

SUBJECT INDEX

- 3-Acetamido- and 3-azido-3-deoxy- α -D-mannose, synthesis of GDP-, 285
- Acetolytic fission of a single glycosidic bond of fully benzoylated α -, β - and γ -cyclodextrins. A novel approach to the preparation of maltooligosaccharide derivatives regioselectivity modified at their nonreducing ends, 263
- Activation of carboxymethylcellulose with the swelling system *N,N*-dimethylacetamide-*O*-*p*-toluenesulfonic acid, a preliminary to sulfation, 315
- N*-Acylglycosylamines, a straightforward preparation of as carbohydrate based detergents; improved synthesis of glycosylamines, 211
- Agarose, 53
- Amadori compound, *N*-(1-deoxy- β -D-fructos-1-yl)-glycine, the crystal structure of an, 5
- 2-Amino-2-deoxy-D-glucopyranose 3-*O*-sulfate, 65
- 2-Amino-2-deoxy-D-glucopyranose 6-*O*-sulfate, 65
- Amphiphiles: the crystal structures of *N*-(1-octyl)-D-arabinonamide and *N*-(1-dodecyl)-D-ribonamide and the supramolecular assembly-forming properties of *N*-(1-octyl)-D-pentonamide, on the conformational and packing behavior of acyclic-sugar, 15
- O-Antigen oligosaccharides from two strains of *Moraxella catarrhalis* serotype C, structural studies, 237
- Arthrobacter* sp., structure of a new acidic exopolysaccharide (simusan) from, 103
- Binding, 229
- Bis(glycosyl) ethers as bolaamphiphile surfactants, synthesis of novel, 171
- Bis-*O*-(tetraisopropylidisiloxane-1,3-diyl)-chiro-inositol, a useful intermediate for the preparation of several novel cyclitols, 1L-2,3:4,5-, 301
- Bradyrhizobium japonicum* strain USDA61, synthetic studies on lipooligosaccharide Nod Bj-IV (C_{18:1},Fuc,Gro) produced by, C1
- Capsular polysaccharide of *Escherichia coli* K57, a partial reductive-cleavage study of the, 95
- Carboxymethylcellulose sulfate of high degree of sulfation, preparation, 315
- Carrageenans, 53
- Cellulose and its model compounds by Mn(III), kinetic studies on the oxidation of, 129
- Cinerean, a β -(1 \rightarrow 3)(1 \rightarrow 6)-D-glucan produced by *Botrytis cinerea*, structural properties of native and sonicated, 115
- Conformational and packing behavior of acyclic-sugar amphiphiles: the crystal structures of *N*-(1-octyl)-D-arabinonamide and *N*-(1-dodecyl)-D-ribonamide and the supramolecular assembly-forming properties of *N*-(1-octyl)-D-pentonamide, on the, 15
- Core oligosaccharide, 221
- Crystal structures of cyclodextrins and oligosaccharides, reliability of assigning O-H \cdots O hydrogen bonds to short intermolecular O \cdots O separations, 1
- Crystal structures of *N*-(1-octyl)-D-arabinonamide and *N*-(1-dodecyl)-D-ribonamide and the supramolecular assembly-forming properties of *N*-(1-octyl)-D-pentonamide, on the conformational and packing behavior of acyclic-sugar amphiphiles: the, 15
- Cyclodextrin and oligosaccharide crystal structures, reliability of assigning O-H \cdots O hydrogen bonds to short intermolecular O \cdots O separations, 1
- β -Cyclodextrin, regioselectivity of alkylation and synthesis of its mono-2-*O*-methyl-, -ethyl-, -allyl-, and -propyl derivatives, 75
- Cyclodextrins, fully benzoylated α -, β -, and γ -, acetolysis and conversion of the products

