Mark R Wormald

List of Publications by Year
in descending order

161 papers	16,279 citations	16437 64 h-index	15716 125 g-index
168 all docs	168 docs citations	168 times ranked	14023 citing authors

#	Article	IF	Citations
1	Glycosylation and the Immune System. Science, 2001, 291, 2370-2376.	6.0	1,487
2	The Impact of Glycosylation on the Biological Function and Structure of Human Immunoglobulins. Annual Review of Immunology, 2007, 25, 21-50.	9.5	1,180
3	Antibody Domain Exchange Is an Immunological Solution to Carbohydrate Cluster Recognition. Science, 2003, 300, 2065-2071.	6.0	736
4	Glycosylation changes of IgG associated with rheumatooid arthritis can activate complement via the mannose-binding protein. Nature Medicine, 1995, 1, 237-243.	15.2	729
5	The Broadly Neutralizing Anti-Human Immunodeficiency Virus Type 1 Antibody 2G12 Recognizes a Cluster of Î±1â†'2 Mannose Residues on the Outer Face of gp120. Journal of Virology, 2002, 76, 7306-7321.	1.5	664
6	Antibodies inhibit prion propagation and clear cell cultures of prion infectivity. Nature, 2001, 412, 739-743.	13.7	503
7	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.	2.5	443
8	Conformational Studies of Oligosaccharides and Glycopeptides:â€‰ Complementarity of NMR, X-ray Crystallography, and Molecular Modelling. Chemical Reviews, 2002, 102, 371-386.	23.0	400
9	Statistical analysis of the protein environment of N-glycosylation sites: implications for occupancy, structure, and folding. Glycobiology, 2003, 14, 103-114.	1.3	391
10	Use of hydrazine to release in intact and unreduced form both N- and O-linked oligosaccharides from glycoproteins. Biochemistry, 1993, 32, 679-693.	1.2	378
11	The Glycosylation and Structure of Human Serum IgA1, Fab, and Fc Regions and the Role of N-Glycosylation on FcÎ± Receptor Interactions. Journal of Biological Chemistry, 1998, 273, 2260-2272.	1.6	363
12	Secretory IgA N- and O-Glycans Provide a Link between the Innate and Adaptive Immune Systems. Journal of Biological Chemistry, 2003, 278, 20140-20153.	1.6	300
13	Glycosylation differences between the normal and pathogenic prion protein isoforms. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 13044-13049.	3.3	263
14	Glycoproteins: glycan presentation and protein-fold stability. Structure, 1999, 7, R155-R160.	1.6	260
15	Roles for glycosylation of cell surface receptors involved in cellular immune recognition. Journal of Molecular Biology, 1999, 293, 351-366.	2.0	221
16	Analysis of Glycoprotein-Associated Oligosaccharides. Annual Review of Biochemistry, 1993, 62, 65-100.	5.0	212
17	Human Serum IgM Glycosylation. Journal of Biological Chemistry, 2005, 280, 29080-29087.	1.6	209
18	Changes in IgG glycoform levels are associated with remission of arthritis during pregnancy. Journal of Autoimmunity, 1991, 4, 779-794.	3.0	206

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19	Variations in Oligosaccharideâ^'Protein Interactions in Immunoglobulin G Determine the Site-Specific Glycosylation Profiles and Modulate the Dynamic Motion of the Fc Oligosaccharides. Biochemistry, 1997, 36, 1370-1380.	1.2	188
20	maternally expressed gene1Is a Novel Maize Endosperm Transfer Cellâ€"Specific Gene with a Maternal Parent-of-Origin Pattern of Expression[W]. Plant Cell, 2004, 16, 1288-1301.	3.1	174
21	Challenges of glycosylation analysis and control: an integrated approach to producing optimal and consistent therapeutic drugs. Drug Discovery Today, 2016, 21, 740-765.	3.2	164
22	The Hemopexin and O-Glycosylated Domains Tune Gelatinase B/MMP-9 Bioavailability via Inhibition and Binding to Cargo Receptors. Journal of Biological Chemistry, 2006, 281, 18626-18637.	1.6	163
