

Jesus Jimenez-Barbero

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608 papers	18,429 citations	65 h-index	97 g-index
649 ext. papers	20,271 ext. citations	6 avg, IF	6.51 L-index

#	Paper	IF	Citations
608	Chemical biology of the sugar code. <i>ChemBioChem</i> , 2004 , 5, 740-64	3.8	423
607	Multivalent glycoconjugates as anti-pathogenic agents. <i>Chemical Society Reviews</i> , 2013 , 42, 4709-27	58.5	399
606	From lectin structure to functional glycomics: principles of the sugar code. <i>Trends in Biochemical Sciences</i> , 2011 , 36, 298-313	10.3	381
605	Carbohydrate-aromatic interactions. <i>Accounts of Chemical Research</i> , 2013 , 46, 946-54	24.3	318
604	Lignin composition and structure in young versus adult Eucalyptus globulus plants. <i>Plant Physiology</i> , 2011 , 155, 667-82	6.6	212
603	Molecular recognition of saccharides by proteins. Insights on the origin of the carbohydrate-aromatic interactions. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7379-86	16.4	203
602	Monolignol acylation and lignin structure in some nonwoody plants: a 2D NMR study. <i>Phytochemistry</i> , 2008 , 69, 2831-43	4	183
601	A guide into glycosciences: How chemistry, biochemistry and biology cooperate to crack the sugar code. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 186-235	4	169
600	Structural characterization of the lignin in the cortex and pith of elephant grass (<i>Pennisetum purpureum</i>) stems. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 3619-34	5.7	150
599	Chemistry of lipid A: at the heart of innate immunity. <i>Chemistry - A European Journal</i> , 2015 , 21, 500-19	4.8	147
598	A comparison and chemometric analysis of several molecular mechanics force fields and parameter sets applied to carbohydrates. <i>Carbohydrate Research</i> , 1998 , 314, 141-155	2.9	141
597	Solution structures of chemoenzymatically synthesized heparin and its precursors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12998-3007	16.4	140
596	Highly acylated (acetylated and/or p-coumaroylated) native lignins from diverse herbaceous plants. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 9525-34	5.7	140
595	Structural characterization of the lignin from jute (<i>Corchorus capsularis</i>) fibers. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 10271-81	5.7	138
594	Structural characterization of milled wood lignins from different eucalypt species. <i>Holzforschung</i> , 2008 , 62,	2	125
593	A synthetic lectin for O-linked beta-N-acetylglucosamine. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1775-9	16.4	124
592	Unique conformer selection of human growth-regulatory lectin galectin-1 for ganglioside GM1 versus bacterial toxins. <i>Biochemistry</i> , 2003 , 42, 14762-73	3.2	116

591	Isolation and structural characterization of the milled-wood lignin from <i>Paulownia fortunei</i> wood. <i>Industrial Crops and Products</i> , 2009 , 30, 137-143	5.9	114
590	Structural basis for chitin recognition by defense proteins: GlcNAc residues are bound in a multivalent fashion by extended binding sites in hevein domains. <i>Chemistry and Biology</i> , 2000 , 7, 529-43		114
589	Serine versus threonine glycosylation: the methyl group causes a drastic alteration on the carbohydrate orientation and on the surrounding water shell. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9458-67	16.4	113
588	Deciphering the genetic determinants for aerobic nicotinic acid degradation: the nic cluster from <i>Pseudomonas putida</i> KT2440. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11329-34	11.5	112
587	Medicinal chemistry based on the sugar code: fundamentals of lectinology and experimental strategies with lectins as targets. <i>Current Medicinal Chemistry</i> , 2000 , 7, 389-416	4.3	109
586	Free and protein-bound carbohydrate structures. <i>Current Opinion in Structural Biology</i> , 1999 , 9, 549-55	8.1	108
