

Gran Widmalm

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

392
papers

8,648
citations

43
h-index

68
g-index

410
ext. papers

9,764
ext. citations

4.1
avg. IF

6.03
L-index

#	Paper	IF	Citations
392	PplD is a de-N-acetylase of the cell wall linkage unit of streptococcal rhamnopolysaccharides.. <i>Nature Communications</i> , 2022 , 13, 590	17.4	1
391	Complete H and C NMR chemical shift assignments of mono-to tetrasaccharides as basis for NMR chemical shift predictions of oligo- and polysaccharides using the computer program CASPER.. <i>Carbohydrate Research</i> , 2022 , 513, 108528	2.9	0
390	Parallel NMR Supersequences: Ten Spectra in a Single Measurement. <i>Jacs Au</i> , 2021 , 1, 1892-1897		4
389	O-Methylation in Carbohydrates: An NMR and MD Simulation Study with Application to Methylcellulose. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 11967-11979	3.4	0
388	Structure, Dynamics, and Interactions of GPI-Anchored Human Glypican-1 with Heparan Sulfates in a Membrane. <i>Glycobiology</i> , 2021 , 31, 593-602	5.8	1
387	A detailed picture of a protein-carbohydrate hydrogen-bonding network revealed by NMR and MD simulations. <i>Glycobiology</i> , 2021 , 31, 508-518	5.8	3
386	Tautomers of N-acetyl-d-allosamine: an NMR and computational chemistry study. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 7190-7201	3.9	2
385	Structure of a full-length bacterial polysaccharide co-polymerase. <i>Nature Communications</i> , 2021 , 12, 36917.4	6	
384	General NMR Spectroscopy of Carbohydrates and Conformational Analysis in Solution 2021 , 340-373		3
383	Influences of Lipid A Types on LPS Bilayer Properties. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 2105-2112	12	2
382	CHARMM-GUI Supports Hydrogen Mass Repartitioning and Different Protonation States of Phosphates in Lipopolysaccharides. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 831-839	6.1	10
381	Modeling and Simulation of Bacterial Outer Membranes with Lipopolysaccharides and Enterobacterial Common Antigen. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 5948-5956	3.4	9
380	Increasing the Affinity of an O-Antigen Polysaccharide Binding Site in Shigella flexneri Bacteriophage Sf6 Tailspike Protein. <i>Chemistry - A European Journal</i> , 2020 , 26, 7263-7273	4.8	3
379	Structural analysis of the O-antigen polysaccharide from Escherichia coli O188. <i>Carbohydrate Research</i> , 2020 , 498, 108051	2.9	5
378	O176 LPS structure and dynamics: A NMR spectroscopy and MD simulation study. <i>Current Research in Structural Biology</i> , 2020 , 2, 79-88	2.8	5
377	An OregonGreen488-labelled d-amino acid for visualizing peptidoglycan by super-resolution STED nanoscopy. <i>Microbiology (United Kingdom)</i> , 2020 , 166, 1129-1135	2.9	2
376	Glycosidic linkage flexibility: The τ torsion angle has a bimodal distribution in β -Rhap-(1 \rightarrow 2)- β -Rhap-OMe as deduced from C NMR spin relaxation. <i>Journal of Chemical Physics</i> , 2020 , 152, 035103	3.9	4