23	Glycosylation Changes on Serum Glycoproteins in Ovarian Cancer May Contribute to Disease Pathogenesis. Disease Markers, 2008, 25, 219-232.	0.6	161
24	The Glycosylation of the Complement Regulatory Protein, Human Erythrocyte CD59. Journal of Biological Chemistry, 1997, 272, 7229-7244.	1.6	154
25	Potent inhibition of glycogen phosphorylase by a spirohydantoin of glucopyranose: First pyranose analogues of hydantocidin. Tetrahedron Letters, 1995, 36, 2145-2148.	0.7	148
26	â€œInternal Residue Lossâ€‰â€‰ Rearrangements Occurring during the Fragmentation of Carbohydrates Derivatized at the Reducing Terminus. Analytical Chemistry, 2002, 74, 734-740.	3.2	147
27	Molecular requirements of imino sugars for the selective control of N-linked glycosylation and glycosphingolipid biosynthesis. Tetrahedron: Asymmetry, 2000, 11, 113-124.	1.8	137
28	The high degree of internal flexibility observed for an oligomannose oligosaccharide does not alter the overall topology of the molecule. FEBS Journal, 1998, 258, 372-386.	0.2	131
29	Fast sequencing of oligosaccharides: the reagent-array analysis method.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 6338-6342.	3.3	129
30	Polyhydroxylated pyrrolidine and pyrrolizidine alkaloids from Hyacinthoides non-scripta and Scilla campanulata. Carbohydrate Research, 1999, 316, 95-103.	1.1	126
31	Prion Glycoprotein:â€‰ Structure, Dynamics, and Roles for the Sugars. Biochemistry, 2001, 40, 3759-3766.	1.2	126
32	A statistical analysis of N- and O-glycan linkage conformations from crystallographic data. Glycobiology, 1999, 9, 343-352.	1.3	125
33	The Role and Importance of Glycosylation of Acute Phase Proteins with Focus on Alpha-1 Antitrypsin in Acute and Chronic Inflammatory Conditions. Journal of Proteome Research, 2014, 13, 3131-3143.	1.8	124
34	Crystal Structures of Two H-2Db/Glycopeptide Complexes Suggest a Molecular Basis for CTL Cross-Reactivity. Immunity, 1999, 10, 63-74.	6.6	121
35	Human Follicular Lymphoma Cells Contain Oligomannose Glycans in the Antigen-binding Site of the B-cell Receptor. Journal of Biological Chemistry, 2007, 282, 7405-7415.	1.6	117
36	Characterization of simple isomeric oligosaccharides and the rapid separation of glycan mixtures by ion mobility mass spectrometry. International Journal of Mass Spectrometry, 2010, 298, 119-127.	0.7	114

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37	Mutations at Critical N-Glycosylation Sites Reduce Tyrosinase Activity by Altering Folding and Quality Control. Journal of Biological Chemistry, 2000, 275, 8169-8175.	1.6	113
38	Complement regulation at the molecular level: The structure of decay-accelerating factor. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1279-1284.	3.3	112
39	Glycosylation of Natural Human Neutrophil Gelatinase B and Neutrophil Gelatinase B-Associated Lipocalin. Biochemistry, 1999, 38, 13937-13950.	1.2	108
40	Structure and function of X-Pro dipeptide repeats in the TonB proteins of Salmonella typhimurium and Escherichia coli. Journal of Molecular Biology, 1990, 216, 883-895.	2.0	104
41	Sugar-mediated ligandâ€“receptor interactions in the immune system. Trends in Biotechnology, 2004, 22, 524-530.	4.9	102
42	Australine and related alkaloids: easy structural confirmation by 13C NMR spectral data and biological activities. Tetrahedron: Asymmetry, 2003, 14, 325-331.	1.8	100
43	The Glycosylation of Human Serum IgD and IgE and the Accessibility of Identified Oligomannose Structures for Interaction with Mannan-Binding Lectin. Journal of Immunology, 2004, 173, 6831-6840.	0.4	100
