

Manfred Wuhrer

List of Publications by Year in descending order

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Version: 2024-02-01

393
papers

23,545
citations

5558

82
h-index

16127

124
g-index

417
all docs

417
docs citations

417
times ranked

16125
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. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.010090.	2.5	443
2	Glycan labeling strategies and their use in identification and quantification. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3457-3481.	1.9	422
3	Glycoproteomics based on tandem mass spectrometry of glycopeptides. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 849, 115-128.	1.2	383
4	Receptor binding studies disclose a novel class of high-affinity inhibitors of the Escherichia coli FimH adhesin. <i>Molecular Microbiology</i> , 2004, 55, 441-455.	1.2	372
5	Human plasma protein N-glycosylation. <i>Glycoconjugate Journal</i> , 2016, 33, 309-343.	1.4	325
6	Loci Associated with N-Glycosylation of Human Immunoglobulin G Show Pleiotropy with Autoimmune Diseases and Haematological Cancers. <i>PLoS Genetics</i> , 2013, 9, e1003225.	1.5	323
7	Cotton HILIC SPE Microtips for Microscale Purification and Enrichment of Glycans and Glycopeptides. <i>Analytical Chemistry</i> , 2011, 83, 2492-2499.	3.2	309
8	High-Throughput Profiling of Protein N-Glycosylation by MALDI-TOF-MS Employing Linkage-Specific Sialic Acid Esterification. <i>Analytical Chemistry</i> , 2014, 86, 5784-5793.	3.2	298
9	IgG glycosylation analysis. <i>Proteomics</i> , 2009, 9, 882-913.	1.3	292
10	Regulation of autoantibody activity by the IL-23â€“TH17 axis determines the onset of autoimmune disease. <i>Nature Immunology</i> , 2017, 18, 104-113.	7.0	274
11	Decoding the Human Immunoglobulin G-Glycan Repertoire Reveals a Spectrum of Fc-Receptor- and Complement-Mediated-Effector Activities. <i>Frontiers in Immunology</i> , 2017, 8, 877.	2.2	269
12	Glycosylation profiling of immunoglobulin G (IgG) subclasses from human serum. <i>Proteomics</i> , 2007, 7, 4070-4081.	1.3	250
13	Afucosylated IgG characterizes enveloped viral responses and correlates with COVID-19 severity. <i>Science</i> , 2021, 371, .	6.0	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. <i>Arthritis Research and Therapy</i> , 2009, 11, R193.	1.6	241
15	Structural glycomics using hydrophilic interaction chromatography (HILIC) with mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2009, 28, 192-206.	2.8	230
16	Anti-citrullinated protein antibodies acquire a pro-inflammatory Fc glycosylation phenotype prior to the onset of rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 234-241.	0.5	225
17	Immunoglobulin G (IgG) Fab Glycosylation Analysis Using a New Mass Spectrometric High-throughput Profiling Method Reveals Pregnancy-associated Changes. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 3029-3039.	2.5	216
18	Hydrophilic Interaction Chromatography-Based High-Throughput Sample Preparation Method for N-Glycan Analysis from Total Human Plasma Glycoproteins. <i>Analytical Chemistry</i> , 2008, 80, 6119-6126.	3.2	194

