

Mark R Wormald

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4719090/publications.pdf>

Version: 2024-02-01

162
papers

16,279
citations

16451

64
h-index

15732

125
g-index

168
all docs

168
docs citations

168
times ranked

14023
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycosylation and the Immune System. <i>Science</i> , 2001, 291, 2370-2376.	12.6	1,487
2	The Impact of Glycosylation on the Biological Function and Structure of Human Immunoglobulins. <i>Annual Review of Immunology</i> , 2007, 25, 21-50.	21.8	1,180
3	Antibody Domain Exchange Is an Immunological Solution to Carbohydrate Cluster Recognition. <i>Science</i> , 2003, 300, 2065-2071.	12.6	736
4	Glycosylation changes of IgG associated with rheumatoid arthritis can activate complement via the mannose-binding protein. <i>Nature Medicine</i> , 1995, 1, 237-243.	30.7	729
5	The Broadly Neutralizing Anti-Human Immunodeficiency Virus Type 1 Antibody 2G12 Recognizes a Cluster of 2 Mannose Residues on the Outer Face of gp120. <i>Journal of Virology</i> , 2002, 76, 7306-7321.	3.4	664
6	Antibodies inhibit prion propagation and clear cell cultures of prion infectivity. <i>Nature</i> , 2001, 412, 739-743.	27.8	503
7	High Throughput Isolation and Glycosylation Analysis of IgG Variability and Heritability of the IgG Glycome in Three Isolated Human Populations. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.010090.	3.8	443
8	Conformational Studies of Oligosaccharides and Glycopeptides: Complementarity of NMR, X-ray Crystallography, and Molecular Modelling. <i>Chemical Reviews</i> , 2002, 102, 371-386.	47.7	400
9	Statistical analysis of the protein environment of N-glycosylation sites: implications for occupancy, structure, and folding. <i>Glycobiology</i> , 2003, 14, 103-114.	2.5	391
10	Use of hydrazine to release in intact and unreduced form both N- and O-linked oligosaccharides from glycoproteins. <i>Biochemistry</i> , 1993, 32, 679-693.	2.5	378
11	The Glycosylation and Structure of Human Serum IgA1, Fab, and Fc Regions and the Role of N-Glycosylation on Fcγ Receptor Interactions. <i>Journal of Biological Chemistry</i> , 1998, 273, 2260-2272.	3.4	363
12	Secretory IgA N- and O-Glycans Provide a Link between the Innate and Adaptive Immune Systems. <i>Journal of Biological Chemistry</i> , 2003, 278, 20140-20153.	3.4	300
13	Glycosylation differences between the normal and pathogenic prion protein isoforms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 13044-13049.	7.1	263
14	Glycoproteins: glycan presentation and protein-fold stability. <i>Structure</i> , 1999, 7, R155-R160.	3.3	260
15	Roles for glycosylation of cell surface receptors involved in cellular immune recognition. <i>Journal of Molecular Biology</i> , 1999, 293, 351-366.	4.2	221
16	Analysis of Glycoprotein-Associated Oligosaccharides. <i>Annual Review of Biochemistry</i> , 1993, 62, 65-100.	11.1	212
17	Human Serum IgM Glycosylation. <i>Journal of Biological Chemistry</i> , 2005, 280, 29080-29087.	3.4	209
18	Changes in IgG glycoform levels are associated with remission of arthritis during pregnancy. <i>Journal of Autoimmunity</i> , 1991, 4, 779-794.	6.5	206

