

Angeles Canales

List of Publications by Year in descending order

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papers

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147786

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92
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docs citations

92
times ranked

4911
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformational and Structural characterization of carbohydrates and their interactions studied by NMR. <i>Current Medicinal Chemistry</i> , 2021, 28, .	2.4	2
2	Competitive upconversion-linked immunoassay using peptide mimetics for the detection of the mycotoxin zearalenone. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112683.	10.1	36
3	Structural Basis of Noscapine Activation for Tubulin Binding. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 8495-8501.	6.4	30
4	Efficient Chemoenzymatic Synthesis of N-glycans with a β 1,4-Galactosylated Bisecting GlcNAc Motif. <i>ChemBioChem</i> , 2020, 21, 3212-3215.	2.6	12
5	Self-Adaptation of <i>Pseudomonas fluorescens</i> Biofilms to Hydrodynamic Stress. <i>Frontiers in Microbiology</i> , 2020, 11, 588884.	3.5	17
6	Glycosylated Cell-Penetrating Peptides (GCPPs). <i>ChemBioChem</i> , 2019, 20, 1400-1409.	2.6	19
7	Insights into real-time chemical processes in a calcium sensor protein-directed dynamic library. <i>Nature Communications</i> , 2019, 10, 2798.	12.8	16
8	Molecular dynamics study of nanoconfined TIP4P/2005 water: how confinement and temperature affect diffusion and viscosity. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13653-13667.	2.8	59
9	Synthesis, Profiling, and Bioactive Conformation of trans ϵ -Cyclopropyl Epothilones. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900078.	1.6	3
10	Chameleon-like behavior of indolylpiperidines in complex with cholinesterases targets: Potent butyrylcholinesterase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018, 145, 431-444.	5.5	18
11	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.	2.0	10
12	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.	13.8	23
13	Breaking the limits in analyzing carbohydrate recognition by NMR: Resolving Branch-Selective Interaction of a Tetraantennary N-glycan with lectins. <i>FASEB Journal</i> , 2018, 32, 544.15.	0.5	0
14	Triazolopyrimidines Are Microtubule-Stabilizing Agents that Bind the Vinca Inhibitor Site of Tubulin. <i>Cell Chemical Biology</i> , 2017, 24, 737-750.e6.	5.2	58
15	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.	13.8	47
16	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.	2.0	8
17	Development of a Nucleotide Exchange Inhibitor That Impairs Ras Oncogenic Signaling. <i>Chemistry - A European Journal</i> , 2017, 23, 1676-1685.	3.3	13
18	Interactions between a Heparin Trisaccharide Library and FGF-1 Analyzed by NMR Methods. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1293.	4.1	13

