Manfred Wuhrer

List of Publications by Year
in descending order

393	23,545	5574 82	16183 124
papers	citations	h-index	g-index

417	417	417	16125
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High Throughput Isolation and Glycosylation Analysis of IgGâ€“Variability and Heritability of the IgG Glycome in Three Isolated Human Populations. Molecular and Cellular Proteomics, 2011, 10, M111.010090.	3.8	443
2	Glycan labeling strategies and their use in identification and quantification. Analytical and Bioanalytical Chemistry, 2010, 397, 3457-3481.	3.7	422
3	Glycoproteomics based on tandem mass spectrometry of glycopeptides. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 849, 115-128.	2.3	383
4	Receptor binding studies disclose a novel class of highâ€affinity inhibitors of the Escherichia coli FimH adhesin. Molecular Microbiology, 2005, 55, 441-455.	2.5	372
5	Human plasma protein N-glycosylation. Glycoconjugate Journal, 2016, 33, 309-343.	2.7	325
6	Loci Associated with N-Glycosylation of Human Immunoglobulin G Show Pleiotropy with Autoimmune Diseases and Haematological Cancers. PLoS Genetics, 2013, 9, e1003225.	3.5	323
7	Cotton HILIC SPE Microtips for Microscale Purification and Enrichment of Glycans and Glycopeptides. Analytical Chemistry, 2011, 83, 2492-2499.	6.5	309
8	High-Throughput Profiling of Protein N-Glycosylation by MALDI-TOF-MS Employing Linkage-Specific Sialic Acid Esterification. Analytical Chemistry, 2014, 86, 5784-5793.	6.5	298
9	IgG glycosylation analysis. Proteomics, 2009, 9, 882-913.	2.2	292
10	Regulation of autoantibody activity by the IL-23â€“TH17 axis determines the onset of autoimmune disease. Nature Immunology, 2017, 18, 104-113.	14.5	274
11	Decoding the Human Immunoglobulin G-Glycan Repertoire Reveals a Spectrum of Fc-Receptor- and Complement-Mediated-Effector Activities. Frontiers in Immunology, 2017, 8, 877.	4.8	269
12	Glycosylation profiling of immunoglobulin G (IgG) subclasses from human serum. Proteomics, 2007, 7, 4070-4081.	2.2	250
13	Afucosylated IgG characterizes enveloped viral responses and correlates with COVID-19 severity. Science, 2021, 371, .	12.6	244
14	Immunoglobulin G galactosylation and sialylation are associated with pregnancy-induced improvement of rheumatoid arthritis and the postpartum flare: results from a large prospective cohort study. Arthritis Research and Therapy, 2009, 11, R193.	3.5	241
15	Structural glycomics using hydrophilic interaction chromatography (HILIC) with mass spectrometry. Mass Spectrometry Reviews, 2009, 28, 192-206.	5.4	230
16	Anti-citrullinated protein antibodies acquire a pro-inflammatory Fc glycosylation phenotype prior to the onset of rheumatoid arthritis. Annals of the Rheumatic Diseases, 2015, 74, 234-241.	0.9	225
17	Immunoglobulin G (IgG) Fab Glycosylation Analysis Using a New Mass Spectrometric High-throughput Profiling Method Reveals Pregnancy-associated Changes. Molecular and Cellular Proteomics, 2014, 13, 3029-3039.	3.8	216
18	Hydrophilic Interaction Chromatography-Based High-Throughput Sample Preparation Method for N-Glycan Analysis from Total Human Plasma Glycoproteins. Analytical Chemistry, 2008, 80, 6119-6126.	6.5	194

#	Article	IF	Citations
19	Protein glycosylation analysis by liquid chromatographyâ€“mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 825, 124-133.	2.3	189
