Geert J Boons

List of Publications by Year in descending order

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351 papers	20,818 citations	11908 72 h-index	20023 121 g-index
410 all docs	410 docs citations	410 times ranked	18622 citing authors

#	Article	IF	Citations
1	Influence of saccharide modifications on heparin lyase III substrate specificities. Glycobiology, 2022, 32, 208-217.	1.3	3
2	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. Nature Chemical Biology, 2022, 18, 81-90.	3.9	141
3	N -Glycolylneuraminic Acid Binding of Avian and Equine H7 Influenza A Viruses. Journal of Virology, 2022, 96, jvi0212021.	1.5	14
4	Pathobiology of highly pathogenic H5 avian influenza viruses in naturally infected Galliformes and Anseriformes in France during winter 2015â€“2016. Veterinary Research, 2022, 53, 11.	1.1	11
5	Detection of Bacterial Î±-l-Fucosidases with an Ortho-Quinone Methide-Based Probe and Mapping of the Probe-Protein Adducts. Molecules, 2022, 27, 1615.	1.7	9
6	Distinct spatial arrangements of ACE2 and TMPRSS2 expression in Syrian hamster lung lobes dictates SARS-CoV-2 infection patterns. PLoS Pathogens, 2022, 18, e1010340.	2.1	13
7	Guillain-BarrÃ© syndrome: expanding the concept of molecular mimicry. Trends in Immunology, 2022, 43, 296-308.	2.9	24
8	Synthetic O-Acetylated Sialosides and their Acetamido-deoxy Analogues as Probes for Coronaviral Hemagglutinin-esterase Recognition. Journal of the American Chemical Society, 2022, 144, 424-435.	6.6	4
9	Novel subtype of mucopolysaccharidosis caused by arylsulfatase K (ARSK) deficiency. Journal of Medical Genetics, 2022, 59, 957-964.	1.5	29
10	Synthetic O-Acetyl-N-glycolylneuraminic Acid Oligosaccharides Reveal Host-Associated Binding Patterns of Coronaviral Glycoproteins. ACS Infectious Diseases, 2022, 8, 1041-1050.	1.8	3
11	Conjugation of a Tollâ€Like Receptor Agonist to Glycans of an HIV Nativeâ€Like Envelope Trimer Preserves Neutralization Epitopes. ChemBioChem, 2022, 23, .	1.3	4
12	Synthetic Heparan Sulfate Hydrogels Regulate Neurotrophic Factor Signaling and Neuronal Network Activity. ACS Applied Materials & Interfaces, 2022, 14, 28476-28488.	4.0	6
13	Molecular dynamics-based descriptors of 3-O-Sulfated Heparan sulfate as contributors of protein binding specificity. Computational Biology and Chemistry, 2022, 99, 107716.	1.1	3
14	Cell surface glycan engineering reveals that matriglycan alone can recapitulate dystroglycan binding and function. Nature Communications, 2022, 13, .	5.8	23
15	Identification of Isomeric Nâ€Glycans by Conformer Distribution Fingerprinting using Ion Mobility Mass Spectrometry. Chemistry - A European Journal, 2021, 27, 2149-2154.	1.7	15
16	The 3- O -sulfation of heparan sulfate modulates protein binding and lyase degradation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	44
17	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins. PLoS Pathogens, 2021, 17, e1009282.	2.1	42
18	Synthetic O-acetylated sialosides facilitate functional receptor identification for human respiratory viruses. Nature Chemistry, 2021, 13, 496-503.	6.6	31

