

Jens Ållgaard Duus

List of Publications by Year in descending order

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158
papers

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161
all docs

161
docs citations

161
times ranked

7505
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbohydrate Structural Determination by NMR Spectroscopy: A Modern Methods and Limitations. Chemical Reviews, 2000, 100, 4589-4614.	23.0	656
2	A Conformational Study of Hydroxymethyl Groups in Carbohydrates Investigated by ^1H NMR Spectroscopy. Journal of Carbohydrate Chemistry, 1994, 13, 513-543.	0.4	265
3	Heteronuclear Two-Bond Correlation: Suppressing Heteronuclear Three-Bond or Higher NMR Correlations while Enhancing Two-Bond Correlations Even for Vanishing ^2JCH . Journal of the American Chemical Society, 2005, 127, 6154-6155.	6.6	208
4	Spin-State-Selective Excitation. Application for E.COSY-Type Measurement of ^1H Coupling Constants. Journal of Magnetic Resonance, 1997, 128, 92-97.	1.2	150
5	Structures of Lipopolysaccharides from <i>Klebsiella pneumoniae</i> . Journal of Biological Chemistry, 2002, 277, 25070-25081.	1.6	146
6	Paramagnetic NMR Spectroscopy of Microperoxidase-8. Journal of the American Chemical Society, 1997, 119, 1-5.	6.6	142
7	Integration of spin-state-selective excitation into 2D NMR correlation experiments with the heteronuclear $^2\text{J}/^3\text{J}$ pi rotations for ^1JXH -resolved E.COSY-type measurements of heteronuclear coupling constants in proteins. Journal of Biomolecular NMR, 1997, 10, 89-94.	1.6	134
8	Lipase-catalysed synthesis of glucose fatty acid esters in tert-butanol. Biotechnology Letters, 1999, 21, 275-280.	1.1	113
9	Anaerobic chlorophyll isocyclic ring formation in <i>Rhodobacter capsulatus</i> requires a cobalamin cofactor. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6908-6913.	3.3	106
10	Two Novel Types of O-Glycans on the Mugwort Pollen Allergen Art v 1 and Their Role in Antibody Binding. Journal of Biological Chemistry, 2005, 280, 7932-7940.	1.6	106
11	Cytotoxic Activity of Some Phenanthroindolizidine N-Oxide Alkaloids from <i>Cynanchum vincetoxicum</i> . Journal of Natural Products, 2000, 63, 1584-1586.	1.5	96
12	An NMR-based metabonomic investigation on effects of milk and meat protein diets given to 8-year-old boys. British Journal of Nutrition, 2007, 97, 758-763.	1.2	96
13	Quantification of Organic and Amino Acids in Beer by ^1H NMR Spectroscopy. Analytical Chemistry, 2004, 76, 4790-4798.	3.2	90
14	Quantification of Intracellular Metabolic Fluxes from Fractional Enrichment and ^{13}C - ^{13}C Coupling Constraints on the Isotopomer Distribution in Labeled Biomass Components. Metabolic Engineering, 1999, 1, 166-179.	3.6	89
15	Metabolic pathway visualization in living yeast by DNP-NMR. Molecular BioSystems, 2011, 7, 2834.	2.9	87
16	Physical Properties of Poly(ethylene glycol) (PEG)-Based Resins for Combinatorial Solid Phase Organic Chemistry: A Comparison of PEG-Cross-Linked and PEG-Grafted Resins. ACS Combinatorial Science, 2000, 2, 108-119.	3.3	86
17	Editing of ^2H BC NMR spectra. Magnetic Resonance in Chemistry, 2005, 43, 971-974.	1.1	78
18	A New Allergen from Ragweed (<i>Ambrosia artemisiifolia</i>) with Homology to Art v 1 from Mugwort. Journal of Biological Chemistry, 2010, 285, 27192-27200.	1.6	77