20	N-glycomic biomarkers of biological aging and longevity: A link with inflammaging. Ageing Research Reviews, 2013, 12, 685-698.	10.9	189
21	A prominent lack of IgG1-Fc fucosylation of platelet alloantibodies in pregnancy. Blood, 2014, 123, 471-480.	1.4	187
22	Glycan profiling of antiâ€“citrullinated protein antibodies isolated from human serum and synovial fluid. Arthritis and Rheumatism, 2010, 62, 1620-1629.	6.7	183
23	High-Throughput IgG Fc N-Glycosylation Profiling by Mass Spectrometry of Glycopeptides. Journal of Proteome Research, 2013, 12, 821-831.	3.7	178
24	Oligosaccharide analysis by graphitized carbon liquid chromatographyâ€“mass spectrometry. Analytical and Bioanalytical Chemistry, 2009, 394, 163-174.	3.7	173
25	Recent advances in hydrophilic interaction liquid chromatography (HILIC) for structural glycomics. Electrophoresis, 2011, 32, 3456-3466.	2.4	169
26	Comparative Performance of Four Methods for High-throughput Glycosylation Analysis of Immunoglobulin G in Genetic and Epidemiological Research. Molecular and Cellular Proteomics, 2014, 13, 1598-1610.	3.8	169
27	High titers and low fucosylation of early human antiâ€“SARS-CoV-2 IgG promote inflammation by alveolar macrophages. Science Translational Medicine, 2021, 13, .	12.4	166
28	Relevance and use of capillary coatings in capillary electrophoresisâ€“mass spectrometry. Analytical and Bioanalytical Chemistry, 2010, 396, 297-314.	3.7	165
29	Extensive glycosylation of ACPA-IgG variable domains modulates binding to citrullinated antigens in rheumatoid arthritis. Annals of the Rheumatic Diseases, 2016, 75, 578-585.	0.9	161
30	Linkage-Specific in Situ Sialic Acid Derivatization for N-Glycan Mass Spectrometry Imaging of Formalin-Fixed Paraffin-Embedded Tissues. Analytical Chemistry, 2016, 88, 5904-5913.	6.5	158
31	Fc-Glycosylation of IgG1 is Modulated by B-cell Stimuli. Molecular and Cellular Proteomics, 2011, 10, M110.004655.	3.8	156
32	2â€Picolineâ€borane: A nonâ€toxic reducing agent for oligosaccharide labeling by reductive amination. Proteomics, 2010, 10, 2330-2336.	2.2	154
33	Association between Galactosylation of Immunoglobulin G and Improvement of Rheumatoid Arthritis during Pregnancy Is Independent of Sialylation. Journal of Proteome Research, 2013, 12, 4522-4531.	3.7	150
34	Glycoproteomic Analysis of Antibodies. Molecular and Cellular Proteomics, 2013, 12, 856-865.	3.8	146
35	N-glycosylation of Colorectal Cancer Tissues. Molecular and Cellular Proteomics, 2012, 11, 571-585.	3.8	144
36	Fc specific IgG glycosylation profiling by robust nano-reverse phase HPLC-MS using a sheath-flow ESI sprayer interface. Journal of Proteomics, 2012, 75, 1318-1329.	2.4	141

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37	IgA subclasses have different effector functions associated with distinct glycosylation profiles. Nature Communications, 2020, 11, 120.	12.8	141
38	Optimized Workflow for Preparation of APTS-Labeled N-Glycans Allowing High-Throughput Analysis of Human Plasma Glycomes using 48-Channel Multiplexed CGE-LIF. Journal of Proteome Research, 2010, 9, 6655-6664.	3.7	140
39	Comparison of methods for the analysis of therapeutic immunoglobulin G Fc-glycosylation profilesâ€"Part 1: Separation-based methods. MAbs, 2015, 7, 167-179.	5.2	139
