

Robert J Woods

List of Publications by Year in descending order

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131
papers

17,141
citations

36203

51
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15218

126
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140
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140
docs citations

140
times ranked

20710
citing authors

#	ARTICLE	IF	CITATIONS
1	O-fucosylation stabilizes the TSR3 motif in thrombospondin-1 by interacting with nearby amino acids and protecting a disulfide bond. <i>Journal of Biological Chemistry</i> , 2022, 298, 102047.	1.6	3
2	PD-L1 Glycosylation and Its Impact on Binding to Clinical Antibodies. <i>Journal of Proteome Research</i> , 2021, 20, 485-497.	1.8	29
3	Hyper-truncated Asn355- and Asn391-glycans modulate the activity of neutrophil granule myeloperoxidase. <i>Journal of Biological Chemistry</i> , 2021, 296, 100144.	1.6	31
4	Heparan Sulfate Mimetics Differentially Affect Homologous Chemokines and Attenuate Cancer Development. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3367-3380.	2.9	11
5	Landscape and selection of vaccine epitopes in SARS-CoV-2. <i>Genome Medicine</i> , 2021, 13, 101.	3.6	30
6	Comparison of cellooligosaccharide conformations in complexes with proteins with energy maps for cellobiose. <i>Carbohydrate Polymers</i> , 2021, 264, 118004.	5.1	12
7	Discovery of rare sulfated N-unsubstituted glucosamine based heparan sulfate analogs selectively activating chemokines. <i>Chemical Science</i> , 2021, 12, 3674-3681.	3.7	14
8	O-glycosylation on cerebrospinal fluid and plasma apolipoprotein E differs in the lipid-binding domain. <i>Glycobiology</i> , 2020, 30, 74-85.	1.3	36
9	GlyGen: Computational and Informatics Resources for Glycoscience. <i>Glycobiology</i> , 2020, 30, 72-73.	1.3	123
10	Directed Evolution of Therapeutic Antibodies Targeting Glycosylation in Cancer. <i>Cancers</i> , 2020, 12, 2824.	1.7	14
11	Virus-Receptor Interactions of Glycosylated SARS-CoV-2 Spike and Human ACE2 Receptor. <i>Cell Host and Microbe</i> , 2020, 28, 586-601.e6.	5.1	334
12	Hierarchical Multivalent Effects Control Influenza Host Specificity. <i>ACS Central Science</i> , 2020, 6, 2311-2318.	5.3	20
13	Analysis of the SARS-CoV-2 spike protein glycan shield reveals implications for immune recognition. <i>Scientific Reports</i> , 2020, 10, 14991.	1.6	286
14	Allosteric regulation of lysosomal enzyme recognition by the cation-independent mannose 6-phosphate receptor. <i>Communications Biology</i> , 2020, 3, 498.	2.0	20
15	A terminal β -3-galactose modification regulates an E3 ubiquitin ligase subunit in <i>Toxoplasma gondii</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 9223-9243.	1.6	6
16	Effect of hydroxylysine-O-glycosylation on the structure of type I collagen molecule: A computational study. <i>Glycobiology</i> , 2020, 30, 830-843.	1.3	10
17	Reconciling MÅAT and molecular dynamics models of linkage conformation in oligosaccharides. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14454-14457.	1.3	12
18	Characterization of heparin and severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) spike glycoprotein binding interactions. <i>Antiviral Research</i> , 2020, 181, 104873.	1.9	233