#	ARTICLE	IF	CITATIONS
19	Variations in Oligosaccharide-Protein Interactions in Immunoglobulin G Determine the Site-Specific Glycosylation Profiles and Modulate the Dynamic Motion of the Fc Oligosaccharides. <i>Biochemistry</i> , 1997, 36, 1370-1380.	2.5	188
20	maternally expressed gene 1 Is a Novel Maize Endosperm Transfer Cell-Specific Gene with a Maternal Parent-of-Origin Pattern of Expression[W]. <i>Plant Cell</i> , 2004, 16, 1288-1301.	6.6	174
21	Challenges of glycosylation analysis and control: an integrated approach to producing optimal and consistent therapeutic drugs. <i>Drug Discovery Today</i> , 2016, 21, 740-765.	6.4	164
22	The Hemopexin and O-Glycosylated Domains Tune Gelatinase B/MMP-9 Bioavailability via Inhibition and Binding to Cargo Receptors. <i>Journal of Biological Chemistry</i> , 2006, 281, 18626-18637.	3.4	163
23	Glycosylation Changes on Serum Glycoproteins in Ovarian Cancer May Contribute to Disease Pathogenesis. <i>Disease Markers</i> , 2008, 25, 219-232.	1.3	161
24	The Glycosylation of the Complement Regulatory Protein, Human Erythrocyte CD59. <i>Journal of Biological Chemistry</i> , 1997, 272, 7229-7244.	3.4	154
25	Potent inhibition of glycogen phosphorylase by a spirohydantoin of glucopyranose: First pyranose analogues of hydantocidin. <i>Tetrahedron Letters</i> , 1995, 36, 2145-2148.	1.4	148
26	Internal Residue Loss and Rearrangements Occurring during the Fragmentation of Carbohydrates Derivatized at the Reducing Terminus. <i>Analytical Chemistry</i> , 2002, 74, 734-740.	6.5	147
27	Molecular requirements of imino sugars for the selective control of N-linked glycosylation and glycosphingolipid biosynthesis. <i>Tetrahedron: Asymmetry</i> , 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. <i>FEBS Journal</i> , 1998, 258, 372-386.	0.2	131
29	Fast sequencing of oligosaccharides: the reagent-array analysis method.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 6338-6342.	7.1	129
30	Polyhydroxylated pyrrolidine and pyrrolizidine alkaloids from <i>Hyacinthoides non-scripta</i> and <i>Scilla campanulata</i> . <i>Carbohydrate Research</i> , 1999, 316, 95-103.	2.3	126
31	Prion Glycoprotein: Structure, Dynamics, and Roles for the Sugars. <i>Biochemistry</i> , 2001, 40, 3759-3766.	2.5	126
32	A statistical analysis of N- and O-glycan linkage conformations from crystallographic data. <i>Glycobiology</i> , 1999, 9, 343-352.	2.5	125
33	The Role and Importance of Glycosylation of Acute Phase Proteins with Focus on Alpha-1 Antitrypsin in Acute and Chronic Inflammatory Conditions. <i>Journal of Proteome Research</i> , 2014, 13, 3131-3143.	3.7	124
34	Crystal Structures of Two H-2Db/Glycopeptide Complexes Suggest a Molecular Basis for CTL Cross-Reactivity. <i>Immunity</i> , 1999, 10, 63-74.	14.3	121
35	Human Follicular Lymphoma Cells Contain Oligomannose Glycans in the Antigen-binding Site of the B-cell Receptor. <i>Journal of Biological Chemistry</i> , 2007, 282, 7405-7415.	3.4	117
36	Characterization of simple isomeric oligosaccharides and the rapid separation of glycan mixtures by ion mobility mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2010, 298, 119-127.	1.5	114

#	ARTICLE	IF	CITATIONS
37	Mutations at Critical N-Glycosylation Sites Reduce Tyrosinase Activity by Altering Folding and Quality Control. <i>Journal of Biological Chemistry</i> , 2000, 275, 8169-8175.	3.4	113
38	Complement regulation at the molecular level: The structure of decay-accelerating factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1279-1284.	7.1	112
39	Glycosylation of Natural Human Neutrophil Gelatinase B and Neutrophil Gelatinase B-Associated Lipocalin. <i>Biochemistry</i> , 1999, 38, 13937-13950.	2.5	108
40	Structure and function of X-Pro dipeptide repeats in the TonB proteins of <i>Salmonella typhimurium</i> and <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1990, 216, 883-895.	4.2	104
41	Sugar-mediated ligand-receptor interactions in the immune system. <i>Trends in Biotechnology</i> , 2004, 22, 524-530.	9.3	102
42	Australine and related alkaloids: easy structural confirmation by ¹³ C NMR spectral data and biological activities. <i>Tetrahedron: Asymmetry</i> , 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. <i>Journal of Immunology</i> , 2004, 173, 6831-6840.	0.8	100
44	The conformational effects of N-glycosylation on the tailpiece from serum IgM. <i>FEBS Journal</i> , 1991, 198, 131-139.	0.2	99
45	The effects of variable glycosylation on the functional activities of ribonuclease, plasminogen and tissue plasminogen activator. <i>BBA - Proteins and Proteomics</i> , 1995, 1248, 1-10.	2.1	97
46	Afamin Is a Novel Human Vitamin E-Binding Glycoprotein Characterization and In Vitro Expression. <i>Journal of Proteome Research</i> , 2005, 4, 889-899.	3.7	97
47	A nonself sugar mimic of the HIV glycan shield shows enhanced antigenicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17107-17112.	7.1	95
48	The solution NMR structure of glucosylated N-glycans involved in the early stages of glycoprotein biosynthesis and folding. <i>EMBO Journal</i> , 1997, 16, 4302-4310.	7.8	91
49	Glycosidase-inhibiting pyrrolidine alkaloids from <i>Hyacinthoides non-scripta</i> . <i>Phytochemistry</i> , 1997, 46, 255-259.	2.9	91
50	Casuarine: A very highly oxygenated pyrrolizidine alkaloid. <i>Tetrahedron Letters</i> , 1994, 35, 7849-7852.	1.4	90
51	Glycosylation and Fc Receptors. <i>Current Topics in Microbiology and Immunology</i> , 2014, 382, 165-199.	1.1	89
52	O-Glycan Analysis of Natural Human Neutrophil Gelatinase B Using a Combination of Normal Phase-HPLC and Online Tandem Mass Spectrometry: Implications for the Domain Organization of the Enzyme. <i>Biochemistry</i> , 2000, 39, 15695-15704.	2.5	87
53	Controlled glycosylation of therapeutic antibodies in plants. <i>Archives of Biochemistry and Biophysics</i> , 2004, 426, 266-278.	3.0	85
54	Matrix remodelling enzymes, the protease cascade and glycosylation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1528, 61-73.	2.4	84