40	Mass spectrometry of proton adducts of fucosylated N-glycans: fucose transfer between antennae gives rise to misleading fragments. Rapid Communications in Mass Spectrometry, 2006, 20, 1747-1754.	1.5	136
41	Protein Glycosylation Analyzed by Normal-Phase Nano-Liquid Chromatographyâ^'Mass Spectrometry of Glycopeptides. Analytical Chemistry, 2005, 77, 886-894.	6.5	130
42	Serum sialylation changes in cancer. Glycoconjugate Journal, 2018, 35, 139-160.	2.7	127
43	Mass spectrometric glycan rearrangements. Mass Spectrometry Reviews, 2011, 30, 664-680.	5.4	126
44	The role of glycosylation in IBD. Nature Reviews Gastroenterology and Hepatology, 2014, 11, 588-600.	17.8	123
45	Subclass-specific IgG glycosylation is associated with markers of inflammation and metabolic health. Scientific Reports, 2017, 7, 12325.	3.3	123
46	Glycomics using mass spectrometry. Glycoconjugate Journal, 2013, 30, 11-22.	2.7	122
47	Glycosylation Characteristics of Colorectal Cancer. Advances in Cancer Research, 2015, 126, 203-256.	5.0	120
48	Normal-Phase Nanoscale Liquid Chromatographyâ^'Mass Spectrometry of Underivatized Oligosaccharides at Low-Femtomole Sensitivity. Analytical Chemistry, 2004, 76, 833-838.	6.5	119
49	Changes in Antigen-specific IgG1 Fc N-glycosylation Upon Influenza and Tetanus Vaccination. Molecular and Cellular Proteomics, 2012, 11, M111.014563.	3.8	117
50	Glycosylation of Immunoglobulin G Associates With Clinical Features of Inflammatory Bowel Diseases. Gastroenterology, 2018, 154, 1320-1333.e10.	1.3	116
51	Comparison of methods for the analysis of therapeutic immunoglobulin G Fc-glycosylation profilesâ€"Part 2: Mass spectrometric methods. MAbs, 2015, 7, 732-742.	5.2	114
52	LaCyTools: A Targeted Liquid Chromatographyâ€"Mass Spectrometry Data Processing Package for Relative Quantitation of Glycopeptides. Journal of Proteome Research, 2016, 15, 2198-2210.	3.7	114
53	Regulated Glycosylation Patterns of IgG during Alloimmune Responses against Human Platelet Antigens. Journal of Proteome Research, 2009, 8, 450-456.	3.7	112
54	Linkage-Specific Sialic Acid Derivatization for MALDI-TOF-MS Profiling of IgG Glycopeptides. Analytical Chemistry, 2015, 87, 8284-8291.	6.5	112

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55	Low antiâ€<scp>R</scp>h<scp>D I</scp>g<scp>G</scp>â€<scp>F</scp>câ€fucosylation in pregnancy: a new variable predicting severity in haemolytic disease of the fetus and newborn. British Journal of Haematology, 2014, 166, 936-945.	2.5	109
56	The Art of Destruction: Optimizing Collision Energies in Quadrupole-Time of Flight (Q-TOF) Instruments for Glycopeptide-Based Glycoproteomics. Journal of the American Society for Mass Spectrometry, 2016, 27, 507-519.	2.8	109
57	Multi-level glyco-engineering techniques to generate IgG with defined Fc-glycans. Scientific Reports, 2016, 6, 36964.	3.3	108
58	MassyTools: A High-Throughput Targeted Data Processing Tool for Relative Quantitation and Quality Control Developed for Glycomic and Glycoproteomic MALDI-MS. Journal of Proteome Research, 2015, 14, 5088-5098.	3.7	107
59	Immunoglobulin G Glycopeptide Profiling by Matrix-Assisted Laser Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2010, 82, 1073-1081.	6.5	106
60	Decreased Levels of Bisecting GlcNAc Glycoforms of IgG Are Associated with Human Longevity. PLoS ONE, 2010, 5, e12566.	2.5	104
