Paul Kosma

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/163836/publications.pdf

Version: 2024-02-01

229	7,536	50276	76900
papers	citations	46 h-index	74 g-index

244	244	244	6792
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Sedoheptulose Kinase CARKL Directs Macrophage Polarization through Control of Glucose Metabolism. Cell Metabolism, 2012, 15, 813-826.	16.2	493
2	The chemistry of side reactions and byproduct formation in the system NMMO/cellulose (Lyocell) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	24.7	431
3	Biosynthesis Pathway of ADP-l-glycero-Î²-d-manno-Heptose in Escherichia coli. Journal of Bacteriology, 2002, 184, 363-369.	2.2	177
4	A Novel Method for the Determination of Carbonyl Groups in Cellulosics by Fluorescence Labeling. 1. Method Development. Biomacromolecules, 2002, 3, 959-968.	5.4	163
5	Cellulose solutions in N-methylmorpholine-N-oxide (NMMO) â€“ degradation processes and stabilizers. Cellulose, 2002, 9, 283-291.	4.9	163
6	ALPK1- and TIFA-Dependent Innate Immune Response Triggered by the Helicobacter pylori Type IV Secretion System. Cell Reports, 2017, 20, 2384-2395.	6.4	139
7	A Novel Method for the Determination of Carbonyl Groups in Cellulosics by Fluorescence Labeling. 2. Validation and Applications. Biomacromolecules, 2002, 3, 969-975.	5.4	136
8	Title is missing!. Cellulose, 2002, 9, 41-53.	4.9	128
9	A Novel Method for the Determination of Carbonyl Groups in Cellulosics by Fluorescence Labeling. 3. Monitoring Oxidative Processes. Biomacromolecules, 2003, 4, 743-749.	5.4	127
10	Comparison testing of methods for gel permeation chromatography of cellulose: coming closer to a standard protocol. Cellulose, 2015, 22, 1591-1613.	4.9	112
11	ADP heptose, a novel pathogenâ€associated molecular pattern identified in Helicobacter pylori. FASEB Journal, 2019, 33, 9087-9099.	0.5	110
12	Germline antibody recognition of distinct carbohydrate epitopes. Nature Structural and Molecular Biology, 2003, 10, 1019-1025.	8.2	107
13	Structure, serological specificity, and synthesis of artificial glycoconjugates representing the genus-specific lipopolysaccharide epitope of Chlamydia spp. Journal of Bacteriology, 1991, 173, 1862-1866.	2.2	106
14	Degradation of cellulosic materials by heating in DMAc/LiCl. Tetrahedron Letters, 2002, 43, 7757-7759.	1.4	99
15	Structural and Functional Analyses of the Secondary Cell Wall Polymer of Bacillus sphaericus CCM 2177 That Serves as an S-Layer-Specific Anchor. Journal of Bacteriology, 1999, 181, 7643-7646.	2.2	97
16	Biosynthesis of Nucleotide-activatedd-glycero-d-manno-Heptose. Journal of Biological Chemistry, 2001, 276, 20935-20944.	3.4	94
17	The FDAM Method:Â Determination of Carboxyl Profiles in Cellulosic Materials by Combining Group-Selective Fluorescence Labeling with GPC. Biomacromolecules, 2006, 7, 1743-1750.	5.4	94
18	Studies on oxidative modifications of cellulose in the periodate system: Molecular weight distribution and carbonyl group profiles. Holzforschung, 2007, 61, 662-667.	1.9	93

#	Article	IF	Citations
19	Biosynthesis of dTDP-3-acetamido-3,6-dideoxy-Î±-D-galactose in Aneurinibacillus thermoaerophilus L420-91T. Journal of Biological Chemistry, 2003, 278, 26410-26417.	3.4	79
20	Artificial antigens. Synthesis of polyacrylamide copolymers containing 3-deoxy-d-manno-2-octulopyranosylonic acid (KDO) residues. Carbohydrate Research, 1987, 167, 39-54.	2.3	76
21	Genome Analysis and Characterisation of the Exopolysaccharide Produced by Bifidobacterium longum subsp. longum 35624â„¢. PLoS ONE, 2016, 11, e0162983.	2.5	76
22	Identification of Two GDP-6-deoxy-d-lyxo-4-hexulose Reductases Synthesizing GDP-d-rhamnose in Aneurinibacillus thermoaerophilus L420-91T. Journal of Biological Chemistry, 2001, 276, 5577-5583.	3.4	71
23	On the conformation of the cellulose solvent N-methylmorpholine-N-oxide (NMMO) in solution. Polymer, 2003, 44, 6153-6158.	3.8	71
24	Classification of isolates from locations in Austria and Yellowstone National Park as Geobacillus tepidamans sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 2361-2368.	1.7	66
25	On the Nature of Carbonyl Groups in Cellulosic Pulps. Cellulose, 2005, 12, 43-50.	4.9	66
26	A nuclear magnetic resonance spectroscopic investigation of Kdo-containing oligosaccharides related to the genus-specific epitope of chlamydia lipopolysaccharides. Carbohydrate Research, 1992, 229, 213-224.	2.3	64
27	Hydrolytic processes and condensation reactions in the cellulose solvent system N,N-dimethylacetamide/lithium chloride. Part 2: degradation of cellulose. Polymer, 2003, 44, 7-17.	3.8	62
28	Isolation and identification of residual chromophores in cellulosic materials. Polymer, 2004, 45, 6437-6443.	3.8	62
29	Burkholderia cenocepacia BC2L-C Is a Super Lectin with Dual Specificity and Proinflammatory Activity. PLoS Pathogens, 2011, 7, e1002238.	4.7	61
30	Mapping the Binding of Synthetic Disaccharides Representing Epitopes of Chlamydial Lipopolysaccharide to Antibodies with NMR. Biochemistry, 2000, 39, 12778-12788.	2.5	60
31	Theoretical Foundation for the Presence of Oxacarbenium Ions in Chemical Glycoside Synthesis. Journal of Organic Chemistry, 2014, 79, 7889-7894.	3.2	60
32	Characterization of murine monoclonal and murine, rabbit, and human polyclonal antibodies against chlamydial lipopolysaccharide. Infection and Immunity, 1990, 58, 205-213.	2.2	60
33	Determination of the epitope specificity of monoclonal antibodies against the inner core region of bacterial lipopolysaccharides by use of 3-deoxy-d-manno-octulosonate-containing synthetic antigens. Carbohydrate Research, 1989, 193, 257-270.	2.3	59
34	Efficient chemical synthesis of both anomers of ADP l-glycero- and d-glycero-d-manno-heptopyranose. Carbohydrate Research, 2003, 338, 2571-2589.	2.3	59
35	A General, Selective, High-Yield N-Demethylation Procedure for Tertiary Amines by Solid Reagents in a Convenient Column Chromatography-like Setup. Organic Letters, 2004, 6, 541-544.	4.6	59
36	O-Methylated glycans from Toxocara are specific targets for antibody binding in human and animal infections. International Journal for Parasitology, 2007, 37, 97-109.	3.1	59

