

Nicolle H Packer

List of Publications by Year in descending order

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253
papers

16,004
citations

12328

69
h-index

22161

113
g-index

265
all docs

265
docs citations

265
times ranked

13650
citing authors

#	ARTICLE	IF	CITATIONS
1	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015, 25, 1323-1324.	2.5	818
2	Comparative genome sequence analysis underscores mycoparasitism as the ancestral life style of <i>Trichoderma</i> . <i>Genome Biology</i> , 2011, 12, R40.	8.8	594
3	Cell surface protein glycosylation in cancer. <i>Proteomics</i> , 2014, 14, 525-546.	2.2	436
4	GlycoMod - A software tool for determining glycosylation compositions from mass spectrometric data. <i>Proteomics</i> , 2001, 1, 340-349.	2.2	434
5	A general approach to desalting oligosaccharides released from glycoproteins. <i>Glycoconjugate Journal</i> , 1998, 15, 737-747.	2.7	427
6	Comparison of the methods for profiling glycoprotein glycansâ€”HUPO Human Disease Glycomics/Proteome Initiative multi-institutional study. <i>Glycobiology</i> , 2007, 17, 411-422.	2.5	382
7	Structural analysis of N- and O-glycans released from glycoproteins. <i>Nature Protocols</i> , 2012, 7, 1299-1310.	12.0	363
8	Structure of the O antigen of <i>Escherichia coli</i> K-12 and the sequence of its <i>rfb</i> gene cluster. <i>Journal of Bacteriology</i> , 1994, 176, 4144-4156.	2.2	309
9	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019, 29, 620-624.	2.5	292
10	Simultaneous Glycan-Peptide Characterization Using Hydrophilic Interaction Chromatography and Parallel Fragmentation by CID, Higher Energy Collisional Dissociation, and Electron Transfer Dissociation MS Applied to the N-Linked Glycoproteome of <i>Campylobacter jejuni</i> . <i>Molecular and Cellular Proteomics</i> , 2011, 10, S1-S18.	3.8	265
11	Mucinâ€”type Oâ€”glycosylation â€” putting the pieces together. <i>FEBS Journal</i> , 2010, 277, 81-94.	4.7	209
12	Small-Scale Analysis of O-Linked Oligosaccharides from Glycoproteins and Mucins Separated by Gel Electrophoresis. <i>Analytical Chemistry</i> , 2002, 74, 6088-6097.	6.5	204
13	Salivary mucin MG1 is comprised almost entirely of different glycosylated forms of the MUC5B gene product. <i>Glycobiology</i> , 1999, 9, 293-302.	2.5	183
14	Advances in LCâ€”MS/MS-based glycoproteomics: Getting closer to system-wide site-specific mapping of the N- and O-glycoproteome. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1437-1452.	2.3	183
15	Determination of site-specific glycan heterogeneity on glycoproteins. <i>Nature Protocols</i> , 2012, 7, 1285-1298.	12.0	170
16	Maturing Glycoproteomics Technologies Provide Unique Structural Insights into the N-glycoproteome and Its Regulation in Health and Disease. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1773-1790.	3.8	166
17	Proteomics: Capacity versus utility. <i>Electrophoresis</i> , 2000, 21, 1071-1081.	2.4	158
18	Protein glycosylation pathways in filamentous fungi. <i>Glycobiology</i> , 2008, 18, 626-637.	2.5	157

