplex. Journal of Biological Chemistry, 1999, 274, 9778-9785.	3.4	48
81	Rapid glycopeptide enrichment and N-glycosylation site mapping strategies based on amine-functionalized magnetic nanoparticles. Analytical and Bioanalytical Chemistry, 2012, 402, 2765-2776.	3.7	48
82	Structural studies on the tri- and tetrasaccharides isolated from porcine intestinal heparin and characterization of heparinase/heparitinases using them as substrates. Glycobiology, 1994, 4, 69-78.	2.5	47
83	The expression of sialylated high-antennary N-glycans in edible birdâ€™s nest. Carbohydrate Research, 2008, 343, 1373-1377.	2.3	47
84	Selective expression of different fucosylated epitopes on two distinct sets of Schistosoma mansoni cercarial O-glycans: identification of a novel core type and Lewis X structure. Glycobiology, 2001, 11, 395-406.	2.5	46
85	Sequencing of Oligoarabinosyl Units Released from Mycobacterial Arabinogalactan by Endogenous Arabinanase:Â Identification of Distinctive and Novel Structural Motifsâ€. Biochemistry, 2006, 45, 15817-15828.	2.5	46
86	Protein glycosylation mutants of procyclic Trypanosoma brucei: defects in the asparagine-glycosylation pathway. Glycobiology, 1999, 9, 125-131.	2.5	45
87	N-Glycan Structures of Pigeon IgG. Journal of Biological Chemistry, 2003, 278, 46293-46306.	3.4	45
88	Changes in Glycosphingolipid Composition During Differentiation of Human Embryonic Stem Cells to Ectodermal or Endodermal Lineages. Stem Cells, 2011, 29, 1995-2004.	3.2	45
89	To complete its replication cycle, a shrimp virus changes the population of long chain fatty acids during infection via the PI3K-Akt-mTOR-HIF1Î± pathway. Developmental and Comparative Immunology, 2015, 53, 85-95.	2.3	45
90	Synthetic mannosides act as acceptors for mycobacterial Î±1-6 mannosyltransferase. Bioorganic and Medicinal Chemistry, 2001, 9, 815-824.	3.0	42

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91	N-Glycan structures of squid rhodopsin. Existence of the alpha1-3 and alpha1-6 difucosylated innermost GlcNAc residue in a molluscan glycoprotein. FEBS Journal, 2003, 270, 2627-2632.	0.2	42
92	Alterations of the Human Skin N- and O-Glycome in Basal Cell Carcinoma and Squamous Cell Carcinoma. Frontiers in Oncology, 2018, 8, 70.	2.8	42
93	Galactose 6-O-Sulfotransferases Are Not Required for the Generation of Siglec-F Ligands in Leukocytes or Lung Tissue. Journal of Biological Chemistry, 2013, 288, 26533-26545.	3.4	41
94	Mass Spectrometric Analysis of Sulfated N- and O-Glycans. Methods in Enzymology, 2010, 478, 3-26.	1.0	40
95	A novel baculovirus vector for the production of nonfucosylated recombinant glycoproteins in insect cells. Glycobiology, 2014, 24, 325-340.	2.5	39
96	Chondroitinase ABC-resistant sulfated trisaccharides isolated from digests of chondroitin/dermatan sulfate chains. Carbohydrate Research, 1994, 255, 165-182.	2.3	37
97	The sulphated carbohydrate-protein linkage region isolated from chondroitin 4-sulphate chains of inter-Î±-trypsin inhibitor in human plasma. Glycobiology, 1995, 5, 335-341.	2.5	37
98	Prominent expression of sialyl Lewis Xâ€capped core 2â€branched Oâ€glycans on high endothelial venuleâ€like vessels in gastric MALT lymphoma. Journal of Pathology, 2011, 224, 67-77.	4.5	37
99	Glycoconjugates from Parasitic Helminths: Structure Diversity and Immunobiological Implications. Advances in Experimental Medicine and Biology, 2001, 491, 185-205.	1.6	37
