Jesus Jimenez-Barbero

List of Publications by Year
in descending order

609 papers	22,020 citations	11651 70 h-index	27406 106 g-index
649 all docs	649 docs citations	649 times ranked	18348 citing authors

#	Article	IF	Citations
1	Chemical Biology of the Sugar Code. ChemBioChem, 2004, 5, 740-764.	2.6	466
2	Multivalent glycoconjugates as anti-pathogenic agents. Chemical Society Reviews, 2013, 42, 4709-4727.	38.1	464
3	From lectin structure to functional glycomics: principles of the sugar code. Trends in Biochemical Sciences, 2011, 36, 298-313.	7.5	436
4	Carbohydrateâ€"Aromatic Interactions. Accounts of Chemical Research, 2013, 46, 946-954.	15.6	394
5	Lignin Composition and Structure in Young versus Adult<i>Eucalyptus globulus</i>Plants. Plant Physiology, 2011, 155, 667-682.	4.8	263
6	Molecular Recognition of Saccharides by Proteins. Insights on the Origin of the Carbohydrateâ^'Aromatic Interactions. Journal of the American Chemical Society, 2005, 127, 7379-7386.	13.7	214
7	Monolignol acylation and lignin structure in some nonwoody plants: A 2D NMR study. Phytochemistry, 2008, 69, 2831-2843.	2.9	197
8	Chemistry of Lipidâ€…A: At the Heart of Innate Immunity. Chemistry - A European Journal, 2015, 21, 500-519.	3.3	193
9	A guide into glycosciences: How chemistry, biochemistry and biology cooperate to crack the sugar code. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 186-235.	2.4	188
10	Highly Acylated (Acetylated and/or <i>p</i>-Coumaroylated) Native Lignins from Diverse Herbaceous Plants. Journal of Agricultural and Food Chemistry, 2008, 56, 9525-9534.	5.2	172
11	Structural Characterization of the Lignin in the Cortex and Pith of Elephant Grass (<i>Pennisetum) Tj ETQq1 1 0.784314 rgBT /Overlock	5.2	172
12	Structural Characterization of the Lignin from Jute (<i>Corchorus capsularis</i>) Fibers. Journal of Agricultural and Food Chemistry, 2009, 57, 10271-10281.	5.2	163
13	A comparison and chemometric analysis of several molecular mechanics force fields and parameter sets applied to carbohydrates. Carbohydrate Research, 1998, 314, 141-155.	2.3	150
14	Solution Structures of Chemoenzymatically Synthesized Heparin and Its Precursors. Journal of the American Chemical Society, 2008, 130, 12998-13007.	13.7	149
15	Structural characterization of milled wood lignins from different eucalypt species. Holzforschung, 2008, 62, 514-526.	1.9	147
16	Deciphering the genetic determinants for aerobic nicotinic acid degradation: The <i>nic</i> cluster from <i>Pseudomonas putida</i> KT2440. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11329-11334.	7.1	136
17	Isolation and structural characterization of the milled-wood lignin from Paulownia fortunei wood. Industrial Crops and Products, 2009, 30, 137-143.	5.2	135
18	A Synthetic Lectin for Oâ€Linked Î²â€<i>N</i>â€Acetylglucosamine. Angewandte Chemie - International Edition, 2009, 48, 1775-1779.	13.8	133

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19	5â€hydroxymethylfurfural conversion by fungal arylâ€alcohol oxidase and unspecific peroxygenase. FEBS Journal, 2015, 282, 3218-3229.	4.7	132
20	Structural basis for chitin recognition by defense proteins: GlcNAc residues are bound in a multivalent fashion by extended binding sites in hevein domains. Chemistry and Biology, 2000, 7, 529-543.	6.0	131
21	Unique Conformer Selection of Human Growth-Regulatory Lectin Galectin-1 for Ganglioside GM₁ versus Bacterial Toxins[,]. Biochemistry, 2003, 42, 14762-14773.	2.5	131
22	HSQC-NMR analysis of lignin in woody (<i>Eucalyptus globulus</i> and <i>Picea abies</i>) and non-woody (<i>Agave sisalana</i>) ball-milled plant materials at the gel state 10th EWLP, Stockholm, Sweden, August 25â€“28, 2008. Holzforschung, 2009, 63, 691-698.	1.9	130