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19	Structural characterization of homogalacturonan by NMR spectroscopy—assignment of reference compounds. <i>Carbohydrate Research</i> , 2008, 343, 2830-2833.	1.1	75
20	Cluster sialoside inhibitors for influenza virus: synthesis, NMR, and biological studies.. <i>Journal of the American Chemical Society</i> , 1992, 114, 8363-8375.	6.6	74
21	A novel type of arabinoxylan arabinofuranohydrolase isolated from germinated barley. <i>FEBS Journal</i> , 2000, 267, 6633-6641.	0.2	73
22	H2BC: a new technique for NMR analysis of complex carbohydrates. <i>Carbohydrate Research</i> , 2006, 341, 550-556.	1.1	72
23	Metabolomic Signatures of Inbreeding at Benign and Stressful Temperatures in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2008, 180, 1233-1243.	1.2	71
24	Imaging of branched chain amino acid metabolism in tumors with hyperpolarized ¹³ C ketoisocaproate. <i>International Journal of Cancer</i> , 2010, 127, 729-736.	2.3	63
25	Real-time detection of central carbon metabolism in living <i>Escherichia coli</i> and its response to perturbations. <i>FEBS Letters</i> , 2011, 585, 3133-3138.	1.3	63
26	Improved Characterization of Nod Factors and Genetically Based Variation in LysM Receptor Domains Identify Amino Acids Expendable for Nod Factor Recognition in <i>Lotus</i> spp.. <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 58-66.	1.4	62
27	Development of Dissolution DNP-MR Substrates for Metabolic Research. <i>Applied Magnetic Resonance</i> , 2012, 43, 223-236.	0.6	60
28	Study of molecular interactions with ¹³ C DNP-NMR. <i>Journal of Magnetic Resonance</i> , 2010, 203, 52-56.	1.2	59
29	Engineering two-dimensional layered nanomaterials for wearable biomedical sensors and power devices. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1944-1986.	3.2	59
30	Chemical and biological characterization of pectin-like polysaccharides from the bark of the Malian medicinal tree <i>Cola cordifolia</i> . <i>Carbohydrate Polymers</i> , 2012, 89, 259-268.	5.1	58
31	NMR and conformational analysis of ganglioside GD1a. <i>Journal of the American Chemical Society</i> , 1991, 113, 3236-3246.	6.6	56
32	Complete Structures of <i>Bordetella bronchiseptica</i> and <i>Bordetella parapertussis</i> Lipopolysaccharides. <i>Journal of Biological Chemistry</i> , 2006, 281, 18135-18144.	1.6	55
33	Comparison of Aqueous Molecular Dynamics with NMR Relaxation and Residual Dipolar Couplings Favors Internal Motion in a Mannose Oligosaccharide. <i>Journal of the American Chemical Society</i> , 2001, 123, 4792-4802.	6.6	54
34	Efficient chemoenzymatic oligosaccharide synthesis by reverse phosphorolysis using cellobiose phosphorylase and cellodextrin phosphorylase from <i>Clostridium thermocellum</i> . <i>Biochimie</i> , 2010, 92, 1818-1826.	1.3	53
35	Synthesis of cluster sialoside inhibitors for influenza virus. <i>Journal of the American Chemical Society</i> , 1991, 113, 5865-5866.	6.6	52
36	The maltodextrin transport system and metabolism in <i>Lactobacillus acidophilus</i> NCFM and production of novel ¹³ C-glucosides through reverse phosphorolysis by maltose phosphorylase. <i>FEBS Journal</i> , 2009, 276, 7353-7365.	2.2	52