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19	Hidden α -helical propensity segments within disordered regions of the transcriptional activator CHOP. PLoS ONE, 2017, 12, e0189171.	2.5	6
20	Synthesis, Biological Profiling and Determination of the Tubulin-Bound Conformation of 12-Aza-Epothilones (Azathilones). Molecules, 2016, 21, 1010.	3.8	6
21	Insights into the C-terminal Peptide Binding Specificity of the PDZ Domain of Neuronal Nitric-oxide Synthase. Journal of Biological Chemistry, 2016, 291, 11581-11595.	3.4	25
22	Structural and Biochemical Characterization of the Interaction of Tubulin with Potent Natural Analogues of Podophyllotoxin. Journal of Natural Products, 2016, 79, 2113-2121.	3.0	26
23	Diastereomeric Glycosyl Sulfoxides Display Different Recognition Features versus <i>E. coli</i> β -Galactosidase. European Journal of Organic Chemistry, 2016, 2016, 5117-5122.	2.4	9
24	Unraveling the Conformational Landscape of Ligand Binding to Glucose/Galactose-Binding Protein by Paramagnetic NMR and MD Simulations. ACS Chemical Biology, 2016, 11, 2149-2157.	3.4	25
25	Thiodisaccharide Sulfoxides: Absolute Configuration of the SO Sulfur Atom and Influence on the Biological Activity towards the β -Galactosidase from <i>E. coli</i> . European Journal of Organic Chemistry, 2015, 2015, 1448-1455.	2.4	8
26	Dextrans produced by lactic acid bacteria exhibit antiviral and immunomodulatory activity against salmonid viruses. Carbohydrate Polymers, 2015, 124, 292-301.	10.2	94
27	Novel pH-Stable Glycoside Hydrolase Family 3 β -Xylosidase from <i>Talaromyces amestolkiae</i> : an Enzyme Displaying Regioselective Transxylosylation. Applied and Environmental Microbiology, 2015, 81, 6380-6392.	3.1	39
28	New Inhibitors of Angiogenesis with Antitumor Activity in Vivo. Journal of Medicinal Chemistry, 2015, 58, 3757-3766.	6.4	18
29	Advanced NMR Techniques: Defining Carbohydrate Structures and Ligand-Receptor Interactions. , 2015, , 121-146.		0
30	Solution Conformation of Carbohydrates: A View by Using NMR Assisted by Modeling. Methods in Molecular Biology, 2015, 1273, 261-287.	0.9	7
31	Importance of the polarity of the glycosaminoglycan chain on the interaction with FGF-1. Glycobiology, 2014, 24, 1004-1009.	2.5	24
32	Taxanes with high potency inducing tubulin assembly overcome tumoural cell resistances. Bioorganic and Medicinal Chemistry, 2014, 22, 5078-5090.	3.0	35
33	Lanthanide-Chelating Carbohydrate Conjugates Are Useful Tools To Characterize Carbohydrate Conformation in Solution and Sensitive Sensors to Detect Carbohydrate-Protein Interactions. Journal of the American Chemical Society, 2014, 136, 8011-8017.	13.7	51
34	Molecular Recognition of Epothilones by Microtubules and Tubulin Dimers Revealed by Biochemical and NMR Approaches. ACS Chemical Biology, 2014, 9, 1033-1043.	3.4	30
35	A Reversible and Selective Inhibitor of Monoacylglycerol Lipase Ameliorates Multiple Sclerosis. Angewandte Chemie - International Edition, 2014, 53, 13765-13770.	13.8	91
36	Exploring NMR methods as a tool to select suitable fluorescent nucleotide analogues. Organic and Biomolecular Chemistry, 2013, 11, 5332.	2.8	6

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37	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.	2.6	40
38	A structure-based design of new C2- and C13-substituted taxanes: tubulin binding affinities and extended quantitative structure-activity relationships using comparative binding energy (COMBINE) analysis. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3046.	2.8	22
39	New Interfacial Microtubule Inhibitors of Marine Origin, PM050489/PM060184, with Potent Antitumor Activity and a Distinct Mechanism. <i>ACS Chemical Biology</i> , 2013, 8, 2084-2094.	3.4	57
40	Insights into the Glycosaminoglycan-Mediated Cytotoxic Mechanism of Eosinophil Cationic Protein Revealed by NMR. <i>ACS Chemical Biology</i> , 2013, 8, 144-151.	3.4	27
41	Breaking Pseudo-Symmetry in Multiantennary Complex N-Glycans Using Lanthanide-Binding Tags and NMR Pseudo-Contact Shifts. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13789-13793.	13.8	71
42	Unraveling the Interaction between the LPS Antigen of <i>Burkholderia anthina</i> and the 5D8 Monoclonal Antibody by Using a Multidisciplinary Chemical Approach, with Synthesis, NMR, and Molecular Modeling Methods. <i>ChemBioChem</i> , 2013, 14, 1485-1493.	2.6	8
43	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
44	Tubulin Binding, Protein-Bound Conformation in Solution, and Antimitotic Cellular Profiling of Noscapine and Its Derivatives. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1920-1925.	6.4	25
45	Review: use of residual dipolar couplings to determine the structure of carbohydrates. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, S80-5.	1.9	24
46	Zampanolide, a Potent New Microtubule-Stabilizing Agent, Covalently Reacts with the Taxane Luminal Site in Tubulin α , β -Heterodimers and Microtubules. <i>Chemistry and Biology</i> , 2012, 19, 686-698.	6.0	81
47	Structure-Activity Relationship of a New Series of Reversible Dual Monoacylglycerol Lipase/Fatty Acid Amide Hydrolase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 824-836.	6.4	30
48	Synthesis and characterization of a paramagnetic sialic acid conjugate as probe for magnetic resonance applications. <i>Carbohydrate Research</i> , 2012, 354, 21-31.	2.3	6
49	Modulation of Microtubule Interprotofilament Interactions by Modified Taxanes. <i>Biophysical Journal</i> , 2011, 101, 2970-2980.	0.5	28
50	Unravelling the gallic acid degradation pathway in bacteria: the gal cluster from <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 2011, 79, 359-374.	2.5	72
51	Insights into the Interaction of Discodermolide and Docetaxel with Tubulin. Mapping the Binding Sites of Microtubule-Stabilizing Agents by Using an Integrated NMR and Computational Approach. <i>ACS Chemical Biology</i> , 2011, 6, 789-799.	3.4	46
52	A rigid lanthanide binding tag for NMR structural analysis of carbohydrates. <i>Chemical Communications</i> , 2011, 47, 7179.	4.1	36
53	Conformational Selection of the AGA*IA _M Heparin Pentasaccharide when Bound to the Fibroblast Growth Factor Receptor. <i>Chemistry - A European Journal</i> , 2011, 17, 11204-11209.	3.3	32
54	Characterization of SMG-9, an essential component of the nonsense-mediated mRNA decay SMG1C complex. <i>Nucleic Acids Research</i> , 2011, 39, 347-358.	14.5	384