- into regioselectively modified maltooligosaccharide derivatives, 263
Cyclomaltoheptaose (see β -cyclodextrin), 75
- N*-(1-Deoxy- β -D-fructos-1-yl)-glycine, the crystal structure of an Amadori compound, 5
2-Deoxy-2-fluoro-2-iodo-D-glucose, synthesis, radiolabelling, and kinetic evaluation of, 273
2-Deoxy-2-fluoro-2-iodo-D-hexoses for medical imaging, synthesis, radiolabelling, and kinetic evaluation, 273
2-Deoxy-2-fluoro-2-iodo-D-mannose, synthesis, radiolabelling, and kinetic evaluation of, 273
2'-Deoxyguanosine, reaction of, with glucose, 87
Dextran, 229
Dextran activation of dextransucrase, mechanism of, 293
Dextransucrase, mechanism of dextran activation of, 293
- E. coli* K57, a partial reductive-cleavage study of the capsular polysaccharide, 95
Erwinia chrysanthemi, extracellular polysaccharide of, 153
Extracellular polysaccharide of *Erwinia chrysanthemi*, 153
- D-Fructose-glycine, the crystal structure of an Amadori compound, 5
L-Fructose, application of a phase transfer reaction to synthesis of, 81
- GDP-3-acetamido-3-deoxy- α -D-mannose and GDP-3-azido-3-deoxy- α -D-mannose, synthesis, 285
Glucose, reaction of 2'-deoxyguanosine with, 87
Glycosylamines, improved synthesis and a straightforward preparation of *N*-acylglycosylamines as carbohydrate-based detergents, 211
Glycosyltransferase, 191
- Hafnia alvei*, 221
Heparin, 37, 65
Heparinase of *Flavobacterium heparinum*, 37
¹H NMR, 37, 191
HPAEC, 191
HPLC, 53
O-H...O Hydrogen bonds, reliability of assignment to short intermolecular O...O separations in cyclodextrin and oligosaccharide crystal structures, 1
- In vitro synthesis, 191
Industrial-fermentation byproduct, trehalose as a common, 147
cis-Inositol, a simple synthesis of, 143
- Kdo, 221
Kinetic studies of the oxidation of cellulose and its model compounds by Mn(III), 129
- Lipooligosaccharides from two strains of *Moraxella catarrhalis* serotype C, structural studies of the oligosaccharide parts, 237
Lipooligosaccharide Nod Bj-IV (C_{18:1},Fuc,Gro) produced by *Bradyrhizobium japonicum* strain USDA61, synthetic studies on, C1
Lipopolysaccharides, 221
- MALDI-MS, 191
Maltooligosaccharide derivatives, regioselectively modified preparation via acetolysis of fully benzoylated α -, β -, and γ -cyclodextrins, 263
Mannose-containing polysaccharides, of lichen mycobionts, chemotypes of, a possible aid in classification and identification, 309
Mechanism of dextran activation of dextransucrase, 293
Medical imaging, syntheses, radiolabelling, and kinetic evaluation of 2-deoxy-2-fluoro-2-iodo-D-hexoses for, 273
Methanolysis, 53
Methyl *O*-(β -D-galactopyranosyl)-(1 \rightarrow 3)-*O*-[D-L-fucopyranosyl-(1 \rightarrow 4)]-2-acetamido-2-deoxy-6-*O*-sulfo- β -D-glucopyranoside sodium salt, synthesis of, as a potential ligand for selection molecules, 279
Moraxella (*Branhamella*) *catarrhalis*, structural studies of the oligosaccharide parts of serotype C lipopolysaccharides, 237
MS, 53
- NMR, 53, 221, 229
Nod Bj-IV (C_{18:1},Fuc,Gro) produced by *Bradyrhizobium japonicum* strain USDA61, synthetic studies on lipooligosaccharide, C1
Novel cyclitols, 1L-2,3:4,5-bis-*O*-(tetraisopropylidisiloxane-1,3-diyl)-*chiro*-inositol, a useful intermediate for the preparation of several, 301
- O*-Protected thiohydroxamate-linked pseudodisaccharides, synthesis of, 321
Oxidation of cellulose and its model compounds by Mn(III), kinetic studies on the, 129
- Phase transfer reaction, application of a, to the synthesis of L-fructose, 81
Poly *N*-acetylactosaminoglycan, 191
Polyphenol, 229

- Polysaccharide from *Arthrobacter* sp., structure of simusan a new acidic, 103
- Polysaccharide of *Erwinia chrysanthemi*, extracellular, 153
- Polysaccharide produced by *Botrytis cinerea*, structural properties of native and sonicated cinerean, 115
- Polysaccharides, mannose-containing, classification and identification, 309
- Porcine intestinal heparin, 37
- Pseudodisaccharides, synthesis of O-protected thiohydroxymate-linked, 321
- Reductive-cleavage study of the capsular polysaccharide of *Escherichia coli* K57, a partial, 95
- S-Sialyl nucleoside analogue, an improved synthesis of an important, 269
- Selectin molecules, synthesis of methyl O-(β -D-galactopyranosyl)-(1 \rightarrow 3)-O-[D-L-fucopyranosyl-(1 \rightarrow 4)]-2-acetamido-2-deoxy-6-O-sulfo- β -D-glucopyranoside sodium salt as a potential ligand for, 279
- Simusan, a new acidic exopolysaccharide from *Arthrobacter* sp. structure of, 103
- Structural properties of native and sonicated cinerean, a β -(1 \rightarrow 3)(1 \rightarrow 6)-D-glucan produced by *Botrytis cinerea*, 115
- Sulfation of carboxymethylcellulose to achieve a high degree of substitution, 315
- Surfactants, synthesis of novel bis(glycosyl) ethers as bolaamphiphile surfactants, synthesis of novel, 171
- Synthesis of an important S-sialyl nucleoside analogue, an improved, 269
- Synthesis of novel bis(glycosyl) ethers as bolaamphiphile surfactants, 171
- Synthesis of GDP-3-acetamido- and GDP-3-azido-3-deoxy- α -D-mannose, 285
- Tannin, 229
- Trehalose as a common industrial-fermentation byproduct, 147
- Tungstate and molybdate complexes of volemitol, a ^{13}C and ^{183}NMR study, 161
- X-ray crystallography, 65