#	Article	IF	Citations
37	Synthesis of glycyrrhetinic acid derivatives for the treatment of metabolic diseases. Bioorganic and Medicinal Chemistry, 2010, 18, 433-454.	3.0	58
38	Autocatalytic Decomposition ofN-MethylmorpholineN-Oxide Induced by Mannich Intermediates. Journal of Organic Chemistry, 1999, 64, 2166-2167.	3.2	57
39	Occurrence, Synthesis and Biosynthesis of Bacterial Heptoses. Current Organic Chemistry, 2008, 12, 1021-1039.	1.6	57
40	Efficient Chemical Synthesis of the Two Anomers of ADP-L-glycero-andD-glycero-D-manno-Heptopyranose Allows the Determination of the Substrate Specificities of Bacterial Heptosyltransferases. Angewandte Chemie - International Edition, 2000, 39, 4150-4153.	13.8	56
41	Discoloration of cellulose solutions in N-methylmorpholine-N-oxide (Lyocell). Part 2: Isolation and identification of chromophores. Cellulose, 2005, 12, 197-208.	4.9	56
42	Synthesis of a trisaccharide of 3-deoxy-d-manno-2-octulopyranosylonic acid (KDO) residues related to the genus-specific lipopolysaccharide epitope of chlamydia. Carbohydrate Research, 1988, 183, 183-199.	2.3	55
43	van der Waals versus Hydrogen-Bonding Forces in a Crystalline Analog of Cellotetraose: Cyclohexyl 4â€²-O-Cyclohexyl Î²-<scp>d</scp>-Cellobioside Cyclohexane Solvate. Journal of the American Chemical Society, 2008, 130, 16678-16690.	13.7	53
44	Recognition of Heptoses and the Inner Core of Bacterial Lipopolysaccharides by Surfactant Protein D. Biochemistry, 2008, 47, 710-720.	2.5	53
45	Transgalactosylation by thermostable Î²-glycosidases from Pyrococcus furiosus and Sulfolobus solfataricus. FEBS Journal, 2000, 267, 5055-5066.	0.2	50
46	Characterization of high affinity monoclonal antibodies specific for chlamydial lipopolysaccharide. Glycobiology, 2000, 10, 121-130.	2.5	50
47	Isolation and identification of residual chromophores from aged bleached pulp samples. Holzforschung, 2007, 61, 656-661.	1.9	48
48	NMR Experiments Reveal Distinct Antibody-Bound Conformations of a Synthetic Disaccharide Representing a General Structural Element of Bacterial Lipopolysaccharide Epitopes. Biochemistry, 1999, 38, 6449-6459.	2.5	47
49	Glycan structure of a heptose-containing S-layer glycoprotein of Bacillus thermoaerophilus. Glycobiology, 1995, 5, 791-796.	2.5	46
50	Synthesis of allyl O-[sodium (Î±-d-glcero-d-talo-2-octulopyranosyl)onate]-(2 â†') Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (6)-2-aceta Acinetobacter calcoaceticus NCTC 10305. Carbohydrate Research, 1993, 244, 69-84.	2.3	45
51	Conformationally Constrained Lipid A Mimetics for Exploration of Structural Basis of TLR4/MD-2 Activation by Lipopolysaccharide. ACS Chemical Biology, 2013, 8, 2423-2432.	3.4	45
52	Synthesis of a tetrasaccharide of the genus-specific lipopolysaccharide epitope of Chlamydia. Carbohydrate Research, 1990, 208, 37-50.	2.3	44
53	Chlamydial lipopolysaccharide. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1999, 1455, 387-402.	3.8	43
54	Molecular Basis of S-layer Glycoprotein Glycan Biosynthesis in Geobacillus stearothermophilus. Journal of Biological Chemistry, 2008, 283, 21120-21133.	3.4	42