61	Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: The ABRF Glycoprotein Research Multi-Institutional Study 2012. Molecular and Cellular Proteomics, 2013, 12, 2935-2951.	3.8	103
62	The Role of Glycosphingolipids in Immune Cell Functions. Frontiers in Immunology, 2019, 10, 90.	4.8	101
63	FcÎ³R Binding and ADCC Activity of Human IgG Allotypes. Frontiers in Immunology, 2020, 11, 740.	4.8	101
64	Enrichment of Sialylated IgG by Lectin Fractionation Does Not Enhance the Efficacy of Immunoglobulin G in a Murine Model of Immune Thrombocytopenia. PLoS ONE, 2011, 6, e21246.	2.5	100
65	Two-Dimensional N-Glycan Distribution Mapping of Hepatocellular Carcinoma Tissues by MALDI-Imaging Mass Spectrometry. Biomolecules, 2015, 5, 2554-2572.	4.0	99
66	Characterization of N-glycans from mouse brain neural cell adhesion molecule. Glycobiology, 2001, 11, 373-384.	2.5	98
67	Adaptive antibody diversification through N -linked glycosylation of the immunoglobulin variable region. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1901-1906.	7.1	98
68	Protein glycosylation analysis by HILICâ€LCâ€MS of Proteinase Kâ€generated Nâ€•and Oâ€glycopeptides. Journal of Separation Science, 2010, 33, 903-910.	2.5	96
69	Reversed-phase separation methods for glycan analysis. Analytical and Bioanalytical Chemistry, 2017, 409, 359-378.	3.7	94
70	Altered glycosylation of IgG4 promotes lectin complement pathway activation in anti-PLA2R1â€“associated membranous nephropathy. Journal of Clinical Investigation, 2021, 131, .	8.2	94
71	Electron transfer dissociation ofN-glycopeptides: loss of the entireN-glycosylated asparagine side chain. Rapid Communications in Mass Spectrometry, 2007, 21, 1053-1061.	1.5	93
72	Serum antibody screening by surface plasmon resonance using a natural glycan microarray. Glycoconjugate Journal, 2008, 25, 75-84.	2.7	92

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73	Changes in Healthy Human IgG Fc-Glycosylation after Birth and during Early Childhood. Journal of Proteome Research, 2016, 15, 1853-1861.	3.7	91
74	Hinge-Region O-Glycosylation of Human Immunoglobulin G3 (IgG3). Molecular and Cellular Proteomics, 2015, 14, 1373-1384.	3.8	90
75	Identification of sequence variants influencing immunoglobulin levels. Nature Genetics, 2017, 49, 1182-1191.	21.4	90
76	Highly sensitive CE-ESI-MS analysis of N-glycans from complex biological samples. Nature Communications, 2019, 10, 2137.	12.8	90
77	Glycosylation of immunoglobulin G is regulated by a large network of genes pleiotropic with inflammatory diseases. Science Advances, 2020, 6, eaax0301.	10.3	90
78	Molecular characterization of omega-1: A hepatotoxic ribonuclease from Schistosoma mansoni eggs. Molecular and Biochemical Parasitology, 2005, 144, 123-127.	1.1	89
79	Inhibition of FcÎ³R-mediated phagocytosis by IVIg is independent of IgG-Fc sialylation and FcÎ³RIIb in human macrophages. Blood, 2014, 124, 3709-3718.	1.4	89
80	Identification and Characterization of Keyhole Limpet Hemocyanin N-Glycans Mediating Cross-reactivity with Schistosoma mansoni. Journal of Biological Chemistry, 2005, 280, 40731-40748.	3.4	87
81	General Microarray Technique for Immobilization and Screening of Natural Glycans. Analytical Chemistry, 2007, 79, 8107-8113.	6.5	87