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19	Protein glycosylation analysis by liquid chromatography–mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 825, 124-133.	1.2	189
20	N-glycomic biomarkers of biological aging and longevity: A link with inflammaging. <i>Ageing Research Reviews</i> , 2013, 12, 685-698.	5.0	189
21	A prominent lack of IgG1-Fc fucosylation of platelet alloantibodies in pregnancy. <i>Blood</i> , 2014, 123, 471-480.	0.6	187
22	Glycan profiling of anti-citrullinated protein antibodies isolated from human serum and synovial fluid. <i>Arthritis and Rheumatism</i> , 2010, 62, 1620-1629.	6.7	183
23	High-Throughput IgG Fc N-Glycosylation Profiling by Mass Spectrometry of Glycopeptides. <i>Journal of Proteome Research</i> , 2013, 12, 821-831.	1.8	178
24	Oligosaccharide analysis by graphitized carbon liquid chromatography–mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 163-174.	1.9	173
25	Recent advances in hydrophilic interaction liquid chromatography (HILIC) for structural glycomics. <i>Electrophoresis</i> , 2011, 32, 3456-3466.	1.3	169
26	Comparative Performance of Four Methods for High-throughput Glycosylation Analysis of Immunoglobulin G in Genetic and Epidemiological Research. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1598-1610.	2.5	169
27	High titers and low fucosylation of early human anti-SARS-CoV-2 IgG promote inflammation by alveolar macrophages. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	166
28	Relevance and use of capillary coatings in capillary electrophoresis–mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 297-314.	1.9	165
29	Extensive glycosylation of ACPA-IgG variable domains modulates binding to citrullinated antigens in rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 578-585.	0.5	161
30	Linkage-Specific <i>in Situ</i> Sialic Acid Derivatization for N-Glycan Mass Spectrometry Imaging of Formalin-Fixed Paraffin-Embedded Tissues. <i>Analytical Chemistry</i> , 2016, 88, 5904-5913.	3.2	158
31	Fc-Glycosylation of IgG1 is Modulated by B-cell Stimuli. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.004655.	2.5	156
32	2-Picolineborane: A non-toxic reducing agent for oligosaccharide labeling by reductive amination. <i>Proteomics</i> , 2010, 10, 2330-2336.	1.3	154
33	Association between Galactosylation of Immunoglobulin G and Improvement of Rheumatoid Arthritis during Pregnancy Is Independent of Sialylation. <i>Journal of Proteome Research</i> , 2013, 12, 4522-4531.	1.8	150
34	Glycoproteomic Analysis of Antibodies. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 856-865.	2.5	146
35	N-glycosylation of Colorectal Cancer Tissues. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 571-585.	2.5	144
36	Fc specific IgG glycosylation profiling by robust nano-reverse phase HPLC-MS using a sheath-flow ESI sprayer interface. <i>Journal of Proteomics</i> , 2012, 75, 1318-1329.	1.2	141

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37	IgA subclasses have different effector functions associated with distinct glycosylation profiles. <i>Nature Communications</i> , 2020, 11, 120.	5.8	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. <i>Journal of Proteome Research</i> , 2010, 9, 6655-6664.	1.8	140
39	Comparison of methods for the analysis of therapeutic immunoglobulin G Fc-glycosylation profiles—Part 1: Separation-based methods. <i>MAbs</i> , 2015, 7, 167-179.	2.6	139
40	Mass spectrometry of proton adducts of fucosylated N-glycans: fucose transfer between antennae gives rise to misleading fragments. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1747-1754.	0.7	136
41	Protein Glycosylation Analyzed by Normal-Phase Nano-Liquid Chromatography—Mass Spectrometry of Glycopeptides. <i>Analytical Chemistry</i> , 2005, 77, 886-894.	3.2	130
42	Serum sialylation changes in cancer. <i>Glycoconjugate Journal</i> , 2018, 35, 139-160.	1.4	127
43	Mass spectrometric glycan rearrangements. <i>Mass Spectrometry Reviews</i> , 2011, 30, 664-680.	2.8	126
44	The role of glycosylation in IBD. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2014, 11, 588-600.	8.2	123
45	Subclass-specific IgG glycosylation is associated with markers of inflammation and metabolic health. <i>Scientific Reports</i> , 2017, 7, 12325.	1.6	123
46	Glycomics using mass spectrometry. <i>Glycoconjugate Journal</i> , 2013, 30, 11-22.	1.4	122
47	Glycosylation Characteristics of Colorectal Cancer. <i>Advances in Cancer Research</i> , 2015, 126, 203-256.	1.9	120
48	Normal-Phase Nanoscale Liquid Chromatography—Mass Spectrometry of Underivatized Oligosaccharides at Low-Femtomole Sensitivity. <i>Analytical Chemistry</i> , 2004, 76, 833-838.	3.2	119
49	Changes in Antigen-specific IgG1 Fc N-glycosylation Upon Influenza and Tetanus Vaccination. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.014563.	2.5	117
50	Glycosylation of Immunoglobulin G Associates With Clinical Features of Inflammatory Bowel Diseases. <i>Gastroenterology</i> , 2018, 154, 1320-1333.e10.	0.6	116
51	Comparison of methods for the analysis of therapeutic immunoglobulin G Fc-glycosylation profiles—Part 2: Mass spectrometric methods. <i>MAbs</i> , 2015, 7, 732-742.	2.6	114
52	LaCyTools: A Targeted Liquid Chromatography—Mass Spectrometry Data Processing Package for Relative Quantitation of Glycopeptides. <i>Journal of Proteome Research</i> , 2016, 15, 2198-2210.	1.8	114
53	Regulated Glycosylation Patterns of IgG during Alloimmune Responses against Human Platelet Antigens. <i>Journal of Proteome Research</i> , 2009, 8, 450-456.	1.8	112
54	Linkage-Specific Sialic Acid Derivatization for MALDI-TOF-MS Profiling of IgG Glycopeptides. <i>Analytical Chemistry</i> , 2015, 87, 8284-8291.	3.2	112