375	Preferred conformations of lipooligosaccharides and oligosaccharides of <i>Moraxella catarrhalis</i> . <i>Glycobiology</i> , 2020 , 30, 86-94	5.8	4
374	Synaptotagmin Binding to Botulinum Neurotoxins. <i>Biochemistry</i> , 2020 , 59, 491-498	3.2	2
373	Structure and genetics of <i>Escherichia coli</i> O antigens. <i>FEMS Microbiology Reviews</i> , 2020 , 44, 655-683	15.1	49
372	Solution Structure of Mannobioses Unravalled by Means of Raman Optical Activity. <i>ChemPhysChem</i> , 2019 , 20, 695-705	3.2	10
371	Inter-residual Hydrogen Bonding in Carbohydrates Unraveled by NMR Spectroscopy and Molecular Dynamics Simulations. <i>ChemBioChem</i> , 2019 , 20, 2519-2528	3.8	7
370	Physical Properties of Bacterial Outer Membrane Models: Neutron Reflectometry & Molecular Simulation. <i>Biophysical Journal</i> , 2019 , 116, 1095-1104	2.9	16
369	Discovery of glycerol phosphate modification on streptococcal rhamnose polysaccharides. <i>Nature Chemical Biology</i> , 2019 , 15, 463-471	11.7	30
368	Advancing Solutions to the Carbohydrate Sequencing Challenge. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14463-14479	16.4	55
367	Crystal structure of methyl β -rhamno-pyranosyl-(1 \rightarrow 2)- β -rhamno-pyran-oside monohydrate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019 , 75, 854-857	0.7	2
366	Lipopolysaccharides of Gram-Negative Bacteria: Biosynthesis and Structural Aspects. <i>Trends in Glycoscience and Glycotechnology</i> , 2019 , 31, J157-J168	0.1	0
365	Lipopolysaccharides of Gram-Negative Bacteria: Biosynthesis and Structural Aspects. <i>Trends in Glycoscience and Glycotechnology</i> , 2019 , 31, E159-E171	0.1	9
364	Enabling adoption of 2D-NMR for the higher order structure assessment of monoclonal antibody therapeutics. <i>MAbs</i> , 2019 , 11, 94-105	6.6	45
363	Elucidation of the O-antigen structure of <i>Escherichia coli</i> O63. <i>Glycobiology</i> , 2019 , 29, 179-187	5.8	3
362	CHARMM-GUI Membrane Builder for Complex Biological Membrane Simulations with Glycolipids and Lipoglycans. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 775-786	6.4	152
361	Differential Dynamics at Glycosidic Linkages of an Oligosaccharide as Revealed by C NMR Spin Relaxation and Stochastic Modeling. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2287-2294	3.4	1
360	Multiple Conformational States Contribute to the 3D Structure of a Glucan Decasaccharide: A Combined SAXS and MD Simulation Study. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1169-1175	3.4	8
359	Synthesis and structural investigation of a series of mannose-containing oligosaccharides using mass spectrometry. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 228-238	3.9	1
358	Genomic Insertion of a Heterologous Acetyltransferase Generates a New Lipopolysaccharide Antigenic Structure in and. <i>Frontiers in Microbiology</i> , 2018 , 9, 1092	5.7	8

