

# Francisco Javier Cañada

## List of Publications by Year in descending order

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Version: 2024-02-01

220  
papers

9,353  
citations

41258

49  
h-index

54797

84  
g-index

231  
all docs

231  
docs citations

231  
times ranked

8980  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A Fungal Versatile GH10 Endoxylanase and Its Glycosynthase Variant: Synthesis of Xylooligosaccharides and Glycosides of Bioactive Phenolic Compounds. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1383. | 1.8 | 3         |
| 2  | Targeting the CRD Face of Human Galectin-3 and Allosterically Modulating Glycan Binding by Angiostatic PTX008 and a Structurally Optimized Derivative. <i>ChemMedChem</i> , 2021, 16, 713-723.                             | 1.6 | 8         |
| 3  | Synthesis and Evaluation of Novel Iminosugars Prepared from Natural Amino Acids. <i>Molecules</i> , 2021, 26, 394.   | 1.7 | 1         |
| 4  | Structural basis for recognition of bacterial cell wall teichoic acid by pseudo-symmetric SH3b-like repeats of a viral peptidoglycan hydrolase. <i>Chemical Science</i> , 2021, 12, 576-589.                               | 3.7 | 11        |
| 5  | Crystal Structure of the Carbohydrate Recognition Domain of the Human Macrophage Galactose C-Type Lectin Bound to GalNAc and the Tumor-Associated Tn Antigen. <i>Biochemistry</i> , 2021, 60, 1327-1336.                   | 1.2 | 20        |
| 6  | Galectin-4 N-Terminal Domain: Binding Preferences Toward A and B Antigens With Different Peripheral Core Presentations. <i>Frontiers in Chemistry</i> , 2021, 9, 664097.   | 1.8 | 6         |
| 7  | Molecular bases for the association of FHR-1 with atypical hemolytic uremic syndrome and other diseases. <i>Blood</i> , 2021, 137, 3484-3494.  | 0.6 | 17        |
| 8  | Conformational and Structural characterization of carbohydrates and their interactions studied by NMR. <i>Current Medicinal Chemistry</i> , 2021, 28, .  | 1.2 | 2         |
| 9  | Thioglycoligase derived from fungal GH3 $\beta$ -xylosidase is a multi-glycoligase with broad acceptor tolerance. <i>Nature Communications</i> , 2020, 11, 4864.   | 5.8 | 21        |
| 10 | Fluorinated Carbohydrates as Lectin Ligands: Simultaneous Screening of a Monosaccharide Library and Chemical Mapping by <sup>19</sup> F NMR Spectroscopy. <i>Journal of Organic Chemistry</i> , 2020, 85, 16072-16081.     | 1.7 | 24        |
| 11 | Amino Acid-Based Synthesis and Glycosidase Inhibition of Cyclopropane-Containing Iminosugars. <i>ACS Omega</i> , 2020, 5, 31821-31830.   | 1.6 | 4         |
| 12 | The Interaction of Fluorinated Glycomimetics with DC-SIGN: Multiple Binding Modes Disentangled by the Combination of NMR Methods and MD Simulations. <i>Pharmaceuticals</i> , 2020, 13, 179.                               | 1.7 | 12        |
| 13 | Molecular Recognition in C-type Lectins: The Cases of DC-SIGN, Langerin, MGL, and $\beta$ -Sectin. <i>ChemBioChem</i> , 2020, 21, 2999-3025.   | 1.3 | 49        |
| 14 | A glucotolerant $\beta$ -glucosidase from the fungus <i>Talaromyces amestolkiae</i> and its conversion into a glycosynthase for glycosylation of phenolic compounds. <i>Microbial Cell Factories</i> , 2020, 19, 127.      | 1.9 | 25        |
| 15 | Amoxicillin Inactivation by Thiol-Catalyzed Cyclization Reduces Protein Haptenation and Antibacterial Potency. <i>Frontiers in Pharmacology</i> , 2020, 11, 189.   | 1.6 | 13        |
| 16 | Dissecting the Essential Role of Anomeric $\beta$ -Triflates in Glycosylation Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 12501-12514.   | 6.6 | 52        |
| 17 | A top-down chemo-enzymatic approach towards N-acetylglucosamine-N-acetylmuramic oligosaccharides: Chitosan as a reliable template. <i>Carbohydrate Polymers</i> , 2019, 224, 115133.                                       | 5.1 | 7         |
| 18 | Unraveling Sugar Binding Modes to DC-SIGN by Employing Fluorinated Carbohydrates. <i>Molecules</i> , 2019, 24, 2337.   | 1.7 | 34        |