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19	N-Glycolylneuraminic Acid in Animal Models for Human Influenza A Virus. Viruses, 2021, 13, 815.	1.5	12
20	Heparan Sulfate Proteoglycans as Attachment Factor for SARS-CoV-2. ACS Central Science, 2021, 7, 1009-1018.	5.3	113
21	Chemoenzymatic Synthesis of Complex N â€Glycans of the Parasite S. mansoni to Examine the Importance of Epitope Presentation on DCâ€SIGN recognition. Angewandte Chemie, 2021, 133, 19436-19445.	1.6	1
22	Selective 13 Câ€Labels on Repeating Glycan Oligomers to Reveal Protein Binding Epitopes through NMR: Polylactosamine Binding to Galectins. Angewandte Chemie, 2021, 133, 18925-18930.	1.6	3
23	Selective ¹³Câ€Labels on Repeating Glycan Oligomers to Reveal Protein Binding Epitopes through NMR: Polylactosamine Binding to Galectins. Angewandte Chemie - International Edition, 2021, 60, 18777-18782.	7.2	14
24	Chemoenzymatic Synthesis of Complex Nâ€Glycans of the Parasite S. mansoni to Examine the Importance of Epitope Presentation on DCâ€SIGN recognition. Angewandte Chemie - International Edition, 2021, 60, 19287-19296.	7.2	12
25	Structure, Immunogenicity, and Conformation-Dependent Receptor Binding of the Postfusion Human Metapneumovirus F Protein. Journal of Virology, 2021, 95, e0059321.	1.5	11
26	Metabolic Labeling of Legionaminic Acid in Flagellin Glycosylation of Campylobacter jejuni Identifies Maf4 as a Putative Legionaminyl Transferase. Angewandte Chemie, 2021, 133, 25015-25020.	1.6	0
27	Hydrolytic (In)stability of Methacrylate Esters in Covalently Cross-Linked Hydrogels Based on Chondroitin Sulfate and Hyaluronic Acid Methacrylate. ACS Omega, 2021, 6, 26302-26310.	1.6	7
28	Metabolic Labeling of Legionaminic Acid in Flagellin Glycosylation of Campylobacter jejuni Identifies Maf4 as a Putative Legionaminyl Transferase. Angewandte Chemie - International Edition, 2021, 60, 24811-24816.	7.2	12
29	Glycan remodeled erythrocytes facilitate antigenic characterization of recent A/H3N2 influenza viruses. Nature Communications, 2021, 12, 5449.	5.8	35
30	Functionality of the putative surface glycoproteins of the Wuhan spiny eel influenza virus. Nature Communications, 2021, 12, 6161.	5.8	6
31	Dissecting structure-function of 3-O-sulfated heparin and engineered heparan sulfates. Science Advances, 2021, 7, eabl6026.	4.7	23
32	Role of glycosylation on the ensemble of conformations in the MUC1 immunodominant epitope. Journal of Peptide Science, 2020, 26, e3229.	0.8	3
33	Synthesis of monophosphoryl lipid A using 2-naphtylmethyl ethers as permanent protecting groups. Carbohydrate Research, 2020, 498, 108152.	1.1	1
34	Coronavirus hemagglutinin-esterase and spike proteins coevolve for functional balance and optimal virion avidity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25759-25770.	3.3	48
35	Modular Synthesis of Heparan Sulfate Oligosaccharides Having N-Acetyl and N-Sulfate Moieties. Journal of Organic Chemistry, 2020, 85, 16082-16098.	1.7	23
36	Cryogenic Infrared Spectroscopy Reveals Structural Modularity in the Vibrational Fingerprints of Heparan Sulfate Diastereomers. Analytical Chemistry, 2020, 92, 10228-10232.	3.2	20

