

Richard D Cummings

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

226
papers

11,524
citations

55
h-index

102
g-index

240
ext. papers

13,671
ext. citations

7.4
avg, IF

6.56
L-index

#	Paper	IF	Citations
226	Printed covalent glycan array for ligand profiling of diverse glycan binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17033-8	11.5	949
225	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4	5.8	585
224	Protein glycosylation in cancer. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2015 , 10, 473-510	34	428
223	A unique molecular chaperone Cosmc required for activity of the mammalian core 1 beta 3-galactosyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 16613-8	11.5	379
222	The repertoire of glycan determinants in the human glycome. <i>Molecular BioSystems</i> , 2009 , 5, 1087-104		353
221	Galectin-1, -2, and -3 exhibit differential recognition of sialylated glycans and blood group antigens. <i>Journal of Biological Chemistry</i> , 2008 , 283, 10109-23	5.4	322
220	The challenge and promise of glycomics. <i>Chemistry and Biology</i> , 2014 , 21, 1-15		273
219	The dendritic cell-specific C-type lectin DC-SIGN is a receptor for <i>Schistosoma mansoni</i> egg antigens and recognizes the glycan antigen Lewis x. <i>Glycobiology</i> , 2003 , 13, 471-8	5.8	246
218	Increased susceptibility to colitis and colorectal tumors in mice lacking core 3-derived O-glycans. <i>Journal of Experimental Medicine</i> , 2007 , 204, 1417-29	16.6	242
217	The Tn antigen-structural simplicity and biological complexity. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1770-91	16.4	239
216	Innate immune lectins kill bacteria expressing blood group antigen. <i>Nature Medicine</i> , 2010 , 16, 295-301	50.5	223
215	Cloning and expression of human core 1 beta1,3-galactosyltransferase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 178-86	5.4	221
214	Protein glycosylation: chaperone mutation in Tn syndrome. <i>Nature</i> , 2005 , 437, 1252	50.4	208
213	Human tumor antigens Tn and sialyl Tn arise from mutations in Cosmc. <i>Cancer Research</i> , 2008 , 68, 1636-46	46.1	202
212	Novel fluorescent glycan microarray strategy reveals ligands for galectins. <i>Chemistry and Biology</i> , 2009 , 16, 36-47		191
211	Binding of glycosulfopeptides to P-selectin requires stereospecific contributions of individual tyrosine sulfate and sugar residues. <i>Journal of Biological Chemistry</i> , 2000 , 275, 39569-78	5.4	169
210	Shotgun glycomics: a microarray strategy for functional glycomics. <i>Nature Methods</i> , 2011 , 8, 85-90	21.6	159

209	Versatile fluorescent derivatization of glycans for glycomic analysis. <i>Nature Methods</i> , 2005 , 2, 845-50	21.6	157
208	Microbial glycan microarrays define key features of host-microbial interactions. <i>Nature Chemical Biology</i> , 2014 , 10, 470-6	11.7	156
207	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019 , 29, 620-624	5.8	148
206	Cosmc is an essential chaperone for correct protein O-glycosylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9228-33	11.5	144
205	Receptor binding specificity of recent human H3N2 influenza viruses. <i>Virology Journal</i> , 2007 , 4, 42	6.1	132
204	Altered O-glycosylation and sulfation of airway mucins associated with cystic fibrosis. <i>Glycobiology</i> , 2005 , 15, 747-75	5.8	125
203	Oxidative release of natural glycans for functional glycomics. <i>Nature Methods</i> , 2016 , 13, 528-34	21.6	120
202	Simple sugars to complex disease--mucin-type O-glycans in cancer. <i>Advances in Cancer Research</i> , 2015 , 126, 53-135	5.9	119
201	A sialylated glycan microarray reveals novel interactions of modified sialic acids with proteins and viruses. <i>Journal of Biological Chemistry</i> , 2011 , 286, 31610-22	5.4	107
200	IFN- γ -dependent immune markers of Mycobacterium tuberculosis exposure. <i>Nature Medicine</i> , 2019 , 25, 977-987	50.5	104
199	Cross-comparison of protein recognition of sialic acid diversity on two novel sialoglycan microarrays. <i>Journal of Biological Chemistry</i> , 2012 , 287, 22593-608	5.4	98
198	The selectin family of carbohydrate-binding proteins: structure and importance of carbohydrate ligands for cell adhesion. <i>BioEssays</i> , 1992 , 14, 849-56	4.1	98
197	Regulation of protein O-glycosylation by the endoplasmic reticulum-localized molecular chaperone Cosmc. <i>Journal of Cell Biology</i> , 2008 , 182, 531-42	7.3	97
196	Recognition of microbial glycans by human intelectin-1. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 603-10	17.6	96
195	Tn and sialyl-Tn antigens, aberrant O-glycomics as human disease markers. <i>Proteomics - Clinical Applications</i> , 2013 , 7, 618-31	3.1	96
194	Human milk contains novel glycans that are potential decoy receptors for neonatal rotaviruses. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 2944-60	7.6	95
193	Cross-platform comparison of glycan microarray formats. <i>Glycobiology</i> , 2014 , 24, 507-17	5.8	92
192	Purification, characterization, and subunit structure of rat core 1 Beta1,3-galactosyltransferase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 169-77	5.4	91