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19	Site-Specific Glycan-Peptide Analysis for Determination of <i>N</i> -Glycoproteome Heterogeneity. <i>Journal of Proteome Research</i> , 2013, 12, 5791-5800.	3.7	153
20	UniCarbKB: building a knowledge platform for glycoproteomics. <i>Nucleic Acids Research</i> , 2014, 42, D215-D221.	14.5	147
21	Protein phosphorylation: technologies for the identification of phosphoamino acids. <i>Journal of Chromatography A</i> , 1998, 808, 23-41.	3.7	143
22	Unseen Proteome: Mining Below the Tip of the Iceberg To Find Low Abundance and Membrane Proteins. <i>Journal of Proteome Research</i> , 2003, 2, 303-311.	3.7	140
23	Negative ion graphitised carbon nano-liquid chromatography/mass spectrometry increases sensitivity for glycoprotein oligosaccharide analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2282-2292.	1.5	138
24	Comparison of Methods for Profiling O-Glycosylation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 719-727.	3.8	136
25	Site-specific glycoproteomics confirms that protein structure dictates formation of N-glycan type, core fucosylation and branching. <i>Glycobiology</i> , 2012, 22, 1440-1452.	2.5	136
26	Studies on the "Insoluble" Glycoprotein Complex from Human Colon. <i>Journal of Biological Chemistry</i> , 1999, 274, 15828-15836.	3.4	135
27	Specific Glycosylation of Membrane Proteins in Epithelial Ovarian Cancer Cell Lines: Glycan Structures Reflect Gene Expression and DNA Methylation Status. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2213-2232.	3.8	134
28	Modified glycosylation of cellobiohydrolase I from a high cellulase-producing mutant strain of <i>Trichoderma reesei</i> . <i>FEBS Journal</i> , 1998, 256, 119-127.	0.2	133
29	UniCarb-DB: a database resource for glycomic discovery. <i>Bioinformatics</i> , 2011, 27, 1343-1344.	4.1	128
30	Localization of O-Glycosylation Sites on Glycopeptide Fragments from Lactation-associated MUC1. <i>Journal of Biological Chemistry</i> , 1997, 272, 24780-24793.	3.4	127
31	Sequential Analysis of N- and O-Linked Glycosylation of 2D-PAGE Separated Glycoproteins. <i>Journal of Proteome Research</i> , 2002, 1, 521-529.	3.7	127
32	Structural determination of neutral O-linked oligosaccharide alditols by negative ion LC-electrospray-MSn. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 659-672.	2.8	125
33	GlyYouCan: an accessible glycan structure repository. <i>Glycobiology</i> , 2017, 27, 915-919.	2.5	123
34	GlyGen: Computational and Informatics Resources for Glycoscience. <i>Glycobiology</i> , 2020, 30, 72-73.	2.5	123
35	GlycoSuiteDB: a curated relational database of glycoprotein glycan structures and their biological sources. 2003 update. <i>Nucleic Acids Research</i> , 2003, 31, 511-513.	14.5	122
36	Structural Feature Ions for Distinguishing <i>N</i> - and <i>O</i> -Linked Glycan Isomers by LC-ESI-IT MS/MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 895-906.	2.8	122

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37	Development of a mass fingerprinting tool for automated interpretation of oligosaccharide fragmentation data. <i>Proteomics</i> , 2004, 4, 1650-1664.	2.2	121
38	MIRAGE: The minimum information required for a glycomics experiment. <i>Glycobiology</i> , 2014, 24, 402-406.	2.5	116
39	N-glycan MALDI Imaging Mass Spectrometry on Formalin-Fixed Paraffin-Embedded Tissue Enables the Delineation of Ovarian Cancer Tissues. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3003-3016.	3.8	111
40	Total Synthesis of Homogeneous Antifreeze Glycopeptides and Glycoproteins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3606-3610.	13.8	106
41	Toward Automated <i>N</i> -Glycopeptide Identification in Glycoproteomics. <i>Journal of Proteome Research</i> , 2016, 15, 3904-3915.	3.7	105
42	GlycoSuiteDB: a new curated relational database of glycoprotein glycan structures and their biological sources. <i>Nucleic Acids Research</i> , 2001, 29, 332-335.	14.5	103
43	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.	3.8	103
44	Quantitative N-linked Glycoproteomics of Myocardial Ischemia and Reperfusion Injury Reveals Early Remodeling in the Extracellular Environment. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.006833.	3.8	101
45	GlycoSpectrumScan: Fishing Glycopeptides from MS Spectra of Protease Digests of Human Colostrum sIgA. <i>Journal of Proteome Research</i> , 2010, 9, 1063-1075.	3.7	100
46	Comparative <i>N</i> -Glycan Profiling of Colorectal Cancer Cell Lines Reveals Unique Bisecting GlcNAc and \pm -2,3-Linked Sialic Acid Determinants Are Associated with Membrane Proteins of the More Metastatic/Aggressive Cell Lines. <i>Journal of Proteome Research</i> , 2014, 13, 277-288.	3.7	97
47	GlyConnect: Glycoproteomics Goes Visual, Interactive, and Analytical. <i>Journal of Proteome Research</i> , 2019, 18, 664-677.	3.7	95
48	Comparative structural analysis of the glycosylation of salivary and buccal cell proteins: innate protection against infection by <i>Candida albicans</i> . <i>Glycobiology</i> , 2012, 22, 1465-1479.	2.5	93
49	Glycoconjugates in human milk: Protecting infants from disease. <i>Glycobiology</i> , 2013, 23, 1425-1438.	2.5	93
50	Building a PGC-LC-MS N-glycan retention library and elution mapping resource. <i>Glycoconjugate Journal</i> , 2018, 35, 15-29.	2.7	93
51	Human Neutrophils Secrete Bioactive Paucimannosidic Proteins from Azurophilic Granules into Pathogen-Infected Sputum. <i>Journal of Biological Chemistry</i> , 2015, 290, 8789-8802.	3.4	90
52	Characterization of O-linked glycosylation motifs in the glycopeptide domain of bovine β -casein. <i>Glycobiology</i> , 1994, 4, 837-844.	2.5	87
53	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.	3.8	87
54	Facile Assembly of Functional Upconversion Nanoparticles for Targeted Cancer Imaging and Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11945-11953.	8.0	86