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|----|--|-----|-----------|
| 19 | Molecular Insights into DC-SIGN Binding to Self-Antigens: The Interaction with the Blood Group A/B Antigens. <i>ACS Chemical Biology</i> , 2019, 14, 1660-1671.  | 1.6 | 37        |
| 20 | Exploiting xylan as sugar donor for the synthesis of an antiproliferative xyloside using an enzyme cascade. <i>Microbial Cell Factories</i> , 2019, 18, 174.   | 1.9 | 7         |
| 21 | Peptidoglycan Recognition by Wheat Germ Agglutinin. A View by NMR. <i>Natural Product Communications</i> , 2019, 14, 1934578X1984924.  | 0.2 | 6         |
| 22 | Complete oxidation of hydroxymethylfurfural to furandicarboxylic acid by aryl-alcohol oxidase. <i>Biotechnology for Biofuels</i> , 2019, 12, 217.  | 6.2 | 50        |
| 23 | Glycosylated Cell-Penetrating Peptides (GCPPs). <i>ChemBioChem</i> , 2019, 20, 1400-1409.  | 1.3 | 19        |
| 24 | Insights into real-time chemical processes in a calcium sensor protein-directed dynamic library. <i>Nature Communications</i> , 2019, 10, 2798.  | 5.8 | 16        |
| 25 | Transglycosylation products generated by <i>Talaromyces amestolkiae</i> GH3 $\beta$ -glucosidases: effect of hydroxytyrosol, vanillin and its glucosides on breast cancer cells. <i>Microbial Cell Factories</i> , 2019, 18, 97.   | 1.9 | 28        |
| 26 | Minimizing the Entropy Penalty for Ligand Binding: Lessons from the Molecular Recognition of the Histo Blood-Group Antigens by Human Galectin-3. <i>Angewandte Chemie</i> , 2019, 131, 7346-7350.  | 1.6 | 12        |
| 27 | A Novel Redox-Sensing Histidine Kinase That Controls Carbon Catabolite Repression in <i>Azoarcus</i> sp. <i>MBio</i> , 2019, 10, .   | 1.8 | 4         |
| 28 | Minimizing the Entropy Penalty for Ligand Binding: Lessons from the Molecular Recognition of the Histo Blood-Group Antigens by Human Galectin-3. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7268-7272.   | 7.2 | 56        |
| 29 | Increase of Redox Potential during the Evolution of Enzymes Degrading Recalcitrant Lignin. <i>Chemistry - A European Journal</i> , 2019, 25, 2708-2712.  | 1.7 | 16        |
| 30 | Chameleon-like behavior of indolylpiperidines in complex with cholinesterases targets: Potent butyrylcholinesterase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018, 145, 431-444.   | 2.6 | 18        |
| 31 | Differential recognition of <i>Haemophilus influenzae</i> whole bacterial cells and isolated lipooligosaccharides by galactose-specific lectins. <i>Scientific Reports</i> , 2018, 8, 16292.   | 1.6 | 10        |
| 32 | Avenues to Characterize the Interactions of Extended N-Glycans with Proteins by NMR Spectroscopy: The Influenza Hemagglutinin Case. <i>Angewandte Chemie</i> , 2018, 130, 15271-15275.   | 1.6 | 10        |
| 33 | Avenues to Characterize the Interactions of Extended N-Glycans with Proteins by NMR Spectroscopy: The Influenza Hemagglutinin Case. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15051-15055.  | 7.2 | 23        |
| 34 | Deciphering the Inhibition of the Neuronal Calcium Sensor 1 and the Guanine Exchange Factor Ric8a with a Small Phenothiazine Molecule for the Rational Generation of Therapeutic Synapse Function Regulators. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 5910-5921. | 2.9 | 10        |
| 35 | Structure and N-acetylglucosamine binding of the distal domain of mouse adenovirus 2 fibre. <i>Journal of General Virology</i> , 2018, 99, 1494-1508.  | 1.3 | 8         |
| 36 | Fluoroacetamide Moieties as NMR Spectroscopy Probes for the Molecular Recognition of GlcNAc-Containing Sugars: Modulation of the CH $\pi$ - $\pi$ Stacking Interactions by Different Fluorination Patterns. <i>Chemistry - A European Journal</i> , 2017, 23, 3957-3965.   | 1.7 | 33        |