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55	Molecular Recognition of Peloruside A by Microtubules. The C24 Primary Alcohol is Essential for Biological Activity. <i>ChemBioChem</i> , 2010, 11, 1669-1678.	2.6	22
56	Antimicrobial Peptides and Their Superior Fluorinated Analogues: Structure–Activity Relationships as Revealed by NMR Spectroscopy and MD Calculations. <i>ChemBioChem</i> , 2010, 11, 2424-2432.	2.6	7
57	Gentisic Acid, a Compound Associated with Plant Defense and a Metabolite of Aspirin, Heads a New Class of in Vivo Fibroblast Growth Factor Inhibitors. <i>Journal of Biological Chemistry</i> , 2010, 285, 11714-11729.	3.4	87
58	Short-Term Monotherapy in HIV-Infected Patients with a Virus Entry Inhibitor Against the gp41 Fusion Peptide. <i>Science Translational Medicine</i> , 2010, 2, 63re3.	12.4	70
59	Cell wall polysaccharides isolated from the fungus <i>Neotestudina rosatii</i> , one of the etiologic agents of mycetoma in man. <i>Glycoconjugate Journal</i> , 2009, 26, 1047-1054.	2.7	5
60	The Bound Conformation of Microtubule–Stabilizing Agents: NMR Insights into the Bioactive 3D Structure of Discodermolide and Dictyostatin. <i>Chemistry - A European Journal</i> , 2008, 14, 7557-7569.	3.3	62
61	Deciphering the genetic determinants for aerobic nicotinic acid degradation: The <i>nic</i> cluster from <i>Pseudomonas putida</i> KT2440. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11329-11334.	7.1	136
62	Reply to Behrman: "N-Formylmaleamic acid: An intermediate in nicotinic acid metabolism". <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, E89-E89.	7.1	1
63	NMR studies on the conformation of oligomannosides and their interaction with banana lectin. <i>Glycoconjugate Journal</i> , 2007, 24, 449-464.	2.7	15
64	A Simple Model System for the Study of Carbohydrate–Aromatic Interactions. <i>Journal of the American Chemical Society</i> , 2007, 129, 2890-2900.	13.7	98
65	NMR Investigations of Lectin–Carbohydrate Interactions. , 2007, , 51-73.		1
66	C-Disaccharides as Probes for Carbohydrate Recognition – Investigation of the Conformational Requirements for Binding of Disaccharide Mimetics of Sialyl Lewis X. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 645-654.	2.4	19
67	NMR Investigation of the Bound Conformation of Natural and Synthetic Oligomannosides to Banana Lectin. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1577-1585.	2.4	3
68	Temperature dependence of ligand–protein complex formation as reflected by saturation transfer difference NMR experiments. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 745-748.	1.9	27
69	Synthesis and NMR experiments of (4,5,6- ¹³ C)-deoxymannojirimycin. A new entry to ¹³ C-labeled glycosidase inhibitors. <i>Carbohydrate Research</i> , 2007, 342, 1805-1812.	2.3	8
70	Isolation and structural determination of a unique polysaccharide containing mannofuranose from the cell wall of the fungus <i>Acrosporum compressum</i> . <i>Glycoconjugate Journal</i> , 2007, 24, 421-428.	2.7	12
71	NMR Determination of the Bioactive Conformation of Peloruside A Bound To Microtubules. <i>Journal of the American Chemical Society</i> , 2006, 128, 8757-8765.	13.7	62
72	Conformational insights on the molecular recognition processes of carbohydrate molecules by proteins and enzymes: A 3D view by using NMR. <i>Biocatalysis and Biotransformation</i> , 2006, 24, 13-22.	2.0	9