#	Article	IF	Citations
55	Bacterial cell-envelope glycoconjugates. Advances in Carbohydrate Chemistry and Biochemistry, 2013, 69, 209-272.	0.9	41
56	Stabilization and First Direct Spectroscopic Evidence of theo-Quinone Methide Derived from Vitamin E. Organic Letters, 2002, 4, 4285-4288.	4.6	40
57	Stereoelectronic Effects Impact Glycan Recognition. Journal of the American Chemical Society, 2020, 142, 2386-2395.	13.7	39
58	Biosynthesis of dTDP-3-acetamido-3,6-dideoxy-Î±-D-glucose. Biochemical Journal, 2008, 410, 187-194.	3.7	38
59	Synthesis of a neoglycoprotein containing the Lewis X analogous trisaccharide Î²-d-GalpNAc-(1â†'4)[Î±-l-Fucp-(1â†'3)]-Î²-d-GlcpNAc. Carbohydrate Research, 1998, 308, 259-273.	2.3	37
60	Synthesis of trisaccharides containing 3-deoxy-d-manno-2-octulosonic acid residues related to the KDO-region of enterobacterial lipopolysaccharides. Carbohydrate Research, 1989, 190, 191-201.	2.3	35
61	A monoclonal antibody against a carbohydrate epitope in lipopolysaccharide differentiates Chlamydophila psittaci from Chlamydophila pecorum, Chlamydophila pneumoniae, and Chlamydia trachomatis. Glycobiology, 2006, 16, 184-196.	2.5	35
62	Contact ion pairs and solvent-separated ion pairs from d-mannopyranosyl and d-glucopyranosyl triflates. Carbohydrate Research, 2015, 401, 127-131.	2.3	35
63	Antibody WN1 222-5 mimics Toll-like receptor 4 binding in the recognition of LPS. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20877-20882.	7.1	34
64	Bacterially derived synthetic mimetics of mammalian oligomannose prime antibody responses that neutralize HIV infectivity. Nature Communications, 2017, 8, 1601.	12.8	33
65	Structural heterogeneity in the core oligosaccharide of the S-layer glycoprotein from Aneurinibacillus thermoaerophilus DSM 10155. Glycobiology, 1999, 9, 787-795.	2.5	32
66	Elucidation of the structure of an alanine-lacking core tetrasaccharide trisphosphate from the lipopolysaccharide of Pseudomonas aeruginosa mutant H4. FEBS Journal, 1999, 261, 500-508.	0.2	32
67	Exploration of Specificity in Germline Monoclonal Antibody Recognition of a Range of Natural and Synthetic Epitopes. Journal of Molecular Biology, 2008, 377, 450-468.	4.2	32
68	Burkholderia cenocepacia lectin A binding to heptoses from the bacterial lipopolysaccharide. Glycobiology, 2012, 22, 1387-1398.	2.5	31
69	Synthesis of Chlamydia Lipopolysaccharide Haptens through the use of Î±â€Specific 3â€Iodoâ€Kdo Fluoride Glycosyl Donors. Chemistry - A European Journal, 2015, 21, 305-313.	3.3	31
70	Progress in Kdo-glycoside chemistry. Tetrahedron Letters, 2016, 57, 2133-2142.	1.4	31
71	The effect of 1-ethyl-3-methylimidazolium acetate on the enzymatic degradation of cellulose. Journal of Molecular Catalysis B: Enzymatic, 2014, 99, 121-129.	1.8	30
72	First and Stereoselective Synthesis of an Î±-(2â†'5)-Linked Disaccharide of 3-Deoxy-<scp>d</scp>-manno-oct-2-ulosonic Acid (Kdo). Organic Letters, 2015, 17, 110-113.	4.6	29

#	Article	IF	Citations
73	Synthesis of neoglycoproteins containing d-glycero-d-talo-oct-2-ulopyranosylonic acid (Ko) ligands corresponding to core units from Burkholderia and Acinetobacter lipopolysaccharide. Carbohydrate Research, 2000, 329, 549-560.	2.3	28
74	Analysis of cross-reactive and specific anti-carbohydrate antibodies against lipopolysaccharide from Chlamydophila psittaci. Glycobiology, 2010, 20, 461-472.	2.5	28
75	Two Î²-Galactosidases from the Human Isolate Bifidobacterium breve DSM 20213: Molecular Cloning and Expression, Biochemical Characterization and Synthesis of Galacto-Oligosaccharides. PLoS ONE, 2014, 9, e104056.	2.5	28
76	Glycan structure of the S-layer glycoprotein ofBacillus sp. L420-91. Glycoconjugate Journal, 1995, 12, 99-107.	2.7	27
77	Kinetic and chemical studies on the isomerization of monosaccharides in N-methylmorpholine-N-oxide (NMMO) under Lyocell conditions. Carbohydrate Research, 2004, 339, 1899-1906.	2.3	27
78	Structural basis of cell wall anchoring by SLH domains in Paenibacillus alvei. Nature Communications, 2018, 9, 3120.	12.8	27
79	Structural requirements of synthetic oligosaccharides to bind monoclonal antibodies against Chlamydia lipopolysaccharide. Glycobiology, 1997, 7, 819-827.	2.5	26
80	Alkaline degradation kinetics and CE-separation of cello- and xylooligomers. Part I. Carbohydrate Research, 2003, 338, 1209-1216.	2.3	26
81	Review: Chlamydial lipopolysaccharide. Journal of Endotoxin Research, 1997, 4, 67-84.	2.5	25
82	N-Acetylmuramic Acid as Capping Element of Î±-D-Fucose-containing S-layer Glycoprotein Glycans from Geobacillus tepidamans GS5â€“97T. Journal of Biological Chemistry, 2005, 280, 20292-20299.	3.4	25
83	A Common NH53K Mutation in the Combining Site of Antibodies Raised against Chlamydial LPS Glycoconjugates Significantly Increases Avidity. Biochemistry, 2011, 50, 3357-3368.	2.5	25
84	Development of Î±GlcN(1â†”1)Î±Man-Based Lipid A Mimetics as a Novel Class of Potent Toll-like Receptor 4 Agonists. Journal of Medicinal Chemistry, 2014, 57, 8056-8071.	6.4	25
85	Synthesis of polyacrylamide copolymers containing Î±-(2â†'4)-Î²-, Î²-(2â†'4)-Î²-, and Î²-(2â†'4)-Î±-linked O-(3-deoxy-d-manno-2-octulopyranosylonate)-(3-deoxy-d-manno-2-octulo-pyranosylono) (KDO) residues. Carbohydrate Research, 1988, 180, 19-28.	2.3	24
86	A SOLVENT-FREE AND FORMALIN-FREE ESCHWEILER-CLARKE METHYLATION FOR AMINES. Synthetic Communications, 2002, 32, 457-466.	2.1	24
87	Cross-Sectional Analysis of the Polysaccharide Composition in Cellulosic Fiber Materials by Enzymatic Peeling/High-Performance Capillary Zone Electrophoresis. Biomacromolecules, 2005, 6, 3146-3151.	5.4	24
88	Synthesis of pentasaccharide core structures corresponding to the genus-specific lipopolysaccharide epitope of Chlamydia. Carbohydrate Research, 1994, 254, 105-132.	2.3	23
89	Calixarene-Type Macrocycles by Oxidation of Phenols Related to Vitamin E. Angewandte Chemie - International Edition, 2002, 41, 1171-1173.	13.8	23
90	Antibodies Raised Against Chlamydial Lipopolysaccharide Antigens Reveal Convergence in Germline Gene Usage and Differential Epitope Recognition. Biochemistry, 2010, 49, 570-581.	2.5	23