23	NHCâ€Capped Cyclodextrins (ICyDs): Insulated Metal Complexes, Commutable Multicoordination Sphere, and Cavityâ€Dependent Catalysis. Angewandte Chemie - International Edition, 2013, 52, 7213-7218.	13.8	128
24	Serine versus Threonine Glycosylation:â€‰ The Methyl Group Causes a Drastic Alteration on the Carbohydrate Orientation and on the Surrounding Water Shell. Journal of the American Chemical Society, 2007, 129, 9458-9467.	13.7	127
25	Catching elusive glycosyl cations in a condensed phase with HF/SbF5 superacid. Nature Chemistry, 2016, 8, 186-191.	13.6	127
26	Medicinal Chemistry Based on the Sugar Code: Fundamentals of Lectinology and Experimental Strategies with Lectins as Targets. Current Medicinal Chemistry, 2000, 7, 389-416.	2.4	122
27	Free and protein-bound carbohydrate structures. Current Opinion in Structural Biology, 1999, 9, 549-555.	5.7	119
28	Lignin Modification duringEucalyptus globulusKraft Pulping Followed by Totally Chlorine-Free Bleaching:Â A Two-Dimensional Nuclear Magnetic Resonance, Fourier Transform Infrared, and Pyrolysisâ˜Gas Chromatography/Mass Spectrometry Study. Journal of Agricultural and Food Chemistry, 2007, 55, 3477-3490.	5.2	118
29	Polymerization of lignosulfonates by the laccase-HBT (1-hydroxybenzotriazole) system improves dispersibility. Bioresource Technology, 2010, 101, 5054-5062.	9.6	112
30	On the Importance of Carbohydrate-Aromatic Interactions for the Molecular Recognition of Oligosaccharides by Proteins: NMR Studies of the Structure and Binding Affinity of AcAMP2-like Peptides with Non-Natural Naphthyl and Fluoroaromatic Residues. Chemistry - A European Journal, 2005, 11, 7060-7074.	3.3	110
31	Protein-Carbohydrate Interactions Studied by NMR: From Molecular Recognition to Drug Design. Current Protein and Peptide Science, 2012, 13, 816-830.	1.4	107
32	Characterization of a Î²-fructofuranosidase from Schwanniomyces occidentalis with transfructosylating activity yielding the prebiotic 6-kestose. Journal of Biotechnology, 2007, 132, 75-81.	3.8	106
33	NMR studies of carbohydrateâ€“protein interactions in solution. Chemical Society Reviews, 1998, 27, 133.	38.1	105
34	The use of the AMBER force field in conformational analysis of carbohydrate molecules: Determination of the solution conformation of methyl ?-lactoside by NMR spectroscopy, assisted by molecular mechanics and dynamics calculations. Biopolymers, 1995, 35, 55-73.	2.4	102
35	Direct STDâ€...NMR Identification of Î²â€Galactosidase Inhibitors from a Virtual Dynamic Hemithioacetal System. Angewandte Chemie - International Edition, 2010, 49, 589-593.	13.8	102
36	The Interaction of Hevein with N-acetylglucosamine-containing Oligosaccharides. Solution Structure of Hevein Complexed to Chitobiose. FEBS Journal, 1995, 230, 621-633.	0.2	99

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37	EscherichiacoliÎ²-Galactosidase Recognizes a High-Energy Conformation of C-Lactose, a Nonhydrolizable Substrate Analogue. NMR and Modeling Studies of the Molecular Complex. Journal of the American Chemical Society, 1998, 120, 1309-1318.	13.7	98
38	A Simple Model System for the Study of Carbohydrateâˆ'Aromatic Interactions. Journal of the American Chemical Society, 2007, 129, 2890-2900.	13.7	98
39	Galacto-oligosaccharide Synthesis from Lactose Solution or Skim Milk Using the Î²-Galactosidase from Bacillus circulans. Journal of Agricultural and Food Chemistry, 2012, 60, 6391-6398.	5.2	96
40	Towards Defining the Role of Glycans as Hardware in Information Storage and Transfer: Basic Principles, Experimental Approaches and Recent Progress. Cells Tissues Organs, 2001, 168, 5-23.	2.3	95