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37	Hyperpolarized Amino Acids for In Vivo Assays of Transaminase Activity. <i>Chemistry - A European Journal</i> , 2009, 15, 10010-10012.	1.7	50
38	Epitope Diversity of N-Glycans from Bovine Peripheral Myelin Glycoprotein PO Revealed by Mass Spectrometry and Nano Probe Magic Angle Spinning ¹ H NMR Spectroscopy. <i>Journal of Biological Chemistry</i> , 2001, 276, 30834-30844.	1.6	49
39	Structural characterization of bioactive heteropolysaccharides from the medicinal fungus <i>Inonotus obliquus</i> (Chaga). <i>Carbohydrate Polymers</i> , 2018, 185, 27-40.	5.1	48
40	A Novel Alkaloid Serantrypinone and the Spiro Azaphilone Daldinin D from <i>Penicillium thymicola</i> . <i>Journal of Natural Products</i> , 2001, 64, 1590-1592.	1.5	47
41	Discovery of New Natural Products by Application of X-hitting, a Novel Algorithm for Automated Comparison of Full UV Spectra, Combined with Structural Determination by NMR Spectroscopy. <i>Journal of Natural Products</i> , 2005, 68, 871-874.	1.5	47
42	Chemodiversity of Ladder-Frame Pymnesin Polyethers in <i>Pymnesium parvum</i> . <i>Journal of Natural Products</i> , 2016, 79, 2250-2256.	1.5	47
43	Assignment of structures to oligosaccharides produced by enzymic degradation of a ¹² -D-glucan from barley by ¹ H- and ¹³ C-n.m.r. spectroscopy. <i>Carbohydrate Research</i> , 1991, 211, 219-233.	1.1	46
44	The structure of the linkage between the O-specific polysaccharide and the core region of the lipopolysaccharide from <i>Salmonella enterica</i> serovar Typhimurium revisited. <i>FEBS Journal</i> , 2000, 267, 2014-2027.	0.2	46
45	<i>Penicillium digitatum</i> Metabolites on Synthetic Media and Citrus Fruits. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 6361-6365.	2.4	45
46	Purification and structure characterization of the active component in the pneumococcal 22F polysaccharide capsule used for adsorption in pneumococcal enzyme-linked immunosorbent assays. <i>Vaccine</i> , 2007, 25, 6490-6500.	1.7	45
47	Effect of Magnetic Field Strength on NMR-Based Metabonomic Human Urine Data. Comparative Study of 250, 400, 500, and 800 MHz. <i>Analytical Chemistry</i> , 2007, 79, 7110-7115.	3.2	45
48	Synthesis, Enzymic, and NMR Studies of Novel Sialoside Probes: Unprecedented, Selective Neuraminidase Hydrolysis of and Inhibition by C-6-(methyl)-Gal Sialosides. <i>Journal of the American Chemical Society</i> , 1994, 116, 1616-1634.	6.6	44
49	Oligosaccharides Implicated in Recognition Are Predicted to Have Relatively Ordered Structures. <i>Biochemistry</i> , 2004, 43, 5853-5863.	1.2	44
50	Detection of low-populated reaction intermediates with hyperpolarized NMR. <i>Chemical Communications</i> , 2009, , 5168.	2.2	44
51	Conformational equilibria of 4-thiomaltose and nitrogen analogues of maltose in aqueous solutions. <i>Carbohydrate Research</i> , 1994, 253, 51-67.	1.1	41
52	Structural, Genetic, and Serological Elucidation of <i>Streptococcus pneumoniae</i> Serogroup 24 Serotypes: Discovery of a New Serotype, 24C, with a Variable Capsule Structure. <i>Journal of Clinical Microbiology</i> , 2021, 59, e0054021.	1.8	41
53	The structure of the carbohydrate backbone of the lipopolysaccharide from <i>Acinetobacter baumannii</i> strain ATCC 19606. <i>FEBS Journal</i> , 2002, 269, 422-430.	0.2	40
54	Inclusions of flavonoid 3-deoxyanthocyanidins in <i>Sorghum bicolor</i> self-organize into spherical structures. <i>Physiological and Molecular Plant Pathology</i> , 2004, 65, 187-196.	1.3	39