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55	Identification of two highly sialylated human tear-fluid DMBT1 isoforms: the major high-molecular-mass glycoproteins in human tears. <i>Biochemical Journal</i> , 2002, 366, 511-520.	3.7	85
56	Glycosylation of sputum mucins is altered in cystic fibrosis patients. <i>Glycobiology</i> , 2007, 17, 698-712.	2.5	85
57	Discrimination of Isomers of Released <i>N</i> - and <i>O</i> -Glycans Using Diagnostic Product Ions in Negative Ion PGC-LC-ESI-MS/MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1194-1209.	2.8	84
58	Glycoproteomics of Milk: Differences in Sugar Epitopes on Human and Bovine Milk Fat Globule Membranes. <i>Journal of Proteome Research</i> , 2008, 7, 3687-3696.	3.7	82
59	The glycosylation of human synovial lubricin: implications for its role in inflammation. <i>Biochemical Journal</i> , 2010, 429, 359-367.	3.7	82
60	Identification of Glycan Structure Alterations on Cell Membrane Proteins in Desoxyepothilone B Resistant Leukemia Cells. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009001.	3.8	81
61	Structural analysis of glycoprotein sialylation – part II: LC-MS based detection. <i>RSC Advances</i> , 2013, 3, 22706.	3.6	81
62	Simple Urinary Sample Preparation for Proteomic Analysis. <i>Journal of Proteome Research</i> , 2006, 5, 2824-2838.	3.7	80
63	Terminal Galactosylation and Sialylation Switching on Membrane Glycoproteins upon TNF-Alpha-Induced Insulin Resistance in Adipocytes. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 141-153.	3.8	80
64	What place for polyacrylamide in proteomics?. <i>Trends in Biotechnology</i> , 2001, 19, S3-S9.	9.3	79
65	GlycoStore: a database of retention properties for glycan analysis. <i>Bioinformatics</i> , 2018, 34, 3231-3232.	4.1	77
66	In-depth <i>N</i> -glycome profiling of paired colorectal cancer and non-tumorigenic tissues reveals cancer-, stage- and EGFR-specific protein N-glycosylation. <i>Glycobiology</i> , 2015, 25, 1064-1078.	2.5	74
67	MALDI imaging mass spectrometry of N-linked glycans on formalin-fixed paraffin-embedded murine kidney. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2127-2139.	3.7	74
68	Emerging roles of protein mannosylation in inflammation and infection. <i>Molecular Aspects of Medicine</i> , 2016, 51, 31-55.	6.4	74
69	Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies for serum glycopeptide analysis. <i>Nature Methods</i> , 2021, 18, 1304-1316.	19.0	74
70	MUC5B glycosylation in human saliva reflects blood group and secretor status. <i>Glycobiology</i> , 2005, 15, 791-804.	2.5	71
71	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. <i>Nature Communications</i> , 2019, 10, 3275.	12.8	70
72	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. <i>Glycobiology</i> , 2017, 27, 280-284.	2.5	69