191	GlyTouCan: an accessible glycan structure repository. <i>Glycobiology</i> , 2017 , 27, 915-919	5.8	86
190	Shotgun glycomics of pig lung identifies natural endogenous receptors for influenza viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2241-50	11.5	80
189	The Cosmc connection to the Tn antigen in cancer. <i>Cancer Biomarkers</i> , 2014 , 14, 63-81	3.8	78
188	Functional glycomic analysis of human milk glycans reveals the presence of virus receptors and embryonic stem cell biomarkers. <i>Journal of Biological Chemistry</i> , 2012 , 287, 44784-99	5.4	78
187	GlyTouCan 1.0--The international glycan structure repository. <i>Nucleic Acids Research</i> , 2016 , 44, D1237-42	20.1	72
186	Human H3N2 Influenza Viruses Isolated from 1968 To 2012 Show Varying Preference for Receptor Substructures with No Apparent Consequences for Disease or Spread. <i>PLoS ONE</i> , 2013 , 8, e66325	3.7	72
185	Generation of fully functional hepatocyte-like organoids from human induced pluripotent stem cells mixed with Endothelial Cells. <i>Scientific Reports</i> , 2019 , 9, 8920	4.9	71
184	Thermodynamics of carbohydrate binding to galectin-1 from Chinese hamster ovary cells and two mutants. A comparison with four galactose-specific plant lectins. <i>Biochemistry</i> , 1996 , 35, 15236-43	3.2	71
183	Mucin glycans attenuate the virulence of <i>Pseudomonas aeruginosa</i> in infection. <i>Nature Microbiology</i> , 2019 , 4, 2146-2154	26.6	70
182	The human IgG anti-carbohydrate repertoire exhibits a universal architecture and contains specificity for microbial attachment sites. <i>Science Translational Medicine</i> , 2015 , 7, 269ra1	17.5	66
181	Platelet biogenesis and functions require correct protein O-glycosylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16143-8	11.5	66
180	Characterization of monomeric forms of galectin-1 generated by site-directed mutagenesis. <i>Biochemistry</i> , 1996 , 35, 13081-8	3.2	65
179	Comparison of the receptor binding properties of contemporary swine isolates and early human pandemic H1N1 isolates (Novel 2009 H1N1). <i>Virology</i> , 2011 , 413, 169-82	3.6	63
178	Structural characterisation of neutrophil glycans by ultra sensitive mass spectrometric glycomics methodology. <i>Glycoconjugate Journal</i> , 2009 , 26, 975-86	3	62
177	Immobilized Lotus tetragonolobus agglutinin binds oligosaccharides containing the Le(x) determinant. <i>Glycoconjugate Journal</i> , 1997 , 14, 45-55	3	61
176	Preparation and analysis of glycan microarrays. <i>Current Protocols in Protein Science</i> , 2011 , Chapter 12, Unit12.10	3.1	60
175	Human parainfluenza viruses hPIV1 and hPIV3 bind oligosaccharides with alpha2-3-linked sialic acids that are distinct from those bound by H5 avian influenza virus hemagglutinin. <i>Journal of Virology</i> , 2007 , 81, 8341-5	6.6	59
174	Cellular O-Glycome Reporter/Amplification to explore O-glycans of living cells. <i>Nature Methods</i> , 2016 , 13, 81-6	21.6	58