100	Mass spectrometry-based analyses for identifying and characterizing S-nitrosylation of protein tyrosine phosphatases. Methods, 2007, 42, 243-249.	3.8	36
101	Galactosamine in walls of slow-growing mycobacteria. Biochemical Journal, 1997, 327, 519-525.	3.7	35
102	Modifying an Insect CellN-Glycan Processing Pathway Using CRISPR-Cas Technology. ACS Chemical Biology, 2015, 10, 2199-2208.	3.4	35
103	FABMS/derivatisation strategies for the analysis of heparin-derived oligosaccharides. Carbohydrate Research, 1993, 244, 205-223.	2.3	34
104	KSGal6ST generates galactose-6-O-sulfate in high endothelial venules but does not contribute to L-selectin-dependent lymphocyte homing. Glycobiology, 2013, 23, 381-394.	2.5	34
105	Adapting Data-Independent Acquisition for Mass Spectrometry-Based Protein Site-Specific N-Glycosylation Analysis. Analytical Chemistry, 2017, 89, 4532-4539.	6.5	34
106	Occurrence and Structural Analysis of Highly Sulfated Multiantennary N-linked Glycan Chains Derived from a Fertilization-Associated Carbohydrate-Rich Glycoprotein in Unfertilized Eggs of Tribolodon hakonensis. FEBS Journal, 1996, 238, 357-367.	0.2	33
107	Developmentally Regulated Expression of a Peptide:N-Glycanase during Germination of Rice Seeds (Oryza sativa) and Its Purification and Characterization. Journal of Biological Chemistry, 2000, 275, 129-134.	3.4	33
108	Characterization of a Distinct Arabinofuranosyltransferase inMycobacteriumsmegmatis. Journal of the American Chemical Society, 2007, 129, 9650-9662.	13.7	33

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109	New insights into the functions and Nâ€glycan structures of factorâ€ƒX activator from Russellâ€™s viper venom. FEBS Journal, 2008, 275, 3944-3958.	4.7	33
110	BAD-Lectins: Boronic Acid-Decorated Lectins with Enhanced Binding Affinity for the Selective Enrichment of Glycoproteins. Analytical Chemistry, 2013, 85, 8268-8276.	6.5	33
111	Chemistry of the Lyxose-Containing Mycobacteriophage Receptors ofMycobacteriumphlei/Mycobacterium smegmatisâ€. Biochemistry, 1996, 35, 11812-11819.	2.5	32
112	Characterization of the in vitro synthesized arabinan of mycobacterial cell walls. Biochimica Et Biophysica Acta - General Subjects, 1997, 1335, 231-234.	2.4	32
113	Structural determination of novel tetra- and hexasaccharide sequences isolated from chondroitin sulfate H (oversulfated dermatan sulfate) of hagfish notochord. Glycoconjugate Journal, 1999, 16, 291-305.	2.7	32
114	Highly fucosylated N-glycan ligands for mannan-binding protein expressed specifically on CD26 (DPPVI) isolated from a human colorectal carcinoma cell line, SW1116. Glycobiology, 2008, 19, 437-450.	2.5	32
115	AGO61-dependent GlcNAc modification primes the formation of functional glycans on Î±-dystroglycan. Scientific Reports, 2013, 3, 3288.	3.3	32
116	A new insect cell glycoengineering approach provides baculovirus-inducible glycogene expression and increases human-type glycosylation efficiency. Journal of Biotechnology, 2014, 182-183, 19-29.	3.8	32
117	Advances toward mapping the full extent of protein site-specific O-GalNAc glycosylation that better reflects underlying glycomic complexity. Current Opinion in Structural Biology, 2019, 56, 146-154.	5.7	32
118	Trehalose-containing lipooligosaccharides of Mycobacterium gordonae: Presence of a mono-O-methyltetra-O-acyltrehalose "core" and branching in the oligosaccharide backbone. Biochemistry, 1993, 32, 12705-12714.	2.5	31