41	Enthalpic Nature of the CH/Ï€ Interaction Involved in the Recognition of Carbohydrates by Aromatic Compounds, Confirmed by a Novel Interplay of NMR, Calorimetry, and Theoretical Calculations. Journal of the American Chemical Society, 2009, 131, 18129-18138.	13.7	94
42	Bovine Heart Galectin-1 Selects a Unique (Syn) Conformation of C-Lactose, a Flexible Lactose Analogue. Journal of the American Chemical Society, 1999, 121, 8995-9000.	13.7	93
43	Selective lignin and polysaccharide removal in natural fungal decay of wood as evidenced by <i>in situ</i> structural analyses. Environmental Microbiology, 2011, 13, 96-107.	3.8	93
44	Production of Galacto-oligosaccharides by the Î²-Galactosidase from Kluyveromyces lactis: Comparative Analysis of Permeabilized Cells versus Soluble Enzyme. Journal of Agricultural and Food Chemistry, 2011, 59, 10477-10484.	5.2	92
45	Structural Characterization of Guaiacyl-rich Lignins in Flax (Linum usitatissimum) Fibers and Shives. Journal of Agricultural and Food Chemistry, 2011, 59, 11088-11099.	5.2	92
46	Recent Developments in Synthetic Carbohydrateâ€Based Diagnostics, Vaccines, and Therapeutics. Chemistry - A European Journal, 2015, 21, 10616-10628.	3.3	92
47	1D Saturation Transfer Difference NMR Experiments on Living Cells: The DC-SIGN/Oligomannose Interaction. Angewandte Chemie - International Edition, 2005, 44, 296-298.	13.8	91
48	Novel vaccines targeting dendritic cells by coupling allergoids to nonoxidized mannan enhance allergen uptake and induce functional regulatory TÂcells through programmed death ligand 1. Journal of Allergy and Clinical Immunology, 2016, 138, 558-567.e11.	2.9	91
49	The first synthesis of substituted azepanes mimicking monosaccharides: a new class of potent glycosidase inhibitors. Organic and Biomolecular Chemistry, 2004, 2, 1492-1499.	2.8	90
50	The use of CVFF and CFF91 force fields in conformational analysis of carbohydrate molecules. Comparison with AMBER molecular mechanics and dynamics calculations for methyl Î±-lactoside. International Journal of Biological Macromolecules, 1995, 17, 137-148.	7.5	88
51	Gentisic Acid, a Compound Associated with Plant Defense and a Metabolite of Aspirin, Heads a New Class of in Vivo Fibroblast Growth Factor Inhibitors. Journal of Biological Chemistry, 2010, 285, 11714-11729.	3.4	87
52	The recognition of glycans by protein receptors. Insights from NMR spectroscopy. Chemical Communications, 2018, 54, 4761-4769.	4.1	86
53	Conformational Selection of Glycomimetics at Enzyme Catalytic Sites:â€‰ Experimental Demonstration of the Binding of Distinct High-Energy Distorted Conformations of C-, S-, and O-Glycosides by E. Coli Î²-Galactosidases. Journal of the American Chemical Society, 2002, 124, 4804-4810.	13.7	85
54	Experimental Evidence of Conformational Differences betweenC-Glycosides andO-Glycosides in Solution and in the Protein-Bound State:Â TheC-Lactose/O-Lactose Case. Journal of the American Chemical Society, 1996, 118, 10862-10871.	13.7	84

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55	Conformational Differences Between O- and C-Glycosides: TheÎ±-O-Man-(1â†'1)-Î²-Gal/Î±-C-Man-(1â†'1)-Î²-Gal Case- A Decisive Demonstration of the Importance of theexo-Anomeric Effect on the Conformation of Glycosides. Chemistry - A European Journal, 2000, 6, 1035-1041.	3.3	83
56	Synthesis and Molecular Recognition Studies of the HNK-1 Trisaccharide and Related Oligosaccharides. The Specificity of Monoclonal Anti-HNK-1 Antibodies as Assessed by Surface Plasmon Resonance and STD NMR. Journal of the American Chemical Society, 2012, 134, 426-435.	13.7	82
57	Tightening or loosening a pH-sensitive double-lasso molecular machine readily synthesized from an ends-activated [c2]daisy chain. Chemical Science, 2012, 3, 1851.	7.4	82