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|----|---|-----|-----------|
| 37 | NMR and Molecular Recognition of N-Glycans: Remote Modifications of the Saccharide Chain Modulate Binding Features. <i>ACS Chemical Biology</i> , 2017, 12, 1104-1112.  | 1.6 | 35        |
| 38 | Breaking the Limits in Analyzing Carbohydrate Recognition by NMR Spectroscopy: Resolving Branch-Selective Interaction of a Tetraantennary N-Glycan with Lectins. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14987-14991.  | 7.2 | 47        |
| 39 | Breaking the Limits in Analyzing Carbohydrate Recognition by NMR Spectroscopy: Resolving Branch-Selective Interaction of a Tetraantennary N-Glycan with Lectins. <i>Angewandte Chemie</i> , 2017, 129, 15183-15187.   | 1.6 | 8         |
| 40 | Mite allergoids coupled to nonoxidized mannan from <i>Saccharomyces cerevisiae</i> efficiently target canine dendritic cells for novel allergy immunotherapy in veterinary medicine. <i>Veterinary Immunology and Immunopathology</i> , 2017, 190, 65-72.   | 0.5 | 15        |
| 41 | From dual binding site acetylcholinesterase inhibitors to allosteric modulators: A new avenue for disease-modifying drugs in Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2017, 139, 773-791.  | 2.6 | 46        |
| 42 | Drawbacks of Dialysis Procedures for Removal of EDTA. <i>PLoS ONE</i> , 2017, 12, e0169843.   | 1.1 | 25        |
| 43 | Enzymatic fine-tuning for 2-(6-hydroxynaphthyl) $\beta$ -D-xylopyranoside synthesis catalyzed by the recombinant $\beta$ -xylosidase BxTW1 from <i>Talaromyces amestolkiae</i> . <i>Microbial Cell Factories</i> , 2016, 15, 171.   | 1.9 | 13        |
| 44 | Chemometric Analysis of Bacterial Peptidoglycan Reveals Atypical Modifications That Empower the Cell Wall against Predatory Enzymes and Fly Innate Immunity. <i>Journal of the American Chemical Society</i> , 2016, 138, 9193-9204.  | 6.6 | 56        |
| 45 | The Y9P Variant of the Titin I27 Module: Structural Determinants of Its Revisited Nanomechanics. <i>Structure</i> , 2016, 24, 606-616.  | 1.6 | 10        |
| 46 | Novel vaccines targeting dendritic cells by coupling allergoids to nonoxidized mannan enhance allergen uptake and induce functional regulatory T cells through programmed death ligand 1. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 558-567.e11.                             | 1.5 | 91        |
| 47 | Finding the Right Candidate for the Right Position: A Fast NMR-Assisted Combinatorial Method for Optimizing Nucleic Acids Binders. <i>Journal of the American Chemical Society</i> , 2016, 138, 6463-6474.  | 6.6 | 5         |
| 48 | Structural and Biochemical Characterization of the Interaction of Tubulin with Potent Natural Analogues of Podophyllotoxin. <i>Journal of Natural Products</i> , 2016, 79, 2113-2121.   | 1.5 | 26        |
| 49 | Diastereomeric Glycosyl Sulfoxides Display Different Recognition Features versus <i>E. coli</i> $\beta$ -Galactosidase. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 5117-5122.   | 1.2 | 9         |
| 50 | Detailed Investigation of the Immunodominant Role of O-Antigen Stoichiometric O-Acetylation as Revealed by Chemical Synthesis, Immunochemistry, Solution Conformation and STD-NMR Spectroscopy for <i>Shigella flexneri</i> ...3a. <i>Chemistry - A European Journal</i> , 2016, 22, 10892-10911. | 1.7 | 26        |
| 51 | Intra- and intermolecular interactions of human galectin-3: assessment by full-assignment-based NMR. <i>Glycobiology</i> , 2016, 26, 888-903.   | 1.3 | 66        |
| 52 | Structural studies of novel glycoconjugates from polymerized allergens (allergoids) and mannans as allergen vaccines. <i>Glycoconjugate Journal</i> , 2016, 33, 93-101.   | 1.4 | 21        |
| 53 | A Murine Monoclonal Antibody to Glycogen: Characterization of Epitope-Fine Specificity by Saturation Transfer Difference (STD) NMR Spectroscopy and Its Use in Mycobacterial Capsular $\beta$ -Glucan Research. <i>ChemBioChem</i> , 2015, 16, 977-989.   | 1.3 | 9         |
| 54 | Structural Insights into the Binding of Sugar Receptors (Lectins) to a Synthetic Tricyclic Tn Mimetic and Its Glycopeptide Version. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6823-6831.   | 1.2 | 9         |