119	Nitrite-Mediated S -Nitrosylation of Caspase-3 Prevents Hypoxia-Induced Endothelial Barrier Dysfunction. Circulation Research, 2011, 109, 1375-1386.	4.5	31
120	Carbohydrate Sulfation As a Mechanism for Fine-Tuning Siglec Ligands. ACS Chemical Biology, 2021, 16, 2673-2689.	3.4	31
121	Impact of a human CMP-sialic acid transporter on recombinant glycoprotein sialylation in glycoengineered insect cells. Glycobiology, 2013, 23, 199-210.	2.5	30
122	Purification and structural analysis of the novel glycoprotein allergen Cynâ€dâ€24, a pathogenesisâ€related protein PRâ€1, from Bermuda grass pollen. FEBS Journal, 2005, 272, 6218-6227.	4.7	29
123	Inâ€…Vivo Tagging and Characterization of Sâ€Glutathionylated Proteins by a Chemoenzymatic Method. Angewandte Chemie - International Edition, 2012, 51, 5871-5875.	13.8	29
124	Increasing the depth of mass spectrometry-based glycomic coverage by additional dimensions of sulfoglycomics and target analysis of permethylated glycans. Analytical and Bioanalytical Chemistry, 2013, 405, 6683-6695.	3.7	29
125	GEF-H1 controls focal adhesion signaling that regulates mesenchymal stem cell lineage commitment. Journal of Cell Science, 2014, 127, 4186-200.	2.0	29
126	Temporal regulation of Lsp1 O-GlcNAcylation and phosphorylation during apoptosis of activated B cells. Nature Communications, 2016, 7, 12526.	12.8	28

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127	Precise Mapping of Increased Sialylation Pattern and the Expression of Acute Phase Proteins Accompanying Murine Tumor Progression in BALB/c Mouse by Integrated Sera Proteomics and Glycomics. Journal of Proteome Research, 2008, 7, 3293-3303.	3.7	27
128	Structural analysist of N-glycans from gull egg white glycoproteins and egg yolk IgG. Glycobiology, 2009, 19, 693-706.	2.5	27
129	Further structural definition of a new family of glycopeptidolipids from Mycobacterium xenopi. Biochemistry, 1993, 32, 347-355.	2.5	26
130	Novel O-Methylated Terminal Glucuronic Acid Characterizes the Polar Glycopeptidolipids of Mycobacterium habana Strain TMC 5135. Journal of Biological Chemistry, 1996, 271, 12333-12342.	3.4	26
131	Concerted Experimental Approach for Sequential Mapping of Peptides and Phosphopeptides Using C18-Functionalized Magnetic Nanoparticles. Journal of Proteome Research, 2007, 6, 1313-1324.	3.7	26
132	Glycomic mapping of O- and N-linked glycans from major rat sublingual mucin. Glycoconjugate Journal, 2008, 25, 199-212.	2.7	26
133	Terminal disialylated multiantennary complex-type N-glycans carried on acutobin define the glycosylation characteristics of the Deinagkistrodon acutus venom. Glycobiology, 2011, 21, 530-542.	2.5	26
134	Expression of new KDN-gangliosides in rainbow trout testis during spermatogenesis and their structural identification. Glycobiology, 1995, 5, 207-218.	2.5	25
135	Efficient Mapping of Sulfated Glycotopes by Negative Ion Mode nanoLCâ€“MS/MS-Based Sulfoglycomic Analysis of Permethylated Glycans. Analytical Chemistry, 2015, 87, 6380-6388.	6.5	25
136	Targeted glycoengineering extends the protein N-glycosylation pathway in the silkworm silk gland. Insect Biochemistry and Molecular Biology, 2015, 65, 20-27.	2.7	25
137	Direct Mapping of Additional Modifications on Phosphorylated O-glycans of Î±-Dystroglycan by Mass Spectrometry Analysis in Conjunction with Knocking Out of Causative Genes for Dystroglycanopathy. Molecular and Cellular Proteomics, 2016, 15, 3424-3434.	3.8	25