173	Serum N-glycan and O-glycan analysis by mass spectrometry for diagnosis of congenital disorders of glycosylation. <i>Analytical Biochemistry</i> , 2013 , 442, 178-85	3.1	56
172	Application of microarrays for deciphering the structure and function of the human glycome. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 902-12	7.6	55
171	Chemistry of natural glycan microarrays. <i>Current Opinion in Chemical Biology</i> , 2014 , 18, 70-7	9.7	53
170	The endoplasmic reticulum chaperone Cosmc directly promotes in vitro folding of T-synthase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 2456-62	5.4	53
169	GlyGen: Computational and Informatics Resources for Glycoscience. <i>Glycobiology</i> , 2020 , 30, 72-73	5.8	53
168	Multiplex glycan bead array for high throughput and high content analyses of glycan binding proteins. <i>Nature Communications</i> , 2018 , 9, 258	17.4	51
167	"Stuck on sugars - how carbohydrates regulate cell adhesion, recognition, and signaling". <i>Glycoconjugate Journal</i> , 2019 , 36, 241-257	3	51
166	Epigenetic silencing of the chaperone Cosmc in human leukocytes expressing tn antigen. <i>Journal of Biological Chemistry</i> , 2012 , 287, 41523-33	5.4	51
165	Glycopeptide analogues of PSGL-1 inhibit P-selectin in vitro and in vivo. <i>Nature Communications</i> , 2015 , 6, 6387	17.4	50
164	Using glycan microarrays to understand immunity. <i>Current Opinion in Chemical Biology</i> , 2014 , 18, 55-61	9.7	50
163	Glycan microarray analysis of P-type lectins reveals distinct phosphomannose glycan recognition. <i>Journal of Biological Chemistry</i> , 2009 , 284, 35201-14	5.4	50
162	Analysis of influenza virus hemagglutinin receptor binding mutants with limited receptor recognition properties and conditional replication characteristics. <i>Journal of Virology</i> , 2011 , 85, 12387-98	6.6	48
161	Cation-independent mannose 6-phosphate receptor: a composite of distinct phosphomannosyl binding sites. <i>Journal of Biological Chemistry</i> , 2009 , 284, 35215-26	5.4	46
160	Human DC-SIGN binds specific human milk glycans. <i>Biochemical Journal</i> , 2016 , 473, 1343-53	3.8	46
159	Structural characterization by multistage mass spectrometry (MSn) of human milk glycans recognized by human rotaviruses. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 2961-74	7.6	45
158	Deciphering structural elements of mucin glycoprotein recognition. <i>ACS Chemical Biology</i> , 2012 , 7, 1031-9	7.9	45
157	Intestinal epithelial glycosylation in homeostasis and gut microbiota interactions in IBD. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2020 , 17, 597-617	24.2	45
156	SARS-CoV-2 Spike Protein Interacts with Multiple Innate Immune Receptors 2020 ,		44