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55	Low anti- <i>RhD</i> IgG fucosylation in pregnancy: a new variable predicting severity in haemolytic disease of the fetus and newborn. <i>British Journal of Haematology</i> , 2014, 166, 936-945.	1.2	109
56	The Art of Destruction: Optimizing Collision Energies in Quadrupole-Time of Flight (Q-TOF) Instruments for Glycopeptide-Based Glycoproteomics. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 507-519.	1.2	109
57	Multi-level glyco-engineering techniques to generate IgG with defined Fc-glycans. <i>Scientific Reports</i> , 2016, 6, 36964.	1.6	108
58	MassyTools: A High-Throughput Targeted Data Processing Tool for Relative Quantitation and Quality Control Developed for Glycomic and Glycoproteomic MALDI-MS. <i>Journal of Proteome Research</i> , 2015, 14, 5088-5098.	1.8	107
59	Immunoglobulin G Glycopeptide Profiling by Matrix-Assisted Laser Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 1073-1081.	3.2	106
60	Decreased Levels of Bisecting GlcNAc Glycoforms of IgG Are Associated with Human Longevity. <i>PLoS ONE</i> , 2010, 5, e12566.	1.1	104
61	Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: The ABRF Glycoprotein Research Multi-Institutional Study 2012. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2935-2951.	2.5	103
62	The Role of Glycosphingolipids in Immune Cell Functions. <i>Frontiers in Immunology</i> , 2019, 10, 90.	2.2	101
63	Fc γ R Binding and ADCC Activity of Human IgG Allotypes. <i>Frontiers in Immunology</i> , 2020, 11, 740.	2.2	101
64	Enrichment of Sialylated IgG by Lectin Fractionation Does Not Enhance the Efficacy of Immunoglobulin G in a Murine Model of Immune Thrombocytopenia. <i>PLoS ONE</i> , 2011, 6, e21246.	1.1	100
65	Two-Dimensional N-Glycan Distribution Mapping of Hepatocellular Carcinoma Tissues by MALDI-Imaging Mass Spectrometry. <i>Biomolecules</i> , 2015, 5, 2554-2572.	1.8	99
66	Characterization of N-glycans from mouse brain neural cell adhesion molecule. <i>Glycobiology</i> , 2001, 11, 373-384.	1.3	98
67	Adaptive antibody diversification through <i>N</i> -linked glycosylation of the immunoglobulin variable region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1901-1906.	3.3	98
68	Protein glycosylation analysis by HILIC-ELC-MS of Proteinase K-generated <i>N</i> - and <i>O</i> -glycopeptides. <i>Journal of Separation Science</i> , 2010, 33, 903-910.	1.3	96
69	Reversed-phase separation methods for glycan analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 359-378.	1.9	94
70	Altered glycosylation of IgG4 promotes lectin complement pathway activation in anti-PLA2R1-associated membranous nephropathy. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	94
71	Electron transfer dissociation of <i>N</i> -glycopeptides: loss of the entire <i>N</i> -glycosylated asparagine side chain. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1053-1061.	0.7	93
72	Serum antibody screening by surface plasmon resonance using a natural glycan microarray. <i>Glycoconjugate Journal</i> , 2008, 25, 75-84.	1.4	92