138	Glycomic mapping of pseudomucinous human ovarian cyst glycoproteins: Identification of Lewis and sialyl Lewis glycotopes. Proteomics, 2007, 7, 3699-3717.	2.2	24
139	Advancing a High Throughput Glycotope-centric Glycomics Workflow Based on NAnoLC-MS2-product Dependent-MS3 ANAlysis of Permethylated Glycans*. Molecular and Cellular Proteomics, 2017, 16, 2268-2280.	3.8	24
140	Concerted mass spectrometry-based glycomic approach for precision mapping of sulfo sialylated N-glycans on human peripheral blood mononuclear cells and lymphocytes. Glycobiology, 2018, 28, 9-20.	2.5	24
141	Distinct substrate specificities of human GlcNAc-6-sulfotransferases revealed by mass spectrometryâ€“based sulfoglycomic analysis. Journal of Biological Chemistry, 2018, 293, 15163-15177.	3.4	24
142	New pyruvylated, glycosylated acyltrehaloses from Mycobacterium smegmatis strains, and their implications for phage resistance in mycobacteria. Carbohydrate Research, 1994, 251, 99-114.	2.3	23
143	Developmental regulation of oligosialylation in zebrafish. Glycoconjugate Journal, 2009, 26, 247-261.	2.7	23
144	Core2 O-Glycan Structure Is Essential for the Cell Surface Expression of Sucrase Isomaltase and Dipeptidyl Peptidase-IV during Intestinal Cell Differentiation. Journal of Biological Chemistry, 2010, 285, 37683-37692.	3.4	23

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145	Polysaccharides purified from the submerged culture of Ganoderma formosanum stimulate macrophage activation and protect mice against Listeria monocytogenes infection. Biotechnology Letters, 2011, 33, 2271-2278.	2.2	23
146	The identification and analysis of phosphorylation sites on the Atg1 protein kinase. Autophagy, 2011, 7, 716-726.	9.1	23
147	Fucosyltransferase 4 shapes oncogenic glycoproteome to drive metastasis of lung adenocarcinoma. EBioMedicine, 2020, 57, 102846.	6.1	23
148	Assignment of anomeric configurations of pyranose sugars in oligosaccharides using a sensitive FAB-MS strategy. Glycobiology, 1990, 1, 83-91.	2.5	22
149	Identification of Mono- and Disulfated N-Acetyl-lactosaminyl Oligosaccharide Structures as Epitopes Specifically Recognized by Humanized Monoclonal Antibody HMOCC-1 Raised against Ovarian Cancer. Journal of Biological Chemistry, 2012, 287, 6592-6602.	3.4	22
150	Sialylation of CD55 by ST3GAL1 Facilitates Immune Evasion in Cancer. Cancer Immunology Research, 2021, 9, 113-122.	3.4	22
151	A precise structural analysis of a fertilization-associated carbohydrate-rich glycopeptide isolated from the fertilized eggs of euryhaline killi fish (Fundulus heteroclitus). Novel penta-antennary N-glycan chains with a bisecting N-acetylglucosaminyl residue. Glycobiology, 1995, 5, 611-624.	2.5	21
152	Analysis of protein-linked glycosylation in a spermâ€“somatic cell adhesion system. Glycobiology, 2007, 17, 553-567.	2.5	21
153	Tyrosine Phosphoproteomics and Identification of Substrates of Protein Tyrosine Phosphatase dPTP61F in Drosophila S2 Cells by Mass Spectrometry-Based Substrate Trapping Strategy. Journal of Proteome Research, 2008, 7, 1055-1066.	3.7	21
154	Identification of Further Elongation and Branching of Dimeric Type 1 Chain on Lactosylceramides from Colonic Adenocarcinoma by Tandem Mass Spectrometry Sequencing Analyses. Journal of Biological Chemistry, 2008, 283, 16455-16468.	3.4	21