155	Cosmc is an X-linked inflammatory bowel disease risk gene that spatially regulates gut microbiota and contributes to sex-specific risk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14787-14792	11.5	44
154	Unique Binding Specificities of Proteins toward Isomeric Asparagine-Linked Glycans. <i>Cell Chemical Biology</i> , 2019 , 26, 535-547.e4	8.2	43
153	Structural basis of glycan specificity in neonate-specific bovine-human reassortant rotavirus. <i>Nature Communications</i> , 2015 , 6, 8346	17.4	42
152	Influenza binds phosphorylated glycans from human lung. <i>Science Advances</i> , 2019 , 5, eaav2554	14.3	40
151	Automated motif discovery from glycan array data. <i>OMICS A Journal of Integrative Biology</i> , 2012 , 16, 497-512	3.12	40
150	GlycoPattern: a web platform for glycan array mining. <i>Bioinformatics</i> , 2014 , 30, 3417-8	7.2	38
149	Schistosoma mansoni-infected mice produce antibodies that cross-react with plant, insect, and mammalian glycoproteins and recognize the truncated biantennaryN-glycan Man3GlcNAc2-R. <i>Glycobiology</i> , 2003 , 13, 217-25	5.8	38
148	Molecular cloning and expression of a novel glycolipid sulfotransferase in Mycobacterium tuberculosis. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 783-792	2.9	38
147	The SARS-CoV-2 receptor-binding domain preferentially recognizes blood group A. <i>Blood Advances</i> , 2021 , 5, 1305-1309	7.8	37
146	The whipworm (Trichuris suis) secretes prostaglandin E2 to suppress proinflammatory properties in human dendritic cells. <i>FASEB Journal</i> , 2017 , 31, 719-731	0.9	36
145	Identification of core 1 O-glycan T-synthase from Caenorhabditis elegans. <i>Glycobiology</i> , 2006 , 16, 947-585.8		36
144	Glycan Microarrays as Chemical Tools for Identifying Glycan Recognition by Immune Proteins. <i>Frontiers in Chemistry</i> , 2019 , 7, 833	5	34
143	The Sweet-Side of Leukocytes: Galectins as Master Regulators of Neutrophil Function. <i>Frontiers in Immunology</i> , 2019 , 10, 1762	8.4	33
142	Investigating virus-glycan interactions using glycan microarrays. <i>Current Opinion in Virology</i> , 2014 , 7, 79-87.5		33
141	Galectins are human milk glycan receptors. <i>Glycobiology</i> , 2016 , 26, 655-69	5.8	32
140	A novel fluorescent assay for T-synthase activity. <i>Glycobiology</i> , 2011 , 21, 352-62	5.8	32
139	Galectin-1 exerts inhibitory effects during DENV-1 infection. <i>PLoS ONE</i> , 2014 , 9, e112474	3.7	32
138	Human IgA binds a diverse array of commensal bacteria. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	30

137	The Human Lung Glycome Reveals Novel Glycan Ligands for Influenza A Virus. <i>Scientific Reports</i> , 2020 , 10, 5320	4.9	28
136	Deletion of atbf1/zfhx3 in mouse prostate causes neoplastic lesions, likely by attenuation of membrane and secretory proteins and multiple signaling pathways. <i>Neoplasia</i> , 2014 , 16, 377-89	6.4	28
135	History and future of shotgun glycomics. <i>Biochemical Society Transactions</i> , 2019 , 47, 1-11	5.1	27
134	A Novel N-Tetrasaccharide in Patients with Congenital Disorders of Glycosylation, Including Asparagine-Linked Glycosylation Protein 1, Phosphomannomutase 2, and Mannose Phosphate Isomerase Deficiencies. <i>Clinical Chemistry</i> , 2016 , 62, 208-17	5.5	27
133	Differential expression of Cosmc, T-synthase and mucins in Tn-positive colorectal cancers. <i>BMC Cancer</i> , 2018 , 18, 827	4.8	27
132	Glycan array analysis of influenza H1N1 binding and release. <i>Cancer Biomarkers</i> , 2014 , 14, 43-53	3.8	26
131	Differential expression of anti-glycan antibodies in schistosome-infected humans, rhesus monkeys and mice. <i>Glycobiology</i> , 2014 , 24, 602-18	5.8	25
130	Identification of a fourth mannose 6-phosphate binding site in the cation-independent mannose 6-phosphate receptor. <i>Glycobiology</i> , 2015 , 25, 591-606	5.8	25
129	Structural Insights into VLR Fine Specificity for Blood Group Carbohydrates. <i>Structure</i> , 2017 , 25, 1667-1678.e4	7.8	24
128	Glycosylation of Zika Virus is Important in Host-Virus Interaction and Pathogenic Potential. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	24
127	Tight complex formation between Cosmc chaperone and its specific client non-native T-synthase leads to enzyme activity and client-driven dissociation. <i>Journal of Biological Chemistry</i> , 2012 , 287, 15317-24	5.4	24
126	Schistosoma mansoni Soluble Egg Antigens Induce Expression of the Negative Regulators SOCS1 and SHP1 in Human Dendritic Cells via Interaction with the Mannose Receptor. <i>PLoS ONE</i> , 2015 , 10, e0124089	3.7	24
125	Synthetic 1,2,3-triazole-linked glycoconjugates bind with high affinity to human galectin-3. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 3414-25	3.4	23
124	Treatment with Trichuris suis soluble products during monocyte-to-macrophage differentiation reduces inflammatory responses through epigenetic remodeling. <i>FASEB Journal</i> , 2016 , 30, 2826-36	0.9	23
123	GLAD: GLYcan Array Dashboard, a visual analytics tool for glycan microarrays. <i>Bioinformatics</i> , 2019 , 35, 3536-3537	7.2	22
122	Glycan microarrays of fluorescently-tagged natural glycans. <i>Glycoconjugate Journal</i> , 2015 , 32, 465-73	3	22
121	Probing virus-glycan interactions using glycan microarrays. <i>Methods in Molecular Biology</i> , 2012 , 808, 251-67	6.7	22
120	Natural and Synthetic Sialylated Glycan Microarrays and Their Applications. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 88	5.6	20

