

Miroslav Kořánek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of new biodegradable hyaluronan alkyl derivatives. <i>Biopolymers</i> , 2006, 82, 74-79.	1.2	38
2	Preparation and crystal and molecular structure of 6-O-[(2S)-2,3-epoxypropyl]-1,2:3,4-di-O-isopropylidene- β -D-galactopyranose. Pyranoid ring conformation in 1,2:3,4-di-O-isopropylidene galactopyranose and related systems. <i>Carbohydrate Research</i> , 1994, 265, 237-248.	1.1	34
3	β -Amino- β -trifluoromethyl-phenylacetonitrile: A potential reagent for ^{19}F NMR determination of enantiomeric purity of acids. <i>Tetrahedron</i> , 1993, 49, 1541-1546.	1.0	31
4	On hydrogen bonding in 1,6-anhydro- β -D-glucopyranose (levoglucosan): X-ray and neutron diffraction and DFT study. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 912-918.	1.8	26
5	The Bucherer-“Bergs Multicomponent Synthesis of Hydantoins” Excellence in Simplicity. <i>Molecules</i> , 2021, 26, 4024.	1.7	24
6	A convenient synthesis of apiose. <i>Carbohydrate Research</i> , 1986, 146, 335-341.	1.1	22
7	Preparation and structure determination of two sugar amino acids via corresponding hydantoin derivatives. <i>Carbohydrate Research</i> , 2000, 328, 115-126.	1.1	22
8	Improved synthesis of an aldobiouronic acid related to hardwood xylans, and preparation of a derivative thereof suitable for linking to proteins. <i>Carbohydrate Research</i> , 1998, 310, 145-149.	1.1	18
9	4-Amino-4-cyano-4,6-dideoxy sugar derivatives from methyl 6-deoxy-2,3-O-isopropylidene- β -L-lyxo-hexopyranosid-4-ulose via Strecker-type reaction. <i>Carbohydrate Research</i> , 1998, 311, 1-9.	1.1	17
10	Synthesis and structure determination of some sugar amino acids related to alanine and 6-deoxymannojirimycin. <i>Carbohydrate Research</i> , 2001, 332, 351-361.	1.1	17
11	Synthesis and Molecular Structure of Methyl 4-O-methyl- β -D-glucopyranuronate. <i>Molecules</i> , 2005, 10, 251-258.	1.7	15
12	Preparation and characterization of biodegradable alkylether derivatives of hyaluronan. <i>Carbohydrate Polymers</i> , 2007, 69, 344-352.	5.1	13
13	An efficient and versatile synthesis of apiose and some C-1-aldehyde- and/or 2,3-O-protected derivatives. <i>Tetrahedron Letters</i> , 2002, 43, 5405-5406.	0.7	10
14	Synthesis and antimicrobial activity of some 2-alkyl-2H-1,4-benzothiazin-3(4H)-ones and 2-alkylbenzo[d]imidazo[2,1-b]-thiazolidin-3-ones. <i>Monatshefte für Chemie</i> , 1994, 125, 1011-1016.	0.9	9
15	A versatile route to 2,3-unsaturated sugar derivatives via corresponding 3-acetoxy-1-nitro-1-alkenes. <i>Tetrahedron Letters</i> , 1996, 37, 415-416.	0.7	9
16	Some non-anomerically C β -C-linked carbohydrate amino acids related to leucine-“synthesis and structure determination. <i>Carbohydrate Research</i> , 2003, 338, 1349-1357.	1.1	9
17	Characterisation and X-ray crystallography of products from the Bucherer-“Bergs reaction of methyl 2,3-O-isopropylidene- β -D-lyxo-pentodialdo-1,4-furanoside. <i>Carbohydrate Research</i> , 2003, 338, 1917-1924.	1.1	8
18	Synthesis and structure determination of some nonanomerically C β -C-linked serine glycoconjugates structurally related to mannojirimycin. <i>Carbohydrate Research</i> , 2004, 339, 2187-2195.	1.1	8