44	The conformational effects of N-glycosylation on the tailpiece from serum IgM. FEBS Journal, 1991, 198, 131-139.	0.2	99
45	The effects of variable glycosylation on the functional activities of ribonuclease, plasminogen and tissue plasminogen activator. BBA - Proteins and Proteomics, 1995, 1248, 1-10.	2.1	97
46	Afamin Is a Novel Human Vitamin E-Binding Glycoprotein Characterization and In Vitro Expression. Journal of Proteome Research, 2005, 4, 889-899.	1.8	97
47	A nonself sugar mimic of the HIV glycan shield shows enhanced antigenicity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17107-17112.	3.3	95
48	The solution NMR structure of glucosylated N-glycans involved in the early stages of glycoprotein biosynthesis and folding. EMBO Journal, 1997, 16, 4302-4310.	3.5	91
49	Glycosidase-inhibiting pyrrolidine alkaloids from Hyacinthoides non-scripta. Phytochemistry, 1997, 46, 255-259.	1.4	91
50	Casuarine: A very highly oxygenated pyrrolizidine alkaloid. Tetrahedron Letters, 1994, 35, 7849-7852.	0.7	90
51	Glycosylation and Fc Receptors. Current Topics in Microbiology and Immunology, 2014, 382, 165-199.	0.7	89
52	O-Glycan Analysis of Natural Human Neutrophil Gelatinase B Using a Combination of Normal Phase-HPLC and Online Tandem Mass Spectrometry:Â Implications for the Domain Organization of the Enzymeâ€. Biochemistry, 2000, 39, 15695-15704.	1.2	87
53	Controlled glycosylation of therapeutic antibodies in plants. Archives of Biochemistry and Biophysics, 2004, 426, 266-278.	1.4	85
54	Matrix remodelling enzymes, the protease cascade and glycosylation. Biochimica Et Biophysica Acta - General Subjects, 2001, 1528, 61-73.	1.1	84

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55	The solution conformation of the Le group. Biochemical and Biophysical Research Communications, 1991, 180, 1214-1221.	1.0	82
56	Tyrosinase Folding and Copper Loading in Vivo: A Crucial Role for Calnexin and Î±-Glucosidase II. Biochemical and Biophysical Research Communications, 1999, 261, 720-725.	1.0	82
57	Glycosylation and prion protein. Current Opinion in Structural Biology, 2002, 12, 578-586.	2.6	81
58	Structural aspects of glycomes with a focus on N-glycosylation and glycoprotein folding. Current Opinion in Structural Biology, 2006, 16, 600-607.	2.6	79
59	Polysaccharide mimicry of the epitope of the broadly neutralizing anti-HIV antibody, 2G12, induces enhanced antibody responses to self oligomannose glycans. Glycobiology, 2010, 20, 812-823.	1.3	77
60	Preparation, biochemical characterization and biological properties of radiolabelled N-alkylated deoxynojirimycins. Biochemical Journal, 2002, 366, 225-233.	1.7	75
61	Fc gamma receptors: glycobiology and therapeutic prospects. Journal of Inflammation Research, 2016, Volume 9, 209-219.	1.6	71
62	Glycosylation Influences the Lectin Activities of the Macrophage Mannose Receptor. Journal of Biological Chemistry, 2005, 280, 32811-32820.	1.6	69
63	Inhibition of Mammalian Glycan Biosynthesis Produces Non-self Antigens for a Broadly Neutralising, HIV-1 Specific Antibody. Journal of Molecular Biology, 2007, 372, 16-22.	2.0	68
64	Design, Synthesis, and Biological Evaluation of Enantiomeric Î²â€‹i›N‹/i›â€Acetylhexosaminidase Inhibitors LABNAc and DABNAc as Potential Agents against Tayâ€Sachs and Sandhoff Disease. ChemMedChem, 2009, 4, 378-392.	1.6	68
65	The Carbohydrate Epitope of the Neutralizing Anti-HIV-1 Antibody 2G12. Advances in Experimental Medicine and Biology, 2003, 535, 205-218.	0.8	65
66	Characterisation of oligosaccharides from Drosophila melanogaster glycoproteins. Biochimica Et Biophysica Acta - General Subjects, 1991, 1075, 146-153.	1.1	61