585	Lignin modification during <i>Eucalyptus globulus</i> kraft pulping followed by totally chlorine-free bleaching: a two-dimensional nuclear magnetic resonance, Fourier transform infrared, and pyrolysis-gas chromatography/mass spectrometry study. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 3477-90	5.7	106
584	5-hydroxymethylfurfural conversion by fungal aryl-alcohol oxidase and unspecific peroxygenase. <i>FEBS Journal</i> , 2015 , 282, 3218-29	5.7	105
583	NHC-capped cyclodextrins (ICyDs): insulated metal complexes, commutable multicoordination sphere, and cavity-dependent catalysis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7213-8	16.4	105
582	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. <i>Chemistry - A European Journal</i> , 2007 , 11, 5868-74	4.8	102
581	The use of the AMBER force field in conformational analysis of carbohydrate molecules: determination of the solution conformation of methyl alpha-lactoside by NMR spectroscopy, assisted by molecular mechanics and dynamics calculations. <i>Biopolymers</i> , 1995 , 35, 55-73	2.2	95
580	A simple model system for the study of carbohydrate--aromatic interactions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2890-900	16.4	94
579	Characterization of a beta-fructofuranosidase from <i>Schwanniomyces occidentalis</i> with transfructosylating activity yielding the prebiotic 6-kestose. <i>Journal of Biotechnology</i> , 2007 , 132, 75-81	3.7	94
578	NMR studies of carbohydrate-protein interactions in solution. <i>Chemical Society Reviews</i> , 1998 , 27, 133	58.5	94
577	Catching elusive glycosyl cations in a condensed phase with HF/SbF ₅ superacid. <i>Nature Chemistry</i> , 2016 , 8, 186-91	17.6	92
576	Direct STD NMR identification of beta-galactosidase inhibitors from a virtual dynamic hemithioacetal system. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 589-93	16.4	89
575	<i>Escherichia coli</i> Galactosidase Recognizes a High-Energy Conformation of C-Lactose, a Nonhydrolyzable Substrate Analogue. NMR and Modeling Studies of the Molecular Complex. <i>Journal of the American Chemical Society</i> , 1998 , 120, 1309-1318	16.4	88
574	The Interaction of Hevein with N-acetylglucosamine-containing Oligosaccharides. <i>FEBS Journal</i> , 1995 , 230, 621-633		88

573	Galacto-oligosaccharide synthesis from lactose solution or skim milk using the β -galactosidase from <i>Bacillus circulans</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 6391-8	5.7	86
572	Protein-carbohydrate interactions studied by NMR: from molecular recognition to drug design. <i>Current Protein and Peptide Science</i> , 2012 , 13, 816-30	2.8	86
571	Enthalpic nature of the CH/ π interaction involved in the recognition of carbohydrates by aromatic compounds, confirmed by a novel interplay of NMR, calorimetry, and theoretical calculations. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18129-38	16.4	86
570	Selective lignin and polysaccharide removal in natural fungal decay of wood as evidenced by in situ structural analyses. <i>Environmental Microbiology</i> , 2011 , 13, 96-107	5.2	85
569	Polymerization of lignosulfonates by the laccase-HBT (1-hydroxybenzotriazole) system improves dispersibility. <i>Bioresource Technology</i> , 2010 , 101, 5054-62	11	85
568	Bovine Heart Galectin-1 Selects a Unique (Syn) Conformation of C-Lactose, a Flexible Lactose Analogue. <i>Journal of the American Chemical Society</i> , 1999 , 121, 8995-9000	16.4	85
567	The first synthesis of substituted azepanes mimicking monosaccharides: a new class of potent glycosidase inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 1492-9	3.9	84
566	Production of Galacto-oligosaccharides by the β -Galactosidase from <i>Kluyveromyces lactis</i> : comparative analysis of permeabilized cells versus soluble enzyme. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 10477-84	5.7	83
565	1D saturation transfer difference NMR experiments on living cells: the DC-SIGN/oligomannose interaction. <i>Angewandte Chemie - International Edition</i> , 2004 , 44, 296-8	16.4	83