#	Article	IF	Citations
91	Synthesis of new glycyrrhetinic acid derived ring A azepanone, 29-urea and 29-hydroxamic acid derivatives as selective 11Î²-hydroxysteroid dehydrogenase 2 inhibitors. Bioorganic and Medicinal Chemistry, 2011, 19, 1866-1880.	3.0	23
92	Theoretical study on the effects of a 4,6-O-diacetal protecting groupÂon the stability of ion pairs from d-mannopyranosyl and d-glucopyranosyl triflates. Carbohydrate Research, 2015, 411, 64-69.	2.3	23
93	Synthesis and Oxidation Behavior of 2,4,5,7,8-Pentamethyl-4H-1,3-benzodioxin-6-ol, a Multifunctional Oxatocopherol-Type Antioxidant. Journal of Organic Chemistry, 2002, 67, 3607-3614.	3.2	22
94	Polymorphism in the Crystal Structure of the Cellulose Fragment Analogue Methyl 4-O-Methyl-Î²-D-Glucopyranosyl-(1-4)-Î²-D-Glucopyranoside. Angewandte Chemie - International Edition, 2002, 41, 4277-4281.	13.8	22
95	Reconstitution in vitro of the GDP-fucose biosynthetic pathways of Caenorhabditis elegans and Drosophila melanogaster. FEBS Journal, 2006, 273, 2244-2256.	4.7	22
96	Hemoglobin Enhances the Biological Activity of Synthetic and Natural Bacterial (Endotoxic) Virulence Factors: A General Principle. Medicinal Chemistry, 2008, 4, 520-525.	1.5	22
97	Synthesis and antiviral activities of spacer-linked 1-thioglucuronide analogues of glycyrrhizin. Beilstein Journal of Organic Chemistry, 2012, 8, 705-711.	2.2	22
98	An optimized CZE method for analysis of mono- and oligomeric aldose mixtures. Carbohydrate Research, 2004, 339, 2037-2043.	2.3	21
99	The Drosophila melanogaster homologue of the human histo-blood group Pk gene encodes a glycolipid-modifying Î±1,4-N-acetylgalactosaminyltransferase. Biochemical Journal, 2004, 382, 67-74.	3.7	21
100	Synthesis of methyl 4â€²-O-methyl-13C12-Î²-d-cellobioside from 13C6-d-glucose. Part 1: Reaction optimization and synthesis. Carbohydrate Research, 2005, 340, 2428-2435.	2.3	21
101	The dTDP-4-dehydro-6-deoxyglucose reductase encoding fcd gene is part of the surface layer glycoprotein glycosylation gene cluster of Geobacillus tepidamans GS5-97T. Glycobiology, 2007, 17, 433-443.	2.5	21
102	Studies on DMSO-containing carbanilation mixtures: chemistry, oxidations and cellulose integrity. Cellulose, 2007, 14, 497-511.	4.9	21
103	Cellobiohydrolases Produce Different Oligosaccharides from Chitosan. Biomacromolecules, 2016, 17, 2284-2292.	5.4	21
104	Crystal and molecular structure of methyl 4-O-methyl-Î²-d-glucopyranosyl-(1â†’4)-Î²-d-glucopyranoside. Carbohydrate Research, 2002, 337, 161-166.	2.3	20
105	Structural insights into parallel strategies for germline antibody recognition of lipopolysaccharide from Chlamydia. Glycobiology, 2011, 21, 1049-1059.	2.5	20
106	Synthesis of Neoglycoconjugates Containing 4â€²Aminoâ€²4â€²deoxyâ€²<scp>L</scp>â€arabinose Epitopes Corresponding to the Inner Core of Burkholderia and Proteus Lipopolysaccharides. European Journal of Organic Chemistry, 2012, 2012, 119-131.	2.4	20
107	Synthesis of oxidized methyl 4-O-methyl-Î²-d-glucopyranoside and methyl Î²-d-glucopyranosyl-(1â†’4)-Î²-d-glucopyranoside derivatives as substrates for fluorescence labeling reactions. Carbohydrate Research, 2002, 337, 691-700.	2.3	19
108	Synthesis of neoglycoproteins containing O-methylated trisaccharides related to excretory/secretory antigens of Toxocara larvae. Carbohydrate Research, 2003, 338, 35-45.	2.3	19