67	Some structural features of the iron-uptake regulation protein. FEBS Journal, 1991, 197, 29-38.	0.2	58
68	Chromophore Structure in the Photocycle of the Cyanobacterial Phytochrome Cph1. Biophysical Journal, 2006, 91, 1811-1822.	0.2	54
69	The BLT1 Inhibitory Function of Î±-1 Antitrypsin Augmentation Therapy Disrupts Leukotriene B4Neutrophil Signaling. Journal of Immunology, 2015, 195, 3628-3641.	0.4	52
70	Selective placental transport of maternal IgG to the fetus. Placenta, 1995, 16, 749-756.	0.7	51
71	Looking glass inhibitors:l-DMDP, a more potent and specific inhibitor of Î±-glucosidases than the enantiomeric natural product DMDP. Chemical Communications, 2004, , 1936-1937.	2.2	51
72	Crystallographic, thermodynamic, and molecular modeling studies of the mode of binding of oligosaccharides to the potent antiviral protein griffithsin. Proteins: Structure, Function and Bioinformatics, 2007, 67, 661-670.	1.5	51

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73	Configurational and conformational analysis of highly oxygenated pyrrolizidines: definitive identification of some naturally occurring 7a-epi-alexines. Tetrahedron: Asymmetry, 1998, 9, 2549-2558.	1.8	48
74	Design and synthesis of iminosugar-based inhibitors of glucosylceramide synthase: the search for new therapeutic agents against Gaucher disease. Tetrahedron: Asymmetry, 2005, 16, 1747-1756.	1.8	47
75	Synthetic Chemical Inducers and Genetic Decoupling Enable Orthogonal Control of the rhaBAD Promoter. ACS Synthetic Biology, 2016, 5, 1136-1145.	1.9	47
76	Total synthesis of the Glc3Man N-glycan tetrasaccharide. Tetrahedron, 2002, 58, 9403-9411.	1.0	46
77	O-Glycan Sialylation and the Structure of the Stalk-like Region of the T Cell Co-receptor CD8. Journal of Biological Chemistry, 2003, 278, 27119-27128.	1.6	45
78	Synthesis of the naringinase inhibitors l-swainsonine and related 6-C-methyl-l-swainsonine analogues: (6R)-C-methyl-l-swainsonine is a more potent inhibitor of l-rhamnosidase by an order of magnitude than l-swainsonine. Tetrahedron Letters, 2008, 49, 179-184.	0.7	44
79	Structural comparison of differently glycosylated forms of acid-Î²-glucosidase, the defective enzyme in Gaucher disease. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1458-1465.	2.5	42
80	Cystic fibrosis and diabetes: isoLAB and isoDAB, enantiomeric carbon-branched pyrrolidine iminosugars. Tetrahedron Letters, 2010, 51, 4170-4174.	0.7	42
81	Tuning the Cavity of Cyclodextrins: Altered Sugar Adaptors in Protein Pores. Journal of the American Chemical Society, 2011, 133, 1987-2001.	6.6	42
82	Variable region heavy chain glycosylation determines the anticoagulant activity of a factor VIII antibody. Journal of Thrombosis and Haemostasis, 2006, 4, 1047-1055.	1.9	39
83	Remnant epitopes, autoimmunity and glycosylation. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 610-615.	1.1	38
84	Isolation synthesis and glycosidase inhibition profile of 3-epi-casuarine. Tetrahedron: Asymmetry, 2006, 17, 2702-2712.	1.8	38
85	Oligosaccharide analysis and molecular modeling of soluble forms of glycoproteins belonging to the Ly-6, scavenger receptor, and immunoglobulin superfamilies expressed in Chinese hamster ovary cells. Glycobiology, 1999, 9, 443-458.	1.3	37
86	Hybrid and Complex Glycans Are Linked to the Conserved N-Glycosylation Site of the Third Eight-Cysteine Domain of LTBP-1 in Insect Cellsâ€. Biochemistry, 2000, 39, 1596-1603.	1.2	37
87	The isolation from Nicandra physalodes and identification of the 3-O-Î²-D-glucopyranoside of 1Î±,2Î²,3Î±,6Î±-tetrahydroxy-nor-tropane (Calystegine B1). Tetrahedron Letters, 1996, 37, 3207-3208.	0.7	36