82	Plasma protein N-glycan profiles are associated with calendar age, familial longevity and health. Journal of Proteome Research, 2011, 10, 1667-1674.	3.7	87
83	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. Molecular and Cellular Proteomics, 2020, 19, 11-30.	3.8	87
84	Glycopeptide analysis by matrix-assisted laser desorption/ionization tandem time-of-flight mass spectrometry reveals novel features of horseradish peroxidase glycosylation. Rapid Communications in Mass Spectrometry, 2004, 18, 1741-1748.	1.5	86
85	Protein O-glycosylation analysis. Biological Chemistry, 2012, 393, 687-708.	2.5	86
86	Pro-inflammatory pattern of IgG1 Fc glycosylation in multiple sclerosis cerebrospinal fluid. Journal of Neuroinflammation, 2015, 12, 235.	7.2	86
87	Multimodal Mass Spectrometry Imaging of N-Glycans and Proteins from the Same Tissue Section. Analytical Chemistry, 2016, 88, 7745-7753.	6.5	86
88	Glycomics-driven discoveries in schistosome research. Experimental Parasitology, 2007, 117, 275-283.	1.2	85
89	Site-Specific N-Glycosylation Analysis of Human Immunoglobulin E. Journal of Proteome Research, 2014, 13, 536-546.	3.7	85
90	IgG Fc N-Glycosylation Changes in Lambert-Eaton Myasthenic Syndrome and Myasthenia Gravis. Journal of Proteome Research, 2011, 10, 143-152.	3.7	84

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91	Glycomic Analysis of Life Stages of the Human Parasite Schistosoma mansoni Reveals Developmental Expression Profiles of Functional and Antigenic Glycan Motifs*. Molecular and Cellular Proteomics, 2015, 14, 1750-1769.	3.8	84
92	High-Throughput Analysis and Automation for Glycomics Studies. Chromatographia, 2015, 78, 321-333.	1.3	84
93	Glycosylation pattern of antiâ€platelet IgG is stable during pregnancy and predicts clinical outcome in alloimmune thrombocytopenia. British Journal of Haematology, 2016, 174, 310-320.	2.5	83
94	IPSE/alpha-1, a major secretory glycoprotein antigen from schistosome eggs, expresses the Lewis X motif on core-difucosylated N-glycans. FEBS Journal, 2006, 273, 2276-2292.	4.7	82
95	Structural Analysis of Variable Domain Glycosylation of Anti-Citrullinated Protein Antibodies in Rheumatoid Arthritis Reveals the Presence of Highly Sialylated Glycans. Molecular and Cellular Proteomics, 2017, 16, 278-287.	3.8	82
96	Sialic acid linkage differentiation of glycopeptides using capillary electrophoresis â€“ electrospray ionization â€“ mass spectrometry. Scientific Reports, 2017, 7, 3733.	3.3	82
97	Automation of High-Throughput Mass Spectrometry-Based Plasma N-Glycome Analysis with Linkage-Specific Sialic Acid Esterification. Journal of Proteome Research, 2015, 14, 4080-4086.	3.7	81
98	Prominent members of the human gut microbiota express endo-acting O-glycanases to initiate mucin breakdown. Nature Communications, 2020, 11, 4017.	12.8	81
99	Plasma N-Glycan Signatures Are Associated With Features ofÂInflammatory Bowel Diseases. Gastroenterology, 2018, 155, 829-843.	1.3	80
100	Nâ€Linked Glycans in the Variable Domain of IgG Antiâ€“Citrullinated Protein Antibodies Predict the Development of Rheumatoid Arthritis. Arthritis and Rheumatology, 2019, 71, 1626-1633.	5.6	80
101	Schistosoma mansoni cercarial glycolipids are dominated by Lewis X and pseudo-Lewis Y structures. Glycobiology, 2000, 10, 89-101.	2.5	79
