Todd L. Lowary

List of Publications by Year
in descending order

282	9,000	47409 49	93651 72
papers	citations	h-index	g-index

325	325	325	7955
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. Nature Chemical Biology, 2022, 18, 81-90.	3.9	141
2	Tailor made: New insights into lipoarabinomannan structure may improve TB diagnosis. Journal of Biological Chemistry, 2022, 298, 101678.	1.6	3
3	One-Pot Regioselective Diacylation of Pyranoside 1,2-cis Diols. Journal of Organic Chemistry, 2022, 87, 4894-4907.	1.7	0
4	The biosynthetic origin of ribofuranose in bacterial polysaccharides. Nature Chemical Biology, 2022, 18, 530-537.	3.9	3
5	The Astounding World of Glycans from Giant Viruses. Chemical Reviews, 2022, 122, 15717-15766.	23.0	6
6	Glycosylation With Furanosides. , 2021, , 267-285.		5
7	4,6-Di-O-Benzylidenyl group-directed preparation of 2-deoxy-2-azido-Î±-d-galactopyranosides promoted by 3-O-TBDPS. Carbohydrate Research, 2021, 500, 108237.	1.1	0
8	Genetically encoded multivalent liquid glycan array displayed on M13 bacteriophage. Nature Chemical Biology, 2021, 17, 806-816.	3.9	33
9	Characterization of ABH-subtype donor-specific antibodies in ABO-A-incompatible kidney transplantation. American Journal of Transplantation, 2021, 21, 3649-3662.	2.6	16
10	Synthesis of a Tridecasaccharide Lipooligosaccharide Antigen from the Opportunistic Pathogen Mycobacterium kansasii. Angewandte Chemie, 2021, 133, 25063.	1.6	0
11	Synthesis of a Tridecasaccharide Lipooligosaccharide Antigen from the Opportunistic Pathogen Mycobacterium kansasii. Angewandte Chemie - International Edition, 2021, 60, 24859-24863.	7.2	6
12	Structureâ€“activity relationship of avocadyne. Food and Function, 2021, 12, 6323-6333.	2.1	5
13	Synthesis of structurally-defined polymeric glycosylated phosphoprenols as potential lipopolysaccharide biosynthetic probes. Chemical Science, 2021, 12, 12192-12200.	3.7	7
14	Use of Synthetic Glycolipids to Probe the Number and Position of Arabinan Chains on Mycobacterial Arabinogalactan. ACS Chemical Biology, 2021, 16, 20-26.	1.6	5
15	Monoclonal antibodies from humans with Mycobacterium tuberculosis exposure or latent infection recognize distinct arabinomannan epitopes. Communications Biology, 2021, 4, 1181.	2.0	12
16	Molecular ruler mechanism and interfacial catalysis of the integral membrane acyltransferase PatA. Science Advances, 2021, 7, eabj4565.	4.7	9
17	Synthesis of Rhamnolipid Derivatives Containing Ester Isosteres. Organic Letters, 2020, 22, 9633-9637.	2.4	4
18	Neoglycolipids as Glycosphingolipid Surrogates for Protein Binding Studies Using Nanodiscs and Native Mass Spectrometry. Analytical Chemistry, 2020, 92, 14189-14196.	3.2	3

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19	Synthesis of a Highly Branched Nonasaccharide Chlorella Virus N-Glycan Using a â€œCounterclockwiseâ€•Assembly Approach. Organic Letters, 2020, 22, 7645-7649.	2.4	9
20	A Very Short History of the Carbohydrate Division of the American Chemical Society. Journal of Organic Chemistry, 2020, 85, 15778-15779.	1.7	1
21	A New Era of Discovery in Carbohydrate Chemistry. Journal of Organic Chemistry, 2020, 85, 15770-15772.	1.7	1
22	A Siloxane-Bridged Glycosyl Donor Enables Highly Stereoselective Î²-Xylulofuranosylation. Journal of Organic Chemistry, 2020, 85, 15895-15907.	1.7	7