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73	Protein-Carbohydrate Interactions: A Combined Theoretical and NMR Experimental Approach on Carbohydrate-Aromatic Interactions and on Pyranose Ring Distortion. ACS Symposium Series, 2006, , 60-80.	0.5	7
74	Solution NMR structure of a human FGF-1 monomer, activated by a hexasaccharide heparin-analogue. FEBS Journal, 2006, 273, 4716-4727.	4.7	57
75	Supramolecular pseudo-rotaxane type complexes from β -extended TTF dimer crown ether and C60. Tetrahedron, 2006, 62, 1998-2002.	1.9	39
76	Backbone dynamics of a biologically active human FGF-1 monomer, complexed to a hexasaccharide heparin-analogue, by ^{15}N NMR relaxation methods. Journal of Biomolecular NMR, 2006, 35, 225-239.	2.8	20
77	Enhanced signal dispersion in saturation transfer difference experiments by conversion to a 1D-STD-homodecoupled spectrum. Journal of Biomolecular NMR, 2006, 36, 103-109.	2.8	4
78	Determination of the Bound Conformation of a Competitive Nanomolar Inhibitor of Mycobacterium tuberculosis Type II Dehydroquinase by NMR Spectroscopy. ChemMedChem, 2006, 1, 990-996.	3.2	12
79	Hevein Domains: An Attractive Model to Study Carbohydrate-Protein Interactions at Atomic Resolution. Advances in Carbohydrate Chemistry and Biochemistry, 2006, 60, 303-354.	0.9	55
80	Molecular Characterization of the Gallate Dioxygenase from Pseudomonas putida KT2440. Journal of Biological Chemistry, 2005, 280, 35382-35390.	3.4	53
81	Conformational Flexibility of a Synthetic Glycosylaminoglycan Bound to a Fibroblast Growth Factor. FGF-1 Recognizes Both the 1C4 and 2SO Conformations of a Bioactive Heparin-like Hexasaccharide. Journal of the American Chemical Society, 2005, 127, 5778-5779.	13.7	69
82	Limited Flexibility of Lactose Detected from Residual Dipolar Couplings Using Molecular Dynamics Simulations and Steric Alignment Methods. Journal of the American Chemical Society, 2005, 127, 3589-3595.	13.7	53
83	NMR experiments for the measurement of proton-proton and carbon-carbon residual dipolar couplings in uniformly labelled oligosaccharides. Journal of Biomolecular NMR, 2003, 26, 345-353.	2.8	23
84	NMR investigations of protein-carbohydrate interactions: insights into the topology of the bound conformation of a lactose isomer and β -galactosyl xyloses to mistletoe lectin and galectin-1. Biochimica Et Biophysica Acta - General Subjects, 2001, 1568, 225-236.	2.4	31
85	CHAPTER 5. Lanthanide-Chelating Carbohydrate Conjugates to Detect Carbohydrate-Protein Interactions. New Developments in NMR, 0, , 150-160.	0.1	1