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|----|---|-----|-----------|
| 55 | D- and L-Mannose-Containing Oligoamides Show Distinct Recognition Properties When Interacting with DNA. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6180-6193.   | 1.2 | 9         |
| 56 | Monitoring Glycan-Protein Interactions by NMR Spectroscopic Analysis: A Simple Chemical Tag That Mimics Natural CH Interactions. <i>Chemistry - A European Journal</i> , 2015, 21, 11408-11416.   | 1.7 | 17        |
| 57 | Glycans in Medicinal Chemistry: An Underexploited Resource. <i>ChemMedChem</i> , 2015, 10, 1291-1295.   | 1.6 | 19        |
| 58 | Recent Developments in Synthetic Carbohydrate-Based Diagnostics, Vaccines, and Therapeutics. <i>Chemistry - A European Journal</i> , 2015, 21, 10616-10628.   | 1.7 | 92        |
| 59 | Conformational Plasticity in Glycomimetics: Fluorocarbamethylidopyranosides Mimic the Intrinsic Dynamic Behaviour of Natural Idose Rings. <i>Chemistry - A European Journal</i> , 2015, 21, 10513-10521.  | 1.7 | 16        |
| 60 | Fluorinated Carbohydrates as Lectin Ligands: 19F-Based Direct STD Monitoring for Detection of Anomeric Selectivity. <i>Biomolecules</i> , 2015, 5, 3177-3192.   | 1.8 | 28        |
| 61 | Structure and Sialyllactose Binding of the Carboxy-Terminal Head Domain of the Fibre from a Siadenovirus, Turkey Adenovirus 3. <i>PLoS ONE</i> , 2015, 10, e0139339.  | 1.1 | 25        |
| 62 | Advanced NMR Techniques: Defining Carbohydrate Structures and Ligand-Receptor Interactions. , 2015, , 121-146.  |     | 0         |
| 63 | Vimentin filament organization and stress sensing depend on its single cysteine residue and zinc binding. <i>Nature Communications</i> , 2015, 6, 7287.   | 5.8 | 111       |
| 64 | Beyond a Fluorescent Probe: Inhibition of Cell Division Protein FtsZ by <i>mant</i> -GTP Elucidated by NMR and Biochemical Approaches. <i>ACS Chemical Biology</i> , 2015, 10, 2382-2392.   | 1.6 | 9         |
| 65 | The Quest for Anticancer Vaccines: Deciphering the Fine-Epitope Specificity of Cancer-Related Monoclonal Antibodies by Combining Microarray Screening and Saturation Transfer Difference NMR. <i>Journal of the American Chemical Society</i> , 2015, 137, 12438-12441. | 6.6 | 35        |
| 66 | 1H, 13C, and 15N backbone and side-chain chemical shift assignments for the 36 proline-containing, full length 29 kDa human chimera-type galectin-3. <i>Biomolecular NMR Assignments</i> , 2015, 9, 59-63.  | 0.4 | 20        |
| 67 | Solution Conformation of Carbohydrates: A View by Using NMR Assisted by Modeling. <i>Methods in Molecular Biology</i> , 2015, 1273, 261-287.  | 0.4 | 7         |
| 68 | Structure and Function of Prokaryotic UDP-Glucose Pyrophosphorylase, A Drug Target Candidate. <i>Current Medicinal Chemistry</i> , 2015, 22, 1687-1697.   | 1.2 | 34        |
| 69 | Delineating Binding Modes of Gal/GalNAc and Structural Elements of the Molecular Recognition of Tumor-Associated Mucin Glycopeptides by the Human Macrophage Galactose-Type Lectin. <i>Chemistry - A European Journal</i> , 2014, 20, 16147-16155.                      | 1.7 | 46        |
| 70 | Peptides derived from human galectin-3 N-terminal tail interact with its carbohydrate recognition domain in a phosphorylation-dependent manner. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 126-131.  | 1.0 | 24        |
| 71 | Synthesis and conformational analysis of phosphorylated $\beta$ -(1 $\rightarrow$ 2) linked mannosides. <i>Carbohydrate Research</i> , 2014, 383, 58-68.  | 1.1 | 13        |
| 72 | Immobilization of thermostable $\beta$ -galactosidase on epoxy support and its use for lactose hydrolysis and galactooligosaccharides biosynthesis. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 989-998.   | 1.7 | 36        |