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55	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of oligosaccharides derivatized by reductive amination and N,N-dimethylation. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1801-1805.	0.7	38
56	<i>Aspergillus nidulans</i> α -D-galactosidase of glycoside hydrolase family 36 catalyses the formation of α -D-galactooligosaccharides by transglycosylation. <i>FEBS Journal</i> , 2010, 277, 3538-3551.	2.2	38
57	Impact of ZSM-5 Deactivation on Bio-Oil Quality during Upgrading of Straw Derived Pyrolysis Vapors. <i>Energy & Fuels</i> , 2019, 33, 397-412.	2.5	38
58	New methods for measuring ^1H - ^{31}P coupling constants in nucleic acids. <i>Magnetic Resonance in Chemistry</i> , 2000, 38, 692-695.	1.1	37
59	Quantitative dynamic nuclear polarization ^1H NMR on blood plasma for assays of drug metabolism. <i>NMR in Biomedicine</i> , 2011, 24, 96-103.	1.6	37
60	Characterization of a Novel Branched Tetrasaccharide of 3-Deoxy-d-manno-oct-2-ulopyranosonic Acid. <i>Journal of Biological Chemistry</i> , 1998, 273, 28122-28131.	1.6	35
61	Application of nano-probe NMR for structure determination of low nanomole amounts of arabinoxylan oligosaccharides fractionated by analytical HPAEC-PAD. <i>Carbohydrate Research</i> , 2000, 328, 375-382.	1.1	35
62	Characterization of the lipopolysaccharide and beta-glucan of the fish pathogen <i>Francisella victoria</i> . <i>FEBS Journal</i> , 2006, 273, 3002-3013.	2.2	35
63	Enhancing bio-oil quality and energy recovery by atmospheric hydrodeoxygenation of wheat straw pyrolysis vapors using Pt and Mo-based catalysts. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1991-2008.	2.5	35
64	The extracellular polysaccharide of <i>Pichia (Hansenula) holstii</i> NRRL Y-2448: The structure of the phosphomannan backbone. <i>Carbohydrate Research</i> , 1996, 293, 101-117.	1.1	34
65	A transglycosylating 1,3(4)- β -D-glucanase from <i>Rhodothermus marinus</i> . <i>FEBS Journal</i> , 2000, 267, 361-369.	0.2	34
66	Specific Recognition of Disaccharides in Water by an Artificial Bicyclic Carbohydrate Receptor. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5003-5009.	1.2	34
67	Direct Observation of Metabolic Differences in Living <i>Escherichia Coli</i> Strains K12 and BL21. <i>ChemBioChem</i> , 2012, 13, 308-310.	1.3	34
68	Biobased Cationically Polymerizable Epoxy Thermosets from Furan and Fatty Acid Derivatives. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9442-9450.	3.2	34
69	Nuclear magnetic resonance ^1H -based metabolomics reveals strong sex effect on plasma metabolism in 17-year-old Scandinavians and correlation to retrospective infant plasma parameters. <i>Metabolism: Clinical and Experimental</i> , 2009, 58, 1039-1045.	1.5	33
70	Characterization and Identification of the most Refractory Nitrogen Compounds in Hydroprocessed Vacuum Gas Oil. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 3184-3193.	1.8	33
71	Angiotensin Converting Enzyme (ACE) Inhibitors from <i>Jasminum azoricum</i> and <i>Jasminum grandiflorum</i> . <i>Planta Medica</i> , 1998, 64, 246-250.	0.7	32
72	Isolation and characterization of non-labeled and ^{13}C -labeled mannans from <i>Pichia pastoris</i> yeast. <i>Carbohydrate Research</i> , 2000, 325, 216-221.	1.1	32