88	Modeling of the N-Glycosylated Transferrin Receptor Suggests How Transferrin Binding Can Occur within the Surface Coat of Trypanosoma brucei. PLoS Pathogens, 2012, 8, e1002618.	2.1	36
89	Solution NMR studies of colicin E1 C-terminal thermolytic peptide. Structural comparison with colicin A and the effects of pH changes. FEBS Journal, 1990, 191, 155-161.	0.2	35
90	Isomerization of deoxyhexoses: green bioproduction of 1-deoxy-d-tagatose from l-fucose and of 6-deoxy-d-tagatose from d-fucose using Enterobacter agglomerans strain 221e. Tetrahedron: Asymmetry, 2008, 19, 739-745.	1.8	35

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91	4-C-Me-DAB and 4-C-Me-LABâ€"enantiomeric alkyl-branched pyrrolidine iminosugarsâ€"are specific and potent Î±-glucosidase inhibitors; acetone as the sole protecting group. Tetrahedron Letters, 2011, 52, 219-223.	0.7	35
92	Mimics of l-rhamnose: Analogues of rhamnopyranose containing a constituent Î±-amino acid at the anomeric position. A rhamnopyranose analogue of hydantocidin. Tetrahedron: Asymmetry, 1996, 7, 391-394.	1.8	34
93	Synthesis of and NMR studies on the four diastereomeric 1-deoxy-d-ketohexoses. Tetrahedron: Asymmetry, 2007, 18, 774-786.	1.8	33
94	Spirodiketopiperazines of mannofuranose: carbopeptoid Î±-amino acid esters at the anomeric position of mannofuranose. Tetrahedron: Asymmetry, 1998, 9, 2137-2154.	1.8	31
95	Efficient synthesis from d-lyxonolactone of 2-acetamido-1,4-imino-1,2,4-trideoxy-l-arabinitol LABNAc, a potent pyrrolidine inhibitor of hexosaminidases. Tetrahedron Letters, 2007, 48, 4287-4291.	0.7	30
96	Nine of 16 Stereoisomeric Polyhydroxylated Proline Amides Are Potent Î²-N-Acetylhexosaminidase Inhibitors. Journal of Organic Chemistry, 2014, 79, 3398-3409.	1.7	30
97	Identification and description of Î²-structure in horse muscle acylphosphatase by nuclear magnetic resonance spectroscopy. Journal of Molecular Biology, 1989, 207, 405-415.	2.0	29
98	Spirocyclic peptides at the anomeric position of mannofuranose. Tetrahedron Letters, 1994, 35, 8889-8890.	0.7	29
99	N-Linked Glycan Structures of the Human FcÎ³ Receptors Produced in NS0 Cells. Journal of Proteome Research, 2013, 12, 3721-3737.	1.8	28
100	A galactopyranose analogue of hydantocidin. Tetrahedron: Asymmetry, 1996, 7, 157-170.	1.8	27
101	Synthesis of 2-C-branched derivatives of d-mannose: 2-C-aminomethyl-d-mannose binds to the human C-type lectin DC-SIGN with affinity greater than an order of magnitude compared to that of d-mannose. Tetrahedron: Asymmetry, 2007, 18, 1502-1510.	1.8	27
102	Towards the biotechnological isomerization of branched sugars: d-tagatose-3-epimerase equilibrates both enantiomers of 4-C-methyl-ribulose with both enantiomers of 4-C-methyl-xylulose. Tetrahedron Letters, 2008, 49, 3316-3321.	0.7	27
103	Tri- and tetra-peptides incorporating an Î±-amino acid at the anomeric position of mannofuranose. Tetrahedron Letters, 1994, 35, 8885-8888.	0.7	26
104	Synthesis and Solution-Phase Conformation of the RG-I Fragment of the Plant Polysaccharide Pectin Reveals a Modification-Modulated Assembly Mechanism. Journal of the American Chemical Society, 2010, 132, 7238-7239.	6.6	26
105	O-Linked Glycosylation in Focus.. Trends in Glycoscience and Glycotechnology, 2000, 12, 35-49.	0.0	25
106	Sugar amino acids at the anomeric position of carbohydrates: synthesis of spirocyclic amino acids of 6-deoxy-l-lyxofuranose. Tetrahedron: Asymmetry, 2006, 17, 2276-2286.	1.8	25
107	Differential Nâ€glycosylation of a monoclonal antibody expressed in tobacco leaves with and without endoplasmic reticulum retention signal apparently induces similar in vivo stability in mice. Plant Biotechnology Journal, 2011, 9, 1120-1130.	4.1	25