23	Cryo-EM Structures and Regulation of Arabinofuranosyltransferase AftD from Mycobacteria. Molecular Cell, 2020, 78, 683-699.e11.	4.5	27
24	A bifunctional O-antigen polymerase structure reveals a new glycosyltransferase family. Nature Chemical Biology, 2020, 16, 450-457.	3.9	26
25	Cryo-EM structure of arabinosyltransferase EmbB from Mycobacterium smegmatis. Nature Communications, 2020, 11, 3396.	5.8	14
26	Î²-Selective xylulofuranosylation via a conformationally-restricted glycosyl donor. Organic and Biomolecular Chemistry, 2020, 18, 2264-2273.	1.5	6
27	The endogenous galactofuranosidase GlfH1 hydrolyzes mycobacterial arabinogalactan. Journal of Biological Chemistry, 2020, 295, 5110-5123.	1.6	14
28	Chlorovirus PBCV-1 protein A064R has three of the transferase activities necessary to synthesize its capsid protein N-linked glycans. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28735-28742.	3.3	12
29	Capsular glycan recognition provides antibody-mediated immunity against tuberculosis. Journal of Clinical Investigation, 2020, 130, 1808-1822.	3.9	38
30	Diagnostic accuracy of 3 urine lipoarabinomannan tuberculosis assays in HIV-negative outpatients. Journal of Clinical Investigation, 2020, 130, 5756-5764.	3.9	53
31	De NovoAsymmetric Synthesis of Avocadyne, Avocadene, and Avocadane Stereoisomers. Journal of Organic Chemistry, 2019, 84, 15718-15725.	1.7	10
32	New insights into lipopolysaccharide assembly and export. Current Opinion in Chemical Biology, 2019, 53, 37-43.	2.8	18
33	High-Throughput â€œFP-Tagâ€•Assay for the Identification of Glycosyltransferase Inhibitors. Journal of the American Chemical Society, 2019, 141, 2201-2204.	6.6	21
34	A Route to Polyprenol Pyrophosphate-Based Probes of O-Polysaccharide Biosynthesis in Klebsiella pneumoniae O2a. Organic Letters, 2019, 21, 1050-1053.	2.4	4
35	Novel lipoarabinomannan point-of-care tuberculosis test for people with HIV: a diagnostic accuracy study. Lancet Infectious Diseases, The, 2019, 19, 852-861.	4.6	159
36	Klebsiella pneumoniae O1 and O2ac antigens provide prototypes for an unusual strategy for polysaccharide antigen diversification. Journal of Biological Chemistry, 2019, 294, 10863-10876.	1.6	20

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37	Disruption of the SucT acyltransferase in Mycobacterium smegmatis abrogates succinylation of cell envelope polysaccharides. Journal of Biological Chemistry, 2019, 294, 10325-10335.	1.6	19
38	Sensitive electrochemiluminescence (ECL) immunoassays for detecting lipoarabinomannan (LAM) and ESAT-6 in urine and serum from tuberculosis patients. PLoS ONE, 2019, 14, e0215443.	1.1	51
39	Biosynthesis of a conserved glycolipid anchor for Gram-negative bacterial capsules. Nature Chemical Biology, 2019, 15, 632-640.	3.9	31
40	The N-glycan structures of the antigenic variants of chlorovirus PBCV-1 major capsid protein help to identify the virus-encoded glycosyltransferases. Journal of Biological Chemistry, 2019, 294, 5688-5699.	1.6	15
41	Cloning and Partial Characterization of an Endo-Î±-(1â†'6)-d-Mannanase Gene from Bacillus circulans. International Journal of Molecular Sciences, 2019, 20, 6244.	1.8	7