357	Kinetics and Mechanism of the Palladium-Catalyzed Oxidative Arylating Carbocyclization of Allenynes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 298-309	16.4	14
356	Enantioselective Binding of Propranolol and Analogues Thereof to Cellobiohydrolase Cel7A. <i>Chemistry - A European Journal</i> , 2018 , 24, 17975-17985	4.8	2
355	Exploiting C/N solid-state NMR distance measurements to assign dihedral angles and locate neighboring molecules. <i>Chemical Communications</i> , 2018 , 54, 6376-6379	5.8	3
354	Synthesis of β (1 \rightarrow 2)-Linked 6-Deoxy-l-altropyranose Oligosaccharides via Gold(I)-Catalyzed Glycosylation of an ortho-Hexynylbenzoate Donor. <i>Journal of Organic Chemistry</i> , 2017 , 82, 3062-3071	4.2	9
353	Conformational Dynamics of the Lipopolysaccharide from Escherichia coli O91 Revealed by Nuclear Magnetic Resonance Spectroscopy and Molecular Simulations. <i>Biochemistry</i> , 2017 , 56, 3826-3839	3.2	16
352	Glycans Confer Specificity to the Recognition of Ganglioside Receptors by Botulinum Neurotoxin A. <i>Journal of the American Chemical Society</i> , 2017 , 139, 218-230	16.4	40
351	Conformational Dynamics and Exchange Kinetics of N-Formyl and N-Acetyl Groups Substituting 3-Amino-3,6-dideoxy- β -D-galactopyranose, a Sugar Found in Bacterial O-Antigen Polysaccharides. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9487-9497	3.4	7
350	Naphthyl Thio- and Carba-xylopyranosides for Exploration of the Active Site of β 1,4-Galactosyltransferase 7 (β GalT7). <i>Chemistry - A European Journal</i> , 2017 , 23, 18057-18065	4.8	6
349	Structural characterization of an all-aminosugar-containing capsular polysaccharide from Colwellia psychrerythraea 34H. <i>Antonie Van Leeuwenhoek</i> , 2017 , 110, 1377-1387	2.1	20
348	Structure-Reactivity Relationships of Conformationally Armed Disaccharide Donors and Their Use in the Synthesis of a Hexasaccharide Related to the Capsular Polysaccharide from Streptococcus pneumoniae Type 37. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8123-8140	4.2	8
347	Databases and Associated Tools for Glycomics and Glycoproteomics. <i>Methods in Molecular Biology</i> , 2017 , 1503, 235-264	1.4	33
346	The importance of orientation of exocyclic groups in a naphthoxyloside: A specific rotation calculation study. <i>Journal of Physical Organic Chemistry</i> , 2017 , 30, e3708	2.1	
345	A molecular dynamics study of the effect of glycosidic linkage type in the hemicellulose backbone on the molecular chain flexibility. <i>Plant Journal</i> , 2016 , 88, 56-70	6.9	39
344	Bilayer Properties of Lipid A from Various Gram-Negative Bacteria. <i>Biophysical Journal</i> , 2016 , 111, 1750-1760	6.0	
343	On the anomalous temperature dependence of cellulose aqueous solubility. <i>Cellulose</i> , 2016 , 23, 2375-2387	3.7	7
342	Influence of Ganglioside GM1 Concentration on Lipid Clustering and Membrane Properties and Curvature. <i>Biophysical Journal</i> , 2016 , 111, 1987-1999	2.9	29
341	Synthesis of the tetrasaccharide glycoside moiety of Solaradixine and rapid NMR-based structure verification using the program CASPER. <i>Tetrahedron</i> , 2016 , 72, 912-927	2.4	8
340	Flexibility at a glycosidic linkage revealed by molecular dynamics, stochastic modeling, and (^{13}C) NMR spin relaxation: conformational preferences of β -D-Rhap- β (1 \rightarrow 2)- β -D-Rhap-OMe in water and dimethyl sulfoxide solutions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3086-96	3.6	7