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|----|--|-----|-----------|
| 73 | Systematic Dissection of an Aminopyrrolic Cage Receptor for $^{12}\text{C}$ -Glucopyranosides Reveals the Essentials for Effective Recognition. <i>Chemistry - A European Journal</i> , 2014, 20, 6081-6091.   | 1.7 | 38        |
| 74 | Lanthanide-Chelating Carbohydrate Conjugates Are Useful Tools To Characterize Carbohydrate Conformation in Solution and Sensitive Sensors to Detect Carbohydrate-Protein Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 8011-8017.         | 6.6 | 51        |
| 75 | NMR and molecular recognition. The application of ligand-based NMR methods to monitor molecular interactions. <i>MedChemComm</i> , 2014, 5, 1280-1289.   | 3.5 | 43        |
| 76 | Tetrafluorination of Sugars as Strategy for Enhancing Protein-Carbohydrate Affinity: Application to UDP-Galactose 4-Epimerase Inhibition. <i>Chemistry - A European Journal</i> , 2014, 20, 106-112.   | 1.7 | 64        |
| 77 | Study of Protein Haptenation by Amoxicillin Through the Use of a Biotinylated Antibiotic. <i>PLoS ONE</i> , 2014, 9, e90891.   | 1.1 | 40        |
| 78 | Carbohydrate-Aromatic Interactions. <i>Accounts of Chemical Research</i> , 2013, 46, 946-954.  | 7.6 | 394       |
| 79 | Exploring NMR methods as a tool to select suitable fluorescent nucleotide analogues. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 5332.   | 1.5 | 6         |
| 80 | Heparin Modulates the Mitogenic Activity of Fibroblast Growth Factor by Inducing Dimerization of its Receptor. A 3D View by Using NMR. <i>ChemBioChem</i> , 2013, 14, 1732-1744.   | 1.3 | 40        |
| 81 | Conformational Selection in Glycomimetics: Human Galectin-1 Only Recognizes <i>syn</i> -Type Conformations of $^{12}\text{C}$ -Linked Lactose and Its $^{13}\text{C}$ -Glycosyl Derivative. <i>Chemistry - A European Journal</i> , 2013, 19, 14581-14590.             | 1.7 | 19        |
| 82 | CHAPTER 1. New Applications of High-Resolution NMR in Drug Discovery and Development. <i>New Developments in NMR</i> , 2013, , 7-42.   | 0.1 | 2         |
| 83 | Molecular Recognition of Complex-Type Biantennary <i>N</i> -Glycans by Protein Receptors: a Three-Dimensional View on Epitope Selection by NMR. <i>Journal of the American Chemical Society</i> , 2013, 135, 2667-2675.  | 6.6 | 37        |
| 84 | <i>Escherichia coli</i> $^{12}\text{C}$ -Galactosidase Inhibitors through Modifications at the Aglyconic Moiety: Experimental Evidence of Conformational Distortion in the Molecular Recognition Process. <i>Chemistry - A European Journal</i> , 2013, 19, 4262-4270. | 1.7 | 20        |
| 85 | Molecular Recognition of Rosmarinic Acid from <i>Salvia sclareoides</i> Extracts by Acetylcholinesterase: A New Binding Site Detected by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2013, 19, 6641-6649.  | 1.7 | 34        |
| 86 | Interactions of Bacterial Cell Division Protein FtsZ with C8-Substituted Guanine Nucleotide Inhibitors. A Combined NMR, Biochemical and Molecular Modeling Perspective. <i>Journal of the American Chemical Society</i> , 2013, 135, 16418-16428.                      | 6.6 | 28        |
| 87 | Lactose binding to human galectin-7 (p53-induced gene 1) induces long-range effects through the protein resulting in increased dimer stability and evidence for positive cooperativity. <i>Glycobiology</i> , 2013, 23, 508-523.                                       | 1.3 | 42        |
| 88 | Breaking Pseudo-Symmetry in Multiantennary Complex <i>N</i> -Glycans Using Lanthanide-Binding Tags and NMR Pseudo-Contact Shifts. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13789-13793.  | 7.2 | 71        |
| 89 | Recent advances on the application of NMR methods to study the conformation and recognition properties of carbohydrates. <i>Carbohydrate Chemistry</i> , 2012, , 192-214.  | 0.3 | 4         |
| 90 | Protein-Carbohydrate Interactions Studied by NMR: From Molecular Recognition to Drug Design. <i>Current Protein and Peptide Science</i> , 2012, 13, 816-830.   | 0.7 | 107       |