58	Well-Defined Oligo- and Polysaccharides as Ideal Probes for Structural Studies. Journal of the American Chemical Society, 2018, 140, 5421-5426.	13.7	82
59	Zampanolide, a Potent New Microtubule-Stabilizing Agent, Covalently Reacts with the Taxane Luminal Site in Tubulin Î±,Î²-Heterodimers and Microtubules. Chemistry and Biology, 2012, 19, 686-698.	6.0	81
60	Structural Characterization of Nâ€Linked Glycans in the Receptor Binding Domain of the SARSâ€CoVâ€2 Spike Protein and their Interactions with Human Lectins. Angewandte Chemie - International Edition, 2020, 59, 23763-23771.	13.8	81
61	Discovery and Characterization of an Endogenous CXCR4 Antagonist. Cell Reports, 2015, 11, 737-747.	6.4	80
62	Molecular Recognition of Carbohydrates Using a Synthetic Receptor. A Model System to Understand the Stereoselectivity of a Carbohydrate-Carbohydrate Interaction in Water. Journal of the American Chemical Society, 1995, 117, 11198-11204.	13.7	79
63	New Insights into Î±-GalNAcâ^ˆ'Ser Motif:â€‰ Influence of Hydrogen Bonding versus Solvent Interactions on the Preferred Conformation. Journal of the American Chemical Society, 2006, 128, 14640-14648.	13.7	78
64	Natural Compounds against Alzheimerâ€™s Disease: Molecular Recognition of AÎ²1â€"42 Peptide by <i>Salvia sclareoides</i> Extract and its Major Component, Rosmarinic Acid, as Investigated by NMR. Chemistry - an Asian Journal, 2013, 8, 596-602.	3.3	77
65	Fluorinated carbohydrates as chemical probes for molecular recognition studies. Current status and perspectives. Chemical Society Reviews, 2020, 49, 3863-3888.	38.1	77
66	Carbohydrateâ€"Protein Interactions: A 3D View by NMR. ChemBioChem, 2011, 12, 990-1005.	2.6	76
67	NMR investigations of protein-carbohydrate interactions: refined three-dimensional structure of the complex between hevein and methyl Â-chitobioside. Glycobiology, 1998, 8, 569-577.	2.5	75
68	NMR and Modeling Studies of Protein-Carbohydrate Interactions: Synthesis, Three-Dimensional Structure, and Recognition Properties of a Minimum Hevein Domain with Binding Affinity for Chitooligosaccharides. ChemBioChem, 2004, 5, 1245-1255.	2.6	75
69	Aromaticâ€"Carbohydrate Interactions: An NMR and Computational Study of Model Systems. Chemistry - A European Journal, 2008, 14, 7570-7578.	3.3	75
70	Diffusion ordered spectroscopy as a complement to size exclusion chromatography in oligosaccharide analysis. Glycobiology, 2004, 14, 451-456.	2.5	73
71	Exploring the Use of Conformationally Locked Aminoglycosides as a New Strategy to Overcome Bacterial Resistance. Journal of the American Chemical Society, 2006, 128, 100-116.	13.7	73
72	Analysis of ligninâ€"carbohydrate and ligninâ€"lignin linkages after hydrolase treatment of xylanâ€"lignin, glucomannanâ€"lignin and glucanâ€"lignin complexes from spruce wood. Planta, 2014, 239, 1079-90.	3.2	73

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73	Structural Basis of Ligand Binding to UDP-Galactopyranose Mutase from <i>Mycobacterium tuberculosis</i> Using Substrate and Tetrafluorinated Substrate Analogues. Journal of the American Chemical Society, 2015, 137, 1230-1244.	13.7	73
74	Samarium Diiodide PromotedC-Glycosylation: An Application to the Stereospecific Synthesis ofÎ±-1,2-C-Mannobioside and Its Derivatives. Chemistry - A European Journal, 1999, 5, 430-441.	3.3	72
75	Unravelling the gallic acid degradation pathway in bacteria: the <i>gal</i> cluster from <i>Pseudomonas putida</i>. Molecular Microbiology, 2011, 79, 359-374.	2.5	72
76	New structural insights into carbohydrateâ€“protein interactions from NMR spectroscopy. Current Opinion in Structural Biology, 2003, 13, 646-653.	5.7	71
77	Breaking Pseudoâ€Symmetry in Multiantennary Complex Nâ€Glycans Using Lanthanideâ€Binding Tags and NMR Pseudoâ€Contact Shifts. Angewandte Chemie - International Edition, 2013, 52, 13789-13793.	13.8	71