119	The Mannose Receptor in Regulation of Helminth-Mediated Host Immunity. <i>Frontiers in Immunology</i> , 2017 , 8, 1677	8.4	20
118	Identification of distinct glycoforms of IgA1 in plasma from patients with immunoglobulin A (IgA) nephropathy and healthy individuals. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 3097-113	7.6	20
117	Identification of Antigenic Glycans from <i>Schistosoma mansoni</i> by Using a Shotgun Egg Glycan Microarray. <i>Infection and Immunity</i> , 2016 , 84, 1371-1386	3.7	19
116	Immunization with recombinantly expressed glycan antigens from <i>Schistosoma mansoni</i> induces glycan-specific antibodies against the parasite. <i>Glycobiology</i> , 2014 , 24, 619-37	5.8	19
115	IVIg regulates the survival of human but not mouse neutrophils. <i>Scientific Reports</i> , 2017 , 7, 1296	4.9	19
114	O-glycan recognition and function in mice and human cancers. <i>Biochemical Journal</i> , 2020 , 477, 1541-1564	3.8	19
113	<i>Trichuris suis</i> induces human non-classical patrolling monocytes via the mannose receptor and PKC: implications for multiple sclerosis. <i>Acta Neuropathologica Communications</i> , 2015 , 3, 45	7.3	18
112	Glycobiology and schizophrenia: a biological hypothesis emerging from genomic research. <i>Molecular Psychiatry</i> , 2020 , 25, 3129-3139	15.1	18
111	Aberrant glycosylation in schizophrenia: a review of 25 years of post-mortem brain studies. <i>Molecular Psychiatry</i> , 2020 , 25, 3198-3207	15.1	18
110	Development of smart anti-glycan reagents using immunized lampreys. <i>Communications Biology</i> , 2020 , 3, 91	6.7	18
109	Isotopic labeling with cellular O-glycome reporter/amplification (ICORA) for comparative O-glycomics of cultured cells. <i>Glycobiology</i> , 2018 , 28, 214-222	5.8	18
108	Targeting of Neutrophil Lewis X Blocks Transepithelial Migration and Increases Phagocytosis and Degranulation. <i>American Journal of Pathology</i> , 2016 , 186, 297-311	5.8	18
107	Microarray analysis of the human antibody response to synthetic <i>Cryptosporidium</i> glycopeptides. <i>International Journal for Parasitology</i> , 2013 , 43, 901-7	4.3	18
106	Development and characterization of a specific IgG monoclonal antibody toward the Lewis x antigen using splenocytes of <i>Schistosoma mansoni</i> -infected mice. <i>Glycobiology</i> , 2013 , 23, 877-92	5.8	18
105	The schizophrenia risk locus in SLC39A8 alters brain metal transport and plasma glycosylation. <i>Scientific Reports</i> , 2020 , 10, 13162	4.9	18
104	Identification of a novel protein binding motif within the T-synthase for the molecular chaperone Cosmc. <i>Journal of Biological Chemistry</i> , 2014 , 289, 11630-11641	5.4	16
103	The transmembrane domain of the molecular chaperone Cosmc directs its localization to the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , 2011 , 286, 11529-42	5.4	16
102	Glycosulfopeptides modeled on P-selectin glycoprotein ligand 1 inhibit P-selectin-dependent leukocyte rolling in vivo. <i>FASEB Journal</i> , 2002 , 16, 1461-2	0.9	16