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19	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019, 29, 620-624.	1.3	292
20	GAG Builder: a web-tool for modeling 3D structures of glycosaminoglycans. <i>Glycobiology</i> , 2019, 29, 515-518.	1.3	27
21	NMR Resonance Assignment Methodology: Characterizing Large Sparsely Labeled Glycoproteins. <i>Journal of Molecular Biology</i> , 2019, 431, 2369-2382.	2.0	8
22	Cross-Ring Fragmentation Patterns in the Tandem Mass Spectra of Underivatized Sialylated Oligosaccharides and Their Special Suitability for Spectrum Library Searching. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 426-438.	1.2	16
23	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. <i>Journal of Molecular Biology</i> , 2019, 431, 842-856.	2.0	36
24	Use of Circular Statistics To Model α -Man-(1 \rightarrow 2)- β -Man and α -Man-(1 \rightarrow 3)- β -Man <i>O</i> -Glycosidic Linkage Conformation in ¹³ C-Labeled Disaccharides and High-Mannose Oligosaccharides. <i>Biochemistry</i> , 2019, 58, 546-560.	1.2	29
25	Synthesis and <i>O</i> -Glycosidic Linkage Conformational Analysis of ¹³ C-Labeled Oligosaccharide Fragments of an Antifreeze Glycolipid. <i>Journal of Organic Chemistry</i> , 2019, 84, 1706-1724.	1.7	15
26	A Traveling Wave Ion Mobility Spectrometry (TWIMS) Study of the Robo1-Heparan Sulfate Interaction. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1153-1165.	1.2	12
27	Applying Pose Clustering and MD Simulations To Eliminate False Positives in Molecular Docking. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 605-614.	2.5	36
28	Oligosaccharide model of the vascular endothelial glycocalyx in physiological flow. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 21.	1.0	14
29	Structural Rearrangements Maintain the Glycan Shield of an HIV-1 Envelope Trimer After the Loss of a Glycan. <i>Scientific Reports</i> , 2018, 8, 15031.	1.6	17
30	Galectin binding to cells and glycoproteins with genetically modified glycosylation reveals galectin glycan specificities in a natural context. <i>Journal of Biological Chemistry</i> , 2018, 293, 20249-20262.	1.6	67
31	Quantifying Weak Glycan-Protein Interactions Using a Biolayer Interferometry Competition Assay: Applications to ECL Lectin and X-31 Influenza Hemagglutinin. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1104, 259-273.	0.8	5
32	Defining the Specificity of Carbohydrate-Protein Interactions by Quantifying Functional Group Contributions. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1889-1901.	2.5	19
33	A combined computational-experimental approach to define the structural origin of antibody recognition of sialyl-Tn, a tumor-associated carbohydrate antigen. <i>Scientific Reports</i> , 2018, 8, 10786.	1.6	15
34	Downstream Products are Potent Inhibitors of the Heparan Sulfate 2-O-Sulfotransferase. <i>Scientific Reports</i> , 2018, 8, 11832.	1.6	11
35	Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. <i>Chemical Reviews</i> , 2018, 118, 8005-8024.	23.0	130
36	Induction of Antibodies Directed Against Branched Core <i>O</i> -Mannosyl Glycopeptides Selectivity Complimentary to the ConA Lectin. <i>Chemistry - A European Journal</i> , 2017, 23, 3466-3473.	1.7	12