339	Spectral density mapping at multiple magnetic fields suitable for (13)C NMR relaxation studies. <i>Journal of Magnetic Resonance</i> , 2016 , 266, 23-40	3	4
338	The size and shape of three water-soluble, non-ionic polysaccharides produced by lactic acid bacteria: A comparative study. <i>Carbohydrate Polymers</i> , 2016 , 142, 91-7	10.3	11
337	Structural Studies of Lipopolysaccharide-defective Mutants from <i>Brucella melitensis</i> Identify a Core Oligosaccharide Critical in Virulence. <i>Journal of Biological Chemistry</i> , 2016 , 291, 7727-41	5.4	28
336	Dynamics and Interactions of OmpF and LPS: Influence on Pore Accessibility and Ion Permeability. <i>Biophysical Journal</i> , 2016 , 110, 930-8	2.9	54
335	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O165 containing 5-N-acetyl-7-N-[(R)-3-hydroxybutanoyl]pseudaminic acid. <i>Glycobiology</i> , 2016 , 26, 335-42	5.8	6
334	Identification of a Fragment-Based Scaffold that Inhibits the Glycosyltransferase WaaG from <i>Escherichia coli</i> . <i>Antibiotics</i> , 2016 , 5,	4.9	2
333	CarbBuilder: Software for building molecular models of complex oligo- and polysaccharide structures. <i>Journal of Computational Chemistry</i> , 2016 , 37, 2098-105	3.5	53
332	Structure of the O-polysaccharide of <i>Escherichia coli</i> O132. <i>Carbohydrate Research</i> , 2016 , 427, 44-7	2.9	10
331	Bacteriophage Tailspikes and Bacterial O-Antigens as a Model System to Study Weak-Affinity Protein-Polysaccharide Interactions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9109-18	16.4	12
330	Delineating the conformational flexibility of trisaccharides from NMR spectroscopy experiments and computer simulations. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18776-94	3.6	28
329	Structural studies of a polysaccharide from <i>Vibrio parahaemolyticus</i> strain AN-16000. <i>Carbohydrate Research</i> , 2016 , 432, 41-9	2.9	6
328	Molecular dynamics simulations and NMR spectroscopy studies of trehalose-lipid bilayer systems. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 22438-47	3.6	14
327	Structure and genetics of the O-antigen of <i>Escherichia coli</i> O169 related to the O-antigen of <i>Shigella boydii</i> type 6. <i>Carbohydrate Research</i> , 2015 , 414, 46-50	2.9	5
326	Temperature Dependence of Hydroxymethyl Group Rotamer Populations in Cellooligomers. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 9559-70	3.4	9
325	Investigation of glycofullerene dynamics by NMR spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 8750-5	3.9	13
324	Structures and gene clusters of the closely related O-antigens of <i>Escherichia coli</i> O46 and O134, both containing D-glucuronoyl-D-allothreonine. <i>Carbohydrate Research</i> , 2015 , 409, 20-4	2.9	2
323	NMR chemical shift prediction of glycans: application of the computer program CASPER in structural analysis. <i>Methods in Molecular Biology</i> , 2015 , 1273, 29-40	1.4	7
322	Structure elucidation and biosynthesis gene cluster organization of the O-antigen of <i>Escherichia coli</i> O170. <i>Carbohydrate Research</i> , 2015 , 417, 11-4	2.9	4

321	Chemistry of xylopyranosides. <i>Carbohydrate Research</i> , 2015 , 418, 65-88	2.9	24
320	Structural Elucidation of the O-Antigen Polysaccharide from Escherichia coli O181. <i>ChemistryOpen</i> , 2015 , 4, 47-55	2.3	7
319	Structural studies of the exopolysaccharide from Lactobacillus plantarum C88 using NMR spectroscopy and the program CASPER. <i>Carbohydrate Research</i> , 2015 , 402, 87-94	2.9	36
318	Structural studies and biosynthetic aspects of the O-antigen polysaccharide from Escherichia coli O42. <i>Carbohydrate Research</i> , 2015 , 403, 174-81	2.9	4
317	Development of the ECODAB into a relational database for Escherichia coli O-antigens and other bacterial polysaccharides. <i>Glycobiology</i> , 2015 , 25, 341-7	5.8	35
316	Exploration of the active site of β GalT7: modifications of the aglycon of aromatic xylosides. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 3351-62	3.9	22
315	Lipopolysaccharide membrane building and simulation. <i>Methods in Molecular Biology</i> , 2015 , 1273, 391-406	6.4	31
314	Discrimination of epimeric glycans and glycopeptides using IM-MS and its potential for carbohydrate sequencing. <i>Nature Chemistry</i> , 2014 , 6, 65-74	17.6	146
313	Studying the glycan moiety of RNase B by means of Raman and Raman optical activity. <i>ChemPhysChem</i> , 2014 , 15, 2252-4	3.2	15
312	Conformational effects due to stereochemistry and C3-substituents in xylopyranoside derivatives as studied by NMR spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 8031-5	3.9	9
311	Molecular Dynamics Simulations of the Ionic Liquid 1-n-Butyl-3-Methylimidazolium Chloride and Its Binary Mixtures with Ethanol. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 4465-79	6.4	45
310	Serotype-conversion in Shigella flexneri: identification of a novel bacteriophage, Sf101, from a serotype 7a strain. <i>BMC Genomics</i> , 2014 , 15, 742	4.5	12
309	NMR structure analysis of uniformly ^{13}C -labeled carbohydrates. <i>Journal of Biomolecular NMR</i> , 2014 , 59, 95-110	3	22
308	Conformational properties of β or α (1 \rightarrow 6)-linked oligosaccharides: Hamiltonian replica exchange MD simulations and NMR experiments. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 2851-71	3.4	38
307	E. coli outer membrane and interactions with OmpLA. <i>Biophysical Journal</i> , 2014 , 106, 2493-502	2.9	97
306	Rapid structural elucidation of polysaccharides employing predicted functions of glycosyltransferases and NMR data: application to the O-antigen of Escherichia coli O59. <i>Glycobiology</i> , 2014 , 24, 450-7	5.8	10
305	Rules for priming and inhibition of glycosaminoglycan biosynthesis; probing the β GalT7 active site. <i>Chemical Science</i> , 2014 , 5, 3501-3508	9.4	23
304	Epimerization of glycal derivatives by a cyclopentadienylruthenium catalyst: application to metalloenzymatic DYKAT. <i>Chemistry - A European Journal</i> , 2014 , 20, 14756-62	4.8	4