564	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 25-28, 2008. <i>Holzforschung</i> , 2009 , 63,	2	81
563	Towards defining the role of glycans as hardware in information storage and transfer: basic principles, experimental approaches and recent progress. <i>Cells Tissues Organs</i> , 2001 , 168, 5-23	2.1	81
562	Conformational selection of glycomimetics at enzyme catalytic sites: experimental demonstration of the binding of distinct high-energy distorted conformations of C-, S-, and O-glycosides by <i>E. Coli</i> beta-galactosidases. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4804-10	16.4	78
561	Structural characterization of guaiacyl-rich lignins in flax (<i>Linum usitatissimum</i>) fibers and shives. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 11088-99	5.7	77
560	Experimental Evidence of Conformational Differences between C-Glycosides and O-Glycosides in Solution and in the Protein-Bound State: The C-Lactose/O-Lactose Case. <i>Journal of the American Chemical Society</i> , 1996 , 118, 10862-10871	16.4	77
559	Recent Developments in Synthetic Carbohydrate-Based Diagnostics, Vaccines, and Therapeutics. <i>Chemistry - A European Journal</i> , 2015 , 21, 10616-28	4.8	75
558	The use of CVFF and CFF91 force fields in conformational analysis of carbohydrate molecules. Comparison with AMBER molecular mechanics and dynamics calculations for methyl alpha-lactoside. <i>International Journal of Biological Macromolecules</i> , 1995 , 17, 137-48	7.9	75
557	Conformational differences between O- and C-glycosides: the alpha-O-man-(1 \rightarrow 1)-beta-Gal/alpha-C-Man-(1 \rightarrow 1)-beta-Gal case--a decisive demonstration of the importance of the exo-anomeric effect on the conformation of glycosides. <i>Chemistry - A European Journal</i> , 2000 , 6, 1035-41	4.8	74
556	New insights into alpha-GalNAc-Ser motif: influence of hydrogen bonding versus solvent interactions on the preferred conformation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14640-8	16.4	73

555	Tightening or loosening a pH-sensitive double-lasso molecular machine readily synthesized from an ends-activated [c2]daisy chain. <i>Chemical Science</i> , 2012 , 3, 1851	9.4	72
554	Carbohydrate-protein interactions: a 3D view by NMR. <i>ChemBioChem</i> , 2011 , 12, 990-1005	3.8	71
553	NMR investigations of protein-carbohydrate interactions: refined three-dimensional structure of the complex between hevein and methyl beta-chitobioside. <i>Glycobiology</i> , 1998 , 8, 569-77	5.8	71
552	Molecular Recognition of Carbohydrates Using a Synthetic Receptor. A Model System to Understand the Stereoselectivity of a Carbohydrate-Carbohydrate Interaction in Water. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11198-11204	16.4	71
551	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. <i>Journal of the American Chemical Society</i> , 2012 , 134, 426-35	16.4	70
550	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, 11714-29	5.4	70
549	Aromatic-carbohydrate interactions: an NMR and computational study of model systems. <i>Chemistry - A European Journal</i> , 2008 , 14, 7570-8	4.8	70
548	Zampanolide, a potent new microtubule-stabilizing agent, covalently reacts with the taxane luminal site in tubulin $\alpha_1\beta_1$ heterodimers and microtubules. <i>Chemistry and Biology</i> , 2012 , 19, 686-98		68
547	Exploring the use of conformationally locked aminoglycosides as a new strategy to overcome bacterial resistance. <i>Journal of the American Chemical Society</i> , 2006 , 128, 100-16	16.4	68
546	New structural insights into carbohydrate-protein interactions from NMR spectroscopy. <i>Current Opinion in Structural Biology</i> , 2003 , 13, 646-53	8.1	68
545	Conformational flexibility of a synthetic glycosylaminoglycan bound to a fibroblast growth factor. FGF-1 recognizes both the (1)C(4) and (2)S(O) conformations of a bioactive heparin-like hexasaccharide. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5778-9	16.4	67