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37	Structural Analysis of the Glycosylated Intact HIV-1 gp120â€“b12 Antibody Complex Using Hydroxyl Radical Protein Footprinting. <i>Biochemistry</i> , 2017, 56, 957-970.	1.2	27
38	The Tetrameric Plant Lectin BanLec Neutralizes HIV through Bidentate Binding to Specific Viral Glycans. <i>Structure</i> , 2017, 25, 773-782.e5.	1.6	39
39	¹³ C-Acetyl Side-Chains in Monosaccharides: Redundant NMR Spin-Couplings and Statistical Models for Acetate Ester Conformational Analysis. <i>Journal of Physical Chemistry B</i> , 2017, 121, 66-77.	1.2	25
40	Synthesis of 3-O-Sulfated Oligosaccharides to Understand the Relationship between Structures and Functions of Heparan Sulfate. <i>Journal of the American Chemical Society</i> , 2017, 139, 5249-5256.	6.6	79
41	Conformational Populations of ¹³ C- ¹ H Glycosidic Linkages Using Redundant NMR ¹³ C- ¹ H-Couplings and Circular Statistics. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3042-3058.	1.2	39
42	Recent H3N2 Viruses Have Evolved Specificity for Extended, Branched Human-type Receptors, Conferring Potential for Increased Avidity. <i>Cell Host and Microbe</i> , 2017, 21, 23-34.	5.1	163
43	Mannobiose Binding Induces Changes in Hydrogen Bonding and Protonation States of Acidic Residues in Concanavalin A As Revealed by Neutron Crystallography. <i>Biochemistry</i> , 2017, 56, 4747-4750.	1.2	25
44	O ₂ sensing-associated glycosylation exposes the F-boxâ€“combining site of the Dictyostelium Skp1 subunit in E3 ubiquitin ligases. <i>Journal of Biological Chemistry</i> , 2017, 292, 18897-18915.	1.6	25
45	Quantitative Protein Topography Measurements by High Resolution Hydroxyl Radical Protein Footprinting Enable Accurate Molecular Model Selection. <i>Scientific Reports</i> , 2017, 7, 4552.	1.6	60
46	New insights into influenza A specificity: an evolution of paradigms. <i>Current Opinion in Structural Biology</i> , 2017, 44, 219-231.	2.6	34
47	Gas-Phase Analysis of the Complex of Fibroblast GrowthFactor 1 with Heparan Sulfate: A Traveling Wave Ion Mobility Spectrometry (TWIMS) and Molecular Modeling Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 96-109.	1.2	18
48	Three mutations switch H7N9 influenza to human-type receptor specificity. <i>PLoS Pathogens</i> , 2017, 13, e1006390.	2.1	83
49	NMR Spin-Couplings in Saccharides: Relationships Between Structure, Conformation and the Magnitudes of ¹³ C- ¹ H, ¹³ C- ² H and ¹³ C- ¹³ C Values. <i>New Developments in NMR</i> , 2017, , 20-100.	0.1	20
50	Gly-Spec: a webtool for predicting glycan specificity by integrating glycan array screening data and 3D structure. <i>Glycobiology</i> , 2016, 26, 1027-1028.	1.3	19
51	Extension and validation of the GLYCAM force field parameters for modeling glycosaminoglycans. <i>Canadian Journal of Chemistry</i> , 2016, 94, 927-935.	0.6	69
52	3D implementation of the symbol nomenclature for graphical representation of glycans. <i>Glycobiology</i> , 2016, 26, 786-787.	1.3	59
53	Uncovering the Relationship between Sulphation Patterns and Conformation of Iduronic Acid in Heparan Sulphate. <i>Scientific Reports</i> , 2016, 6, 29602.	1.6	53
54	Asn347 Glycosylation of Corticosteroid-binding Globulin Fine-tunes the Host Immune Response by Modulating Proteolysis by <i>Pseudomonas aeruginosa</i> and Neutrophil Elastase. <i>Journal of Biological Chemistry</i> , 2016, 291, 17727-17742.	1.6	27

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55	The Dependence of Carbohydrate-Aromatic Interaction Strengths on the Structure of the Carbohydrate. <i>Journal of the American Chemical Society</i> , 2016, 138, 7636-7648.	6.6	44
56	Vina-Carb: Improving Glycosidic Angles during Carbohydrate Docking. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 892-901.	2.3	94
57	Integrated Omics and Computational Glycobiology Reveal Structural Basis for Influenza A Virus Glycan Microheterogeneity and Host Interactions. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1895-1912.	2.5	85
58	Insights into furanose solution conformations: beyond the two-state model. <i>Journal of Biomolecular NMR</i> , 2016, 64, 291-305.	1.6	25
59	Combining 3D structure with glycan array data provides insight into the origin of glycan specificity. <i>Glycobiology</i> , 2016, 26, 772-783.	1.3	39
60	The Interaction of Heparin Tetrasaccharides with Chemokine CCL5 Is Modulated by Sulfation Pattern and pH. <i>Journal of Biological Chemistry</i> , 2015, 290, 15421-15436.	1.6	52
61	Specificity of Furanoside-Protein Recognition through Antibody Engineering and Molecular Modeling. <i>Chemistry - A European Journal</i> , 2015, 21, 1138-1148.	1.7	9
62	Analysis of site-specific N-glycan remodeling in the endoplasmic reticulum and the Golgi. <i>Glycobiology</i> , 2015, 25, 1335-1349.	1.3	60
63	Glycopeptide analogues of PSGL-1 inhibit P-selectin in vitro and in vivo. <i>Nature Communications</i> , 2015, 6, 6387.	5.8	69
64	Genetically Encoded Fragment-Based Discovery of Glycopeptide Ligands for Carbohydrate-Binding Proteins. <i>Journal of the American Chemical Society</i> , 2015, 137, 5248-5251.	6.6	67
65	Investigating changes in the gas-phase conformation of Antithrombin III upon binding of Arixtra using traveling wave ion mobility spectrometry (TWIMS). <i>Analyst</i> , 2015, 140, 6980-6989.	1.7	24
66	Impact of sulfation pattern on the conformation and dynamics of sulfated fucan oligosaccharides as revealed by NMR and MD. <i>Glycobiology</i> , 2015, 25, 535-547.	1.3	19
67	Calculating Binding Free Energies for Protein-Carbohydrate Complexes. <i>Methods in Molecular Biology</i> , 2015, 1273, 431-465.	0.4	13
68	Fucosylated Chondroitin Sulfates from the Body Wall of the Sea Cucumber <i>Holothuria forskali</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 28284-28298.	1.6	88
69	Predicting the Origins of Anti-Blood Group Antibody Specificity: A Case Study of the ABO A- and B-Antigens. <i>Frontiers in Immunology</i> , 2014, 5, 397.	2.2	9
70	Defining the structural origin of the substrate sequence independence of O-GlcNAcase using a combination of molecular docking and dynamics simulation. <i>Glycobiology</i> , 2014, 24, 85-96.	1.3	13
71	Presentation, presentation, presentation! Molecular-level insight into linker effects on glycan array screening data. <i>Glycobiology</i> , 2014, 24, 17-25.	1.3	80
72	Importance of ligand conformational energies in carbohydrate docking: Sorting the wheat from the chaff. <i>Journal of Computational Chemistry</i> , 2014, 35, 526-539.	1.5	67