101	Promoters of Human Cosmc and T-synthase Genes Are Similar in Structure, Yet Different in Epigenetic Regulation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 19018-33	5.4	15
100	Galatrox is a C-type lectin in Bothrops atrox snake venom that selectively binds LacNAc-terminated glycans and can induce acute inflammation. <i>Glycobiology</i> , 2014 , 24, 1010-21	5.8	15
99	Characterizing Emerging Canine H3 Influenza Viruses. <i>PLoS Pathogens</i> , 2020 , 16, e1008409	7.6	15
98	GlycoGlyph: a glycan visualizing, drawing and naming application. <i>Bioinformatics</i> , 2020 , 36, 3613-3614	7.2	14
97	Antigenic Pressure on H3N2 Influenza Virus Drift Strains Imposes Constraints on Binding to Sialylated Receptors but Not Phosphorylated Glycans. <i>Journal of Virology</i> , 2019 , 93,	6.6	14
96	Mucin Glycans Signal through the Sensor Kinase RetS to Inhibit Virulence-Associated Traits in Pseudomonas aeruginosa. <i>Current Biology</i> , 2021 , 31, 90-102.e7	6.3	14
95	Human B Cell Differentiation Is Characterized by Progressive Remodeling of O-Linked Glycans. <i>Frontiers in Immunology</i> , 2018 , 9, 2857	8.4	14
94	A library of chemically defined human N-glycans synthesized from microbial oligosaccharide precursors. <i>Scientific Reports</i> , 2017 , 7, 15907	4.9	13
93	Regulation of neutrophil function by selective targeting of glycan epitopes expressed on the integrin CD11b/CD18. <i>FASEB Journal</i> , 2020 , 34, 2326-2343	0.9	13
92	Identification of Tn antigen O-GalNAc-expressing glycoproteins in human carcinomas using novel anti-Tn recombinant antibodies. <i>Glycobiology</i> , 2020 , 30, 282-300	5.8	13
91	Galectin-1 modulation of neutrophil reactive oxygen species production depends on the cell activation state. <i>Molecular Immunology</i> , 2019 , 116, 80-89	4.3	12
90	Acceptor specificities and selective inhibition of recombinant human Gal- and GlcNAc-transferases that synthesize core structures 1, 2, 3 and 4 of O-glycans. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4274-81	4	12
89	Proteomic and functional analysis identifies galectin-1 as a novel regulatory component of the cytotoxic granule machinery. <i>Cell Death and Disease</i> , 2017 , 8, e3176	9.8	12
88	Profiling of glycan receptors for minute virus of mice in permissive cell lines towards understanding the mechanism of cell recognition. <i>PLoS ONE</i> , 2014 , 9, e86909	3.7	12
87	Preparation of a mannose-6-phosphate glycan microarray through fluorescent derivatization, phosphorylation, and immobilization of natural high-mannose N-glycans and application in ligand identification of P-type lectins. <i>Methods in Molecular Biology</i> , 2012 , 808, 137-48	1.4	12
86	Antibodies from Lampreys as Smart Anti-Glycan Reagents (SAGRs): Perspectives on Their Specificity, Structure, and Glyco-genomics. <i>Biochemistry</i> , 2020 , 59, 3111-3122	3.2	11
85	A comprehensive Caenorhabditis elegans N-glycan shotgun array. <i>Glycobiology</i> , 2018 , 28, 223-232	5.8	11
84	Computational approaches to define a human milk metaglycome. <i>Bioinformatics</i> , 2016 , 32, 1471-8	7.2	11