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73	Biosimilarity and Interchangeability: Principles and Evidence: A Systematic Review. <i>BioDrugs</i> , 2018, 32, 27-52.	4.6	69
74	High Throughput Peptide Mass Fingerprinting and Protein Macroarray Analysis Using Chemical Printing Strategies. <i>Molecular and Cellular Proteomics</i> , 2002, 1, 490-499.	3.8	66
75	Enabling Sensitive Phenotypic Profiling of Cancer-Derived Small Extracellular Vesicles Using Surface-Enhanced Raman Spectroscopy Nanotags. <i>ACS Sensors</i> , 2020, 5, 764-771.	7.8	66
76	N-Glycans Modulate the Function of Human Corticosteroid-Binding Globulin. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009100.	3.8	65
77	Analysis of O-Linked Reducing Oligosaccharides Released by an In-line Flow System. <i>Analytical Biochemistry</i> , 2002, 305, 173-185.	2.4	63
78	Rat Liver Membrane Glycoproteome: Enrichment by Phase Partitioning and Glycoprotein Capture. <i>Journal of Proteome Research</i> , 2009, 8, 770-781.	3.7	63
79	Standardization of PGC-LC-MS-based glycomics for sample specific glycotyping. <i>Analyst</i> , 2019, 144, 3601-3612.	3.5	63
80	Use of graphitised carbon negative ion LC-MS to analyse enzymatically digested glycosaminoglycans. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 824, 139-147.	2.3	62
81	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. <i>Glycobiology</i> , 2016, 26, 907-910.	2.5	62
82	Toolboxes for a standardised and systematic study of glycans. <i>BMC Bioinformatics</i> , 2014, 15, S9.	2.6	58
83	Validation of the curation pipeline of UniCarb-DB: Building a global glycan reference MS/MS repository. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 108-116.	2.3	58
84	Comprehensive glycomics comparison between colon cancer cell cultures and tumours: Implications for biomarker studies. <i>Journal of Proteomics</i> , 2014, 108, 146-162.	2.4	57
85	Paucimannose-Rich N-glycosylation of Spatiotemporally Regulated Human Neutrophil Elastase Modulates Its Immune Functions*. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1507-1527.	3.8	57
86	UniCarbKB: Putting the pieces together for glycomics research. <i>Proteomics</i> , 2011, 11, 4117-4121.	2.2	55
87	Analyzing glycoproteins separated by two-dimensional gel electrophoresis. <i>Electrophoresis</i> , 1998, 19, 981-988.	2.4	53
88	Protein Paucimannosylation Is an Enriched N-Glycosylation Signature of Human Cancers. <i>Proteomics</i> , 2019, 19, e1900010.	2.2	52
89	Glycobiology and proteomics: Is mass spectrometry the holy grail?. <i>Electrophoresis</i> , 1998, 19, 1872-1882.	2.4	51
90	Graphitized Carbon LC-MS Characterization of the Chondroitin Sulfate Oligosaccharides of Aggrecan. <i>Analytical Chemistry</i> , 2007, 79, 3597-3606.	6.5	51

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91	3D sub-diffraction imaging in a conventional confocal configuration by exploiting super-linear emitters. <i>Nature Communications</i> , 2019, 10, 3695.	12.8	51
92	Differential Site Accessibility Mechanistically Explains Subcellular-Specific N-Glycosylation Determinants. <i>Frontiers in Immunology</i> , 2014, 5, 404.	4.8	50
93	Complementary LC-MS/MS-Based N-Glycan, N-Glycopeptide, and Intact N-Glycoprotein Profiling Reveals Unconventional Asn71-Glycosylation of Human Neutrophil Cathepsin G. <i>Biomolecules</i> , 2015, 5, 1832-1854.	4.0	49
94	The Importance of Protein Co- and Post-Translational Modifications in Proteome Projects. <i>Principles and Practice</i> , 1997, , 65-91.	0.3	49
95	Mucin glycosylation changes in cystic fibrosis lung disease are not manifest in submucosal gland secretions. <i>Biochemical Journal</i> , 2005, 387, 911-919.	3.7	48
96	New urinary EPO drug testing method using two-dimensional gel electrophoresis. <i>Clinica Chimica Acta</i> , 2005, 358, 119-130.	1.1	48
97	Production of active human glucocerebrosidase in seeds of <i>Arabidopsis thaliana</i> complex-glycan-deficient (cgl) plants. <i>Glycobiology</i> , 2012, 22, 492-503.	2.5	48
98	Comparative Proteomics and Glycoproteomics Reveal Increased N-Linked Glycosylation and Relaxed Sequon Specificity in <i>Campylobacter jejuni</i> NCTC11168 O. <i>Journal of Proteome Research</i> , 2014, 13, 5136-5150.	3.7	48
99	Cereal products derived from wheat, sorghum, rice and oats alter the infant gut microbiota in vitro. <i>Scientific Reports</i> , 2017, 7, 14312.	3.3	48
100	Reduced background autofluorescence for cell imaging using nanodiamonds and lanthanide chelates. <i>Scientific Reports</i> , 2018, 8, 4521.	3.3	48
101	Glycomics@ExPASy: Bridging the Gap. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2164-2176.	3.8	48
102	MALDI Mass Spectrometry Imaging of Early and Late Stage Serous Ovarian Cancer Tissue Reveals Stage-Specific <i>N</i> -Glycans. <i>Proteomics</i> , 2019, 19, e1800482.	2.2	47
103	Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013, 4, 39.	1.6	46
104	Structural analysis of glycoprotein sialylation – Part I: pre-LC-MS analytical strategies. <i>RSC Advances</i> , 2013, 3, 22683.	3.6	46
105	High-performance liquid chromatography of diglyceride p-nitrobenzoates. <i>Journal of Chromatography A</i> , 1980, 198, 520-525.	3.7	45
106	Challenges of Determining O-Glycopeptide Heterogeneity: A Fungal Glucanase Model System. <i>Analytical Chemistry</i> , 2010, 82, 3500-3509.	6.5	44
107	Host mucin glycosylation plays a role in bacterial adhesion in lungs of individuals with cystic fibrosis. <i>Expert Review of Respiratory Medicine</i> , 2013, 7, 553-576.	2.5	44
108	Databases and Associated Tools for Glycomics and Glycoproteomics. <i>Methods in Molecular Biology</i> , 2017, 1503, 235-264.	0.9	44