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73	Changes in Healthy Human IgG Fc-Glycosylation after Birth and during Early Childhood. <i>Journal of Proteome Research</i> , 2016, 15, 1853-1861.	1.8	91
74	Hinge-Region O-Glycosylation of Human Immunoglobulin G3 (IgG3). <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1373-1384.	2.5	90
75	Identification of sequence variants influencing immunoglobulin levels. <i>Nature Genetics</i> , 2017, 49, 1182-1191.	9.4	90
76	Highly sensitive CE-ESI-MS analysis of N-glycans from complex biological samples. <i>Nature Communications</i> , 2019, 10, 2137.	5.8	90
77	Glycosylation of immunoglobulin G is regulated by a large network of genes pleiotropic with inflammatory diseases. <i>Science Advances</i> , 2020, 6, eaax0301.	4.7	90
78	Molecular characterization of omega-1: A hepatotoxic ribonuclease from <i>Schistosoma mansoni</i> eggs. <i>Molecular and Biochemical Parasitology</i> , 2005, 144, 123-127.	0.5	89
79	Inhibition of Fcγ3R-mediated phagocytosis by IVIg is independent of IgG-Fc sialylation and Fcγ3RIIb in human macrophages. <i>Blood</i> , 2014, 124, 3709-3718.	0.6	89
80	Identification and Characterization of Keyhole Limpet Hemocyanin N-Glycans Mediating Cross-reactivity with <i>Schistosoma mansoni</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 40731-40748.	1.6	87
81	General Microarray Technique for Immobilization and Screening of Natural Glycans. <i>Analytical Chemistry</i> , 2007, 79, 8107-8113.	3.2	87
82	Plasma protein N-glycan profiles are associated with calendar age, familial longevity and health. <i>Journal of Proteome Research</i> , 2011, 10, 1667-1674.	1.8	87
83	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 11-30.	2.5	87
84	Glycopeptide analysis by matrix-assisted laser desorption/ionization tandem time-of-flight mass spectrometry reveals novel features of horseradish peroxidase glycosylation. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1741-1748.	0.7	86
85	Protein O-glycosylation analysis. <i>Biological Chemistry</i> , 2012, 393, 687-708.	1.2	86
86	Pro-inflammatory pattern of IgG1 Fc glycosylation in multiple sclerosis cerebrospinal fluid. <i>Journal of Neuroinflammation</i> , 2015, 12, 235.	3.1	86
87	Multimodal Mass Spectrometry Imaging of N-Glycans and Proteins from the Same Tissue Section. <i>Analytical Chemistry</i> , 2016, 88, 7745-7753.	3.2	86
88	Glycomics-driven discoveries in schistosome research. <i>Experimental Parasitology</i> , 2007, 117, 275-283.	0.5	85
89	Site-Specific N-Glycosylation Analysis of Human Immunoglobulin E. <i>Journal of Proteome Research</i> , 2014, 13, 536-546.	1.8	85
90	IgG Fc N-Glycosylation Changes in Lambert-Eaton Myasthenic Syndrome and Myasthenia Gravis. <i>Journal of Proteome Research</i> , 2011, 10, 143-152.	1.8	84