303	SEAL by NMR: glyco-based selenium-labeled affinity ligands detected by NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2014 , 20, 13905-8	4.8	12
302	Suppressing one-bond homonuclear ¹³ C, ¹³ C scalar couplings in the J-HMBC NMR experiment: application to ¹³ C site-specifically labeled oligosaccharides. <i>Magnetic Resonance in Chemistry</i> , 2014 , 52, 82-6	2.1	5
301	Structural Analysis of Carbohydrates by Nuclear Magnetic Resonance Spectroscopy and Molecular Simulations: Application to Human Milk Oligosaccharides 2014 , 320-349		4
300	Methyl 4-O-benzyl- β -rhamno-pyrano-side. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014 , 70, o561-2		2
299	Exploration of conformational flexibility and hydrogen bonding of xylosides in different solvents, as a model system for enzyme active site interactions. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 5465-72	3.9	18
298	An in silico virtual screening study for the design of norovirus inhibitors: fragment-based molecular docking and binding free energy calculations. <i>Carbohydrate Research</i> , 2013 , 378, 133-8	2.9	5
297	Dynamics of exocyclic groups in the Escherichia coli O91 O-antigen polysaccharide in solution studied by carbon-13 NMR relaxation. <i>Journal of Biomolecular NMR</i> , 2013 , 57, 37-45	3	6
296	Bifurcated hydrogen bonding and asymmetric fluctuations in a carbohydrate crystal studied via X-ray crystallography and computational analysis. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 7546-53	3.4	5
295	Structural studies of the O-antigen polysaccharide from Escherichia coli O115 and biosynthetic aspects thereof. <i>Glycobiology</i> , 2013 , 23, 354-62	5.8	5
294	Conformation and dynamics at a flexible glycosidic linkage revealed by NMR spectroscopy and molecular dynamics simulations: analysis of β -L-Fucp-(1 \rightarrow 6)- β -D-Glcp-OMe in water solution. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14709-22	3.4	18
293	Molecular dynamics and NMR spectroscopy studies of E. coli lipopolysaccharide structure and dynamics. <i>Biophysical Journal</i> , 2013 , 105, 1444-55	2.9	125
292	Conformational preferences of the O-antigen polysaccharides of Escherichia coli O5ac and O5ab using NMR spectroscopy and molecular modeling. <i>Biomacromolecules</i> , 2013 , 14, 2215-24	6.9	9
291	Synthesis of methyl 3-amino-3,6-dideoxy- β -D-galactopyranoside carrying different amide substituents. <i>RSC Advances</i> , 2013 , 3, 23090	3.7	4
290	Chair interconversion and reactivity of mannuronic acid esters. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 8127-34	3.9	19
289	Complete (¹ H and (¹³ C NMR chemical shift assignments of mono- to tetrasaccharides as basis for NMR chemical shift predictions of oligosaccharides using the computer program CASPER. <i>Carbohydrate Research</i> , 2013 , 380, 156-66	2.9	38
288	A perspective on the primary and three-dimensional structures of carbohydrates. <i>Carbohydrate Research</i> , 2013 , 378, 123-32	2.9	46
287	Glycoengineering of host mimicking type-2 LacNAc polymers and Lewis X antigens on bacterial cell surfaces. <i>Molecular Microbiology</i> , 2013 , 87, 112-31	4.1	10
286	Direct evidence for hydrogen bonding in glycans: a combined NMR and molecular dynamics study. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4860-9	3.4	40