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109	Proteome analysis of glycoforms: A review of strategies for the microcharacterisation of glycoproteins separated by two-dimensional polyacrylamide gel electrophoresis. <i>Electrophoresis</i> , 1997, 18, 452-460.	2.4	43
110	The Lectin Riddle: Glycoproteins Fractionated from Complex Mixtures Have Similar Glycomic Profiles. <i>OMICS A Journal of Integrative Biology</i> , 2010, 14, 487-499.	2.0	43
111	Relative versus absolute quantitation in disease glycomics. <i>Proteomics - Clinical Applications</i> , 2015, 9, 368-382.	1.6	43
112	MALDI mass spectrometry imaging of N-glycans on tibial cartilage and subchondral bone proteins in knee osteoarthritis. <i>Proteomics</i> , 2016, 16, 1736-1741.	2.2	43
113	Post-Column Make-Up Flow (PCMF) Enhances the Performance of Capillary-Flow PGC-LC-MS/MS-Based Glycomics. <i>Analytical Chemistry</i> , 2019, 91, 4559-4567.	6.5	42
114	Analytical studies of lipopolysaccharide and its derivatives from Salmonella minnesota R595. I. Phosphorus magnetic resonance spectra. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 821, 179-194.	2.6	41
115	Site-specific characterisation of densely O-glycosylated mucin-type peptides using electron transfer dissociation ESI-MS/MS. <i>Electrophoresis</i> , 2011, 32, 3536-3545.	2.4	41
116	The glycosphingolipid P1 is an ovarian cancer-associated carbohydrate antigen involved in migration. <i>British Journal of Cancer</i> , 2014, 111, 1634-1645.	6.4	40
117	SugarBindDB, a resource of glycan-mediated host-pathogen interactions. <i>Nucleic Acids Research</i> , 2016, 44, D1243-D1250.	14.5	40
118	Comprehensive N-Glycome Profiling of Cultured Human Epithelial Breast Cells Identifies Unique Secretome N-Glycosylation Signatures Enabling Tumorigenic Subtype Classification. <i>Journal of Proteome Research</i> , 2014, 13, 4783-4795.	3.7	39
119	Development of a data independent acquisition mass spectrometry workflow to enable glycopeptide analysis without predefined glycan compositional knowledge. <i>Journal of Proteomics</i> , 2018, 172, 68-75.	2.4	39
120	Light-independent accumulation of chlorophyll a and b and protochlorophyllide in green barley (<i>Hordeum vulgare</i>). <i>Physiologia Plantarum</i> , 1985, 64, 345-352.	5.2	38
121	Liver Membrane Proteome Glycosylation Changes in Mice Bearing an Extra-hepatic Tumor. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M900538-MCP200.	3.8	38
122	Cystic fibrosis and bacterial colonization define the sputum N-glycosylation phenotype. <i>Glycobiology</i> , 2015, 25, 88-100.	2.5	38
123	Glycomic characterization of basal tears and changes with diabetes and diabetic retinopathy. <i>Glycobiology</i> , 2015, 25, 269-283.	2.5	38
124	Site-Specific N-Glycosylation of Recombinant Pentameric and Hexameric Human IgM. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1143-1155.	2.8	38
125	Genetically and Phenotypically Distinct <i>Pseudomonas aeruginosa</i> Cystic Fibrosis Isolates Share a Core Proteomic Signature. <i>PLoS ONE</i> , 2015, 10, e0138527.	2.5	37
126	Molecular analysis of the phospholipids of <i>Escherichia coli</i> K12. <i>Lipids and Lipid Metabolism</i> , 1982, 710, 400-405.	2.6	36