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37	Characterizing human Î±-1,6-fucosyltransferase (FUT8) substrate specificity and structural similarities with related fucosyltransferases. Journal of Biological Chemistry, 2020, 295, 17027-17045.	1.6	19
38	Hierarchical Multivalent Effects Control Influenza Host Specificity. ACS Central Science, 2020, 6, 2311-2318.	5.3	20
39	Mutation of the second sialic acid-binding site of influenza A virus neuraminidase drives compensatory mutations in hemagglutinin. PLoS Pathogens, 2020, 16, e1008816.	2.1	19
40	Chemoenzymatic Synthesis of Campylobacter jejuni Lipo-oligosaccharide Core Domains to Examine Guillainâ€“BarrÃ© Syndrome Serum Antibody Specificities. Journal of the American Chemical Society, 2020, 142, 19611-19621.	6.6	27
41	Phenotypic Effects of Substitutions within the Receptor Binding Site of Highly Pathogenic Avian Influenza H5N1 Virus Observed during Human Infection. Journal of Virology, 2020, 94, .	1.5	8
42	MASP-2 Is a Heparin-Binding Protease; Identification of Blocking Oligosaccharides. Frontiers in Immunology, 2020, 11, 732.	2.2	7
43	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. Nature Communications, 2020, 11, 1481.	5.8	39
44	Influenza-induced thrombocytopenia is dependent on the subtype and sialoglycan receptor and increases with virus pathogenicity. Blood Advances, 2020, 4, 2967-2978.	2.5	45
45	A redox-active switch in fructosamine-3-kinases expands the regulatory repertoire of the protein kinase superfamily. Science Signaling, 2020, 13, .	1.6	12
46	Monoâ€•and Diâ€Fucosylated Glycans of the Parasitic Worm S.â€‰mansoni are Recognized Differently by the Innate Immune Receptor DCâ€SIGN. Chemistry - A European Journal, 2020, 26, 15605-15612.	1.7	8
47	Toxin-neutralizing antibodies elicited by naturally acquired cutaneous anthrax are elevated following severe disease and appear to target conformational epitopes. PLoS ONE, 2020, 15, e0230782.	1.1	7
48	Arylsulfatase K inactivation causes mucopolysaccharidosis due to deficient glucuronate desulfation of heparan and chondroitin sulfate. Biochemical Journal, 2020, 477, 3433-3451.	1.7	16
49	Fully Synthetic Heparan Sulfate-Based Neural Tissue Construct That Maintains the Undifferentiated State of Neural Stem Cells. ACS Chemical Biology, 2019, 14, 1921-1929.	1.6	11
50	Advancing Solutions to the Carbohydrate Sequencing Challenge. Journal of the American Chemical Society, 2019, 141, 14463-14479.	6.6	108
51	Sequencing Heparan Sulfate Using HILIC LC-NETD-MS/MS. Analytical Chemistry, 2019, 91, 11738-11746.	3.2	22
52	Chemoenzymatic synthesis of the oligosaccharide moiety of the tumor-associated antigen disialosyl globopentaosylceramide. Organic and Biomolecular Chemistry, 2019, 17, 7304-7308.	1.5	15
53	Protectingâ€Groupâ€Controlled Enzymatic Glycosylation of Oligoâ€•N â€Acetyllactosamine Derivatives. Angewandte Chemie, 2019, 131, 10657-10662.	1.6	6
54	Salt-free fractionation of complex isomeric mixtures of glycosaminoglycan oligosaccharides compatible with ESI-MS and microarray analysis. Scientific Reports, 2019, 9, 16566.	1.6	7