108	Soluble human TLR2 ectodomain binds diacylglycerol from microbial lipopeptides and glycolipids. Innate Immunity, 2015, 21, 175-193.	1.1	25

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109	Benefits of Simulations as Remote Exercises During the COVID-19 Pandemic: An Enzyme Kinetics Case Study. Journal of Chemical Education, 2020, 97, 2733-2737.	1.1	25
110	3-Fluoroazetidinecarboxylic Acids and trans,trans-3,4-Difluoroproline as Peptide Scaffolds: Inhibition of Pancreatic Cancer Cell Growth by a Fluoroazetidine Iminosugar. Journal of Organic Chemistry, 2015, 80, 4244-4258.	1.7	24
111	A concise approach to the synthesis of all twelve 5-deoxyhexoses: d-tagatose-3-epimeraseâ€"a reagent that is both specific and general. Tetrahedron Letters, 2009, 50, 3559-3563.	0.7	23
112	Synthesis of 1,5-dideoxy-3-O-(Î±-D-mannopyranosyl)-1,5-imino-D-mannitol and 1,5-dideoxy-3-O-(Î±-D-glucopyranosyl)-1,5-imino-D-mannitol: Powerful inhibitors of endomannosidase. Tetrahedron: Asymmetry, 1993, 4, 2011-2024.	1.8	22
113	Fluorescence labelling of carbohydrates with 2-aminobenzamide (2AB). Tetrahedron: Asymmetry, 2000, 11, 4985-4994.	1.8	22
114	The Conformational Properties of the Glc3Man Unit Suggest Conformational Biasing within the Chaperone-assisted Glycoprotein Folding Pathway. Journal of Molecular Biology, 2009, 387, 335-347.	2.0	22
115	Green syntheses of new 2-C-methyl aldohexoses and 5-C-methyl ketohexoses: d-tagatose-3-epimerase (DTE)â€"a promiscuous enzyme. Tetrahedron: Asymmetry, 2008, 19, 1904-1918.	1.8	21
116	Synthesis from <scp>d</scp>-Altrose of (5R,6R,7R,8S)-5,7-Dihydroxy-8-hydroxymethylconidine and 2,4-Dideoxy-2,4-imino-<scp>d</scp>-glucitol, Azetidine Analogues of Swainsonine and 1,4-Dideoxy-1,4-imino-<scp>d</scp>-mannitol. Organic Letters, 2012, 14, 4174-4177.	2.4	21
117	Cancer-Associated Glycoforms of Gelatinase B Exhibit a Decreased Level of Binding to Galectin-3â€. Biochemistry, 2006, 45, 15249-15258.	1.2	20
118	Circulating Truncated Alpha-1 Antitrypsin Glycoprotein in Patient Plasma Retains Anti-Inflammatory Capacity. Journal of Immunology, 2019, 202, 2240-2253.	0.4	20
119	Spirodiketopiperazines at the Anomeric position of Mannopyranose: Novel N-Linked Glycopeptides Incorporating an Î±-amino acid at the Anomeric Position of Mannopyranose. Tetrahedron Letters, 1995, 36, 8287-8290.	0.7	19
120	Fast sequencing of oligosaccharides using arrays of enzymes. Nature, 1992, 358, 693-694.	13.7	18
121	The systematic use of negative nuclear overhauser constraints in the determination of oligosaccharide conformations: application to sialyl-Lewis X. Carbohydrate Research, 1993, 246, 337-344.	1.1	18
122	Synthesis of fluorescence-labelled disaccharide substrates of glucosidase II. Carbohydrate Research, 2003, 338, 1937-1949.	1.1	18
123	Sialylation of urinary prothrombin fragment 1 is implicated as a contributory factor in the risk of calcium oxalate kidney stone formation. FEBS Journal, 2006, 273, 3024-3037.	2.2	18
124	Comprehensive N-Glycan Profiling of Avian Immunoglobulin Y. PLoS ONE, 2016, 11, e0159859.	1.1	18
125	Carbopeptoids: peptides and diketopiperazines incorporating the anomeric centre of mannopyranose. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 807-813.	1.3	17
126	The Presence of Outer Arm Fucose Residues on the N-Glycans of Tissue Inhibitor of Metalloproteinases-1 Reduces Its Activity. Journal of Proteome Research, 2013, 12, 3547-3560.	1.8	17