#	ARTICLE	IF	CITATIONS
55	The solution conformation of the Le group. <i>Biochemical and Biophysical Research Communications</i> , 1991, 180, 1214-1221.	2.1	82
56	Tyrosinase Folding and Copper Loading in Vivo: A Crucial Role for Calnexin and α -Glucosidase II. <i>Biochemical and Biophysical Research Communications</i> , 1999, 261, 720-725.	2.1	82
57	Glycosylation and prion protein. <i>Current Opinion in Structural Biology</i> , 2002, 12, 578-586.	5.7	81
58	Structural aspects of glycomes with a focus on N-glycosylation and glycoprotein folding. <i>Current Opinion in Structural Biology</i> , 2006, 16, 600-607.	5.7	79
59	Polysaccharide mimicry of the epitope of the broadly neutralizing anti-HIV antibody, 2G12, induces enhanced antibody responses to self oligomannose glycans. <i>Glycobiology</i> , 2010, 20, 812-823.	2.5	77
60	Preparation, biochemical characterization and biological properties of radiolabelled N-alkylated deoxynojirimycins. <i>Biochemical Journal</i> , 2002, 366, 225-233.	3.7	75
61	Fc gamma receptors: glycobiology and therapeutic prospects. <i>Journal of Inflammation Research</i> , 2016, Volume 9, 209-219.	3.5	71
62	Glycosylation Influences the Lectin Activities of the Macrophage Mannose Receptor. <i>Journal of Biological Chemistry</i> , 2005, 280, 32811-32820.	3.4	69
63	Inhibition of Mammalian Glycan Biosynthesis Produces Non-self Antigens for a Broadly Neutralising, HIV-1 Specific Antibody. <i>Journal of Molecular Biology</i> , 2007, 372, 16-22.	4.2	68
64	Design, Synthesis, and Biological Evaluation of Enantiomeric α -Acetylhexosaminidase Inhibitors LABNAc and DABNAc as Potential Agents against Tayâ€šsachs and Sandhoff Disease. <i>ChemMedChem</i> , 2009, 4, 378-392.	3.2	68
65	The Carbohydrate Epitope of the Neutralizing Anti-HIV-1 Antibody 2G12. <i>Advances in Experimental Medicine and Biology</i> , 2003, 535, 205-218.	1.6	65
66	Characterisation of oligosaccharides from <i>Drosophila melanogaster</i> glycoproteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1075, 146-153.	2.4	61
67	Some structural features of the iron-uptake regulation protein. <i>FEBS Journal</i> , 1991, 197, 29-38.	0.2	58
68	Chromophore Structure in the Photocycle of the Cyanobacterial Phytochrome Cph1. <i>Biophysical Journal</i> , 2006, 91, 1811-1822.	0.5	54
69	The BLT1 Inhibitory Function of α -1 Antitrypsin Augmentation Therapy Disrupts Leukotriene B4Neutrophil Signaling. <i>Journal of Immunology</i> , 2015, 195, 3628-3641.	0.8	52
70	Selective placental transport of maternal IgG to the fetus. <i>Placenta</i> , 1995, 16, 749-756.	1.5	51
71	Looking glass inhibitors: α -DMDP, a more potent and specific inhibitor of α -glucosidases than the enantiomeric natural product DMDP. <i>Chemical Communications</i> , 2004, , 1936-1937.	4.1	51
72	Crystallographic, thermodynamic, and molecular modeling studies of the mode of binding of oligosaccharides to the potent antiviral protein griffithsin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 67, 661-670.	2.6	51