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73	Recent advances in employing molecular modelling to determine the specificity of glycan-binding proteins. <i>Current Opinion in Structural Biology</i> , 2014, 28, 47-55.	2.6	28
74	Effect of microfibril twisting on theoretical powder diffraction patterns of cellulose I ^β . <i>Cellulose</i> , 2014, 21, 879-884.	2.4	62
75	BFMP: A Method for Discretizing and Visualizing Pyranose Conformations. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 2744-2750.	2.5	18
76	Probing the paramyxovirus fusion (F) protein-refolding event from pre- to postfusion by oxidative footprinting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2596-605.	3.3	44
77	Unraveling Cellulose Microfibrils: A Twisted Tale. <i>Biopolymers</i> , 2013, 99, 746-756.	1.2	59
78	Enzymatic Basis for N-Glycan Sialylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 34680-34698.	1.6	116
79	Contribution of the empirical dispersion correction on the conformation of short alanine peptides obtained by gas-phase QM calculations. <i>Canadian Journal of Chemistry</i> , 2013, 91, 859-865.	0.6	9
80	Sugar-Modified Foldamers as Conformationally Defined and Biologically Distinct Glycopeptide Mimics. <i>Angewandte Chemie</i> , 2013, 125, 10411-10416.	1.6	9
81	Computational Screening of the Human TF-Glycome Provides a Structural Definition for the Specificity of Anti-Tumor Antibody JAA-F11. <i>PLoS ONE</i> , 2013, 8, e54874.	1.1	29
82	The Influence of N-Linked Glycans on the Molecular Dynamics of the HIV-1 gp120 V3 Loop. <i>PLoS ONE</i> , 2013, 8, e80301.	1.1	35
83	Metabolism of Vertebrate Amino Sugars with N-Glycolyl Groups. <i>Journal of Biological Chemistry</i> , 2012, 287, 28917-28931.	1.6	46
84	Dependence of Pyranose Ring Puckering on Anomeric Configuration: Methyl Idopyranosides. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6380-6386.	1.2	35
85	Carbohydrate Recognition by an Architecturally Complex β -N-Acetylglucosaminidase from <i>Clostridium perfringens</i> . <i>PLoS ONE</i> , 2012, 7, e33524.	1.1	42
86	Carbohydrate force fields. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 652-697.	6.2	87
87	Molecular Recognition of <i>Candida albicans</i> (1 \rightarrow 2)- β -Mannan Oligosaccharides by a Protective Monoclonal Antibody Reveals the Immunodominance of Internal Saccharide Residues. <i>Journal of Biological Chemistry</i> , 2012, 287, 18078-18090.	1.6	39
88	Computational Techniques Applied to Defining Carbohydrate Antigenicity. , 2012, , 361-383.		4
89	Unusual chemical and enzymatic stability of polysialic acid containing N β -glycolylneuraminic acid. <i>FASEB Journal</i> , 2012, 26, 610.1.	0.2	0
90	On the Role of Water Models in Quantifying the Binding Free Energy of Highly Conserved Water Molecules in Proteins: The Case of Concanavalin A. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3391-3398.	2.3	31