42	A Convergent Route to Enantiomers of the Bicyclic Monosaccharide Bradyrhizose Leads to Insight into the Bioactivity of an Immunologically Silent Lipopolysaccharide. Journal of Organic Chemistry, 2019, 84, 14-41.	1.7	14
43	Synthetic polyprenol-pyrophosphate linked oligosaccharides are efficient substrates for mycobacterial galactan biosynthetic enzymes. Organic and Biomolecular Chemistry, 2018, 16, 1939-1957.	1.5	7
44	Characterization of the Antigenic Heterogeneity of Lipoarabinomannan, the Major Surface Glycolipid of Mycobacterium tuberculosis, and Complexity of Antibody Specificities toward This Antigen. Journal of Immunology, 2018, 200, 3053-3066.	0.4	58
45	Genetically-encoded fragment-based discovery (GE-FBD) of glycopeptide ligands with differential selectivity for antibodies related to mycobacterial infections. Organic and Biomolecular Chemistry, 2018, 16, 223-227.	1.5	14
46	Molecular basis for the structural diversity in serogroup O2-antigen polysaccharides in Klebsiella pneumoniae. Journal of Biological Chemistry, 2018, 293, 4666-4679.	1.6	42
47	1-C-phosphonomethyl- and 1-C-difluorophosphonomethyl-1,4-imino-l-arabinitols as Galf transferase inhibitors: A comparison. Carbohydrate Research, 2018, 461, 45-50.	1.1	12
48	Stereocontrolled Synthesis of 2-Deoxy-galactopyranosides via Isopropylidene-Protected 6-O-Silylated Donors. Organic Letters, 2018, 20, 2287-2290.	2.4	13
49	Construction of Multivalent Homo- and Heterofunctional ABO Blood Group Glycoconjugates Using a Trifunctional Linker Strategy. Bioconjugate Chemistry, 2018, 29, 343-362.	1.8	16
50	The LPG1x family from Leishmania major is constituted of rare eukaryotic galactofuranosyltransferases with unprecedented catalytic properties. Scientific Reports, 2018, 8, 17566.	1.6	4
51	A Novel Sensitive Immunoassay Targeting the 5-Methylthio- <scp>d</scp> -Xylofuranoseâ€"Lipoarabinomannan Epitope Meets the WHO's Performance Target for Tuberculosis Diagnosis. Journal of Clinical Microbiology, 2018, 56, .	1.8	95
52	Synthesis of the Highly Branched Hexasaccharide Core of Chlorella Virus Nâ€Linked Glycans. Chemistry - A European Journal, 2018, 24, 16992-16996.	1.7	15
53	Synthesis of the Campylobacter jejuni 81â€176 Strain Capsular Polysaccharide Repeating Unit Reveals the Absolute Configuration of its Oâ€Methyl Phosphoramidate Motif. Angewandte Chemie - International Edition, 2018, 57, 15592-15596.	7.2	28
54	Synthesis of the Campylobacter jejuni 81 â€•176 Strain Capsular Polysaccharide Repeating Unit Reveals the Absolute Configuration of its O â€Methyl Phosphoramidate Motif. Angewandte Chemie, 2018, 130, 15818-15822.	1.6	7

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55	The singular Corynebacterium glutamicum Emb arabinofuranosyltransferase polymerises the Î±(1â€²â†'â€²5) arabinan backbone in the early stages of cell wall arabinan biosynthesis. Cell Surface, 2018, 2, 38-53.	1.5	8
56	Detection of lipoarabinomannan in urine and serum of HIV-positive and HIV-negative TB suspects using an improved capture-enzyme linked immuno absorbent assay and gas chromatography/mass spectrometry. Tuberculosis, 2018, 111, 178-187.	0.8	48
57	Stereocontrolled Synthesis of Î±-Xylofuranosides Using a Conformationally Restricted Donor. Journal of Organic Chemistry, 2018, 83, 7659-7671.	1.7	20