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73	Solid-Phase Glycosylation of Peptide Templates and On-Bead MAS-NMR Analysis: Perspectives for Glycopeptide Libraries. <i>Chemistry - A European Journal</i> , 2001, 7, 3584.	1.7	32
74	Quantitative conformational analysis of the core region of N-glycans using residual dipolar couplings, aqueous molecular dynamics, and steric alignment. , 2001, 20, 351-363.		31
75	Structural characterisation of a complex heteroglycan from the cyanobacterium <i>Nostoc commune</i> . <i>Carbohydrate Polymers</i> , 2013, 91, 370-376.	5.1	31
76	Deoxygenation of wheat straw fast pyrolysis vapors over Na-Al ₂ O ₃ catalyst for production of bio-oil with low acidity. <i>Chemical Engineering Journal</i> , 2020, 394, 124878.	6.6	31
77	The structure of the glucuronoxylomannan produced by culinary-medicinal yellow brain mushroom (<i>Tremella mesenterica</i> Ritz.:Fr., <i>Heterobasidiomycetes</i>) grown as one cell biomass in submerged culture. <i>Carbohydrate Research</i> , 2004, 339, 1483-1489.	1.1	30
78	Seasonal Changes in the Metabolic Fingerprint of 21 Grass and Legume Cultivars Studied by Nuclear Magnetic Resonance-Based Metabolomics. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 4336-4341.	2.4	30
79	Catalytic deoxygenation of vapors obtained from ablative fast pyrolysis of wheat straw using mesoporous HZSM-5. <i>Fuel Processing Technology</i> , 2019, 194, 106119.	3.7	30
80	Rational Enzyme Design without Structural Knowledge: A Sequence-Based Approach for Efficient Generation of Transglycosylases. <i>Chemistry - A European Journal</i> , 2021, 27, 10323-10334.	1.7	29
81	Analysis of conformationally restricted models for the (1 → 6)-branch of asparagine-linked oligosaccharides by n.m.r.-spectroscopy and HSEA calculation. <i>Carbohydrate Research</i> , 1992, 228, 1-20.	1.1	28
82	Structural characterisation of a highly branched galactomannan from the lichen <i>Peltigera canina</i> by methylation analysis and NMR-spectroscopy. <i>Carbohydrate Polymers</i> , 2006, 63, 54-60.	5.1	28
83	Characterization of a novel <i>Salmonella Typhimurium</i> chitinase which hydrolyzes chitin, chitooligosaccharides and an N-acetylactosamine conjugate. <i>Glycobiology</i> , 2011, 21, 426-436.	1.3	27
84	Studies Directed to Understanding the Structure of Chitosan-Metal Complexes: Investigations of Mono- and Disaccharide Models with Platinum(II) Group Metals. <i>Inorganic Chemistry</i> , 2007, 46, 4326-4335.	1.9	26
85	Deoxygenation of Wheat Straw Fast Pyrolysis Vapors using HZSM-5, Al ₂ O ₃ , HZSM-5/Al ₂ O ₃ Extrudates, and Desilicated HZSM-5/Al ₂ O ₃ Extrudates. <i>Energy & Fuels</i> , 2019, 33, 6405-6420.	2.5	26
86	A Diverse Range of Bacterial and Eukaryotic Chitinases Hydrolyzes the LacNAc (Gal ² 1-4GlcNAc) and LacdiNAc (GalNAc ² 1-4GlcNAc) Motifs Found on Vertebrate and Insect Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 5354-5366.	1.6	25
87	Co-processing of wood and wheat straw derived pyrolysis oils with FCC feed-Product distribution and effect of deoxygenation. <i>Fuel</i> , 2020, 260, 116312.	3.4	25
88	Enzymatic synthesis of Gb3 and iGb3 ceramides. <i>Carbohydrate Research</i> , 2010, 345, 1384-1388.	1.1	24
89	Rational engineering of <i>Lactobacillus acidophilus</i> NCFM maltose phosphorylase into either trehalose or kojibiose dual specificity phosphorylase. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 781-787.	1.0	24
90	Cloning and comparison of phylogenetically related chitinases from <i>Listeria monocytogenes</i> EGD and <i>Enterococcus faecalis</i> V583. <i>Journal of Applied Microbiology</i> , 2009, 107, 2080-2087.	1.4	23