#	Article	IF	Citations
109	A short synthesis of d-glycero-d-manno-heptose 7-phosphate. Carbohydrate Research, 2005, 340, 2808-2811.	2.3	19
110	Synthesis of C-glycosides related to glycero-Î²-d-manno-heptoses. Tetrahedron: Asymmetry, 2005, 16, 167-175.	1.8	19
111	Structural characterization of the acid-degraded secondary cell wall polymer of Geobacillus stearothermophilus PV72/p2. Carbohydrate Research, 2008, 343, 1346-1358.	2.3	19
112	Synthesis of an Undecasaccharide Featuring an Oligomannosidic Heptasaccharide and a Bacterial Kdo-lipid A Backbone for Eliciting Neutralizing Antibodies to Mammalian Oligomannose on the HIV-1 Envelope Spike. Journal of the American Chemical Society, 2019, 141, 7946-7954.	13.7	19
113	The N-glycans of Chlorella sorokiniana and a related strain contain arabinose but have strikingly different structures. Glycobiology, 2020, 30, 663-676.	2.5	19
114	Isolation and Identification of Residual Chromophores in Cellulosic Materials. Macromolecular Symposia, 2005, 223, 239-252.	0.7	18
115	Chemical Synthesis of Burkholderia Lipidâ€...A Modified with Glycosyl Phosphodiesterâ€Linked 4â€Aminoâ€4â€deoxyâ€Î²â€<scp>L</scp>â€arabinose and Its Immunomodulatory Potential. Chemistry - A European Journal, 2015, 21, 4102-4114.	5.6	18
116	Synthesis of a Pentasaccharide Fragment Related to the Inner Core Region of Rhizobial and Agrobacterial Lipopolysaccharides. Journal of Organic Chemistry, 2017, 82, 12346-12358.	3.2	18
117	G.L.C.-M.S. of partially methylated and acetylated derivatives of 3-deoxy-2-ketoaldonic acids and 3-deoxy-alditols. Carbohydrate Research, 1987, 167, 1-8.	2.3	17
118	Crystal and molecular structure of allyl O-(sodium 3-deoxy-Î±-d-manno- 2-octulopyranosylonate)-(2 â†') Tj ETQq0 0 0 rgBT /Overlock 10 T 263, 35-42.	2.3	17
119	Investigation on the agonistic and antagonistic biological activities of synthetic Chlamydia lipid A and its use in in vitro enzymatic assays. Journal of Endotoxin Research, 2007, 13, 126-132.	2.5	17
120	Studies on the carbenium-iminium ions derived from N-methylmorpholine-N-oxide (NMMO). Tetrahedron, 2004, 60, 301-306.	1.9	16
121	Synthesis of novel 3-amino and 29-hydroxamic acid derivatives of glycyrrhetinic acid as selective 11Î²-hydroxysteroid dehydrogenase 2 inhibitors. Bioorganic and Medicinal Chemistry, 2010, 18, 7522-7541.	3.0	16
122	The role of CDR H3 in antibody recognition of a synthetic analog of a lipopolysaccharide antigen. Glycobiology, 2010, 20, 138-147.	2.5	16
123	Convergent Synthesis of 4-O-Phosphorylatedl-glycero-d-manno-Heptosyl Lipopolysaccharide Core Oligosaccharides Based on Regioselective Cleavage of a 6,7-O-Tetraisopropyldisiloxane-1,3-diyl Protecting Group. Journal of Organic Chemistry, 2014, 79, 582-598.	3.2	16
124	Lipoteichoic acid mediates binding of a Lactobacillus S-layer protein. Glycobiology, 2018, 28, 148-158.	2.5	16
125	Functional Characterization of Enzymatic Steps Involved in Pyruvylation of Bacterial Secondary Cell Wall Polymer Fragments. Frontiers in Microbiology, 2018, 9, 1356.	3.5	16
126	Synthesis of carboxyl-reduced analogues related to the Chlamydia-specific Kdo trisaccharide epitope. Carbohydrate Research, 1994, 262, 223-244.	2.3	15

#	Article	IF	Citations
127	Synthesis and purity assessment of tetra- and pentaacyl lipid A of Chlamydia containing (R)-3-hydroxyicosanoic acid. Tetrahedron, 2004, 60, 12113-12137.	1.9	15
128	Synthesis and crystal structures of ring A modified glycyrrhetinic acid derivatives derived from 2,3-oxirane and 2,3-thiirane intermediates. Tetrahedron, 2010, 66, 4390-4402.	1.9	15
129	Synthesis of a neoglycoconjugate containing a Chlamydophila psittaci-specific branched Kdo trisaccharide epitope. Carbohydrate Research, 2010, 345, 704-708.	2.3	15
130	Groove-type Recognition of Chlamydiaceae-specific Lipopolysaccharide Antigen by a Family of Antibodies Possessing an Unusual Variable Heavy Chain N-Linked Glycan. Journal of Biological Chemistry, 2014, 289, 16644-16661.	3.4	15
131	Anti-endotoxic activity and structural basis for human MD-2Â·TLR4 antagonism of tetraacylated lipid A mimetics based on Î²GlcN(1â†”1)Î±GlcN scaffold. Innate Immunity, 2015, 21, 490-503.	2.4	15
132	Chemical synthesis of the innate immune modulator â€“ bacterial d - glycero -Î²- d - manno-heptose-1,7-bisphosphate (HBP). Tetrahedron Letters, 2017, 58, 2826-2829.	1.4	15
133	Comparative Antigenicity of Thiourea and Adipic Amide Linked Neoglycoconjugates Containing Modified Oligomannose Epitopes for the Carbohydrate-Specific anti-HIV Antibody 2G12. Bioconjugate Chemistry, 2019, 30, 70-82.	3.6	15
134	Synthesis and immunoreactivity of poly(acrylamide) copolymers containing C-3- and C-7-modified, carboxyl-reduced, 4-O- and 5-O-phosphorylated K. Carbohydrate Research, 1993, 238, 93-107.	2.3	14
135	Purification and structure elucidation of theN-acetylbacillosamine-containing polysaccharide fromBacillusâ€ƒlicheniformisATCC 9945. FEBS Journal, 2001, 268, 857-864.	0.2	14
136	On the non-classical course of Polonowski reactions of N-benzylmorpholine-N-oxide (NBnMO). Tetrahedron, 2005, 61, 3483-3487.	1.9	14
137	Synthesis of regioselectively sulfated xylodextrins and crystal structure of sodium methyl Î²-d-xylopyranoside 4-O-sulfate hemihydrate. Carbohydrate Research, 2009, 344, 21-28.	2.3	14
138	Structuralâ€“Functional Studies of Burkholderia cenocepacia <scp>d</scp>-Glycero-Î²-<scp>d</scp>-manno-heptose 7-Phosphate Kinase (HldA) and Characterization of Inhibitors with Antibiotic Adjuvant and Antivirulence Properties. Journal of Medicinal Chemistry, 2013, 56, 1405-1417.	6.4	14
139	The Î±-d-mannan core of a complex cell-wall heteroglycan ofTrichoderma reesei is responsible for Î²-glucosidase activation. Archives of Microbiology, 1995, 164, 414-419.	2.2	13
140	Radicals derived from N-methylmorpholine-N-oxide (NMMO): structure, trapping and recombination reactions. Tetrahedron, 2002, 58, 3073-3078.	1.9	13
141	Pseudo-symmetry and twinning in crystals of homologous antibody Fv fragments. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 1250-1258.	2.5	13
142	Synthesis of 5-O-oligoglucosyl extended Î±-(2â†’4)-Kdo disaccharides corresponding to inner core fragments of Moraxellaceae lipopolysaccharides. Carbohydrate Research, 2016, 422, 5-12.	2.3	13
143	Synthesis of methyl 4â€²-O-methyl-Î²-d-cellobioside-13C12 from d-glucose-13C6. Part 2: Solid-state NMR studies. Carbohydrate Research, 2007, 342, 65-70.	2.3	12
144	â€œHypermethylationâ€•of anthranilic acid-labeled sugars confers the selectivity required for liquid chromatography-mass spectrometry. Analytical Biochemistry, 2016, 514, 24-31.	2.4	12