58	Single polysaccharide assembly protein that integrates polymerization, termination, and chain-length quality control. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1215-E1223.	3.3	31
59	Biosynthesis of the Methylthioxylose Capping Motif of Lipoarabinomannan in Mycobacterium tuberculosis. ACS Chemical Biology, 2017, 12, 682-691.	1.6	23
60	Triazoleâ€Linked Iminosugars and Aromatic Systems as Simplified UDPâ€Galf Mimics: Synthesis and Preliminary Evaluation as Galfâ€Transferase Inhibitors. European Journal of Organic Chemistry, 2017, 2017, 6192-6201.	1.2	12
61	Insights into Interactions of Mycobacteria with the Host Innate Immune System from a Novel Array of Synthetic Mycobacterial Glycans. ACS Chemical Biology, 2017, 12, 2990-3002.	1.6	66
62	Epitope mapping of histo blood group antigens bound to norovirus VLPs using STD NMR experiments reveals fine details of molecular recognition. Glycoconjugate Journal, 2017, 34, 679-689.	1.4	18
63	Enhanced control of Mycobacterium tuberculosis extrapulmonary dissemination in mice by an arabinomannan-protein conjugate vaccine. PLoS Pathogens, 2017, 13, e1006250.	2.1	74
64	Synthesis and Evaluation of Bicyclo[3.1.0]hexane-Based UDP-Galf Analogues as Inhibitors of the Mycobacterial Galactofuranosyltransferase GlfT2. Molecules, 2016, 21, 1053.	1.7	4
65	ABH-Glycan Microarray Characterizes ABO Subtype Antibodies: Fine Specificity of Immune Tolerance After ABO-Incompatible Transplantation. American Journal of Transplantation, 2016, 16, 1548-1558.	2.6	36
66	Structure and Stability of Carbohydrateâ€"Lipid Interactions. Methylmannose Polysaccharideâ€"Fatty Acid Complexes. ChemBioChem, 2016, 17, 1571-1578.	1.3	5
67	Galactofuranose in <scp>M</scp>ycoplasma mycoides is important for membrane integrity and conceals adhesins but does not contribute to serum resistance. Molecular Microbiology, 2016, 99, 55-70.	1.2	34
68	Bacterial Î²-Kdo glycosyltransferases represent a new glycosyltransferase family (GT99). Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3120-9.	3.3	43
69	Association of Human Antibodies to Arabinomannan With Enhanced Mycobacterial Opsonophagocytosis and Intracellular Growth Reduction. Journal of Infectious Diseases, 2016, 214, 300-310.	1.9	110
70	Identification of a Novel Mycobacterial Arabinosyltransferase Activity Which Adds an Arabinosyl Residue to Î±-<scp>d</scp>-Mannosyl Residues. ACS Chemical Biology, 2016, 11, 1518-1524.	1.6	12
71	Chemical Insight into the Mechanism and Specificity of GlfT2, a Bifunctional Galactofuranosyltransferase from Mycobacteria. Journal of Organic Chemistry, 2016, 81, 8123-8130.	1.7	18
72	Biochemical Characterization of Bifunctional 3-Deoxy-Î²-d-manno-oct-2-ulosonic Acid (Î²-Kdo) Transferase KpsC from Escherichia coli Involved in Capsule Biosynthesis. Journal of Biological Chemistry, 2016, 291, 21519-21530.	1.6	22

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73	Synthesis of Unprecedented Sulfonylated Phosphonoâ€exoâ€Glycals Designed as Inhibitors of the Three Mycobacterial Galactofuranose Processing Enzymes. Chemistry - A European Journal, 2016, 22, 15913-15920.	1.7	22
74	Lcp1 Is a Phosphotransferase Responsible for Ligating Arabinogalactan to Peptidoglycan in Mycobacterium tuberculosis. MBio, 2016, 7, .	1.8	42