285	Solid-state NMR characterization of the molecular conformation in disordered methyl β -D-rhamnofuranoside. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 5534-41	2.8	14
284	Molecular dynamics simulations of membrane-sugar interactions. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 6667-73	3.4	39
283	Glycan synthesis, structure, and dynamics: A selection. <i>Pure and Applied Chemistry</i> , 2013 , 85, 1759-1770	2.1	10
282	Facile Structural Elucidation of Glycans Using NMR Spectroscopy Data and the Program CASPER: Application to the O-Antigen Polysaccharide of Escherichia coli O155. <i>ChemPlusChem</i> , 2013 , 78, 1327-1329	3.8	5
281	Structural Studies of the O-Acetyl-Containing O-Antigen from a Shigella flexneri Serotype 6 Strain and Synthesis of Oligo β accharide Fragments Thereof. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 4085-4106	3.2	19
280	The epitopic and structural characterization of Brucella suis biovar 2 O-polysaccharide demonstrates the existence of a new M-negative C-negative smooth Brucella serovar. <i>PLoS ONE</i> , 2013 , 8, e53941	3.7	20
279	pKa-Determination and Conformational Studies by NMR Spectroscopy of D-Altrose-Containing and other Pseudodisaccharides as Glycosidase Inhibitor Candidates. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 74-84	3.2	7
278	Transient hydrogen bonding in uniformly ^{13}C , ^{15}N -labeled carbohydrates in water. <i>Biopolymers</i> , 2012 , 97, 145-54	2.2	15
277	Combining weak affinity chromatography, NMR spectroscopy and molecular simulations in carbohydrate-lysozyme interaction studies. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 3019-32	3.9	10
276	Small molecules containing hetero-bicyclic ring systems compete with UDP-Glc for binding to WaaG glycosyltransferase. <i>Glycoconjugate Journal</i> , 2012 , 29, 491-502	3	9
275	Stochastic modeling of flexible biomolecules applied to NMR relaxation. I. Internal dynamics of cyclodextrins: β -cyclodextrin as a case study. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 13159-71	3.4	10
274	Conformational flexibility of the pentasaccharide LNF-2 deduced from NMR spectroscopy and molecular dynamics simulations. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 4577-85	3.9	14
273	Caffeine and sugars interact in aqueous solutions: a simulation and NMR study. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 11701-11	3.4	38
272	Structural studies of the O-antigen polysaccharide from Escherichia coli TD2158 having O18 serogroup specificity and aspects of its interaction with the tailspike endoglycosidase of the infecting bacteriophage HK620. <i>Carbohydrate Research</i> , 2012 , 357, 118-25	2.9	16
271	Stochastic modeling of flexible biomolecules applied to NMR relaxation. 2. Interpretation of complex dynamics in linear oligosaccharides. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 14541-55	3.4	17
270	Conformational Dynamics of a Central Trisaccharide Fragment of the LeaLex Tumor Associated Antigen Studied by NMR Spectroscopy and Molecular Dynamics Simulations. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 4705-4715	3.2	10
269	Chemoenzymatic synthesis of O-mannosylpeptides in solution and on solid phase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4521-4	16.4	62
268	Studies on the conformational flexibility of β -D-rhamnose-containing oligosaccharides using ^{13}C -site-specific labeling, NMR spectroscopy and molecular simulations: implications for the three-dimensional structure of bacterial rhamnan polysaccharides. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 2453-63	3.9	14