155	Glycomics and Proteomics Analyses of Mouse Uterine Luminal Fluid Revealed a Predominance of Lewis Y and X Epitopes on Specific Protein Carriers. Molecular and Cellular Proteomics, 2009, 8, 325-342.	3.8	21
156	Glucan Synthesis inPneumocystis carinii. Journal of Protozoology, 1991, 38, 427-437.	0.8	20
157	Phosphoproteomic Analysis Reveals the Effects of PilF Phosphorylation on Type IV Pilus and Biofilm Formation in Thermus thermophilus HB27. Molecular and Cellular Proteomics, 2013, 12, 2701-2713.	3.8	20
158	An adaptive workflow coupled with Random Forest algorithm to identify intact N-glycopeptides detected from mass spectrometry. Bioinformatics, 2014, 30, 1908-1916.	4.1	20
159	Transfer of the First Arabinofuranose Residue to Galactan Is Essential for Mycobacterium smegmatis Viability. Journal of Bacteriology, 2008, 190, 5248-5255.	2.2	19
160	Decoding the S-Nitrosoproteomic Atlas in Individualized Human Colorectal Cancer Tissues Using a Label-Free Quantitation Strategy. Journal of Proteome Research, 2014, 13, 4942-4958.	3.7	19
161	Distinctive and Complementary MS² Fragmentation Characteristics for Identification of Sulfated Sialylated N-Glycopeptides by nanoLC-MS/MS Workflow. Journal of the American Society for Mass Spectrometry, 2018, 29, 1166-1178.	2.8	19
162	The nutrient sensor OGT regulates Hipk stability and tumorigenic-like activities in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2004-2013.	7.1	19

#	Article	IF	Citations
163	ZIC-cHILIC-Based StageTip for Simultaneous Glycopeptide Enrichment and Fractionation toward Large-Scale N-Sialoglycoproteomics. Analytical Chemistry, 2021, 93, 15931-15940.	6.5	19
164	Mapping the Expressed Glycome and Glycosyltransferases of Zebrafish Liver Cells as a Relevant Model System for Glycosylation Studies. Journal of Proteome Research, 2012, 11, 2164-2177.	3.7	18
165	S -nitrosylation of endogenous protein tyrosine phosphatases in endothelial insulin signaling. Free Radical Biology and Medicine, 2016, 99, 199-213.	2.9	18
166	Functional roles of ST8SIA3-mediated sialylation of striatal dopamine D2 and adenosine A2A receptors. Translational Psychiatry, 2019, 9, 209.	4.8	18
167	Regioselective Lactonization ofÎ±-(2â†'8)-Trisialic Acid. Angewandte Chemie - International Edition, 1999, 38, 686-689.	13.8	17
168	Isolation and Characterization of a Pure Mannan fromOncidium(cv.Gower Ramsey) Current Pseudobulb during Initial Inflorescence Development. Bioscience, Biotechnology and Biochemistry, 2006, 70, 551-553.	1.3	17
169	Structural analysis of the asparagine-linked glycans from the procyclic Trypanosoma brucei and its glycosylation mutants resistant to Concanavalin A killing. Molecular and Biochemical Parasitology, 2000, 111, 173-184.	1.1	16
170	Priming mass spectrometry-based sulfoglycomic mapping for identification of terminal sulfated lacdiNAc glycotope. Glycoconjugate Journal, 2013, 30, 183-194.	2.7	16
171	An in Vivo Tagging Method Reveals that Ras Undergoes Sustained Activation upon Transglutaminaseâ€Mediated Protein Serotonylation. ChemBioChem, 2013, 14, 813-817.	2.6	16
172	A Single Arabinan Chain Is Attached to the Phosphatidylinositol Mannosyl Core of the Major Immunomodulatory Mycobacterial Cell Envelope Glycoconjugate, Lipoarabinomannan. Journal of Biological Chemistry, 2014, 289, 30249-30256.	3.4	16
173	Engineering Î²1,4-galactosyltransferase I to reduce secretion and enhance N-glycan elongation in insect cells. Journal of Biotechnology, 2015, 193, 52-65.	3.8	16
