

# Roland Stenutz

## List of Publications by Year in descending order

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24  
papers

1,480  
citations

516710

16  
h-index

713466

21  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1474  
citing authors

#	ARTICLE	IF	CITATIONS
1	The structures of <i>Escherichia coli</i> O-polysaccharide antigens. <i>FEMS Microbiology Reviews</i> , 2006, 30, 382-403.	8.6	346
2	Hydroxymethyl Group Conformation in Saccharides: Structural Dependencies of $^2J_{HH}$ , $^3J_{HH}$ , and $^1J_{CH}$ Spin-Spin Coupling Constants. <i>Journal of Organic Chemistry</i> , 2002, 67, 949-958.	3.2	185
3	Synthesis of Hydroxylated and Methoxylated Polybrominated Diphenyl Ethers and Natural Products and Potential Polybrominated Diphenyl Ether Metabolites. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 2566-2576.	2.4	147
4	Three-Bond $C-O-C$ Spin-Coupling Constants in Carbohydrates: Development of a Karplus Relationship. <i>Journal of the American Chemical Society</i> , 1998, 120, 11158-11173.	13.7	132
5	Correlated $C-C$ and $C-O$ Bond Conformations in Saccharide Hydroxymethyl Groups: Parametrization and Application of Redundant $^1H$ , $^{13}C$ , and $^{13}C$ NMR J-Couplings. <i>Journal of the American Chemical Society</i> , 2004, 126, 15668-15685.	13.7	124
6	EUROCarbDB: An open-access platform for glycoinformatics. <i>Glycobiology</i> , 2011, 21, 493-502.	2.5	116
7	Sequence determination of oligosaccharides and regular polysaccharides using NMR spectroscopy and a novel Web-based version of the computer program casper. <i>Carbohydrate Research</i> , 2006, 341, 1003-1010.	2.3	88
8	Conformational Flexibility of Carbohydrates: A Folded Conformer at the $\tau$ Dihedral Angle of a Glycosidic Linkage. <i>Journal of the American Chemical Society</i> , 1997, 119, 8695-8698.	13.7	61
9	GlyNest and CASPER: two independent approaches to estimate $^1H$ and $^{13}C$ NMR shifts of glycans available through a common web-interface. <i>Nucleic Acids Research</i> , 2006, 34, W733-W737.	14.5	38
10	Conformational Analysis of $^2$ -Glycosidic Linkages in $^{13}C$ -Labeled Glucobiosides Using Inter-residue Scalar Coupling Constants. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4447-4453.	2.6	38
11	Conformational Flexibility and Dynamics of Two $^6$ -Linked Disaccharides Related to an Oligosaccharide Epitope Expressed on Malignant Tumour Cells. <i>Chemistry - A European Journal</i> , 2009, 15, 8886-8894.	3.3	37
12	Computer-assisted structural analysis of oligo- and polysaccharides: An extension of CASPER to multibranching structures. <i>Carbohydrate Research</i> , 1998, 306, 11-17.	2.3	36
13	Structural analysis of the O-antigen polysaccharide from <i>Escherichia coli</i> O152. <i>Carbohydrate Research</i> , 2005, 340, 167-171.	2.3	30
14	Web resources for the carbohydrate chemist. <i>Carbohydrate Research</i> , 2004, 339, 929-936.	2.3	26
15	Informing Saccharide Structural NMR Studies with Density Functional Theory Calculations. <i>Methods in Molecular Biology</i> , 2015, 1273, 289-331.	0.9	24
16	Synthesis of, and NMR and CD studies on, methyl 4-O-[(R)- and (S)-1-carboxyethyl]- $^1$ -l-rhamnopyranoside and methyl 6-O-[(R)- and (S)-1-carboxyethyl]- $^1$ -d-galactopyranoside. <i>Carbohydrate Research</i> , 1994, 254, 35-41.	2.3	17
17	The structure of the capsular polysaccharide from <i>Klebsiella</i> type 52, using the computerised approach CASPER and NMR spectroscopy. <i>Carbohydrate Research</i> , 1997, 302, 79-84.	2.3	16
18	Methyl 4-O- $^2$ -L-fucopyranosyl $^1$ -D-glucopyranoside hemihydrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, 702-704.	0.4	6

#	ARTICLE	IF	CITATIONS
19	MMC and LD simulations of alpha-D-Glcp-(1->2)-alpha-D-Glcp-(1->3)-alpha-D-Glcp-OMe. A model for the terminal trisaccharide in glycoprotein precursors. , 1998, 15, 415-418.		5
20	Methyl 2-O- $\beta$ -D-glucopyranosyl- $\beta$ -L-rhamnopyranoside. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o328-o329.	0.4	3
21	Conformational analysis of methyl 6-O-[(R)- and (S)-1-carboxyethyl]-alpha-D-galactopyranoside by MM and Langevin dynamics simulations. Glycoconjugate Journal, 1997, 14, 973-981.	2.7	2
22	Automatic Spectrum Interpretation Based on Increment Rules: CASPER. , 0, , 311-320.		2
23	Synthesis of site-specific deuterium substituted methyl 6-O-[(R)- and (S)-1-carboxyethyl]- $\beta$ -D-galactopyranoside and conformational analysis thereof based on J couplings. Carbohydrate Research, 1998, 312, 117-121.	2.3	1
24	Synthesis of Hydroxylated and Methoxylated Polybrominated Diphenyl Ethers " Natural Products and Potential Polybrominated Diphenyl Ether Metabolites.. ChemInform, 2003, 34, no.	0.0	0