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91	Glycomic Analysis of Life Stages of the Human Parasite <i>Schistosoma mansoni</i> Reveals Developmental Expression Profiles of Functional and Antigenic Glycan Motifs*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1750-1769.	2.5	84
92	High-Throughput Analysis and Automation for Glycomics Studies. <i>Chromatographia</i> , 2015, 78, 321-333.	0.7	84
93	Glycosylation pattern of anti-platelet IgG is stable during pregnancy and predicts clinical outcome in alloimmune thrombocytopenia. <i>British Journal of Haematology</i> , 2016, 174, 310-320.	1.2	83
94	IPSE/alpha-1, a major secretory glycoprotein antigen from schistosome eggs, expresses the Lewis X motif on core-difucosylated N-glycans. <i>FEBS Journal</i> , 2006, 273, 2276-2292.	2.2	82
95	Structural Analysis of Variable Domain Glycosylation of Anti-Citrullinated Protein Antibodies in Rheumatoid Arthritis Reveals the Presence of Highly Sialylated Glycans. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 278-287.	2.5	82
96	Sialic acid linkage differentiation of glycopeptides using capillary electrophoresis α -electrospray ionization α -mass spectrometry. <i>Scientific Reports</i> , 2017, 7, 3733.	1.6	82
97	Automation of High-Throughput Mass Spectrometry-Based Plasma N-Glycome Analysis with Linkage-Specific Sialic Acid Esterification. <i>Journal of Proteome Research</i> , 2015, 14, 4080-4086.	1.8	81
98	Prominent members of the human gut microbiota express endo-acting O-glycanases to initiate mucin breakdown. <i>Nature Communications</i> , 2020, 11, 4017.	5.8	81
99	Plasma N-Glycan Signatures Are Associated With Features of Inflammatory Bowel Diseases. <i>Gastroenterology</i> , 2018, 155, 829-843.	0.6	80
100	N-Linked Glycans in the Variable Domain of IgG Anti-Citrullinated Protein Antibodies Predict the Development of Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2019, 71, 1626-1633.	2.9	80
101	<i>Schistosoma mansoni</i> cercarial glycolipids are dominated by Lewis X and pseudo-Lewis Y structures. <i>Glycobiology</i> , 2000, 10, 89-101.	1.3	79
102	Galactosylation and Sialylation Levels of IgG Predict Relapse in Patients With PR3-ANCA Associated Vasculitis. <i>EBioMedicine</i> , 2017, 17, 108-118.	2.7	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. <i>Arthritis Research and Therapy</i> , 2018, 20, 84.	1.6	79
104	PHGDH heterogeneity potentiates cancer cell dissemination and metastasis. <i>Nature</i> , 2022, 605, 747-753.	13.7	77
105	Structural Analysis of Glycoconjugates by On-Target Enzymatic Digestion and MALDI-TOF-MS. <i>Analytical Chemistry</i> , 1999, 71, 476-482.	3.2	76
106	Comparison of the Fc glycosylation of fetal and maternal immunoglobulin G. <i>Glycoconjugate Journal</i> , 2013, 30, 147-157.	1.4	76
107	Monitoring of immunoglobulin N- and O-glycosylation in health and disease. <i>Glycobiology</i> , 2020, 30, 226-240.	1.3	75
108	Polymorphisms in B3GAT1, SLC9A9 and MGAT5 are associated with variation within the human plasma N-glycome of 3533 European adults. <i>Human Molecular Genetics</i> , 2011, 20, 5000-5011.	1.4	74

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109	Clinical Glycomics Employing Graphitized Carbon Liquid Chromatography–Mass Spectrometry. <i>Chromatographia</i> , 2015, 78, 307-320.	0.7	74
110	Glycomics studies using sialic acid derivatization and mass spectrometry. <i>Nature Reviews Chemistry</i> , 2020, 4, 229-242.	13.8	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. <i>Biochemical Journal</i> , 2004, 378, 625-632.	1.7	73
112	High-Throughput Analysis of IgG Fc Glycopeptides by LC-MS. <i>Methods in Molecular Biology</i> , 2017, 1503, 31-47.	0.4	73
113	Lack of complex N-glycans on HIV-1 envelope glycoproteins preserves protein conformation and entry function. <i>Virology</i> , 2010, 401, 236-247.	1.1	72
114	The major secreted protein Msp1/p75 is O-glycosylated in <i>Lactobacillus rhamnosus</i> GG. <i>Microbial Cell Factories</i> , 2012, 11, 15.	1.9	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. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 124-140.	2.5	72
116	Hemocyanin from the keyhole limpet <i>Megathura crenulata</i> (KLH) carries a novel type of N-glycans with Gal(beta1-6)Man-motifs. <i>FEBS Journal</i> , 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-10 While Alpha-Fetoprotein Drives Them into Apoptosis. <i>Frontiers in Immunology</i> , 2016, 7, 495.	2.2	71
118	IgG1 Fc N-glycan galactosylation as a biomarker for immune activation. <i>Scientific Reports</i> , 2016, 6, 28207.	1.6	71
119	Site-Specific Protein N- and O-Glycosylation Analysis by a C18-Porous Graphitized Carbon–Liquid Chromatography-Electrospray Ionization Mass Spectrometry Approach Using Pronase Treated Glycopeptides. <i>Analytical Chemistry</i> , 2015, 87, 11691-11699.	3.2	70
120	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. <i>Nature Communications</i> , 2019, 10, 3275.	5.8	70
121	Automated High-Throughput Permethylolation for Glycosylation Analysis of Biologics Using MALDI-TOF-MS. <i>Analytical Chemistry</i> , 2016, 88, 8562-8569.	3.2	69
122	High-throughput Serum N-Glycomics: Method Comparison and Application to Study Rheumatoid Arthritis and Pregnancy-associated Changes. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 3-15.	2.5	69
123	Mass spectrometry for glycosylation analysis of biopharmaceuticals. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 73, 1-9.	5.8	67
124	Site-specific O-Glycosylation Analysis of Human Blood Plasma Proteins. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 624-641.	2.5	67
125	Enhanced Effector Functions Due to Antibody Defucosylation Depend on the Effector Cell Fcγ3 Receptor Profile. <i>Journal of Immunology</i> , 2017, 199, 204-211.	0.4	67
126	Network inference from glycoproteomics data reveals new reactions in the IgG glycosylation pathway. <i>Nature Communications</i> , 2017, 8, 1483.	5.8	67