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91	Fluorescence Energy-Transfer Probes of Conformation in Peptides: The 2-Aminobenzamide/Nitrotyrosine Pair. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6413-6418.	1.2	22
92	Carbohydrate chemistry: synthetic and structural challenges towards the end of the 20th century. <i>Pure and Applied Chemistry</i> , 1999, 71, 755-765.	0.9	22
93	Structural characterisation of novel lichen heteroglycans by NMR spectroscopy and methylation analysis. <i>Carbohydrate Research</i> , 2006, 341, 2449-2455.	1.1	22
94	Spectroscopic studies of the interactions between \hat{I}^2 -lactoglobulin and bovine submaxillary mucin. <i>Food Hydrocolloids</i> , 2015, 50, 203-210.	5.6	21
95	Discovery and description of a new serogroup 7 <i>Streptococcus pneumoniae</i> serotype, 7D, and structural analysis of 7C and 7D. <i>Carbohydrate Research</i> , 2018, 463, 24-31.	1.1	21
96	Investigation of curing rates of bio-based thiol-ene films from diallyl 2,5-furandicarboxylate. <i>European Polymer Journal</i> , 2018, 102, 1-8.	2.6	21
97	Bilirubin oxidase oriented on novel type three-dimensional biocathodes with reduced graphene aggregation for biocathode. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112500.	5.3	20
98	NMR and MS evidences for a random assembled O-specific chain structure in the LPS of the bacterium <i>Xanthomonas campestris</i> pv. <i>Vitians</i> . <i>FEBS Journal</i> , 2002, 269, 4185-4193.	0.2	19
99	Podospermic acid, 1,3,5-tri-O-(7,8-dihydrocaffeoyl)quinic acid from <i>Podospermum laciniatum</i> (Asteraceae). <i>Tetrahedron Letters</i> , 2005, 46, 1291-1294.	0.7	19
100	Structural characterization of the acid-degraded secondary cell wall polymer of <i>Geobacillus stearothermophilus</i> PV72/p2. <i>Carbohydrate Research</i> , 2008, 343, 1346-1358.	1.1	19
101	Medium dependant production of corymbiferone a novel product from <i>Penicillium hordei</i> cultured on plant tissue agar. <i>Tetrahedron Letters</i> , 2005, 46, 3225-3228.	0.7	18
102	A nuclear magnetic resonance spectroscopic and conformational study of eight pseudo-trehaloses (d-glucopyranosyl 5a-carba-d- and -l-glucopyranosides). <i>Carbohydrate Research</i> , 1991, 209, 51-65.	1.1	17
103	Transplanting Two Unique \hat{I}^2 -Glucanase Catalytic Activities Into One Multienzyme, Which Forms Glucose. <i>Nature Biotechnology</i> , 1996, 14, 71-76.	9.4	17
104	Acetyl Substitution of the O-Specific Caryan from the Lipopolysaccharide of <i>Pseudomonas (Burkholderia) caryophylli</i> Leads to a Block Pattern. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 156-160.	7.2	17
105	Single-bead structure elucidation. Requirements for analysis of combinatorial solid-phase libraries by Nanoprobe MAS-NMR spectroscopy. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 1167-1171.	1.3	17
106	The structure of the polysaccharide part of the LPS from <i>Serratia marcescens</i> serotype O19, including linkage region to the core and the residue at the non-reducing end. <i>Carbohydrate Research</i> , 2003, 338, 2757-2761.	1.1	17
107	Hydrolysis of <i>Nothogenia erinacea</i> xylan by xylanases from families 10 and 11. <i>Carbohydrate Research</i> , 2004, 339, 1047-1060.	1.1	17
108	Atlantinone A, a Meroterpenoid Produced by <i>Penicillium ribeum</i> and Several Cheese Associated <i>Penicillium</i> Species. <i>Metabolites</i> , 2012, 2, 214-220.	1.3	17

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109	Internally quenched fluorogenic, β -helical dimeric peptides and glycopeptides for the evaluation of the effect of glycosylation on the conformation of peptides. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 1365-1374.	0.9	16
110	Characterization of reduced iso- β -acids derived from hops (<i>Humulus lupulus</i>) by NMR. <i>Magnetic Resonance in Chemistry</i> , 2003, 41, 660-670.	1.1	16
111	Real-Time Detection of Intermediates in Rhodium-Catalyzed Hydrogenation of Alkynes and Alkenes by Dissolution DNP. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9949-9956.	1.5	15
112	Synthesis and structural studies of branched 2-linked trisaccharides related to blood group determinants. <i>Carbohydrate Research</i> , 1996, 288, 25-44.	1.1	14
113	Two-step enzymatic synthesis of maltooligosaccharide esters. <i>Carbohydrate Research</i> , 2000, 329, 57-63.	1.1	13
114	Lumpidin, a Novel Biomarker of Some Ochratoxin A Producing <i>Penicillia</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 5081-5084.	2.4	13
115	In vitro growth of four individual human gut bacteria on oligosaccharides produced by chemoenzymatic synthesis. <i>Food and Function</i> , 2013, 4, 784.	2.1	13
116	Optimal structuring of nitrogen-doped hybrid-dimensional nanocarbons for high-performance flexible solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7501-7515.	5.2	13
117	Synthesis and structural studies of branched 2-linked trisaccharides related to blood group determinants. <i>Carbohydrate Research</i> , 1996, 288, 25-44.	1.1	12
118	Tragoponol, a dimeric dihydroisocoumarin from <i>Tragopogon porrifolius</i> L. <i>Tetrahedron Letters</i> , 2010, 51, 1390-1393.	0.7	12
119	Discovery of Intermediates of β -Galactosidase Catalyzed Hydrolysis Using dDNP NMR. <i>Journal of the American Chemical Society</i> , 2018, 140, 3030-3034.	6.6	12
120	Identification and Characterization of a β -N-Acetylhexosaminidase with a Biosynthetic Activity from the Marine Bacterium <i>Paraglaciecola hydrolytica</i> S66T. <i>International Journal of Molecular Sciences</i> , 2020, 21, 417.	1.8	12
121	Acceptor-substrate recognition by N-acetyl-glucosaminyltransferase-V: Role of the mannose residue in β -D-GlcNAc(1 \rightarrow 2) β -D-Man(1 \rightarrow 6) β -D-GlcOR. <i>Tetrahedron: Asymmetry</i> , 1994, 5, 2415-2435.	1.8	11
122	Detection of 3-hydroxykynurenine in a plant pathogenic fungus. <i>Biochemical Journal</i> , 2003, 371, 783-788.	1.7	11
123	Hesseltin A, a Novel Antiviral Metabolite from <i>Penicillium hesseltinei</i> . <i>Organic Letters</i> , 2004, 6, 3441-3443.	2.4	11
124	Structural characterisation of a new O-methylated heteroglycan, colleman, from the cyanolichen <i>Collema flaccidum</i> . <i>Carbohydrate Polymers</i> , 2010, 80, 799-807.	5.1	11
125	Alginate Trisaccharide Binding Sites on the Surface of β -Lactoglobulin Identified by NMR Spectroscopy: Implications for Molecular Network Formation. <i>ACS Omega</i> , 2019, 4, 6165-6174.	1.6	11
126	Liquefaction of Lignosulfonate in Supercritical Ethanol Using Alumina-Supported NiMo Catalyst. <i>Energy & Fuels</i> , 2019, 33, 1196-1209.	2.5	11