544	Diffusion ordered spectroscopy as a complement to size exclusion chromatography in oligosaccharide analysis. <i>Glycobiology</i> , 2004 , 14, 451-6	5.8	67
543	Analysis of lignin-carbohydrate and lignin-lignin linkages after hydrolase treatment of xylan-lignin, glucomannan-lignin and glucan-lignin complexes from spruce wood. <i>Planta</i> , 2014 , 239, 1079-90	4.7	65
542	Intramolecular carbohydrate-aromatic interactions and intermolecular van der Waals interactions enhance the molecular recognition ability of GM1 glycomimetics for cholera toxin. <i>Chemistry - A European Journal</i> , 2004 , 10, 4395	4.8	65
541	The recognition of glycans by protein receptors. Insights from NMR spectroscopy. <i>Chemical Communications</i> , 2018 , 54, 4761-4769	5.8	64
540	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	11.5	64
539	Structural basis of ligand binding to UDP-galactopyranose mutase from Mycobacterium tuberculosis using substrate and tetrafluorinated substrate analogues. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1230-44	16.4	63
538	Natural compounds against Alzheimer's disease: molecular recognition of A β 1-42 peptide by Salvia sclareoides extract and its major component, rosmarinic acid, as investigated by NMR. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 596-602	4.5	62

537	Kinetic and chemical characterization of aldehyde oxidation by fungal aryl-alcohol oxidase. <i>Biochemical Journal</i> , 2010 , 425, 585-93	3.8	62
536	Carbohydrate Hydrogen-Bonding Cooperativity [Intramolecular Hydrogen Bonds and Their Cooperative Effect on Intermolecular Processes] Binding to a Hydrogen-Bond Acceptor Molecule. <i>European Journal of Organic Chemistry</i> , 2002 , 2002, 840-855	3.2	62
535	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	17.5	61
534	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, 7557-69	4.8	61
533	Structural modification of eucalypt pulp lignin in a totally chlorine-free bleaching sequence including a laccase-mediator stage. <i>Holzforschung</i> , 2007 , 61, 634-646	2	61
532	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, 13789-93	16.4	60
531	NMR determination of the bioactive conformation of peloruside A bound to microtubules. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8757-65	16.4	60
530	Antimicrobial Peptides: Insights into Membrane Permeabilization, Lipopolysaccharide Fragmentation and Application in Plant Disease Control. <i>Scientific Reports</i> , 2015 , 5, 11951	4.9	59
529	Tetrafluorination of sugars as strategy for enhancing protein-carbohydrate affinity: application to UDP-Galp mutase inhibition. <i>Chemistry - A European Journal</i> , 2014 , 20, 106-12	4.8	59
528	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. <i>ChemBioChem</i> , 2004 , 5, 1245-55	3.8	59
527	Unravelling the gallic acid degradation pathway in bacteria: the gal cluster from <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 2011 , 79, 359-74	4.1	58
526	Regioselective lipase-catalyzed synthesis of 3-o-acyl derivatives of resveratrol and study of their antioxidant properties. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 807-13	5.7	58
525	Molecular basis for inhibition of GH84 glycoside hydrolases by substituted azepanes: conformational flexibility enables probing of substrate distortion. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5390-2	16.4	57
524	Optimization of taxane binding to microtubules: binding affinity dissection and incremental construction of a high-affinity analog of paclitaxel. <i>Chemistry and Biology</i> , 2008 , 15, 573-85		57
523	Discovery and characterization of an endogenous CXCR4 antagonist. <i>Cell Reports</i> , 2015 , 11, 737-47	10.6	56
522	Modification of the Lignin Structure during Alkaline Delignification of Eucalyptus Wood by Kraft, Soda-AQ, and Soda-O ₂ Cooking. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15702-15712	3.9	55
521	Well-Defined Oligo- and Polysaccharides as Ideal Probes for Structural Studies. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5421-5426	16.4	54