78	Short-Term Monotherapy in HIV-Infected Patients with a Virus Entry Inhibitor Against the gp41 Fusion Peptide. Science Translational Medicine, 2010, 2, 63re3.	12.4	70
79	Antimicrobial Peptides: Insights into Membrane Permeabilization, Lipopolysaccharide Fragmentation and Application in Plant Disease Control. Scientific Reports, 2015, 5, 11951.	3.3	70
80	Carbohydrate Hydrogen-Bonding Cooperativity âˆ’ Intramolecular Hydrogen Bonds and Their Cooperative Effect on Intermolecular Processes âˆ’ Binding to a Hydrogen-Bond Acceptor Molecule. European Journal of Organic Chemistry, 2002, 2002, 840-855.	2.4	69
81	Intramolecular Carbohydrate-Aromatic Interactions and Intermolecular van der Waals Interactions Enhance the Molecular Recognition Ability of GM1 Glycomimetics for Cholera Toxin. Chemistry - A European Journal, 2004, 10, 4395-4406.	3.3	69
82	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
83	Kinetic and chemical characterization of aldehyde oxidation by fungal aryl-alcohol oxidase. Biochemical Journal, 2010, 425, 585-593.	3.7	69
84	Optimization of Taxane Binding to Microtubules: Binding Affinity Dissection and Incremental Construction of a High-Affinity Analog of Paclitaxel. Chemistry and Biology, 2008, 15, 573-585.	6.0	68
85	Regioselective Lipase-Catalyzed Synthesis of 3-<i>O</i>-Acyl Derivatives of Resveratrol and Study of Their Antioxidant Properties. Journal of Agricultural and Food Chemistry, 2010, 58, 807-813.	5.2	68
86	Modification of the Lignin Structure during Alkaline Delignification of Eucalyptus Wood by Kraft, Soda-AQ, and Soda-O₂Cooking. Industrial & Engineering Chemistry Research, 2013, 52, 15702-15712.	3.7	67
87	Levan versus fructooligosaccharide synthesis using the levansucrase from Zymomonas mobilis: Effect of reaction conditions. Journal of Molecular Catalysis B: Enzymatic, 2015, 119, 18-25.	1.8	66
88	Intra- and intermolecular interactions of human galectin-3: assessment by full-assignment-based NMR. Glycobiology, 2016, 26, 888-903.	2.5	66
89	Deciphering the Nonâ€Equivalence of Serine and Threonine <i>O</i>â€Glycosylation Points: Implications for Molecular Recognition of the Tn Antigen by an antiâ€MUC1 Antibody. Angewandte Chemie - International Edition, 2015, 54, 9830-9834.	13.8	65
90	Glycan structures and their interactions with proteins. A NMR view. Current Opinion in Structural Biology, 2020, 62, 22-30.	5.7	65

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91	Enzymatic Synthesis of Î±â€Glucosides of Resveratrol with Surfactant Activity. Advanced Synthesis and Catalysis, 2011, 353, 1077-1086.	4.3	64
92	Tetrafluorination of Sugars as Strategy for Enhancing Proteinâ€“Carbohydrate Affinity: Application to UDPâ€Gal<i>p</i> Mutase Inhibition. Chemistry - A European Journal, 2014, 20, 106-112.	3.3	64
93	NMR Determination of the Bioactive Conformation of Peloruside A Bound To Microtubules. Journal of the American Chemical Society, 2006, 128, 8757-8765.	13.7	62
94	Structural modification of eucalypt pulp lignin in a totally chlorine-free bleaching sequence including a laccase-mediator stage. Holzforschung, 2007, 61, 634-646.	1.9	62
95	The Bound Conformation of Microtubuleâ€Stabilizing Agents: NMR Insights into the Bioactive 3D Structure of Discodermolide and Dictyostatin. Chemistry - A European Journal, 2008, 14, 7557-7569.	3.3	62
96	Molecular Basis for Inhibition of GH84 Glycoside Hydrolases by Substituted Azepanes: Conformational Flexibility Enables Probing of Substrate Distortion. Journal of the American Chemical Society, 2009, 131, 5390-5392.	13.7	62
97	â€œRules of Engagementâ€•of Protein-Glycoconjugate Interactions: A Molecular View Achievable by using NMR Spectroscopy and Molecular Modeling. ChemistryOpen, 2016, 5, 274-296.	1.9	62