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91	From agonist to antagonist: Structure and dynamics of innate immune glycoprotein MD-2 upon recognition of variably acylated bacterial endotoxins. <i>Molecular Immunology</i> , 2011, 49, 124-133.	1.0	37
92	Structure and binding analysis of Polyporus squamosus lectin in complex with the Neu5Ac1±2-6Gal1±1-4GlcNAc human-type influenza receptor. <i>Glycobiology</i> , 2011, 21, 973-984.	1.3	53
93	Computational glycoscience: characterizing the spatial and temporal properties of glycans and glycan-protein complexes. <i>Current Opinion in Structural Biology</i> , 2010, 20, 575-583.	2.6	74
94	Molecular simulations of carbohydrates and protein-carbohydrate interactions: motivation, issues and prospects. <i>Drug Discovery Today</i> , 2010, 15, 596-609.	3.2	165
95	Presentation of Membrane-Anchored Glycosphingolipids Determined from Molecular Dynamics Simulations and NMR Paramagnetic Relaxation Rate Enhancement. <i>Journal of the American Chemical Society</i> , 2010, 132, 1334-1338.	6.6	58
96	GLYCAM06: A generalizable biomolecular force field. <i>Carbohydrates. Journal of Computational Chemistry</i> , 2008, 29, 622-655.	1.5	1,778
97	Quantifying protein interface footprinting by hydroxyl radical oxidation and molecular dynamics simulation: Application to galectin-1. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1692-1705.	1.2	65
98	Extension of the GLYCAM06 biomolecular force field to lipids, lipid bilayers and glycolipids. <i>Molecular Simulation</i> , 2008, 34, 349-364.	0.9	93
99	Involvement of Water in Carbohydrate-Protein Binding: Concanavalin A Revisited. <i>Journal of the American Chemical Society</i> , 2008, 130, 16933-16942.	6.6	89
100	On Achieving Experimental Accuracy from Molecular Dynamics Simulations of Flexible Molecules: Aqueous Glycerol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2634-2639.	1.1	36
101	Approach for the Simulation and Modeling of Flexible Rings: Application to the 1±-Arabinofuranoside Ring, a Key Constituent of Polysaccharides from <i>Mycobacterium tuberculosis</i> . <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 184-191.	2.3	24
102	The Conformational Properties of Methyl 1±-(2,8)-Di/Trisialosides and Their N-Acyl Analogues: Implications for Anti- <i>Neisseria meningitidis</i> B Vaccine Design. <i>Biochemistry</i> , 2008, 47, 12493-12514.	1.2	43
103	Structural glycobiology: A game of snakes and ladders. <i>Glycobiology</i> , 2008, 18, 426-440.	1.3	130
104	Atomic-resolution conformational analysis of the GM3 ganglioside in a lipid bilayer and its implications for ganglioside-protein recognition at membrane surfaces. <i>Glycobiology</i> , 2008, 19, 344-355.	1.3	62
105	The Application of Molecular Modeling Techniques to the Determination of Oligosaccharide Solution Conformations. <i>Reviews in Computational Chemistry</i> , 2007, , 129-165.	1.5	14
106	TIP5P-Consistent Treatment of Electrostatics for Biomolecular Simulations. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1721-1733.	2.3	27
107	Gaussian induced dipole polarization model. <i>Journal of Computational Chemistry</i> , 2007, 28, 1261-1274.	1.5	104
108	Fourier transform mass spectrometry to monitor hyaluronan-protein interactions: use of hydrogen/deuterium amide exchange. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 121-131.	0.7	14