102	Galactosylation and Sialylation Levels of IgG Predict Relapse in Patients With PR3-ANCA Associated Vasculitis. EBioMedicine, 2017, 17, 108-118.	6.1	79
103	Estrogen induces St6gal1 expression and increases IgG sialylation in mice and patients with rheumatoid arthritis: a potential explanation for the increased risk of rheumatoid arthritis in postmenopausal women. Arthritis Research and Therapy, 2018, 20, 84.	3.5	79
104	PHGDH heterogeneity potentiates cancerÂcell dissemination and metastasis. Nature, 2022, 605, 747-753.	27.8	77
105	Structural Analysis of Glycoconjugates by On-Target Enzymatic Digestion and MALDI-TOF-MS. Analytical Chemistry, 1999, 71, 476-482.	6.5	76
106	Comparison of the Fc glycosylation of fetal and maternal immunoglobulin G. Glycoconjugate Journal, 2013, 30, 147-157.	2.7	76
107	Monitoring of immunoglobulin N- and O-glycosylation in health and disease. Glycobiology, 2020, 30, 226-240.	2.5	75
108	Polymorphisms in B3GAT1, SLC9A9 and MGAT5 are associated with variation within the human plasma N-glycome of 3533 European adults. Human Molecular Genetics, 2011, 20, 5000-5011.	2.9	74

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109	Clinical Glycomics Employing Graphitized Carbon Liquid Chromatographyâ€“Mass Spectrometry. Chromatographia, 2015, 78, 307-320.	1.3	74
110	Glycomics studies using sialic acid derivatization and mass spectrometry. Nature Reviews Chemistry, 2020, 4, 229-242.	30.2	74
111	A novel Gal(beta1-4)Gal(beta1-4)Fuc(alpha1-6)-core modification attached to the proximal N-acetylglucosamine of keyhole limpet haemocyanin (KLH) N-glycans. Biochemical Journal, 2004, 378, 625-632.	3.7	73
112	High-Throughput Analysis of IgG Fc Glycopeptides by LC-MS. Methods in Molecular Biology, 2017, 1503, 31-47.	0.9	73
113	Lack of complex N-glycans on HIV-1 envelope glycoproteins preserves protein conformation and entry function. Virology, 2010, 401, 236-247.	2.4	72
114	The major secreted protein Msp1/p75 is O-glycosylated in Lactobacillus rhamnosus GG. Microbial Cell Factories, 2012, 11, 15.	4.0	72
115	N-glycosylation Profiling of Colorectal Cancer Cell Lines Reveals Association of Fucosylation with Differentiation and Caudal Type Homebox 1 (CDX1)/Villin mRNA Expression. Molecular and Cellular Proteomics, 2016, 15, 124-140.	3.8	72
116	Hemocyanin from the keyhole limpet Megathura crenulata (KLH) carries a novel type of N-glycans with Gal(Î²1-6)Man-motifs. FEBS Journal, 2002, 269, 5459-5473.	0.2	71
117	Maternal and Fetal Mechanisms of B Cell Regulation during Pregnancy: Human Chorionic Gonadotropin Stimulates B Cells to Produce IL-10â€‰While Alpha-Fetoprotein Drives Them into Apoptosis. Frontiers in Immunology, 2016, 7, 495.	4.8	71
118	IgG1 Fc N-glycan galactosylation as a biomarker for immune activation. Scientific Reports, 2016, 6, 28207.	3.3	71
119	Site-Specific Protein N- and O-Glycosylation Analysis by a C18-Porous Graphitized Carbonâ€“Liquid Chromatography-Electrospray Ionization Mass Spectrometry Approach Using Pronase Treated Glycopeptides. Analytical Chemistry, 2015, 87, 11691-11699.	6.5	70
120	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. Nature Communications, 2019, 10, 3275.	12.8	70
121	Automated High-Throughput Permethylation for Glycosylation Analysis of Biologics Using MALDI-TOF-MS. Analytical Chemistry, 2016, 88, 8562-8569.	6.5	69