#	ARTICLE	IF	CITATIONS
73	Configurational and conformational analysis of highly oxygenated pyrrolizidines: definitive identification of some naturally occurring 7 α -epi-alexines. <i>Tetrahedron: Asymmetry</i> , 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. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 1747-1756.	1.8	47
75	Synthetic Chemical Inducers and Genetic Decoupling Enable Orthogonal Control of the <i>rhaBAD</i> Promoter. <i>ACS Synthetic Biology</i> , 2016, 5, 1136-1145.	3.8	47
76	Total synthesis of the Glc3Man N-glycan tetrasaccharide. <i>Tetrahedron</i> , 2002, 58, 9403-9411.	1.9	46
77	O-Glycan Sialylation and the Structure of the Stalk-like Region of the T Cell Co-receptor CD8. <i>Journal of Biological Chemistry</i> , 2003, 278, 27119-27128.	3.4	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. <i>Tetrahedron Letters</i> , 2008, 49, 179-184.	1.4	44
79	Structural comparison of differently glycosylated forms of acid- β -glucosidase, the defective enzyme in Gaucher disease. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 1458-1465.	2.5	42
80	Cystic fibrosis and diabetes: isoLAB and isoDAB, enantiomeric carbon-branched pyrrolidine iminosugars. <i>Tetrahedron Letters</i> , 2010, 51, 4170-4174.	1.4	42
81	Tuning the Cavity of Cyclodextrins: Altered Sugar Adaptors in Protein Pores. <i>Journal of the American Chemical Society</i> , 2011, 133, 1987-2001.	13.7	42
82	Variable region heavy chain glycosylation determines the anticoagulant activity of a factor VIII antibody. <i>Journal of Thrombosis and Haemostasis</i> , 2006, 4, 1047-1055.	3.8	39
83	Remnant epitopes, autoimmunity and glycosylation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 610-615.	2.4	38
84	Isolation synthesis and glycosidase inhibition profile of 3-epi-casuarine. <i>Tetrahedron: Asymmetry</i> , 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. <i>Glycobiology</i> , 1999, 9, 443-458.	2.5	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 Cells. <i>Biochemistry</i> , 2000, 39, 1596-1603.	2.5	37
87	The isolation from <i>Nicandra physalodes</i> and identification of the 3-O- β -D-glucopyranoside of 1 β ,2 β ,3 β ,6 β -tetrahydroxy-nor-tropane (Calystegine B1). <i>Tetrahedron Letters</i> , 1996, 37, 3207-3208.	1.4	36
88	Modeling of the N-Glycosylated Transferrin Receptor Suggests How Transferrin Binding Can Occur within the Surface Coat of <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2012, 8, e1002618.	4.7	36
89	Solution NMR studies of colicin E1 C-terminal thermolytic peptide. Structural comparison with colicin A and the effects of pH changes. <i>FEBS Journal</i> , 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 <i>Enterobacter agglomerans</i> strain 221e. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 739-745.	1.8	35