520	Fluorinated carbohydrates as lectin ligands: versatile sensors in 19F-detected saturation transfer difference NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2009 , 15, 5666-8	4.8	54

519	Solution NMR structure of a human FGF-1 monomer, activated by a hexasaccharide heparin-analogue. <i>FEBS Journal</i> , 2006 , 273, 4716-27	5.7	53
518	Glycosyl Inositol Derivatives Related to Inositolphosphoglycan Mediators: Synthesis, Structure, and Biological Activity. <i>Chemistry - A European Journal</i> , 1999 , 5, 320-336	4.8	53
517	Enzymatic Synthesis of β -Glucosides of Resveratrol with Surfactant Activity. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 1077-1086	5.6	52
516	Chemical clockwise tridifferentiation of alpha- and beta-cyclodextrins: bascule-bridge or deoxy-sugars strategies. <i>Chemistry - A European Journal</i> , 2007 , 13, 9757-74	4.8	52
515	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		52
514	Effect of the Presence of β -Cyclodextrin on the Solution Behavior of Procaine Hydrochloride. Spectroscopic and Thermodynamic Studies. <i>Langmuir</i> , 2000 , 16, 1557-1565	4	52
513	The conformation of C-glycosyl compounds. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2000 , 56, 235-84	3.7	51
512	Samarium Diiodide Promoted C-Glycosylation: An Application to the Stereospecific Synthesis of β -1,2-C-Mannobioside and Its Derivatives. <i>Chemistry - A European Journal</i> , 1999 , 5, 430-441	4.8	51
511	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. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 303-306		51
510	Conformational Behavior of Aza-C-Glycosides: Experimental Demonstration of the Relative Role of the exo-anomeric Effect and 1,3-Type Interactions in Controlling the Conformation of Regular Glycosides. <i>Journal of the American Chemical Society</i> , 1999 , 121, 11318-11329	16.4	50
509	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. <i>FEBS Journal</i> , 1995 , 233, 618-30		50
508	Limited flexibility of lactose detected from residual dipolar couplings using molecular dynamics simulations and steric alignment methods. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3589-95	16.4	49
507	Synthesis and conformational analysis of novel N(OCH ₃)-linked disaccharide analogues. <i>Chemistry - A European Journal</i> , 2004 , 10, 1433-44	4.8	49
506	"Rules of Engagement" of Protein-Glycoconjugate Interactions: A Molecular View Achievable by using NMR Spectroscopy and Molecular Modeling. <i>ChemistryOpen</i> , 2016 , 5, 274-96	2.3	49
505	Epoxide opening versus silica condensation during sol-gel hybrid biomaterial synthesis. <i>Chemistry - A European Journal</i> , 2013 , 19, 7856-64	4.8	48
504	Deciphering the Non-Equivalence of Serine and Threonine O-Glycosylation Points: Implications for Molecular Recognition of the Tn Antigen by an anti-MUC1 Antibody. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9830-4	16.4	48
503	Molecular characterization of the gallate dioxygenase from <i>Pseudomonas putida</i> KT2440. The prototype of a new subgroup of extradiol dioxygenases. <i>Journal of Biological Chemistry</i> , 2005 , 280, 35382-90	5.4	48
502	Levan versus fructooligosaccharide synthesis using the levansucrase from <i>Zymomonas mobilis</i> : Effect of reaction conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 119, 18-25		47

501	The solid state, solution and tubulin-bound conformations of agents that promote microtubule stabilization. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2002 , 2, 91-122		47
500	Hydrogen-bonding cooperativity: using an intramolecular hydrogen bond to design a carbohydrate derivative with a cooperative hydrogen-bond donor centre. <i>Chemistry - A European Journal</i> , 2004 , 10, 4240-51	4.8	47
499	. <i>European Journal of Organic Chemistry</i> , 2000 , 2000, 1945-1952	3.2	47
498	Hydrogen-bonding pattern of methyl beta-lactoside binding to the Ricinus communis lectins. <i>FEBS Journal</i> , 1993 , 214, 677-83		47