83	Intact reducing glycan promotes the specific immune response to lacto-N-neotetraose-BSA neoglycoconjugates. <i>Bioconjugate Chemistry</i> , 2015 , 26, 559-71	6.3	11
82	O-glycans on death receptors in cells modulate their sensitivity to TRAIL-induced apoptosis through affecting on their stability and oligomerization. <i>FASEB Journal</i> , 2020 , 34, 11786-11801	0.9	11
81	Emerging patterns of tyrosine sulfation and O-glycosylation cross-talk and co-localization. <i>Current Opinion in Structural Biology</i> , 2020 , 62, 102-111	8.1	10
80	Biochemical characterization of functional domains of the chaperone Cosmc. <i>PLoS ONE</i> , 2017 , 12, e0180342	3.42	10
79	Novel Reversible Fluorescent Glycan Linker for Functional Glycomics. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2897-2908	6.3	10
78	Molecular factors in dendritic cell responses to adsorbed glycoconjugates. <i>Biomaterials</i> , 2014 , 35, 5862-74.6	14.6	10
77	Das Tn-Antigen ist strukturell einfach und biologisch komplex. <i>Angewandte Chemie</i> , 2011 , 123, 1808-1830	3.6	10
76	A Useful Guide to Lectin Binding: Machine-Learning Directed Annotation of 57 Unique Lectin Specificities.. <i>ACS Chemical Biology</i> , 2022 ,	4.9	10
75	Cosmc controls B cell homing. <i>Nature Communications</i> , 2020 , 11, 3990	17.4	10
74	Expression of Lewis-a glycans on polymorphonuclear leukocytes augments function by increasing transmigration. <i>Journal of Leukocyte Biology</i> , 2017 , 102, 753-762	6.5	9
73	The ruminant parasite <i>Haemonchus contortus</i> expresses an alpha1,3-fucosyltransferase capable of synthesizing the Lewis x and sialyl Lewis x antigens. <i>Glycoconjugate Journal</i> , 1998 , 15, 789-98	3	9
72	Galectin-3 aggravates experimental polymicrobial sepsis by impairing neutrophil recruitment to the infectious focus. <i>Journal of Infection</i> , 2018 , 77, 391-397	18.9	8
71	The architecture of the IgG anti-carbohydrate repertoire in primary antibody deficiencies. <i>Blood</i> , 2019 , 134, 1941-1950	2.2	7
70	Convergent Synthesis of Sialyl Lewis- O-Core-1 Threonine. <i>Journal of Organic Chemistry</i> , 2018 , 83, 4963-4972	4.72	7
69	T cells are Smad1y in love with galectin-9. <i>Immunity</i> , 2014 , 41, 171-3	32.3	7
68	A fluorescence-based assay for Core 1 beta-galactosyltransferase (T-synthase) activity. <i>Methods in Molecular Biology</i> , 2013 , 1022, 15-28	1.4	7
67	Amplification and Preparation of Cellular O-Glycomes for Functional Glycomics. <i>Analytical Chemistry</i> , 2020 , 92, 10390-10401	7.8	6
66	Single-chain antibody-fragment M6P-1 possesses a mannose 6-phosphate monosaccharide-specific binding pocket that distinguishes N-glycan phosphorylation in a branch-specific manner. <i>Glycobiology</i> , 2016 , 26, 181-92	5.8	6

65	The schizophrenia risk locus in SLC39A8 alters brain metal transport and plasma glycosylation		6
64	GlyMDB: Glycan Microarray Database and analysis toolset. <i>Bioinformatics</i> , 2020 , 36, 2438-2442	7.2	6
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