174	Distinct shifts in site-specific glycosylation pattern of SARS-CoV-2 spike proteins associated with arising mutations in the D614G and Alpha variants. Glycobiology, 2022, 32, 60-72.	2.5	16
175	Characterization of the specific antigenicity of representatives of M.senegalense and related bacteria. Zentralblatt Fur Bakteriologie: International Journal of Medical Microbiology, 1994, 281, 415-432.	0.5	15
176	Phosphorylation of the Zebrafish M6Ab at Serine 263 Contributes to Filopodium Formation in PC12 Cells and Neurite Outgrowth in Zebrafish Embryos. PLoS ONE, 2011, 6, e26461.	2.5	15
177	Characterization of Protein Serotonylation via Bioorthogonal Labeling and Enrichment. Journal of Proteome Research, 2014, 13, 3523-3529.	3.7	15
178	Uncovering protein polyamination by the spermine-specific antiserum and mass spectrometric analysis. Amino Acids, 2015, 47, 469-481.	2.7	15
179	Enhanced expression of Â3-galactosyltransferase 5 activity is sufficient to induce in vivo synthesis of extended type 1 chains on lactosylceramides of selected human colonic carcinoma cell lines. Glycobiology, 2008, 19, 418-427.	2.5	14
180	Glycan structures and intrageneric variations of venom acidic phospholipases A₂ from Tropidolaemus pitvipers. FEBS Journal, 2012, 279, 2672-2682.	4.7	14

#	Article	IF	Citations
181	Distribution of the GalÎ²1-4Gal Epitope among Birds: Species-Specific Loss of the Glycan Structure in Chicken and Its Relatives. PLoS ONE, 2013, 8, e59291.	2.5	14
182	Molecular Basis and Role of Siglec-7 Ligand Expression on Chronic Lymphocytic Leukemia B Cells. Frontiers in Immunology, 0, 13, .	4.8	14
183	Controlled Acid Hydrolysis of Colominic Acid under Microwave Irradiation. Analytical Biochemistry, 1999, 267, 287-293.	2.4	13
184	Evaluation of Drosophila Metabolic Labeling Strategies for in Vivo Quantitative Proteomic Analyses with Applications to Early Pupa Formation and Amino Acid Starvation. Journal of Proteome Research, 2013, 12, 2138-2150.	3.7	13
185	Advanced mass spectrometry and chemical analyses reveal the presence of terminal disialyl motif on mouse B-cell glycoproteins. Glycobiology, 2013, 23, 677-689.	2.5	12
186	Phosphoproteomic analyses reveal that galectin-1 augments the dynamics of B-cell receptor signaling. Journal of Proteomics, 2014, 103, 241-253.	2.4	12
187	Mycobacterium bovis BCG infection alters the macrophage N-glycome. Molecular Omics, 2020, 16, 345-354.	2.8	12
188	N-Glycosylation profiling of turtle egg yolk: expression of galabiose structure. Carbohydrate Research, 2010, 345, 442-448.	2.3	11
189	Selective Extraction and Effective Separation of Galactosylsphingosine (Psychosine) and Glucosylsphingosine from Other Glycosphingolipids in Pathological Tissue Samples. Neurochemical Research, 2011, 36, 1612-1622.	3.3	11
190	Structural definition of the glycopeptidolipids and the pyruvylated, glycosylated acyltrehalose from Mycobacterium butyricum. Carbohydrate Research, 1995, 276, 449-455.	2.3	10
191	Strategic Applications of Negative-Mode LC-MS/MS Analyses to Expedite Confident Mass Spectrometry-Based Identification of Multiple Glycosylated Peptides. Analytical Chemistry, 2020, 92, 7612-7620.	6.5	10
192	Antibody-assisted target identification reveals afatinib, an EGFR covalent inhibitor, down-regulating ribonucleotide reductase. Oncotarget, 2018, 9, 21512-21529.	1.8	10