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127	Characterisation of the slime gland secretion from the peripatus, <i>Euperipatoides kanangrensis</i> (Onychophora: Peripatopsidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1999, 124, 457-465.	1.6	36
128	The elimination of O-linked glycans from glycoproteins under non-reducing conditions. <i>Glycoconjugate Journal</i> , 1994, 11, 163-167.	2.7	35
129	Tandem mass spectra of glycan substructures enable the multistage mass spectrometric identification of determinants on oligosaccharides. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 931-939.	1.5	35
130	Modification of Asparagine-Linked Glycan Density for the Design of Hepatitis B Virus Virus-Like Particles with Enhanced Immunogenicity. <i>Journal of Virology</i> , 2015, 89, 11312-11322.	3.4	35
131	Transition of Mesenchymal and Epithelial Cancer Cells Depends on β 1-4 Galactosyltransferase-Mediated Glycosphingolipids. <i>Cancer Research</i> , 2018, 78, 2952-2965.	0.9	35
132	A platform for the structural characterization of glycans enzymatically released from glycosphingolipids extracted from tissue and cells. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 545-561.	1.5	34
133	Quantitative proteomic analysis of paired colorectal cancer and non-tumorigenic tissues reveals signature proteins and perturbed pathways involved in CRC progression and metastasis. <i>Journal of Proteomics</i> , 2015, 126, 54-67.	2.4	34
134	A Novel Post-translational Modification in Nerve Terminals: O-Linked <i>N</i> -Acetylglucosamine Phosphorylation. <i>Journal of Proteome Research</i> , 2011, 10, 2725-2733.	3.7	33
135	Micro- and macroheterogeneity of <i>N</i> -glycosylation yields size and charge isoforms of human sex hormone binding globulin circulating in serum. <i>Proteomics</i> , 2012, 12, 3315-3327.	2.2	33
136	Human disease glycomics: technology advances enabling protein glycosylation analysis – part 1. <i>Expert Review of Proteomics</i> , 2018, 15, 165-182.	3.0	32
137	The use of solid-phase extraction with graphitised carbon for the fractionation and purification of sugars. <i>Carbohydrate Research</i> , 1999, 319, 74-79.	2.3	31
138	Configurations of glycosidic phosphates of lipopolysaccharide from <i>Salmonella minnesota</i> R595. <i>Biochemistry</i> , 1982, 21, 6580-6586.	2.5	30
139	Periconception onset diabetes is associated with embryopathy and fetal growth retardation, reproductive tract hyperglycosylation and impaired immune adaptation to pregnancy. <i>Scientific Reports</i> , 2018, 8, 2114.	3.3	30
140	Understanding cellular glycan surfaces in the central nervous system. <i>Biochemical Society Transactions</i> , 2019, 47, 89-100.	3.4	30
141	The <i>Dictyostelium discoideum</i> proteome - the SWISS-2DPAGE database of the multicellular aggregate (slug). <i>Electrophoresis</i> , 1997, 18, 491-497.	2.4	29
142	GlycoDigest: a tool for the targeted use of exoglycosidase digestions in glycan structure determination. <i>Bioinformatics</i> , 2014, 30, 3131-3133.	4.1	29
143	BOLD – A biological O-linked glycan database. <i>Electrophoresis</i> , 1999, 20, 3589-3598.	2.4	28
144	Comprehensive analysis of the N-glycan biosynthetic pathway using bioinformatics to generate UniCorn: A theoretical N-glycan structure database. <i>Carbohydrate Research</i> , 2016, 431, 56-63.	2.3	28

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145	<i>Pseudomonas aeruginosa</i> Cell Membrane Protein Expression from Phenotypically Diverse Cystic Fibrosis Isolates Demonstrates Host-Specific Adaptations. <i>Journal of Proteome Research</i> , 2016, 15, 2152-2163.	3.7	28
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