497	Intra- and intermolecular interactions of human galectin-3: assessment by full-assignment-based NMR. <i>Glycobiology</i> , 2016 , 26, 888-903	5.8	46
496	New interfacial microtubule inhibitors of marine origin, PM050489/PM060184, with potent antitumor activity and a distinct mechanism. <i>ACS Chemical Biology</i> , 2013 , 8, 2084-94	4.9	46
495	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, 5445-559	3.9	46
494	A chiral pyrrolic tripodal receptor enantioselectively recognizes beta-mannose and beta-mannosides. <i>Chemistry - A European Journal</i> , 2010 , 16, 414-8	4.8	46
493	A simple structural-based approach to prevent aminoglycoside inactivation by bacterial defense proteins. Conformational restriction provides effective protection against neomycin-B nucleotidylation by ANT4. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8278-9	16.4	46
492	The origin of one-bond C-H coupling constants in OCH fragments: not primarily nO-->sigma CH delocalization. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2360-4	16.4	46
491	Studies on the molecular recognition of synthetic methyl beta-lactoside analogs by ricin, a cytotoxic plant lectin. <i>FEBS Journal</i> , 1991 , 197, 217-28		46
490	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, 8011-7	16.4	45
489	Conformation of glycomimetics in the free and protein-bound state: structural and binding features of the C-glycosyl analogue of the core trisaccharide alpha-D-Man-(1 --> 3)-[alpha-D-Man-(1 --> 6)]-D-Man. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14940-51	16.4	45
488	NMR experiments reveal distinct antibody-bound conformations of a synthetic disaccharide representing a general structural element of bacterial lipopolysaccharide epitopes. <i>Biochemistry</i> , 1999 , 38, 6449-59	3.2	45
487	Synthesis and self-association of syn-5,10,15-trialkylated truxenes. <i>Chemistry - A European Journal</i> , 2002 , 8, 2879-90	4.8	44
486	A new combined computational and NMR-spectroscopical strategy for the identification of additional conformational constraints of the bound ligand in an aprotic solvent. <i>ChemBioChem</i> , 2000 , 1, 181-95	3.8	44
485	Triazolopyrimidines Are Microtubule-Stabilizing Agents that Bind the Vinca Inhibitor Site of Tubulin. <i>Cell Chemical Biology</i> , 2017 , 24, 737-750.e6	8.2	43
484	A Synthetic Lectin for O-Linked N-Acetylglucosamine. <i>Angewandte Chemie</i> , 2009 , 121, 1807-1811	3.6	43

483	Hevein domains: an attractive model to study carbohydrate-protein interactions at atomic resolution. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2006 , 60, 303-54	3.7	43
482	NMR investigations of protein-carbohydrate interactions binding studies and refined three-dimensional solution structure of the complex between the B domain of wheat germ agglutinin and N,N,N,N"-triacyetylchitotriose. <i>FEBS Journal</i> , 2000 , 267, 3965-78		43
481	Experimental evidence of deviations from a Karplus-like relationship of vicinal carbon-proton coupling constants in some conformationally rigid carbohydrate derivatives. <i>Journal of Organic Chemistry</i> , 1987 , 52, 3367-3372	4.2	43
480	A dynamic combinatorial approach for the analysis of weak carbohydrate/aromatic complexes: dissecting facial selectivity in CH/ π stacking interactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3347-50	16.4	42
479	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, 1019-29	5.6	42
478	A comparison of the geometry and of the energy results obtained by application of different molecular mechanics force fields to methyl β -lactoside and the C-analogue of lactose. <i>Carbohydrate Research</i> , 1997 , 298, 15-49	2.9	42
477	Carbonate hydroxyapatite functionalization: a comparative study towards (bio)molecules fixation. <i>Interface Focus</i> , 2014 , 4, 20130040	3.9	41
476	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, 789-99	4.9	41
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