75	Synthesis of a homologous series of galactofuranose-containing mycobacterial arabinogalactan fragments. Canadian Journal of Chemistry, 2016, 94, 976-988.	0.6	7
76	Twenty Years of Mycobacterial Glycans: Furanosides and Beyond. Accounts of Chemical Research, 2016, 49, 1379-1388.	7.6	56
77	An Oxidationâ€“Amidation Approach for the Synthesis of Glycuronamides. European Journal of Organic Chemistry, 2016, 2016, 2653-2664.	1.2	0
78	De Novo Asymmetric Synthesis of a 6-O-Methyl-<scp>d</scp>-glycero-<scp>l</scp>-gluco-heptopyranose-Derived Thioglycoside for the Preparation of Campylobacter jejuni NCTC11168 Capsular Polysaccharide Fragments. Journal of Organic Chemistry, 2016, 81, 3058-3063.	1.7	9
79	Conjugation of A and B Blood Group Structures to Silica Microparticles for the Detection of Antigen-Specific B Cells. Bioconjugate Chemistry, 2016, 27, 705-715.	1.8	9
80	Chemical Basis for Qualitative and Quantitative Differences Between ABO Blood Groups and Subgroups: Implications for Organ Transplantation. American Journal of Transplantation, 2015, 15, 2602-2615.	2.6	34
81	Tulane Virus Recognizes the A Type 3 and B Histo-Blood Group Antigens. Journal of Virology, 2015, 89, 1419-1427.	1.5	43
82	DC-SIGN+ Macrophages Control the Induction of Transplantation Tolerance. Immunity, 2015, 42, 1143-1158.	6.6	144
83	Specificity of Furanosideâ€“Protein Recognition through Antibody Engineering and Molecular Modeling. Chemistry - A European Journal, 2015, 21, 1138-1148.	1.7	9
84	Synthesis of Unusual N-Acylated Aminosugar Fragments of Mycobacterium marinum Lipooligosaccharide IV. Journal of Organic Chemistry, 2015, 80, 2767-2780.	1.7	16
85	Domain Interactions Control Complex Formation and Polymerase Specificity in the Biosynthesis of the Escherichia coli O9a Antigen. Journal of Biological Chemistry, 2015, 290, 1075-1085.	1.6	19
86	Effect of phenolic glycolipids from Mycobacterium kansasii on proinflammatory cytokine release. A structureâ€“activity relationship study. Chemical Science, 2015, 6, 3161-3172.	3.7	18
87	Lipooligosaccharides from Mycobacteria: Structure, Function, and Synthesis. Israel Journal of Chemistry, 2015, 55, 360-372.	1.0	20
88	Development of an Orthogonal Protection Strategy for the Synthesis of Mycobacterial Arabinomannan Fragments. Journal of Organic Chemistry, 2015, 80, 11417-11434.	1.7	28
89	High Resolution Structures of the Human ABO(H) Blood Group Enzymes in Complex with Donor Analogs Reveal That the Enzymes Utilize Multiple Donor Conformations to Bind Substrates in a Stepwise Manner. Journal of Biological Chemistry, 2015, 290, 27040-27052.	1.6	18
90	Absolute Configuration and Conformation of Two FrÃ¡terâ€“Seebach Alkylation Reaction Products by Film VCD and ECD Spectroscopic Analyses. Journal of Organic Chemistry, 2015, 80, 428-437.	1.7	16

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91	Biological Roles of the O-Methyl Phosphoramidate Capsule Modification in Campylobacter jejuni. PLoS ONE, 2014, 9, e87051.	1.1	48
92	Mycobacteriophage cell binding proteins for the capture of mycobacteria. Bacteriophage, 2014, 4, e960346.	1.9	10
93	Specificity of a UDPâ€GalNAc Pyranoseâ€“Furanose Mutase: A Potential Therapeutic Target for Campylobacter jejuni Infections. ChemBioChem, 2014, 15, 47-56.	1.3	14