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19	Synthesis of saccharide precursors for preparation of potential inhibitors of glycosyltransferases. <i>Chemical Papers</i> , 2009, 63, .	1.0	6
20	Synthesis of a β -D-psicofuranosyl Sulfone and Inhibitory Activity Evaluation Against α -Acetylglucosaminyltransferase I. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 6179-6191.	1.2	6
21	Synthesis of 1,4-imino-L-lyxitols modified at C-5 and their evaluation as inhibitors of GH38 β -mannosidases. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2156-2162.	1.3	6
22	Synthesis of 2-acetyl-3-methyl-4H-1,4-benzothiazine and its derivatives. <i>Monatshefte für Chemie</i> , 1993, 124, 425-430.	0.9	5
23	Three isomeric forms of hydroxyphenyl-2-oxazoline: 2-(2-hydroxyphenyl)-2-oxazoline, 2-(3-hydroxyphenyl)-2-oxazoline and 2-(4-hydroxyphenyl)-2-oxazoline. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005, 61, o602-o606.	0.4	5
24	Synthesis and X-ray structure of a C5-C4-linked glucofuranose oxazolidin-2-one. <i>Carbohydrate Research</i> , 2009, 344, 2079-2082.	1.1	4
25	Identification of 3-hydroxy-6-methyl-2H-pyran-2-one from pyrolysis of phosphoric acid-treated cellulosic materials. <i>Carbohydrate Research</i> , 1980, 80, 333-335.	1.1	3
26	An alternative route to 2-deoxysugar and 2,3-unsaturated sugar derivatives via the corresponding 1-nitro-1-alkenes. <i>Tetrahedron Letters</i> , 2000, 41, 5403-5406.	0.7	3
27	Crystal Structure of Methyl 4-Acetamido-4-cyano-4,6-dideoxy-2,3-O-isopropylidene- β -D-allopyranoside. <i>Molecules</i> , 2000, 5, 219-226.	1.7	3
28	Intramolecular hydrogen bond and proton transfer in 3-(2-benzimidazolylthio)-2,4-pentanedione. Crystallographic evidence and theoretical calculations. <i>Zeitschrift für Kristallographie - Crystalline Materials</i> , 2002, 217, 217-222.	0.4	3
29	Some amino sugars structurally related to 6-deoxymannojirimycin precursors prepared from methyl 6-deoxy-2,3-O-isopropylidene- β -D-lyxo-hexofuranosid-5-ulose and methyl 2,3-O-isopropylidene- β -D-lyxo-pentodialdo-1,4-furanoside. <i>Carbohydrate Research</i> , 2002, 337, 663-672.	1.1	3
30	Reaction of selected carbohydrate aldehydes with benzylmagnesium halides: benzyl versus <i>o</i> -tolyl rearrangement. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 1942-1950.	1.3	3
31	Towards inhibitors of glycosyltransferases: A novel approach to the synthesis of 3-acetamido-3-deoxy-D-psicofuranose derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 1547-1552.	1.3	3
32	Synthesis of potential inhibitors of glycosyltransferases representing UDP-GlcNAc. <i>Chemical Papers</i> , 2015, 69, .	1.0	3
33	Synthesis of 4a-Carba- β -D-lyxofuranose Derivatives and Their Evaluation as Inhibitors of GH38 β -mannosidases. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 1114-1124.	1.2	3
34	Isopropylideneation of L-arabinose N,N-dimethylhydrazone. <i>Collection of Czechoslovak Chemical Communications</i> , 1985, 50, 1994-1999.	1.0	3
35	Reaction of Dimethylaminoethyl Derivatives of 1-Benzylidenisoindolin-3-one with Epoxides. <i>Collection of Czechoslovak Chemical Communications</i> , 1992, 57, 1516-1520.	1.0	2
36	Synthesis of 4-Carbamoyl-2-oxazolidinones C-4-Linked with a Saccharide Moiety via Bucherer-Bergs Reaction of Hexofuranos-5-uloses. <i>Synlett</i> , 2002, 2002, 1715-1717.	1.0	2