#	Article	IF	Citations
145	Development of a multifunctional aminoxy-based fluorescent linker for glycan immobilization and analysis. Glycobiology, 2016, 26, 1297-1307.	2.5	12
146	Molecular Conformations of Di-, Tri-, and Tetra-Î±-(2â†'8)-Linked Sialic Acid from NMR Spectroscopy and MD Simulations. International Journal of Molecular Sciences, 2020, 21, 30.	4.1	12
147	Synthesis of poly(acrylamide) copolymers containing 3,5-dideoxy-d-arabino-2-octulopyranosylonic acid (5-deoxy-Kdo) residues. Carbohydrate Research, 1989, 194, 145-154.	2.3	11
148	On a Novel Chromanoneâ^'Naphthalenetrione Rearrangement Related to Vitamin E. Organic Letters, 2002, 4, 1257-1258.	4.6	11
149	Novel tocopheryl compounds. Part 15: One-pot formation of furotocopheryl derivatives. Tetrahedron, 2003, 59, 3231-3235.	1.9	11
150	Sulfonium ylides derived from 2-hydroxy-benzoquinones: crystal and molecular structure and their one-step conversion into Mannich bases by amine N-oxides. Tetrahedron, 2004, 60, 5719-5723.	1.9	11
151	Synthesis of C-glycosidically linked ADP glycero-Î²-d-manno-heptose analogues. Tetrahedron: Asymmetry, 2007, 18, 115-122.	1.8	11
152	Synthesis of a deoxy analogue of ADP l-glycero-d-manno-heptose. Carbohydrate Research, 2007, 342, 2537-2545.	2.3	11
153	Crystal and molecular structure of methyl l-glycero-Î±-d-manno-heptopyranoside, and synthesis of 1â†'7 linked l-glycero-d-manno-heptobiose and its methyl Î±-glycoside. Carbohydrate Research, 2011, 346, 1739-1746.	2.3	11
154	Brightness reversion of eucalyptus kraft pulp: Effect of carbonyl groups generated by hypochlorous acid oxidation. Holzforschung, 2011, 65, .	1.9	11
155	Synthesis of Î±-d-glucosyl substituted methyl glycosides of 3-deoxy-Î±-d-manno- and d-glycero-Î±-d-talo-oct-2-ulosonic acid (Kdo/Ko) corresponding to inner core fragments of Acinetobacter lipopolysaccharide. Carbohydrate Research, 2014, 391, 66-81.	2.3	11
156	Scope and Limitations of 3-Iodo-Kdo Fluoride-Based Glycosylation Chemistry usingN-Acetyl Glucosamine Acceptors. ChemistryOpen, 2015, 4, 722-728.	1.9	11
157	Structural Basis for Antibody Recognition of Lipid A. Journal of Biological Chemistry, 2015, 290, 19629-19640.	3.4	11
158	Synthesis of alternate linear and branched repeating units of the Escherichia coli LP 1092 capsular polysaccharide containing 3-deoxy-Î±-d-manno-2-octulosonic acid (KDO) linked to secondary positions of d-ribose. Carbohydrate Research, 1985, 141, 239-253.	2.3	10
159	Chlamydia1 lipopolysaccharide: Chemical and antigenic structure, biosynthesis and biomedical application. Pure and Applied Chemistry, 1995, 67, 1617-1626.	1.9	10
160	SYNTHESIS OF O-METHYLATED DISACCHARIDES RELATED TO EXCRETORY/ SECRETORY ANTIGENS OF TOXOCARA LARVAE1. Journal of Carbohydrate Chemistry, 2001, 20, 719-731.	1.1	10
161	Studies into reactions of N-methylmorpholine-N-oxide (NMMO) and its hydrates with cyanuric chloride. Tetrahedron, 2002, 58, 9809-9815.	1.9	10
162	Synthesis of novel 3-oxa-chromanol type antioxidants. Tetrahedron, 2003, 59, 2687-2691.	1.9	10

#	Article	IF	Citations
163	A convenient synthesis of GDP d-glycero-Î±-d-manno-heptopyranose. Carbohydrate Research, 2004, 339, 147-151.	2.3	10
164	Efficient Synthesis of 4-Amino-4-deoxy-l-arabinose and Spacer-Equipped 4-Amino-4-deoxy-l-arabinopyranosides by Transglycosylation Reactions. Synthesis, 2010, 2010, 3143-3151.	2.3	10
165	Isolation and structural characterization of a (Kdo-isosteric) d-glycero-Î±-d-talo-oct-2-ulopyranosidonic acid (Ko) interlinking lipid A and core oligosaccharide in the lipopolysaccharide of Acinetobacter calcoaceticus NCTC 10305. Carbohydrate Research, 2013, 378, 63-70.	2.3	10
166	UDP-sulfoquinovose formation by Sulfolobus acidocaldarius. Extremophiles, 2015, 19, 451-467.	2.3	10
167	2,4â€²:2â€²,4 Dianhydride of 3-keto-glucoside, a precursor to chromophores of aged, yellow cellulose, and its weak interactions. Cellulose, 2017, 24, 1227-1234.	4.9	10
168	3-Tocopherylisoxazolines by [2+3] Cycloaddition. European Journal of Organic Chemistry, 2004, 2004, 1323-1329.	2.4	9
169	Efficient synthesis of glycyrrhetinic acid glycoside/glucuronide derivatives using silver zeolite as promoter. Carbohydrate Research, 2009, 344, 1063-1071.	2.3	9
170	A novel method to analyze the degree of acetylation in biopolymers. Journal of Chromatography A, 2014, 1372, 212-220.	3.7	9
171	Synthesis of Zwitterionic 1,1â€²-Glycosylphosphodiester: A Partial Structure of Galactosamine-Modified Francisella Lipid A. Organic Letters, 2014, 16, 3772-3775.	4.6	9
172	Are there specific antibodies against Neu5Gc epitopes in the blood of healthy individuals?. Glycobiology, 2020, 30, 395-406.	2.5	9
173	Syntheses of repeating units of Escherichia coli capsular polysaccharides containing d-ribose and 3-deoxy-d-manno-2-octulosonic acid (KDO). Carbohydrate Research, 1984, 132, 261-274.	2.3	8
174	Synthesis and NMR spectroscopic investigation of oligosaccharides containing Kdo and l-glycero-d-manno-heptopyranosyl residues. Carbohydrate Research, 1993, 243, 273-291.	2.3	8
175	Novel tocopheryl compounds. Part 16: Nitration of Î±-tocopheryl acetateâ€”a mechanistic study. Tetrahedron, 2003, 59, 8177-8182.	1.9	8
176	A novel approach to determination of carbonyl groups in DMAc/LiCl-insoluble pulps by fluorescence labeling. Cellulose, 2006, 13, 429-435.	4.9	8
177	Complete Structural Elucidation of an Oxidized Polysialic Acid Drug Intermediate by Nuclear Magnetic Resonance Spectroscopy. Bioconjugate Chemistry, 2014, 25, 665-676.	3.6	8
178	Evaluation of a diâ€‹Oâ€‹methylated glycan as a potential antigenic target for the serodiagnosis of human toxocariasis. Parasite Immunology, 2016, 38, 236-243.	1.5	8
179	A novel strategy for the synthesis of neoglycoconjugates from deacylated deep rough lipopolysaccharides. Journal of Endotoxin Research, 2002, 8, 295-305.	2.5	8
180	Empirical 13C-N.M.R.-correlations between the Escherichia coli K 13 and LP 1092 capsular polysaccharides and model oligosaccharides containing d-ribose and 3-deoxy-d-manno-2-octulosonic acid. Carbohydrate Research, 1985, 139, 13-22.	2.3	7