94	Inhibition of Cytokine Release by Mycobacterium tuberculosis Phenolic Glycolipid Analogues. ChemBioChem, 2014, 15, 1176-1182.	1.3	25
95	Synthesis of Carbohydrate Methyl Phosphoramidates. Organic Letters, 2014, 16, 2518-2521.	2.4	28
96	Water-soluble photoluminescent <scp>d</scp>-mannose and <scp>l</scp>-alanine functionalized silicon nanocrystals and their application to cancer cell imaging. Journal of Materials Chemistry B, 2014, 2, 8427-8433.	2.9	37
97	Sulfonium ions as inhibitors of the mycobacterial galactofuranosyltransferase GlfT2. MedChemComm, 2014, 5, 1130-1137.	3.5	7
98	The Three Mycobacterium tuberculosis Antigen 85 Isoforms Have Unique Substrates and Activities Determined by Non-active Site Regions. Journal of Biological Chemistry, 2014, 289, 25041-25053.	1.6	52
99	Synthesis of Nitrogen-Containing Furanose Sugar Nucleotides for Use as Enzymatic Probes. Organic Letters, 2014, 16, 212-215.	2.4	13
100	Oligosaccharides and Peptide Displayed on an Amphiphilic Polymer Enable Solid Phase Assay of Hapten Specific Antibodies. Bioconjugate Chemistry, 2014, 25, 685-697.	1.8	14
101	Amphiphilic Cytosolic Glycans from Mycobacteria: Occurrence, Lipidâ€Binding Properties, Biosynthesis, and Synthesis. Biopolymers, 2013, 99, 697-712.	1.2	6
102	Mycobacterial Phenolic Glycolipids with a Simplified Lipid Aglycone Modulate Cytokine Levels through Tollâ€Like Receptor 2. ChemBioChem, 2013, 14, 2153-2159.	1.3	27
103	Context and complexity: The next big thing in synthetic glycobiology. Current Opinion in Chemical Biology, 2013, 17, 990-996.	2.8	25
104	Comparison between DFT- and NMR-based conformational analysis of methyl galactofuranosides. Carbohydrate Research, 2013, 374, 103-114.	1.1	26
105	Regioselective Polymethylation of Î±-(1 â†' 4)-Linked Mannopyranose Oligosaccharides. Journal of Organic Chemistry, 2013, 78, 2863-2880.	1.7	15
106	Glycosylations with 2,3-aziridinofuranose derivatives. Tetrahedron, 2013, 69, 4276-4284.	1.0	3
107	Conformational Analysis of Furanoside-Containing Mono- and Oligosaccharides. Chemical Reviews, 2013, 113, 1851-1876.	23.0	117
108	Synthesis of the Toleranceâ€Inducing Oligosaccharide Lactoâ€Nâ€Fucopentaoseâ€…III Bearing an Activated Linker. ChemistryOpen, 2013, 2, 156-163.	0.9	4

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109	Conserved glycolipid termini in capsular polysaccharides synthesized by ATP-binding cassette transporter-dependent pathways in Gram-negative pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7868-7873.	3.3	89
110	Synthesis of trisaccharides incorporating the Î±-Gal antigen functionalized for neoglycoconjugate preparation. Arkivoc, 2013, 2013, 112-122.	0.3	1
111	Biosynthesis of the Polymannose Lipopolysaccharide O-antigens from Escherichia coli Serotypes O8 and O9a Requires a Unique Combination of Single- and Multiple-active Site Mannosyltransferases. Journal of Biological Chemistry, 2012, 287, 35078-35091.	1.6	41
112	Tetrameric Structure of the GlfT2 Galactofuranosyltransferase Reveals a Scaffold for the Assembly of Mycobacterial Arabinogalactan. Journal of Biological Chemistry, 2012, 287, 28132-28143.	1.6	53
113	Domain Organization of the Polymerizing Mannosyltransferases Involved in Synthesis of the Escherichia coli O8 and O9a Lipopolysaccharide O-antigens. Journal of Biological Chemistry, 2012, 287, 38135-38149.	1.6	32