#	ARTICLE	IF	CITATIONS
91	4-C-Me-DAB and 4-C-Me-LAB are enantiomeric alkyl-branched pyrrolidine iminosugars are specific and potent \pm -glucosidase inhibitors; acetone as the sole protecting group. <i>Tetrahedron Letters</i> , 2011, 52, 219-223.	1.4	35
92	Mimics of l-rhamnose: Analogues of rhamnopyranose containing a constituent \pm -amino acid at the anomeric position. A rhamnopyranose analogue of hydantocidin. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 391-394.	1.8	34
93	Synthesis of and NMR studies on the four diastereomeric 1-deoxy-d-ketohexoses. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 774-786.	1.8	33
94	Spirodiketopiperazines of mannofuranose: carbopeptoid \pm -amino acid esters at the anomeric position of mannofuranose. <i>Tetrahedron: Asymmetry</i> , 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. <i>Tetrahedron Letters</i> , 2007, 48, 4287-4291.	1.4	30
96	Nine of 16 Stereoisomeric Polyhydroxylated Proline Amides Are Potent \pm -N-Acetylhexosaminidase Inhibitors. <i>Journal of Organic Chemistry</i> , 2014, 79, 3398-3409.	3.2	30
97	Identification and description of \pm -structure in horse muscle acylphosphatase by nuclear magnetic resonance spectroscopy. <i>Journal of Molecular Biology</i> , 1989, 207, 405-415.	4.2	29
98	Spirocyclic peptides at the anomeric position of mannofuranose. <i>Tetrahedron Letters</i> , 1994, 35, 8889-8890.	1.4	29
99	<i>N</i> -Linked Glycan Structures of the Human Fc γ 3 Receptors Produced in NS0 Cells. <i>Journal of Proteome Research</i> , 2013, 12, 3721-3737.	3.7	28
100	A galactopyranose analogue of hydantocidin. <i>Tetrahedron: Asymmetry</i> , 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. <i>Tetrahedron: Asymmetry</i> , 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. <i>Tetrahedron Letters</i> , 2008, 49, 3316-3321.	1.4	27
103	Tri- and tetra-peptides incorporating an \pm -amino acid at the anomeric position of mannofuranose. <i>Tetrahedron Letters</i> , 1994, 35, 8885-8888.	1.4	26
104	Synthesis and Solution-Phase Conformation of the RG-I Fragment of the Plant Polysaccharide Pectin Reveals a Modification-Modulated Assembly Mechanism. <i>Journal of the American Chemical Society</i> , 2010, 132, 7238-7239.	13.7	26
105	O-Linked Glycosylation in Focus.. <i>Trends in Glycoscience and Glycotechnology</i> , 2000, 12, 35-49.	0.1	25
106	Sugar amino acids at the anomeric position of carbohydrates: synthesis of spirocyclic amino acids of 6-deoxy-l-xylofuranose. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 2276-2286.	1.8	25
107	Differential N-glycosylation of a monoclonal antibody expressed in tobacco leaves with and without endoplasmic reticulum retention signal apparently induces similar <i>in vivo</i> stability in mice. <i>Plant Biotechnology Journal</i> , 2011, 9, 1120-1130.	8.3	25
108	Soluble human TLR2 ectodomain binds diacylglycerol from microbial lipopeptides and glycolipids. <i>Innate Immunity</i> , 2015, 21, 175-193.	2.4	25