#	Article	IF	Citations
181	GLC-MS of reduced, acetylated, and methylated (2 â†' 4)- and (2 â†' 8)-linked disaccharides of 3-deoxy-pD-manno-octulopyranosonic acid (Kdo). Carbohydrate Research, 1992, 231, 65-71.	2.3	7
182	Synthesis of Pseudomonasaeruginosa lipopolysaccharide core antigens containing 7-O-carbamoyl-l-glycero-Î±-d-manno-heptopyranosyl residues. Carbohydrate Research, 1999, 317, 39-52.	2.3	7
183	Cellulosics modified with slow-release reagents. Part I. Synthesis of triazine-anchored reagents for slow release of active substances from cellulosic materials. Polymer, 2005, 46, 1453-1458.	3.8	7
184	Synthesis and antigenic properties of C-7-modified Kdo mono- and disaccharide ligands and Kdo disaccharide interresidue lactones. Carbohydrate Research, 2009, 344, 1660-1669.	2.3	7
185	Monoclonal antibody S60-4-14 reveals diagnostic potential in the identification of Pseudomonas aeruginosa in lung tissues of cystic fibrosis patients. European Journal of Cell Biology, 2010, 89, 25-33.	3.6	7
186	Synthesis of lipid A and inner-core lipopolysaccharide (LPS) ligands containing 4-amino-4-deoxy-L-arabinose units. Pure and Applied Chemistry, 2011, 84, 11-21.	1.9	7
187	Exploring the cross-reactivity of S25-2: complex with a 5,6-dehydro-Kdo disaccharide. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 2-5.	0.7	7
188	Unraveling the B.Âpseudomallei Heptokinase WcbL: From Structure to Drug Discovery. Chemistry and Biology, 2015, 22, 1622-1632.	6.0	7
189	Transferase Activity of Lactobacillal and Bifidobacterial Î²-Galactosidases with Various Sugars as Galactosyl Acceptors. Journal of Agricultural and Food Chemistry, 2016, 64, 2604-2611.	5.2	7
190	Short synthesis of allyl 2-acetamido-2-deoxy-3,6-di-O-(Î±-l-fucopyranosyl)-Î²-d-glucopyranoside. Carbohydrate Research, 1993, 246, 353-360.	2.3	6
191	Crystallization and preliminary X-ray diffraction analysis of two homologous antigen-binding fragments in complex with different carbohydrate antigens. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1872-1876.	2.5	6
192	A Novel Method for Analysis of Xanthate Group Distribution in Viscoses. Macromolecular Symposia, 2005, 223, 189-200.	0.7	6
193	Synthesis and Testing of a Novel Fluorescence Label for Carboxyls in Carbohydrates and Cellulosics. Synlett, 2005, 2005, 3087-3090.	1.8	6
194	Zwitterionic Phosphodiester-Substituted Neoglycoconjugates as Ligands for Antibodies and Acute Phase Proteins. ACS Chemical Biology, 2020, 15, 369-377.	3.4	6
195	Isolation, Synthesis and Derivatization of Xylodextrins. Macromolecular Symposia, 2005, 232, 93-97.	0.7	5
196	Reaction of Oxidized Polysialic Acid and a Diaminooxy Linker: Characterization and Process Optimization Using Nuclear Magnetic Resonance Spectroscopy. Bioconjugate Chemistry, 2016, 27, 2071-2080.	3.6	5
197	Commercial cellulases from Trichoderma longibrachiatum enable a large-scale production of chito-oligosaccharides. Pure and Applied Chemistry, 2016, 88, 865-872.	1.9	5
198	Stereoselective Synthesis of Î±- and Î²-<scp>l</scp>-Ara4N Glycosyl H-Phosphonates and a Neoglycoconjugate Comprising Glycosyl Phosphodiester Linked Î²-<scp>l</scp>-Ara4N. Organic Letters, 2017, 19, 78-81.	4.6	5