114	The Galactosamine Residue in Mycobacterial Arabinogalactan Is Î±-Linked. Journal of Organic Chemistry, 2012, 77, 9826-9832.	1.7	19
115	Carbohydrateâ€“Lipid Interactions: Affinities of Methylmannose Polysaccharides for Lipids in Aqueous Solution. Chemistry - A European Journal, 2012, 18, 12059-12067.	1.7	14
116	Studies on the substrate specificity of a GDP-mannose pyrophosphorylase from Salmonella enterica. Beilstein Journal of Organic Chemistry, 2012, 8, 1219-1226.	1.3	20
117	Revisiting the Specificity of an Î±-(1â†’4)-Mannosyltransferase Involved in Mycobacterial Methylmannose Polysaccharide Biosynthesis. ChemBioChem, 2012, 13, 1139-1151.	1.3	9
118	Synthetic UDP-galactofuranose analogs reveal critical enzymeâ€“substrate interactions in GlfT2-catalyzed mycobacterial galactan assembly. Organic and Biomolecular Chemistry, 2012, 10, 4074.	1.5	23
119	A Bispecific Antibody Based Assay Shows Potential for Detecting Tuberculosis in Resource Constrained Laboratory Settings. PLoS ONE, 2012, 7, e32340.	1.1	24
120	Synthesis of the 6-O-Methyl-d-glycero-Î±-l-gluco-heptopyranose Moiety Present in the Capsular Polysaccharide fromCampylobacter jejuniNCTC 11168. Organic Letters, 2011, 13, 5290-5293.	2.4	10
121	Biocompatible Carbohydrate-Functionalized Stainless Steel Surfaces: A New Method For Passivating Biomedical Implants. ACS Applied Materials & Interfaces, 2011, 3, 1601-1612.	4.0	52
122	Theoretical Investigations on the Conformation of the Î²-<scp>d</scp>-Arabinofuranoside Ring. Journal of Chemical Theory and Computation, 2011, 7, 420-432.	2.3	22
123	Conformational Analysis of Oligoarabinofuranosides: Overcoming Torsional Barriers with Umbrella Sampling. Journal of Chemical Theory and Computation, 2011, 7, 2989-3000.	2.3	21
124	The Overall Architecture and Receptor Binding of Pneumococcal Carbohydrate-Antigen-Hydrolyzing Enzymes. Journal of Molecular Biology, 2011, 411, 1017-1036.	2.0	24
125	Synthesis and NMR spectroscopic analysis of acylated pentasaccharide fragments of mycobacterial arabinogalactan. Organic and Biomolecular Chemistry, 2011, 9, 165-176.	1.5	17
126	Probing the acceptor substrate binding site of Trypanosoma cruzi trans-sialidase with systematically modified substrates and glycoside libraries. Organic and Biomolecular Chemistry, 2011, 9, 1653.	1.5	31

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127	Chemical Synthesis of Furanose Glycosides. Trends in Glycoscience and Glycotechnology, 2011, 23, 134-152.	0.0	52
128	Reprint of â€œEffect of carbohydrate amino group modifications on the cytotoxicity of glycosylated 2-phenyl-benzo[b]thiophenes and 2-phenyl-benzo[b]furansâ€•[Bioorg. Med. Chem. Lett. 21 (2011) 2591â€“2596]. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5107-5112.	1.0	3
129	Synthesis and NMR studies on the ABO histo-blood group antigens: synthesis of type III and IV structures and NMR characterization of type Iâ€“VI antigens. Carbohydrate Research, 2011, 346, 1406-1426.	1.1	27
130	Carbasugar Analogues of Galactofuranosides: Pseudodisaccharide Mimics of Fragments of Mycobacterial ArabinoÂgalactan. European Journal of Organic Chemistry, 2011, 2011, 1367-1375.	1.2	17