#	ARTICLE	IF	CITATIONS
109	Benefits of Simulations as Remote Exercises During the COVID-19 Pandemic: An Enzyme Kinetics Case Study. <i>Journal of Chemical Education</i> , 2020, 97, 2733-2737.	2.3	25
110	3-Fluoroazetidincarboxylic Acids and <i>trans,trans</i> -3,4-Difluoroproline as Peptide Scaffolds: Inhibition of Pancreatic Cancer Cell Growth by a Fluoroazetidine Iminosugar. <i>Journal of Organic Chemistry</i> , 2015, 80, 4244-4258.	3.2	24
111	A concise approach to the synthesis of all twelve 5-deoxyhexoses: d-tagatose-3-epimerase a reagent that is both specific and general. <i>Tetrahedron Letters</i> , 2009, 50, 3559-3563.	1.4	23
112	Synthesis of 1,5-dideoxy-3-O-(β -D-mannopyranosyl)-1,5-imino-D-mannitol and 1,5-dideoxy-3-O-(β -D-glucopyranosyl)-1,5-imino-D-mannitol: Powerful inhibitors of endomannosidase. <i>Tetrahedron: Asymmetry</i> , 1993, 4, 2011-2024.	1.8	22
113	Fluorescence labelling of carbohydrates with 2-aminobenzamide (2AB). <i>Tetrahedron: Asymmetry</i> , 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. <i>Journal of Molecular Biology</i> , 2009, 387, 335-347.	4.2	22
115	Green syntheses of new 2-C-methyl aldohexoses and 5-C-methyl ketohexoses: d-tagatose-3-epimerase (DTE) a promiscuous enzyme. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 1904-1918.	1.8	21
116	Synthesis from D-Altrose of (5 <i>R</i> ,6 <i>R</i> ,7 <i>R</i> ,8 <i>S</i>)-5,7-Dihydroxy-8-hydroxymethylconidine and 2,4-Dideoxy-2,4-imino-D-glucitol, Azetidine Analogues of Swainsonine and 1,4-Dideoxy-1,4-imino-D-mannitol. <i>Organic Letters</i> , 2012, 14, 4174-4177.	4.6	21
117	Cancer-Associated Glycoforms of Gelatinase B Exhibit a Decreased Level of Binding to Galectin-3. <i>Biochemistry</i> , 2006, 45, 15249-15258.	2.5	20
118	Circulating Truncated Alpha-1 Antitrypsin Glycoprotein in Patient Plasma Retains Anti-Inflammatory Capacity. <i>Journal of Immunology</i> , 2019, 202, 2240-2253.	0.8	20
119	Spirodiketopiperazines at the Anomeric position of Mannopyranose: Novel N-Linked Glycopeptides Incorporating an β -amino acid at the Anomeric Position of Mannopyranose. <i>Tetrahedron Letters</i> , 1995, 36, 8287-8290.	1.4	19
120	Fast sequencing of oligosaccharides using arrays of enzymes. <i>Nature</i> , 1992, 358, 693-694.	27.8	18
121	The systematic use of negative nuclear overhauser constraints in the determination of oligosaccharide conformations: application to sialyl-Lewis X. <i>Carbohydrate Research</i> , 1993, 246, 337-344.	2.3	18
122	Synthesis of fluorescence-labelled disaccharide substrates of glucosidase II. <i>Carbohydrate Research</i> , 2003, 338, 1937-1949.	2.3	18
123	Sialylation of urinary prothrombin fragment 1 is implicated as a contributory factor in the risk of calcium oxalate kidney stone formation. <i>FEBS Journal</i> , 2006, 273, 3024-3037.	4.7	18
124	Comprehensive N-Glycan Profiling of Avian Immunoglobulin Y. <i>PLoS ONE</i> , 2016, 11, e0159859.	2.5	18
125	Carbopeptoids: peptides and diketopiperazines incorporating the anomeric centre of mannopyranose. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 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. <i>Journal of Proteome Research</i> , 2013, 12, 3547-3560.	3.7	17

#	ARTICLE	IF	CITATIONS
127	A Review of Alpha-1 Antitrypsin Binding Partners for Immune Regulation and Potential Therapeutic Application. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2441.	4.1	17
128	At least two Fc Neu5Gc residues of monoclonal antibodies are required for binding to anti-Neu5Gc antibody. <i>Scientific Reports</i> , 2016, 6, 20029.	3.3	16
129	Full simulation of ROESY, including the Hartmann-Hahn effects. <i>Chemical Physics Letters</i> , 1990, 174, 313-319.	2.6	15
130	Eight Stereoisomers of Homonojirimycin from α -D-Mannose. <i>Organic Letters</i> , 2012, 14, 2050-2053.	4.6	15
131	Effect of Serine O-Glycosylation on Cis-Trans Proline Isomerization. <i>Biochemical and Biophysical Research Communications</i> , 1996, 219, 157-162.	2.1	13
132	Glycosylation and the Immune System. <i>Trends in Glycoscience and Glycotechnology</i> , 1999, 11, 1-21.	0.1	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. <i>FEBS Journal</i> , 2001, 268, 4063-4078.	0.2	12
134	Triacetone of Glucoheptonic Acid in the Scalable Syntheses of α -D-Gulose, 6-Deoxy- α -D-gulose, α -L-Glucose, 6-Deoxy- α -L-glucose, and Related Sugars. <i>Organic Letters</i> , 2016, 18, 4112-4115.	4.6	11
135	The Glycosylation of the Complement Regulatory Protein, Human Erythrocyte CD59. <i>Advances in Experimental Medicine and Biology</i> , 1998, 435, 153-162.	1.6	11
136	Mapping space by NMR using susceptibility changes at phase boundaries. <i>Journal of Inorganic Biochemistry</i> , 1986, 28, 381-391.	3.5	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 α -1,2-Glc linkage by NMR spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2241-2246.	2.8	9
138	α -L-Fucose from Vitamin C with Only Acetonide Protection. <i>Organic Letters</i> , 2014, 16, 5663-5665.	4.6	9
139	Carbohydrates and glycoconjugates. <i>Current Opinion in Structural Biology</i> , 2004, 14, 591-592.	5.7	8
140	6-Deoxyhexoses from α -D-Rhamnose in the Search for Inducers of the Rhamnose Operon: Synergy of Chemistry and Biotechnology. <i>Chemistry - A European Journal</i> , 2016, 22, 12557-12565.	3.3	8
141	Ataluren, a New Therapeutic for Alpha-1 Antitrypsin Deficient Individuals with Nonsense Mutations. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1099-1102.	5.6	8
142	Isolation from <i>Stevia rebaudiana</i> of DMDP acetic acid, a novel iminosugar amino acid: synthesis and glycosidase inhibition profile of glycine and β -alanine pyrrolidine amino acids. <i>Amino Acids</i> , 2019, 51, 991-998.	2.7	7
143	Theory of resonance in magnetically inhomogeneous specimens and some useful calculations. <i>Journal of Magnetic Resonance</i> , 1988, 77, 223-232.	0.5	6
144	The conformational effects of N-linked glycosylation. <i>Biochemical Society Transactions</i> , 1993, 21, 452-455.	3.4	6