193	Determination of N-Glycosylation Site and Glycan Structures of Pectin Methylesterase in Jelly Fig (Ficus awkeotsang) Achenes. Journal of Agricultural and Food Chemistry, 2009, 57, 6757-6763.	5.2	9
194	Characteristic Tandem Mass Spectral Features Under Various Collision Chemistries for Site-Specific Identification of Protein S-Glutathionylation. Journal of the American Society for Mass Spectrometry, 2015, 26, 120-132.	2.8	9
195	Structural Variations in Schistosomal Glycans.. Trends in Glycoscience and Glycotechnology, 2001, 13, 493-506.	0.1	9
196	Identification of blood group A/Aâ€Le^{b/y} and B/Bâ€Le^{b/y} active glycotopes coâ€expressed on the Oâ€glycans isolated from two distinct human ovarian cyst fluids. Proteomics, 2009, 9, 3445-3462.	2.2	8
197	MSâ€based glycomic strategies for probing the structural details of polylactosaminoglycan chain on Nâ€glycans and glycoproteomic identification of its protein carriers. Proteomics, 2011, 11, 2812-2829.	2.2	8
198	Identification of the Mycobacterium marinum Apa antigen O-mannosylation sites reveals important glycosylation variability with the M. tuberculosis Apa homologue. Journal of Proteomics, 2012, 75, 5695-5705.	2.4	8

#	Article	IF	Citations
199	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. Glycobiology, 2013, 23, 1422-1424.	2.5	8
200	In Vivo Regulation of Steroid Hormones by the Chst10 Sulfotransferase in Mouse. Journal of Biological Chemistry, 2013, 288, 5007-5016.	3.4	8
201	Facile removal of high mannose structures prior to extracting complex type Nâ€glycans from deâ€Nâ€glycosylated peptides retained by C18 solid phase to allow more efficient glycomic mapping. Proteomics, 2014, 14, 87-92.	2.2	8
202	Glycoproteomic software solutions spotlight glycans. Nature Methods, 2021, 18, 1457-1458.	19.0	8
203	Proteomic identification of specific glycosyltransferases functionally implicated for the biosynthesis of a targeted glycoâ€epitope. Proteomics, 2008, 8, 475-483.	2.2	7
204	Targeted identification of phosphorylated peptides by offâ€line HPLCâ€“MALDIâ€MS/MS using LC retention time prediction. Journal of Mass Spectrometry, 2008, 43, 1649-1658.	1.6	7
205	Correlation between the Glycan Variations and Defibrinogenating Activities of Acutobin and Its Recombinant Glycoforms. PLoS ONE, 2014, 9, e100354.	2.5	7
206	Novel Zebrafish Mono-Î±2,8-sialyltransferase (ST8Sia VIII): An Evolutionary Perspective of Î±2,8-Sialylation. International Journal of Molecular Sciences, 2019, 20, 622.	4.1	7
207	Covalent structure determination of glycopolymers. Current Opinion in Structural Biology, 1993, 3, 687-693.	5.7	6
208	A single step method for purification of sulfated oligosaccharides. Glycoconjugate Journal, 2008, 25, 903-915.	2.7	6
209	Attenuation of fibroblast growth factor signaling by polyâ€Nâ€acetyllactosamine type glycans. FEBS Letters, 2013, 587, 3195-3201.	2.8	6
210	Identifying Specific and Differentially Linked Glycosyl Residues in Mammalian Glycans by Targeted LC-MS Analysis. Analytical Sciences, 2018, 34, 1049-1054.	1.6	6
211	S9.1 Applications of mass spectrometry to glycobiology. Glycoconjugate Journal, 1993, 10, 275-276.	2.7	5
212	Target identification reveals protein arginine methyltransferase 1 is a potential target of phenyl vinyl sulfone and its derivatives. Bioscience Reports, 2018, 38, .	2.4	5
213	Structural Analysis of Oligosaccharides: FAB-MS, ES-MS and MALDI-MS. , 0, , 915-945.		4