98	Glycans in drug discovery. MedChemComm, 2019, 10, 1678-1691.	3.4	62
99	Studies of the Bound Conformations of Methyl alpha-Lactoside and Methyl beta-Allolactoside to Ricin B Chain Using Transferred NOE Experiments in the Laboratory and Rotating Frames, Assisted by Molecular Mechanics and Dynamics Calculations. FEBS Journal, 1995, 233, 618-630.	0.2	60
100	Fluorinated Carbohydrates as Lectin Ligands: Versatile Sensors in ¹⁹Fâ€Detected Saturation Transfer Difference NMR Spectroscopy. Chemistry - A European Journal, 2009, 15, 5666-5668.	3.3	60
101	NMR investigations of protein-carbohydrate interactions: Studies on the relevance of Trp/Tyr variations in lectin binding sites as deduced from titration microcalorimetry and NMR studies on hevein domains. Determination of the NMR structure of the complex between pseudohevein and N,N?,N?-triacetylchitotriose. , 2000, 40, 218-236.		59
102	The conformation of C-glycosyl compounds. Advances in Carbohydrate Chemistry and Biochemistry, 2000, 56, 235-284.	0.9	59
103	Epoxide Opening versus Silica Condensation during Solâ€“Gel Hybrid Biomaterial Synthesis. Chemistry - A European Journal, 2013, 19, 7856-7864.	3.3	59
104	Glycosyl Inositol Derivatives Related to Inositolphosphoglycan Mediators: Synthesis, Structure, and Biological Activity. Chemistry - A European Journal, 1999, 5, 320-336.	3.3	58
105	Conformational Behavior of Aza-C-Glycosides:Â Experimental Demonstration of the Relative Role of theexo-anomericEffect and 1,3-Type Interactions in Controlling the Conformation of Regular Glycosides. Journal of the American Chemical Society, 1999, 121, 11318-11329.	13.7	58
106	Triazolopyrimidines Are Microtubule-Stabilizing Agents that Bind the Vinca Inhibitor Site of Tubulin. Cell Chemical Biology, 2017, 24, 737-750.e6.	5.2	58
107	Effect of the Presence of Î²-Cyclodextrin on the Solution Behavior of Procaine Hydrochloride. Spectroscopic and Thermodynamic Studies. Langmuir, 2000, 16, 1557-1565.	3.5	57
108	Solution NMR structure of a human FGF-1 monomer, activated by a hexasaccharide heparin-analogue. FEBS Journal, 2006, 273, 4716-4727.	4.7	57

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109	New Interfacial Microtubule Inhibitors of Marine Origin, PM050489/PM060184, with Potent Antitumor Activity and a Distinct Mechanism. ACS Chemical Biology, 2013, 8, 2084-2094.	3.4	57
110	Conformational Differences of O- and C-Glycosides in the Protein-Bound State: Different Conformations of C-Lactose and Its O-Analogue are Recognized by Ricin B, a Galactose-Binding Protein. Angewandte Chemie International Edition in English, 1996, 35, 303-306.	4.4	56
111	Minimizing the Entropy Penalty for Ligand Binding: Lessons from the Molecular Recognition of the Histo Bloodâ€Group Antigens by Human Galectinâ€3. Angewandte Chemie - International Edition, 2019, 58, 7268-7272.	13.8	56
112	Hevein Domains: An Attractive Model to Study Carbohydrateâ€"Protein Interactions at Atomic Resolution. Advances in Carbohydrate Chemistry and Biochemistry, 2006, 60, 303-354.	0.9	55
113	Chemical Clockwise Tridifferentiation of Î±â€•and Î²â€Cyclodextrins: Basculeâ€Bridge or Deoxyâ€Sugars Strategies. Chemistry - A European Journal, 2007, 13, 9757-9774.	3.3	54
114	Conformation of Glycomimetics in the Free and Protein-Bound State:Â Structural and Binding Features of theC-glycosyl Analogue of the Core Trisaccharide Î±-d-Man-(1 â†' 3)-[Î±-d-Man-(1 â†' 6)]-d-Man. Journal of the American Chemical Society, 2002, 124, 14940-14951.	13.7	53
115	Synthesis and Conformational Analysis of Novel N(OCH3)-linked Disaccharide Analogues. Chemistry - A European Journal, 2004, 10, 1433-1444.	3.3	53