#	Article	IF	Citations
199	Synthetic Phosphodiesterâ€Linked 4â€Aminoâ€4â€deoxyâ€l â€arabinose Derivatives Demonstrate that ArnT is an Inverting Aminoarabinosyl Transferase. ChemBioChem, 2019, 20, 2936-2948.	2.6	5
200	Potential of Inulin-Fructooligosaccharides Extract Produced from Red Onion (Allium cepa var.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	3.5	5
201	A Combination of Structural, Genetic, Phenotypic and Enzymatic Analyses Reveals the Importance of a Predicted Fucosyltransferase to Protein O-Glycosylation in the Bacteroidetes. Biomolecules, 2021, 11, 1795.	4.0	5
202	Crystal and molecular structure of methyl 4-O-methyl-Î²-d-ribo-hex-3-ulopyranoside. Carbohydrate Research, 2004, 339, 795-799.	2.3	4
203	Facile Synthesis of Î±,Ï‰-Bis(5-Î³-tocopheryl)alkanes. Synlett, 2005, 2005, 243-246.	1.8	4
204	Confirmation of the Presence of Hydroxyl Radicals During Preâ€Ripening of Alkali Cellulose. Journal of Wood Chemistry and Technology, 2006, 26, 53-63.	1.7	4
205	Synthesis of spacer-containing chlamydial disaccharides as analogues of the Î±-Kdop-(2â†'8)-Î±-Kdop-(2â†'4)-Î±-Kdop trisaccharide epitope. Carbohydrate Research, 2007, 342, 576-585.	2.3	4
206	Indolylfuran, a potent aryl hydrocarbon receptor agonist from sauerkraut, interacts with the oestrogen pathway. Food Chemistry, 2011, 127, 1764-1772.	8.2	4
207	Achieving Absolute Molar Lipid Concentrations: A Phospholipidomics Cross-Validation Study. Analytical Chemistry, 2022, 94, 1618-1625.	6.5	4
208	Synthesis of the Cellulose Model Compound Methyl 4â€³-O-Methyl-Î²-D-Cellotrioside. Macromolecular Symposia, 2005, 232, 68-73.	0.7	3
209	Synthesis of 3-O- and 4-O-(2-aminoethylphosphono) derivatives of methyl l-glycero-Î±-d-manno-heptopyranoside. Monatshefte FÃ¼r Chemie, 2017, 148, 111-119.	1.8	3
210	Synthesis of C-glycosyl phosphonate derivatives of 4-amino-4-deoxy-Î±-ÊŸ-arabinose. Beilstein Journal of Organic Chemistry, 2020, 16, 9-14.	2.2	3
211	Monoclonal antibodies against 3-deoxy-Î±-D-<I>manno</I>-oct-2-ulosonic acid (Kdo) and D-<I>glycero</I>-Î±-D-<I>talo</I>-oct-2-ulosonic acid (Ko). Journal of Endotoxin Research, 2002, 8, 357-364.	2.5	3
212	A Lead-Based Fragment Library Screening of the Glycosyltransferase WaaG from Escherichia coli. Pharmaceuticals, 2022, 15, 209.	3.8	3
213	Synthesis of C-8 Deuterated Glycosides of 3-Deoxy-D-manno-oct-2-ulosonic Acid (Kdo) Related to Chlamydial Lipopolysaccharides. Monatshefte FÃ¼r Chemie, 2002, 133, 561-570.	1.8	2
214	Corrigendum to â€œCrystal and molecular structure of methyl 4-O-methyl-Î²-d-glucopyranosyl-(1â†'4)-Î²-d-glucopyranosideâ€•[Carbohydr. Res. 2002, 337, 161â€“166]. Carbohydrate Research, 2002, 337, 1065.	2.3	2
215	Synthesis of 1,5-Anhydro-d-glycero-d-gluco-heptitol Derivatives as Potential Inhibitors of Bacterial Heptose Biosynthetic Pathways. Synthesis, 2017, 49, 5320-5334.	2.3	2
216	Subtle Changes in the Combining Site of the Chlamydiaceae-Specific mAb S25-23 Increase the Antibodyâ€“Carbohydrate Binding Affinity by an Order of Magnitude. Biochemistry, 2019, 58, 714-726.	2.5	2

#	Article	IF	Citations
217	Characterization of the physiological substrate for lipopolysaccharide heptosyltransferases I and II. Journal of Endotoxin Research, 2001, 7, 263-270.	2.5	2
218	Assaying Paenibacillus alvei CsaB-Catalysed Ketalpyruvyltransfer to Saccharides by Measurement of Phosphate Release. Biomolecules, 2021, 11, 1732.	4.0	2
219	Synthesis of methyl 2-O-, 3-O-, and 5-O-Î²-d-ribofuranosyl-Î²-d-ribofuranoside via 1,2-O-cyanoethylidene derivatives of d-ribofuranose. Carbohydrate Research, 1988, 180, 243-251.	2.3	1
220	Chemical synthesis of the core oligosaccharide of bacterial lipopolysaccharide. , 2010, , 429-454.		1
221	4-({(Z)-5-[(Z)-3-Ethoxy-4-hydroxybenzylidene]-3-methyl-4-oxo-1,3-thiazolidin-2-ylidene}amino)benzoic acid dimethylformamide monosolvate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o3417-o3418.	0.2	1
222	Biomimetic Synthesis and Analytics of the Human aryl Hydrocarbon Receptor Agonist 1-(furan-2-yl)-2-(1H-indol-3-yl)ethanone, and its 1-(thiophen-2-yl) and 1- (pyrrol-2-yl) Analogues. Current Organic Chemistry, 2013, 17, 2349-2358.	1.6	1
223	Column: Cellulose. Polymer News, 2004, 29, 155-158.	0.1	1
224	Foreword. Carbohydrate Research, 2010, 345, 1251.	2.3	0
225	2,4,5-Trihydroxy-3-methylacetophenone: A Cellulosic Chromophore as a Case Study of Aromaticity. ACS Omega, 2017, 2, 7929-7935.	3.5	0
226	Determination of modification degree of polysialylated therapeutic proteins using 1H-NMR spectroscopy. International Journal of Biological Macromolecules, 2021, 185, 1015-1021.	7.5	0
227	Synthesis and immunochemical characterization of neoglycoproteins containing epitopes of the inner core region of <I>Pseudomonas aeruginosa</I> RNA group I lipopolysaccharide. Journal of Endotoxin Research, 2001, 7, 125-131.	2.5	0
228	Synthesis of inner core antigens related to <I>Chlamydia</I>, <I>Pseudomonas</I> and <I>Acinetobacter</I> LPS. Journal of Endotoxin Research, 1999, 5, 157-163.	2.5	0
229	Synthetic Neoglycoconjugates of Heptaâ€•and Nonamannoside Ligands for Eliciting Oligomannoseâ€Specific HIVâ€1â€Neutralizing Antibodies. ChemBioChem, 2022, 23, .	2.6	0