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127	A Review of Alpha-1 Antitrypsin Binding Partners for Immune Regulation and Potential Therapeutic Application. International Journal of Molecular Sciences, 2022, 23, 2441.	1.8	17
128	At least two Fc Neu5Gc residues of monoclonal antibodies are required for binding to anti-Neu5Gc antibody. Scientific Reports, 2016, 6, 20029.	1.6	16
129	Full simulation of ROESY, including the Hartmann-Hahn effects. Chemical Physics Letters, 1990, 174, 313-319.	1.2	15
130	Eight Stereoisomers of Homonojirimycin from <scp>d</scp>-Mannose. Organic Letters, 2012, 14, 2050-2053.	2.4	15
131	Effect of SerineO-Glycosylation onCis-TransProline Isomerization. Biochemical and Biophysical Research Communications, 1996, 219, 157-162.	1.0	13
132	Glycosylation and the Immune System.. Trends in Glycoscience and Glycotechnology, 1999, 11, 1-21.	0.0	13
133	A family of novel, acidic N-glycans in Bowes melanoma tissue plasminogen activator have L2/HNK-1-bearing antennae, many with sulfation of the fucosylated chitobiose core. FEBS Journal, 2001, 268, 4063-4078.	0.2	12
134	Triacetonide of Glucoheptonic Acid in the Scalable Syntheses of <scp>d</scp>-Gulose, 6-Deoxy-<scp>d</scp>-gulose, <scp>l</scp>-Glucose, 6-Deoxy-<scp>l</scp>-glucose, and Related Sugars. Organic Letters, 2016, 18, 4112-4115.	2.4	11
135	The Glycosylation of the Complement Regulatory Protein, Human Erythrocyte CD59. Advances in Experimental Medicine and Biology, 1998, 435, 153-162.	0.8	11
136	Mapping space by NMR using susceptibility changes at phase boundaries. Journal of Inorganic Biochemistry, 1986, 28, 381-391.	1.5	9
137	The importance of including local correlation times in the calculation of inter-proton distances from NMR measurements: ignoring local correlation times leads to significant errors in the conformational analysis of the Glcî±1â€“2Glcî± linkage by NMR spectroscopy. Organic and Biomolecular Chemistry, 2006, 4, 2241-2246.	1.5	9
138	<scp>l</scp>-Fucose from Vitamin C with Only Acetonide Protection. Organic Letters, 2014, 16, 5663-5665.	2.4	9
139	Carbohydrates and glycoconjugates. Current Opinion in Structural Biology, 2004, 14, 591-592.	2.6	8
140	6â€²Deoxyhexoses from <scp>l</scp>â€²Rhamnose in the Search for Inducers of the Rhamnose Operon: Synergy of Chemistry and Biotechnology. Chemistry - A European Journal, 2016, 22, 12557-12565.	1.7	8
141	Ataluren, a New Therapeutic for Alpha-1 Antitrypsinâ€“Deficient Individuals with Nonsense Mutations. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1099-1102.	2.5	8
142	Isolation from Stevia rebaudiana of DMDP acetic acid, a novel iminosugar amino acid: synthesis and glycosidase inhibition profile of glycine and Î²-alanine pyrrolidine amino acids. Amino Acids, 2019, 51, 991-998.	1.2	7
143	Theory of resonance in magnetically inhomogeneous specimens and some useful calculations. Journal of Magnetic Resonance, 1988, 77, 223-232.	0.5	6
144	The conformational effects of N-linked glycosylation. Biochemical Society Transactions, 1993, 21, 452-455.	1.6	6

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145	Roles for glycosylation in the anti-inflammatory molecule CD59. Biochemical Society Transactions, 1997, 25, 1177-1184.	1.6	6
146	Doubly carbon-branched pentoses: synthesis of both enantiomers of 2,4-di-C-methyl arabinose and 2-deoxy-2,4-di-C-methyl arabinose using only acetonide protection. Tetrahedron Letters, 2009, 50, 5088-5093.	0.7	6
147	Spirodiketopiperazines at the anomeric position of mannopyranose: Novel N- linked glycopeptides incorporating an Î±- amino acid at the anomeric position of mannopyranose. Tetrahedron Letters, 1995, 36, 8287-8290.	0.7	5
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