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127	Structure of a novel antifouling epoxy cembrenoid diterpene from a sarcophyton sp.. Tetrahedron Letters, 1991, 32, 2825-2826.	0.7	10
128	Solvent assisted catalytic conversion of beech wood and organosolv lignin over NiMo/β-Al ₂ O ₃ . Sustainable Energy and Fuels, 2020, 4, 1844-1854.	2.5	10
129	Evaluation of the effect of glycosylation on the enzymic hydrolysis of peptides. Journal of the Chemical Society Perkin Transactions 1, 1999, , 1445-1452.	0.9	9
130	Synthesis of 3-C-hydroxymethyl- and 3-deoxyisofagomine and investigation of their binding to β-glucosidase. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 667-670.	1.3	9
131	Substrate specificity of the bovine serum amine oxidase and in situ characterisation of aminoaldehydes by NMR spectroscopy. Bioorganic and Medicinal Chemistry, 2005, 13, 3783-3796.	1.4	9
132	Antibody glycans wiggle and jiggle. Nature Chemical Biology, 2011, 7, 131-132.	3.9	9
133	Catalytic upgrading of tars generated in a 100ÅkWh low temperature circulating fluidized bed gasifier for production of liquid bio-fuels in a polygeneration scheme. Energy Conversion and Management, 2020, 207, 112538.	4.4	9
134	Family 1 Glycosyltransferase UGT706F8 from <i>Zea mays</i> Selectively Catalyzes the Synthesis of Silibinin 7-O-β-D-Glucoside. ACS Sustainable Chemistry and Engineering, 2022, 10, 5078-5083.	3.2	9
135	An NMR spectroscopic and conformational study of 12 pseudo-disaccharides (d-glucopyranosyl-5a-carba-d- and -l-glucofuranoses). Carbohydrate Research, 1994, 252, 1-18.	1.1	7
136	Adiabatic Low-Pass J Filters for Artifact Suppression in Heteronuclear NMR. ChemPhysChem, 2009, 10, 893-895.	1.0	7
137	Recent progress in heteronuclear long-range NMR of complex carbohydrates: 3D H2BC and clean HMBC. Carbohydrate Research, 2009, 344, 2274-2278.	1.1	7
138	NMR assignment of structural motifs in intact β-limit dextrin and its α-amylase degradation products in situ. Carbohydrate Research, 2012, 359, 76-80.	1.1	7
139	Binding Sites for Oligosaccharide Repeats from Lactic Acid Bacteria Exopolysaccharides on Bovine β-Lactoglobulin Identified by NMR Spectroscopy. ACS Omega, 2021, 6, 9039-9052.	1.6	7
140	Biosynthetic Studies of the Glycopeptide Teicoplanin by 1H and 13C NMR. Journal of Biological Chemistry, 2000, 275, 6201-6206.	1.6	6
141	3D H2BC: A novel experiment for small-molecule and biomolecular NMR at natural isotopic abundance. Journal of Magnetic Resonance, 2009, 200, 340-343.	1.2	6
142	Metabolic profiling of heat or anoxic stress in mouse C2C12 myotubes using multinuclear magnetic resonance spectroscopy. Metabolism: Clinical and Experimental, 2010, 59, 814-823.	1.5	6
143	Structural, Biosynthetic, and Serological Cross-Reactive Elucidation of Capsular Polysaccharides from Streptococcus pneumoniae Serogroup 16. Journal of Bacteriology, 2019, 201, .	1.0	6
144	Structure of the exceptionally large nonrepetitive carbohydrate backbone of the lipopolysaccharide of Pectinatus frisingensis strain VTT E-82164. FEBS Journal, 2003, 270, 3036-3046.	0.2	5