#	ARTICLE	IF	CITATIONS
145	Roles for glycosylation in the anti-inflammatory molecule CD59. <i>Biochemical Society Transactions</i> , 1997, 25, 1177-1184.	3.4	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. <i>Tetrahedron Letters</i> , 2009, 50, 5088-5093.	1.4	6
147	Spirodiketopiperazines at the anomeric position of mannopyranose: Novel N-linked glycopeptides incorporating an l±-amino acid at the anomeric position of mannopyranose. <i>Tetrahedron Letters</i> , 1995, 36, 8287-8290.	1.4	5
148	New methods for measurement of long-range proton-carbon coupling constants in oligosaccharides. <i>Journal of Magnetic Resonance</i> , 1992, 97, 411-418.	0.5	4
149	1,2:3,4-Di-O-isopropylidene-β-D-psicofuranose. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2949-o2951.	0.2	4
150	3-Azidoazetidines as the first scaffolds for β-amino azetidine carboxylic acid peptidomimetics: azetidine iminosugars containing an acetamido group do not inhibit β-N-acetylhexosaminidases. <i>Tetrahedron: Asymmetry</i> , 2016, 27, 872-881.	1.8	4
151	d-Idose, d-Iduronic Acid, and d-Idonic Acid from d-Glucose via Seven-Carbon Sugars. <i>Molecules</i> , 2019, 24, 3758.	3.8	3
152	NMR studies of phase boundaries using magnetic susceptibility changes: Relaxation rates near phase boundaries. <i>Colloids and Surfaces</i> , 1989, 36, 179-191.	0.9	2
153	Following the spatial distribution of a solid dissolving at an interface by high-resolution nuclear magnetic resonance spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 1585.	1.7	2
154	1,2:3,4-Di-O-isopropylidene-β-D-tagatofuranose. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2891-o2893.	0.2	2
155	Hanessian-Hullar reaction in the synthesis of highly substituted trans-3,4-dihydropyrrolidines: Rhamnulose iminosugar mimics inhibit l±-glucosidase. <i>Tetrahedron</i> , 2020, 76, 130758.	1.9	2
156	Differential Glycosylation of Gelatinase B from Neutrophils and Breast Cancer Cells. <i>Advances in Experimental Medicine and Biology</i> , 2005, 564, 103-112.	1.6	1
157	3,7,7a-Tri-epi-casuarine pentaacetate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o928-o930.	0.2	1
158	2-Acetamido-N-benzyl-1,4-imino-1,2,4-trideoxy-L-ribitol. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o930-o932.	0.2	0
159	2-Acetamido-N-benzyl-1,4-imino-1,2,4-trideoxy-L-arabinitol 0.33-hydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o1683-o1685.	0.2	0
160	P19-03. Molecular mechanisms for enhancing the antigenicity of the carbohydrate epitope of the broadly neutralizing anti-HIV-1 antibody 2G12. <i>Retrovirology</i> , 2009, 6, .	2.0	0
161	P12-06. A 'non-self' mimic of the natural epitope of anti-HIV antibody 2G12 shows enhanced antigenicity. <i>Retrovirology</i> , 2009, 6, .	2.0	0
162	Controlled glycosylation of therapeutic antibodies in plants. <i>Archives of Biochemistry and Biophysics</i> , 2004, 426, 266-278.	3.0	0