122	High-throughput Serum N-Glycomics: Method Comparison and Application to Study Rheumatoid Arthritis and Pregnancy-associated Changes. Molecular and Cellular Proteomics, 2019, 18, 3-15.	3.8	69
123	Mass spectrometry for glycosylation analysis of biopharmaceuticals. TrAC - Trends in Analytical Chemistry, 2015, 73, 1-9.	11.4	67
124	Site-specific O-Glycosylation Analysis of Human Blood Plasma Proteins. Molecular and Cellular Proteomics, 2016, 15, 624-641.	3.8	67
125	Enhanced Effector Functions Due to Antibody Defucosylation Depend on the Effector Cell FcÎ³ Receptor Profile. Journal of Immunology, 2017, 199, 204-211.	0.8	67
126	Network inference from glycoproteomics data reveals new reactions in the IgG glycosylation pathway. Nature Communications, 2017, 8, 1483.	12.8	67

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127	Oligosaccharide analysis by capillary-scale high-pH anion-exchange chromatography with on-line ion-trap mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 829, 136-143.	2.3	66
128	Repeats of LacdiNAc and fucosylated LacdiNAc on Nâ€glycans of the human parasite Schistosoma mansoni. FEBS Journal, 2006, 273, 347-361.	4.7	66
129	Genome-Wide Association Study on Immunoglobulin G Glycosylation Patterns. Frontiers in Immunology, 2018, 9, 277.	4.8	66
130	Aberrant glycosylation of anti-SARS-CoV-2 spike IgG is a prothrombotic stimulus for platelets. Blood, 2021, 138, 1481-1489.	1.4	66
131	Suppression of peeling during the release of O-glycans by hydrazinolysis. Analytical Biochemistry, 2012, 423, 119-128.	2.4	63
132	Mapping fucosylated epitopes on glycoproteins and glycolipids ofSchistosoma mansonicercariae, adult worms and eggs. Parasitology, 2005, 130, 67-77.	1.5	62
133	High-throughput work flow for IgG Fc-glycosylation analysis of biotechnological samples. Analytical Biochemistry, 2013, 432, 82-89.	2.4	62
134	Nâ€glycome signatures in human plasma: associations with physiology and major diseases. FEBS Letters, 2019, 593, 2966-2976.	2.8	62
135	Characterization of glycosphingolipids fromSchistosoma mansonieggs carrying Fuc(Î±1-3)GalNAc-, GalNAc(Î²1-4)[Fuc(Î±1-3)]GlcNAc- and Gal(Î²1-4)[Fuc(Î±1-3)]GlcNAc- (Lewis X) terminal structures. FEBS Journal, 2002, 269, 481-493.	0.2	61
136	Efficient introduction of a bisecting GlcNAc residue in tobacco N-glycans by expression of the gene encoding human N-acetylglucosaminyltransferase III. Glycobiology, 2007, 17, 334-344.	2.5	61
137	Localization and characterization of polysialic acid-containing N-linked glycans from bovine NCAM. Glycobiology, 2002, 12, 47-63.	2.5	60
138	Mass spectrometric O-glycan analysis after combined O-glycan release by beta-elimination and 1-phenyl-3-methyl-5-pyrazolone labeling. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1420-1428.	2.4	60
139	Amino acid analysis using chromatographyâ€“mass spectrometry: An inter platform comparison study. Journal of Pharmaceutical and Biomedical Analysis, 2015, 114, 398-407.	2.8	60
140	Dopant Enriched Nitrogen Gas Combined with Sheathless Capillary Electrophoresisâ€“Electrospray Ionization-Mass Spectrometry for Improved Sensitivity and Repeatability in Glycopeptide Analysis. Analytical Chemistry, 2016, 88, 5849-5856.	6.5	60