116	Molecular Characterization of the Gallate Dioxygenase from Pseudomonas putida KT2440. Journal of Biological Chemistry, 2005, 280, 35382-35390.	3.4	53
117	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
118	Carbonate hydroxyapatite functionalization: a comparative study towards (bio)molecules fixation. Interface Focus, 2014, 4, 20130040.	3.0	53
119	The Conformational Behaviour of Non-Hydrolizable Lactose Analogues: The Thioglycoside, Carbaglycoside, and Carba-Iminoglycoside Cases. European Journal of Organic Chemistry, 2000, 2000, 1945-1952.	2.4	52
120	Synthesis and Conformational Analysis of (Î±â€‹<scp>D</scp>â€Galactosyl)phenylmethane and Î±â€‚Î²â€Difluoromethane Analogues: Interactions with the Plant Lectin Viscumin. Chemistry - A European Journal, 2009, 15, 2861-2873.	3.3	52
121	Synthetic, Zwitterionic Sp1 Oligosaccharides Adopt a Helical Structure Crucial for Antibody Interaction. ACS Central Science, 2019, 5, 1407-1416.	11.3	52
122	Novel NMR Avenues to Explore the Conformation and Interactions of Glycans. ACS Omega, 2019, 4, 13618-13630.	3.5	52
123	Dissecting the Essential Role of Anomeric Î²-Triflates in Glycosylation Reactions. Journal of the American Chemical Society, 2020, 142, 12501-12514.	13.7	52
124	Studies on the molecular recognition of synthetic methyl beta-lactoside analogs by ricin, a cytotoxic plant lectin. FEBS Journal, 1991, 197, 217-228.	0.2	51
125	Hydrogen-bonding pattern of methyl beta-lactoside binding to the Ricinus communis lectins. FEBS Journal, 1993, 214, 677-683.	0.2	51
126	The Solid State, Solution and Tubulin-Bound Conformations of Agents that Promote Microtubule Stabilization. Anti-Cancer Agents in Medicinal Chemistry, 2012, 2, 91-122.	7.0	51

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127	Lanthanide-Chelating Carbohydrate Conjugates Are Useful Tools To Characterize Carbohydrate Conformation in Solution and Sensitive Sensors to Detect Carbohydrateâ€“Protein Interactions. Journal of the American Chemical Society, 2014, 136, 8011-8017.	13.7	51
128	Structure-Based Design of Potent Tumor-Associated Antigens: Modulation of Peptide Presentation by Single-Atom O/S or O/Se Substitutions at the Glycosidic Linkage. Journal of the American Chemical Society, 2019, 141, 4063-4072.	13.7	51
129	Conformational Differences BetweenC- andO-Glycosides: TheÎ±-C-Mannobiose/Î±-O-Mannobiose Case. Chemistry - A European Journal, 1999, 5, 442-448.	3.3	50
130	Synthesis and Self-Association of syn-5,10,15-Trialkylated Truxenes. Chemistry - A European Journal, 2002, 8, 2879.	3.3	50
131	A Simple Structural-Based Approach to Prevent Aminoglycoside Inactivation by Bacterial Defense Proteins. Conformational Restriction Provides Effective Protection against Neomycin-B Nucleotidylation by ANT4. Journal of the American Chemical Society, 2005, 127, 8278-8279.	13.7	50
132	A Chiral Pyrrolic Tripodal Receptor Enantioselectively Recognizes Î²â€Mannose and Î²â€Mannosides. Chemistry - A European Journal, 2010, 16, 414-418.	3.3	50
133	A New Combined Computational and NMR-Spectroscopical Strategy for the Identification of Additional Conformational Constraints of the Bound Ligand in an Aprotic Solvent. ChemBioChem, 2000, 1, 181-195.	2.6	49
134	Application of the Anomeric Samarium Route for the Convergent Synthesis of theC-Linked Trisaccharide Î±-d-Man-(1â†'3)-[Î±-d-Man-(1â†'6)]-d-Man and the Disaccharides Î±-d-Man-(1â†'3)-d-Man and Î±-d-Man-(1â†'6)-d-Man. Journal of Organic Chemistry, 2002, 67, 6297-6308.	3.2	49
135	Hydrogen-Bonding Cooperativity: Using an Intramolecular Hydrogen Bond To Design a Carbohydrate Derivative with a Cooperative Hydrogen-Bond Donor Centre. Chemistry - A European Journal, 2004, 10, 4240-4251.	3.3	49
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