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|-----|---|-----|-----------|
| 91  | <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N backbone and side-chain chemical shift assignments for the 31 kDa human galectin-7 (p53-induced gene 1) homodimer, a pro-apoptotic lectin. <i>Biomolecular NMR Assignments</i> , 2012, 6, 127-129. | 0.4 | 15        |
| 92  | <sup>1</sup> H-N-Linked glycopeptides: conformational analysis and bioactivity as lectin ligands. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5916.   | 1.5 | 10        |
| 93  | Conformational analysis of seven-membered 1-N-aminosugars by NMR and molecular modelling. <i>New Journal of Chemistry</i> , 2012, 36, 1008.   | 1.4 | 10        |
| 94  | Fluorinated Carbohydrates as Lectin Ligands: Biorelevant Sensors with Capacity to Monitor Anomer Affinity in <sup>19</sup> F-NMR-Based Inhibitor Screening. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4354-4364.                       | 1.2 | 20        |
| 95  | The Interaction of Saccharides with Antibodies. A 3D View by Using NMR. , 2012, , 385-402.  |     | 3         |
| 96  | Symmetric dithiodigalactoside: strategic combination of binding studies and detection of selectivity between a plant toxin and human lectins. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5445.  | 1.5 | 47        |
| 97  | Application of NMR methods to the study of the interaction of natural products with biomolecular receptors. <i>Natural Product Reports</i> , 2011, 28, 1118.  | 5.2 | 31        |
| 98  | The interaction of La <sup>3+</sup> complexes of DOTA/DTPA glycoconjugates with the RCA120 lectin: a saturation transfer difference NMR spectroscopic study. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 725-734.                      | 1.1 | 5         |
| 99  | Towards sugar derivatives as toxin-blocking pharmaceuticals: STD NMR spectroscopy as versatile tool for affinity assessment in drug development. <i>Comptes Rendus Chimie</i> , 2011, 14, 96-101.   | 0.2 | 3         |
| 100 | Chiral Diaminopyrrolic Receptors for Selective Recognition of Mannosides, Part 2: A 3D View of the Recognition Modes by X-ray, NMR Spectroscopy, and Molecular Modeling. <i>Chemistry - A European Journal</i> , 2011, 17, 4821-4829.                   | 1.7 | 35        |
| 101 | New Cathepsin Inhibitors to Explore the Fluorophilic Properties of the S <sup>2</sup> Pocket of Cathepsin B: Design, Synthesis, and Biological Evaluation. <i>Chemistry - A European Journal</i> , 2011, 17, 5256-5260.                                 | 1.7 | 13        |
| 102 | Carbohydrate-Protein Interactions: A 3D View by NMR. <i>ChemBioChem</i> , 2011, 12, 990-1005.   | 1.3 | 76        |
| 103 | Structural aspects of binding of <sup>1</sup> H-linked digalactosides to human galectin-1. <i>Glycobiology</i> , 2011, 21, 1627-1641.   | 1.3 | 43        |
| 104 | NMR and molecular modeling reveal key structural features of synthetic nodulation factors. <i>Glycobiology</i> , 2011, 21, 824-833.   | 1.3 | 10        |
| 105 | Synthesis, Conformational Analysis, and Evaluation as Glycosidase Inhibitors of Two Ether-Bridged Iminosugars. <i>Journal of Carbohydrate Chemistry</i> , 2011, 30, 641-654.  | 0.4 | 14        |
| 106 | Effect of a serine-to-aspartate replacement on the recognition of chitin oligosaccharides by truncated hevemin. A 3D view by using NMR. <i>Carbohydrate Research</i> , 2010, 345, 1461-1468.  | 1.1 | 22        |
| 107 | Lectin-Based Drug Design: Combined Strategy to Identify Lead Compounds using STD NMR Spectroscopy, Solid-Phase Assays and Cell Binding for a Plant Toxin Model. <i>ChemMedChem</i> , 2010, 5, 415-419.  | 1.6 | 30        |
| 108 | Selective Recognition of <sup>1</sup> H-Mannosides by Synthetic Tripodal Receptors: A 3D View of the Recognition Mode by NMR. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 64-71.   | 1.2 | 23        |