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37	Synthesis, Crystal Structure, and Conformation of Methyl 5-Oacetyl-5-cyano-6-deoxy-2,3-O-isopropylidene- β -L-gulofuranoside. <i>Molecules</i> , 2002, 7, 437-446.	1.7	2
38	2-(4-Hydroxyphenyl)-4,4-dimethyl-2-oxazoline: X-ray and density functional theory study. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2006, 62, o416-o418.	0.4	2
39	3-(4-Bromophenyl)-5-(4-dimethylaminophenyl)-1-phenyl-2-pyrazoline: X-ray and density functional theory (DFT) studies. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2007, 63, o340-o342.	0.4	2
40	Crystal Structure, Infrared Spectra and DFT Study of Benzyl 2,3-Anhydro- β -D-Ribopyranoside. <i>Journal of Chemical Crystallography</i> , 2011, 41, 167-174.	0.5	2
41	Cyanohydrins from methyl 6-deoxy-2,3-O-isopropylidene- β -L-lyxo-hexofuranosid-4-ulose via Bucherer-Bergs and Strecker reactions. <i>Carbohydrate Research</i> , 2013, 369, 31-37.	1.1	2
42	From sugars to modified nucleosides. <i>Arkivoc</i> , 2008, 2009, 122-142.	0.3	2
43	Structure of 7,14,15,17-tetraoxa-10-azapentacyclo[10.2.1.12,11.15,8.03,9]heptadeca-3,9-dien-2-ol, a pentacyclic alcohol prepared from levoglucosenone. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1989, 45, 1580-1583.	0.4	1
44	Crystal Structure of Methyl 4-amino-4-cyano-4,6-dideoxy-2,3-O-isopropylidene- β -L-talopyranoside. <i>Molecules</i> , 2000, 5, 1113-1120.	1.7	1
45	(4R)-1'-Acetyl-2,3-O-isopropylidene-methylspiro [4,6-dideoxy- β -D-ribo-hexopyranosid-4,5'-imidazolidin]-2',4'-dione. <i>Molecules</i> , 2000, 5, M140.	1.7	1
46	6-O-Cyanomethyl-1,2:3,4-di-O-isopropylidene- β -D-galactopyranose. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o779-o781.	0.2	1
47	Synthesis of hydroxymethyl analogues of mannostatin A and their evaluation as inhibitors of GH38 β -mannosidases. <i>New Journal of Chemistry</i> , 2021, 45, 13539-13548.	1.4	1
48	Aliphatic 1,2-alkanolamines as Inhibitors of β -glucanase from <i>Candida utilis</i> . <i>Folia Microbiologica</i> , 1993, 38, 392-394.	1.1	0
49	3-Dodecyl-5-methyl-2-oxazolidinthione. <i>Molecules</i> , 1997, 2, M40.	1.7	0
50	4-Dodecyl-6-methyl-2-morpholone. <i>Molecules</i> , 1997, 2, M42.	1.7	0
51	Methyl 2,3-O-Isopropylidene- α -D-mannofuranoside 5,6-Carbonate. <i>Molecules</i> , 1998, 3, M50.	1.7	0
52	1,2:4,5-Di-O-isopropylidene- β -D-erythro-hexo-2,3-diulo-2,6-pyranose. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2001, 57, o672-o674.	0.2	0
53	3-O-Benzoyl-1,2-O-isopropylidene- β -D-fructopyranose. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2172-o2174.	0.2	0
54	2-(1H-Benzimidazol-2-ylsulfanyl)butanoic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o2138-o2140.	0.2	0

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55	2,3:4,6-Di-O-isopropylidene- β -L-sorbofuranose and 2,3-O-isopropylidene- β -L-sorbofuranose. Acta Crystallographica Section C: Crystal Structure Communications, 2009, 65, o151-o154.	0.4	0
56	Samarium diiodide-induced reductive coupling of chiral nitrones with methyl acrylate. Arkivoc, 2008, 2008, 18-27.	0.3	0
57	3-Dodecyl-5-methyl-2-oxazolidinone. Molecules, 1997, 2, M41.	1.7	0