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127	Oligosaccharide analysis by capillary-scale high-pH anion-exchange chromatography with on-line ion-trap mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 829, 136-143.	1.2	66
128	Repeats of LacdiNAc and fucosylated LacdiNAc on N-glycans of the human parasite <i>Schistosoma mansoni</i> . <i>FEBS Journal</i> , 2006, 273, 347-361.	2.2	66
129	Genome-Wide Association Study on Immunoglobulin G Glycosylation Patterns. <i>Frontiers in Immunology</i> , 2018, 9, 277.	2.2	66
130	Aberrant glycosylation of anti-SARS-CoV-2 spike IgG is a prothrombotic stimulus for platelets. <i>Blood</i> , 2021, 138, 1481-1489.	0.6	66
131	Suppression of peeling during the release of O-glycans by hydrazinolysis. <i>Analytical Biochemistry</i> , 2012, 423, 119-128.	1.1	63
132	Mapping fucosylated epitopes on glycoproteins and glycolipids of <i>Schistosoma mansoni</i> cercariae, adult worms and eggs. <i>Parasitology</i> , 2005, 130, 67-77.	0.7	62
133	High-throughput work flow for IgG Fc-glycosylation analysis of biotechnological samples. <i>Analytical Biochemistry</i> , 2013, 432, 82-89.	1.1	62
134	O-glycome signatures in human plasma: associations with physiology and major diseases. <i>FEBS Letters</i> , 2019, 593, 2966-2976.	1.3	62
135	Characterization of glycosphingolipids from <i>Schistosoma mansoni</i> eggs carrying Fuc(β 1-3)GalNAc-, GalNAc(β 1-4)[Fuc(β 1-3)]GlcNAc- and Gal(β 1-4)[Fuc(β 1-3)]GlcNAc- (Lewis X) terminal structures. <i>FEBS Journal</i> , 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. <i>Glycobiology</i> , 2007, 17, 334-344.	1.3	61
137	Localization and characterization of polysialic acid-containing N-linked glycans from bovine NCAM. <i>Glycobiology</i> , 2002, 12, 47-63.	1.3	60
138	Mass spectrometric O-glycan analysis after combined O-glycan release by beta-elimination and 1-phenyl-3-methyl-5-pyrazolone labeling. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1420-1428.	1.1	60
139	Amino acid analysis using chromatography-mass spectrometry: An inter platform comparison study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 114, 398-407.	1.4	60
140	Dopant Enriched Nitrogen Gas Combined with Sheathless Capillary Electrophoresis-Electrospray Ionization-Mass Spectrometry for Improved Sensitivity and Repeatability in Glycopeptide Analysis. <i>Analytical Chemistry</i> , 2016, 88, 5849-5856.	3.2	60
141	Glycomics of bone marrow-derived mesenchymal stem cells can be used to evaluate their cellular differentiation stage. <i>Glycoconjugate Journal</i> , 2009, 26, 367-384.	1.4	59
142	Comparative Glycomics of Immunoglobulin A and G From Saliva and Plasma Reveals Biomarker Potential. <i>Frontiers in Immunology</i> , 2018, 9, 2436.	2.2	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. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 228-242.	2.5	58
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