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|-----|---|-----|-----------|
| 109 | A Chiral Pyrrolic Tripodal Receptor Enantioselectively Recognizes $\beta$ -Mannose and $\beta$ -Mannosides. <i>Chemistry - A European Journal</i> , 2010, 16, 414-418.  | 1.7 | 50        |
| 110 | Mimicking Chitin: Chemical Synthesis, Conformational Analysis, and Molecular Recognition of the $\beta$ (1 $\rightarrow$ 3)- <i>N</i> -Acetylchitopentaose Analogue. <i>Chemistry - A European Journal</i> , 2010, 16, 4239-4249.   | 1.7 | 7         |
| 111 | Insights into the Dynamics and Molecular Recognition Features of Glycopeptides by Protein Receptors: The 3D Solution Structure of Hevein Bound to the Trisaccharide Core of <i>N</i> -Glycoproteins. <i>Chemistry - A European Journal</i> , 2010, 16, 10715-10726.                       | 1.7 | 16        |
| 112 | Diffusion nuclear magnetic resonance spectroscopy detects substoichiometric concentrations of small molecules in protein samples. <i>Analytical Biochemistry</i> , 2010, 396, 117-123.  | 1.1 | 8         |
| 113 | Insights on the conformational properties of hyaluronic acid by using NMR residual dipolar couplings and MD simulations. <i>Glycobiology</i> , 2010, 20, 1208-1216.   | 1.3 | 25        |
| 114 | N-domain of human adhesion/growth-regulatory galectin-9: Preference for distinct conformers and non-sialylated N-glycans and detection of ligand-induced structural changes in crystal and solution. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1019-1029. | 1.2 | 47        |
| 115 | Characterization of caged compounds binding to proteins by NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2010, 400, 447-451.   | 1.0 | 2         |
| 116 | Binding of $\beta$ -D-Glucosides and $\beta$ -D-Mannosides by Rice and Barley $\beta$ -D-Glycosidases with Distinct Substrate Specificities. <i>Biochemistry</i> , 2010, 49, 8779-8793.   | 1.2 | 15        |
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