141	Glycomics of bone marrow-derived mesenchymal stem cells can be used to evaluate their cellular differentiation stage. Glycoconjugate Journal, 2009, 26, 367-384.	2.7	59
142	Comparative Glycomics of Immunoglobulin A and G From Saliva and Plasma Reveals Biomarker Potential. Frontiers in Immunology, 2018, 9, 2436.	4.8	59
143	Human Plasma N-glycosylation as Analyzed by Matrix-Assisted Laser Desorption/Ionization-Fourier Transform Ion Cyclotron Resonance-MS Associates with Markers of Inflammation and Metabolic Health. Molecular and Cellular Proteomics, 2017, 16, 228-242.	3.8	58
144	The N-Glycosylation of Mouse Immunoglobulin G (IgG)-Fragment Crystallizable Differs Between IgG Subclasses and Strains. Frontiers in Immunology, 2017, 8, 608.	4.8	58

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145	Molecular characterisation of kappa-5, a major antigenic glycoprotein from Schistosoma mansoni eggs. Molecular and Biochemical Parasitology, 2009, 166, 4-14.	1.1	57
146	Investigations on Aberrant Glycosylation of Glycosphingolipids in Colorectal Cancer Tissues Using Liquid Chromatography and Matrix-Assisted Laser Desorption Time-of-Flight Mass Spectrometry (MALDI-TOF-MS). Molecular and Cellular Proteomics, 2013, 12, 3081-3093.	3.8	56
147	Fc Galactosylation Promotes Hexamerization of Human IgG1, Leading to Enhanced Classical Complement Activation. Journal of Immunology, 2021, 207, 1545-1554.	0.8	56
148	Phosphocholine-containing, zwitterionic glycosphingolipids of adult Onchocerca volvulus as highly conserved antigenic structures of parasitic nematodes. Biochemical Journal, 2000, 348, 417-423.	3.7	55
149	High-throughput glycosylation analysis of therapeutic immunoglobulin G by capillary gel electrophoresis using a DNA analyzer. MAbs, 2014, 6, 185-196.	5.2	55
150	Pregnancy-associated serum N-glycome changes studied by high-throughput MALDI-TOF-MS. Scientific Reports, 2016, 6, 23296.	3.3	54
151	Recent Advances in Clinical Glycoproteomics of Immunoglobulins (Igs). Molecular and Cellular Proteomics, 2016, 15, 2217-2228.	3.8	54
152	An In-Depth Glycosylation Assay for Urinary Prostate-Specific Antigen. Analytical Chemistry, 2018, 90, 4414-4421.	6.5	54
153	Functional Attributes of Antibodies, Effector Cells, and Target Cells Affecting NK Cellâ€“Mediated Antibody-Dependent Cellular Cytotoxicity. Journal of Immunology, 2019, 203, 3126-3135.	0.8	54
154	Fuc(Î±1â†'3)GalNAc-: the major antigenic motif of Schistosoma mansoni glycolipids implicated in infection sera and keyhole-limpet haemocyanin cross-reactivity. Biochemical Journal, 2002, 366, 217-223.	3.7	52
155	Gender-specific expression of complex-type N-glycans in schistosomes. Glycobiology, 2006, 16, 991-1006.	2.5	52
156	MALDIâ€TOFâ€MS analysis of sialylated glycans and glycopeptides using 4â€chloroâ€Î±â€cyanocinnamic acid matrix. Proteomics, 2012, 12, 1337-1348.	2.2	52
157	The whipworm (Trichuris suis) secretes prostaglandin E2 to suppress proinflammatory properties in human dendritic cells. FASEB Journal, 2017, 31, 719-731.	0.5	52
158	The SPPL3-Defined Glycosphingolipid Repertoire Orchestrates HLA Class I-Mediated Immune Responses. Immunity, 2021, 54, 132-150.e9.	14.3	52
159	Negative-Mode MALDI-TOF/TOF-MS of Oligosaccharides Labeled with 2-Aminobenzamide. Analytical Chemistry, 2005, 77, 6954-6959.	6.5	51
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