214	Production of Structurally Defined Chito-Oligosaccharides with a Single N-Acetylation at Their Reducing End Using a Newly Discovered Chitinase from Paenibacillus pabuli. Journal of Agricultural and Food Chemistry, 2021, 69, 3371-3379.	5.2	4
215	Establishment of a novel monoclonal antibody against truncated glycoforms of Î±-dystroglycan lacking matriglycans. Biochemical and Biophysical Research Communications, 2021, 579, 8-14.	2.1	4
216	Ndt80p is involved in l-sorbose utilization through regulating SOU1 in Candida albicans. International Journal of Medical Microbiology, 2015, 305, 170-173.	3.6	3

#	Article	IF	Citations
217	Useful Mimics for Mammalian Eggs: The Development of Porcine Ovabeads.. Biology of Reproduction, 2012, 87, 61-61.	2.7	3
218	Sequencing of Oligosaccharides and Glycoproteins. , 2005, , 461-482.		2
219	A mass spectrometry-based glycotope-centric cellular glycomics is the more fruitful way forward to see the forest for the trees. Biochemical Society Transactions, 2021, 49, 55-69.	3.4	2
220	Mass Spectrometry Mass spectrometry -Based Protein Glycosylation Analysis Glycosylation analysis from Sulfoglycomics Sulfoglycomics to Glycoproteomics. , 2015, , 79-86.		2
221	Negative Ion Mode nanoLC-ESI-MS/MS Analyses of Permethylated Sulfated Glycans. Bio-protocol, 2020, 10, e3618.	0.4	2
222	Permethylation and Microfractionation of Sulfated Glycans for MS Analysis. Bio-protocol, 2020, 10, e3617.	0.4	2
223	Discovery Sulfoglycomics and Identification of the Characteristic Fragment Ions for High-Sensitivity Precise Mapping of Adult Zebrafish Brainâ€“Specific Glycotopes. Frontiers in Molecular Biosciences, 2021, 8, 771447.	3.5	2
224	Cancer Malignancy Is Correlated with Upregulation of PCYT2-Mediated Glycerol Phosphate Modification of Î±-Dystroglycan. International Journal of Molecular Sciences, 2022, 23, 6662.	4.1	2
225	An embeddable molecular code for Lewis X modification through interaction with fucosyltransferase 9. Communications Biology, 2022, 5, .	4.4	2
226	From Mass Spectrometry-Based Glycosylation Analysis to Glycomics and Glycoproteomics. Advances in Neurobiology, 2014, 9, 129-164.	1.8	1
227	Abstract 2305: Role of ST3Gal1 sialyltransferase in breast cancer cells. , 2011, , .		1
228	S9.14 Precise structural determination of unique highly branched multiantennaryN-glycan units present in fish egg hyosophorin. Glycoconjugate Journal, 1993, 10, 280-280.	2.7	0
229	S19.6 FAB-MS sequencing of mycobacterial glycolipid antigens. Glycoconjugate Journal, 1993, 10, 335-336.	2.7	0
230	Introduction. Glycoconjugate Journal, 2006, 23, 273-276.	2.7	0
231	MS-Based Glycoanalysis. , 2010, , 123-156.		0
232	60. Glycan Structures and Intrageneric Variations of Acidic Phospholipases A2 from Tropidolaemus Venom. Toxicon, 2012, 60, 124-125.	1.6	0
233	Putative xylosyltransferase genes in Trichomonas vaginalis. Soft Computing, 2012, 16, 381-391.	3.6	0
234	Structural correlation of glycoinositol phospholipids and pathological spectra of leishmaniasis from the old world parasite isolates. FASEB Journal, 2006, 20, LB57.	0.5	0

#	Article	IF	Citations
235	Mass Spectrometry-Based Protein Glycosylation Analysis from Sulfoglycomics to Glycoproteomics. , 2014, , 1-7.		0
236	GEF-H1 controls focal adhesion signaling that regulates mesenchymal stem cell lineage commitment. Development (Cambridge), 2014, 141, e2005-e2005.	2.5	0
237	Abstract 6527: Targeting glycosylated PD-1 induces potent anti-tumor immunity. , 2020, , .		0