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109	Structural Basis of the Inhibition of Golgi β -Mannosidase II by Mannostatin A and the Role of the Thiomethyl Moiety in Ligand-Protein Interactions. <i>Journal of the American Chemical Society</i> , 2006, 128, 8310-8319.	6.6	59
110	Reconciling solvent effects on rotamer populations in carbohydrates— A joint MD and NMR analysis. <i>Canadian Journal of Chemistry</i> , 2006, 84, 569-579.	0.6	47
111	Predicting the Three-Dimensional Structures of AntiCarbohydrate Antibodies: Combining Comparative Modeling and MD Simulations. <i>ACS Symposium Series</i> , 2006, , 203-219.	0.5	7
112	Understanding the bacterial polysaccharide antigenicity of <i>Streptococcus agalactiae</i> versus <i>Streptococcus pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8149-8154.	3.3	41
113	Structural elucidation of type III group B <i>Streptococcus capsular</i> polysaccharide using molecular dynamics simulations: the role of sialic acid. <i>Carbohydrate Research</i> , 2005, 340, 1007-1018.	1.1	48
114	The Amber biomolecular simulation programs. <i>Journal of Computational Chemistry</i> , 2005, 26, 1668-1688.	1.5	7,742
115	A hydration study of (1 \rightarrow 4) and (1 \rightarrow 6) linked β -glucans by comparative 10 ns molecular dynamics simulations and 500-MHz NMR. <i>Journal of Computational Chemistry</i> , 2004, 25, 573-586.	1.5	63
116	Effects of Glycosylation on Peptide Conformation: A Synergistic Experimental and Computational Study. <i>Journal of the American Chemical Society</i> , 2004, 126, 8421-8425.	6.6	124
117	Molecular dynamics simulations of galectin-1-oligosaccharide complexes reveal the molecular basis for ligand diversity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 53, 229-240.	1.5	46
118	The Xenograft Antigen Bound to Griffonia simplicifolia Lectin 1-B4. <i>Journal of Biological Chemistry</i> , 2002, 277, 6615-6621.	1.6	54
119	Quantum Mechanical Study of the Nonbonded Forces in Water-Methanol Complexes. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4150-4155.	1.1	101
120	Involvement of Water in Carbohydrate-Protein Binding. <i>Journal of the American Chemical Society</i> , 2001, 123, 12238-12247.	6.6	154
121	Relative Energies of Binding for Antibody-Carbohydrate-Antigen Complexes Computed from Free-Energy Simulations. <i>Journal of the American Chemical Society</i> , 2000, 122, 331-338.	6.6	57
122	Computational carbohydrate chemistry: what theoretical methods can tell us. , 1998, 15, 209-216.		106
123	The high degree of internal flexibility observed for an oligomannose oligosaccharide does not alter the overall topology of the molecule. <i>FEBS Journal</i> , 1998, 258, 372-386.	0.2	131
124	NMR and Molecular Dynamics Studies of the Conformational Epitope of the Type III Group B <i>Streptococcus capsular</i> Polysaccharide and Derivatives. <i>Biochemistry</i> , 1997, 36, 3278-3292.	1.2	107
125	The effects of variable glycosylation on the functional activities of ribonuclease, plasminogen and tissue plasminogen activator. <i>BBA - Proteins and Proteomics</i> , 1995, 1248, 1-10.	2.1	97
126	Molecular Mechanical and Molecular Dynamic Simulations of Glycoproteins and Oligosaccharides. 1. GLYCAM_93 Parameter Development. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3832-3846.	2.9	427

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127	Three-dimensional structures of oligosaccharides. <i>Current Opinion in Structural Biology</i> , 1995, 5, 591-598.	2.6	76
128	Molecular mechanical investigations of the properties of oxocarbenium ions. 1. Parameter development. <i>Journal of the American Chemical Society</i> , 1992, 114, 850-858.	6.6	27
129	Molecular mechanical investigations of the properties of oxocarbenium ions. 2. Application to glycoside hydrolysis. <i>Journal of the American Chemical Society</i> , 1992, 114, 859-864.	6.6	101
130	Derivation of net atomic charges from molecular electrostatic potentials. <i>Journal of Computational Chemistry</i> , 1990, 11, 297-310.	1.5	149
131	Combining NMR and Simulation Methods in Oligosaccharide Conformational Analysis. , 0, , 109-144.		2