131	Cytotoxicity and topoisomerase I/II inhibition of glycosylated 2-phenyl-indoles, 2-phenyl-benzo[b]thiophenes and 2-phenyl-benzo[b]furans. Bioorganic and Medicinal Chemistry, 2011, 19, 603-612.	1.4	45
132	Synthesis of sugarâ€“amino acidâ€“nucleosides as potential glycosyltransferase inhibitors. Bioorganic and Medicinal Chemistry, 2011, 19, 58-66.	1.4	27
133	Structureâ€“activity relationships in glycosylated 2-phenyl-indoles, 2-phenyl-benzo[b]thiophenes and 2-phenyl-benzo[b]furans as DNA binding and potential antitumor agents. Bioorganic and Medicinal Chemistry, 2011, 19, 1779-1789.	1.4	11
134	Reprint of â€œEffect of carbohydrate amino group modifications on the cytotoxicity of glycosylated 2-phenyl-benzo[b]thiophenes and 2-phenyl-benzo[b]furansâ€•[Bioorg. Med. Chem. Lett. 21 (2011) 2591â€“2596]. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2591-2596.	1.0	2
135	In Vitro Reconstruction of the Chain Termination Reaction in Biosynthesis of the Escherichia coli O9a O-Polysaccharide. Journal of Biological Chemistry, 2011, 286, 41391-41401.	1.6	36
136	Synthesis and antibacterial activity of aminosugar-functionalized intercalating agents. Carbohydrate Research, 2010, 345, 10-22.	1.1	10
137	Foreword. Carbohydrate Research, 2010, 345, 1251.	1.1	0
138	Synthesis of ABO histo-blood group type I and II antigens. Carbohydrate Research, 2010, 345, 2305-2322.	1.1	33
139	Determination of the absolute configurations of synthetic daunorubicin analogues using vibrational circular dichroism spectroscopy and density functional theory. Chirality, 2010, 22, 734-743.	1.3	13
140	Synthetic UDP-Furanoses as Potent Inhibitors of Mycobacterial Galactan Biogenesis. Chemistry and Biology, 2010, 17, 1356-1366.	6.2	46
141	STD-NMR studies of two acceptor substrates of GlfT2, a galactofuranosyltransferase from Mycobacterium tuberculosis: Epitope mapping studies. Bioorganic and Medicinal Chemistry, 2010, 18, 5123-5128.	1.4	18
142	Methods to Study the Biosynthesis of Bacterial Furanosides. Methods in Enzymology, 2010, 478, 389-411.	0.4	19
143	Characterization of a Bifunctional Pyranose-Furanose Mutase from Campylobacter jejuni 11168. Journal of Biological Chemistry, 2010, 285, 493-501.	1.6	30
144	Î²-Selective Arabinofuranosylation Using a 2,3-O-Xylylene-Protected Donor. Organic Letters, 2010, 12, 3686-3689.	2.4	60

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145	Conformational Analysis of Arabinofuranosides: Prediction of ³J_{H,H} Using MD Simulations with DFT-Derived Spinâ"Spin Coupling Profiles. Journal of Chemical Theory and Computation, 2010, 6, 212-222.	2.3	25
146	Characterization of recombinant UDP-galactopyranose mutase from Aspergillus fumigatus. Archives of Biochemistry and Biophysics, 2010, 502, 31-38.	1.4	46
147	Determination of the absolute configurations of bicyclo[3.1.0]hexane derivatives via electronic circular dichroism, optical rotation dispersion and vibrational circular dichroism spectroscopy and density functional theory calculations. Organic and Biomolecular Chemistry, 2010, 8, 3777.	1.5	20
148	Epimeric and amino disaccharide analogs as probes of an Î±-(1â†'6)-mannosyltransferase involved in mycobacterial lipoarabinomannanbiosynthesis. Organic and Biomolecular Chemistry, 2010, 8, 181-192.	1.5	13
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