#	ARTICLE	IF	CITATIONS
145	Hesseltins Bâ€“C, novel meroterpenoids from a new <i>Penicillium</i> species. <i>Tetrahedron Letters</i> , 2011, 52, 598-601.	0.7	5
146	Unexpected Anomeric Acceptor Preference Observed Using dDNP NMR for Transglycosylation Studies of Î²-Galactosidases. <i>Biochemistry</i> , 2020, 59, 2903-2908.	1.2	5
147	A bioisosteric oligosaccharide mimetic based on isofagomine-type monomers. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 2764-2773.	1.3	4
148	Proton nuclear magnetic resonance spectroscopy based investigation on propylene glycol toxicosis in a Holstein cow. <i>Acta Veterinaria Scandinavica</i> , 2009, 51, 25.	0.5	4
149	Oxidative Stress-Induced Metabolic Changes in Mouse C2C12 Myotubes Studied with High-Resolution ¹³ C, ¹ H, and ³¹ P NMR Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 1918-1926.	2.4	4
150	Synthesis and structural studies of â€œbranchedâ€•2-linked trisaccharides related to h-type 2 blood group determinants. <i>Israel Journal of Chemistry</i> , 2000, 40, 223-239.	1.0	3
151	Synthesis of C-8 Deuterated Glycosides of 3-Deoxy-D-manno-oct-2-ulosonic Acid (Kdo) Related to Chlamydial Lipopolysaccharides. <i>Monatshefte FÃ¼r Chemie</i> , 2002, 133, 561-570.	0.9	2
152	Structural, biosynthetic and serological cross-reactive elucidation of capsular polysaccharides from <i>Streptococcus pneumoniae</i> serogroup 28. <i>Carbohydrate Polymers</i> , 2021, 254, 117323.	5.1	2
153	Full NMR assignment, revised structure and biosynthetic analysis for the capsular polysaccharide from <i>Streptococcus Pneumoniae</i> serotype 15F. <i>Carbohydrate Research</i> , 2021, 508, 108418.	1.1	1
154	Metabolic Responses to Heat, Anoxia, or Oxidative Stress Elucidated in Muscle Cell Cultures using ¹³ C NMR Spectroscopy. <i>Special Publication - Royal Society of Chemistry</i> , 2011, , 117-123.	0.0	0
155	Synthesis of C-8 Deuterated Glycosides of 3-Deoxy-D-manno-oct-2-ulosonic Acid (Kdo) Related to Chlamydial Lipopolysaccharides. , 2002, , 211-220.		0
156	NMR and Conformational Analysis of Two Dihydroxydecalin alpha-D-Glucopyranosides.. <i>Acta Chemica Scandinavica</i> , 1991, 45, 978-980.	0.7	0
157	SPOCC resins: Polar and chemically inert resins for organic synthesis and library enzyme assays. , 2002, , 176-178.		0
158	Use of State-of-the-Art NMR in Beer Production and Characterization. <i>Special Publication - Royal Society of Chemistry</i> , 0, , 91-95.	0.0	0