267	Structural studies of the O-antigenic polysaccharide from <i>Plesiomonas shigelloides</i> strain AM36565. <i>Carbohydrate Research</i> , 2012 , 348, 99-103	2.9	15
266	Structural studies and biosynthetic aspects of the O-antigen polysaccharide from <i>Escherichia coli</i> O174. <i>Carbohydrate Research</i> , 2012 , 354, 102-5	2.9	4
265	Methyl 3-O- β -fucopyranosyl β -gal-acto-pyran-oside: a synchrotron study. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o528		1
264	Methyl β -rhamnosyl-(1 \rightarrow 2)[β -rhamnosyl-(1 \rightarrow 3)]- β -rhamnoside penta-hydrate: synchrotron study. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o2221-2		4
263	Methyl 3-O- β -fucopyranosyl β -glucopyran-oside tetra-hydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o3180-1		
262	Structural studies of the capsular polysaccharide produced by <i>Leuconostoc mesenteroides</i> ssp. cremoris PIA2. <i>Biomacromolecules</i> , 2011 , 12, 2496-501	6.9	12
261	Automatic structure determination of regular polysaccharides based solely on NMR spectroscopy. <i>Biomacromolecules</i> , 2011 , 12, 3851-5	6.9	38
260	Structural analysis of glycans by NMR chemical shift prediction. <i>Analytical Chemistry</i> , 2011 , 83, 1514-7	7.8	148
259	Molecular conformations in the pentasaccharide LNF-1 derived from NMR spectroscopy and molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 7109-21	3.4	20
258	Conformational properties of methyl β -maltoside and methyl β -and β -cellobioside disaccharides. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 597-608	3.4	42
257	Structure of the O-Specific polysaccharide from <i>Shewanella japonica</i> KMM 3601 containing 5,7-Diacetamido-3,5,7,9-tetra-deoxy-D-glycero-D-talo-non-2-ulosonic acid. <i>Biochemistry (Moscow)</i> , 2011 , 76, 791-6	2.9	5
256	Structural studies of the O-antigenic polysaccharide from <i>Escherichia coli</i> O177. <i>Carbohydrate Research</i> , 2011 , 346, 2300-3	2.9	6
255	Structural elucidation of the O-antigenic polysaccharide from <i>Escherichia coli</i> O175. <i>Carbohydrate Research</i> , 2011 , 346, 449-53	2.9	25
254	NMR analysis of conformationally dependent (n)J(C, H) and (n)J(C, C) in the trisaccharide β -Rhap-(1 \rightarrow 2)[β -Rhap-(1 \rightarrow 3)]- β -Rhap-OMe and a site-specifically labeled isotopologue thereof. <i>Magnetic Resonance in Chemistry</i> , 2011 , 49, 117-24	2.1	19
253	Glycan Structure of a High-Mannose Glycoprotein from Raman Optical Activity. <i>Angewandte Chemie</i> , 2011 , 123, 5461-5463	3.6	4
252	Glycan structure of a high-mannose glycoprotein from Raman optical activity. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5349-51	16.4	33
251	CarbBuilder: An Adjustable Tool for Building 3D Molecular Structures of Carbohydrates for Molecular Simulation 2011 ,		10
250	Synthesis, conformation and biology of naphthoxylosides. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 4114-26	3.4	25

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1	CHAPTER 15:NMR Chemical Shift Predictions and Structural Elucidation of Oligo- and Polysaccharides by the Computer Program CASPER. <i>New Developments in NMR</i> ,335-352	0.9	7