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55	Ionâ€Mobility Spectrometry Can Assign Exact Fucosyl Positions in Glycans and Prevent Misinterpretation of Massâ€Spectrometry Data After Gasâ€Phase Rearrangement. Angewandte Chemie, 2019, 131, 17780-17784.	1.6	5
56	Ionâ€Mobility Spectrometry Can Assign Exact Fucosyl Positions in Glycans and Prevent Misinterpretation of Massâ€Spectrometry Data After Gasâ€Phase Rearrangement. Angewandte Chemie - International Edition, 2019, 58, 17616-17620.	7.2	18
57	Human coronaviruses OC43 and HKU1 bind to 9- O -acetylated sialic acids via a conserved receptor-binding site in spike protein domain A. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2681-2690.	3.3	335
58	Enhanced Inhibition of Influenza A Virus Adhesion by Di- and Trivalent Hemagglutinin Inhibitors. Journal of Medicinal Chemistry, 2019, 62, 6398-6404.	2.9	23
59	Structural basis for human coronavirus attachment to sialic acid receptors. Nature Structural and Molecular Biology, 2019, 26, 481-489.	3.6	475
60	The 2nd sialic acid-binding site of influenza A virus neuraminidase is an important determinant of the hemagglutinin-neuraminidase-receptor balance. PLoS Pathogens, 2019, 15, e1007860.	2.1	45
61	N-Glycolylneuraminic Acid as a Receptor for Influenza A Viruses. Cell Reports, 2019, 27, 3284-3294.e6.	2.9	78
62	Protectingâ€Groupâ€Controlled Enzymatic Glycosylation of Oligoâ€Nâ€Acetyllactosamine Derivatives. Angewandte Chemie - International Edition, 2019, 58, 10547-10552.	7.2	27
63	The three-dimensional structure and recognition mechanism of Manduca sexta peptidoglycan recognition protein-1. Insect Biochemistry and Molecular Biology, 2019, 108, 44-52.	1.2	8
64	Guinea Fowl Coronavirus Diversity Has Phenotypic Consequences for Glycan and Tissue Binding. Journal of Virology, 2019, 93, .	1.5	17
65	An automated platform for the enzyme-mediated assembly of complex oligosaccharides. Nature Chemistry, 2019, 11, 229-236.	6.6	124
66	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. Journal of Molecular Biology, 2019, 431, 842-856.	2.0	36
67	Streptococcal dTDPâ€Lâ€rhamnose biosynthesis enzymes: functional characterization and lead compound identification. Molecular Microbiology, 2019, 111, 951-964.	1.2	42
68	Streamlining the chemoenzymatic synthesis of complex N-glycans by a stop and go strategy. Nature Chemistry, 2019, 11, 161-169.	6.6	94
69	Identification of a secondary binding site in human macrophage galactose-type lectin by microarray studies: Implications for the molecular recognition of its ligands. Journal of Biological Chemistry, 2019, 294, 1300-1311.	1.6	31
70	Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. Angewandte Chemie - International Edition, 2018, 57, 5340-5344.	7.2	49
71	Molecular Basis for the Attachment of S-Layer Proteins to the Cell Wall of Bacillus anthracis. Biochemistry, 2018, 57, 1949-1953.	1.2	21
72	A Traveling Wave Ion Mobility Spectrometry (TWIMS) Study of the Robo1-Heparan Sulfate Interaction. Journal of the American Society for Mass Spectrometry, 2018, 29, 1153-1165.	1.2	12

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73	Human N -acetylglucosaminyltransferase II substrate recognition uses a modular architecture that includes a convergent exosite. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4637-4642.	3.3	37
74	Software for Peak Finding and Elemental Composition Assignment for Glycosaminoglycan Tandem Mass Spectra. Molecular and Cellular Proteomics, 2018, 17, 1448-1456.	2.5	21
75	Chemoenzymatic Synthesis of Asymmetrical Multiâ€Antennary Nâ€Glycans to Dissect Glycanâ€Mediated Interactions between Human Sperm and Oocytes. Chemistry - A European Journal, 2018, 24, 7970-7975.	1.7	13
76	Mass spectrometry for glycan biomarker discovery. TrAC - Trends in Analytical Chemistry, 2018, 100, 7-14.	5.8	34
77	Controlled Chemoenzymatic Synthesis of Heparan Sulfate Oligosaccharides. Angewandte Chemie, 2018, 130, 5438-5442.	1.6	10
78	Glycosylation of extracellular vesicles: current knowledge, tools and clinical perspectives. Journal of Extracellular Vesicles, 2018, 7, 1442985.	5.5	173
79	Negative Electron Transfer Dissociation Sequencing of 3-O-Sulfation-Containing Heparan Sulfate Oligosaccharides. Journal of the American Society for Mass Spectrometry, 2018, 29, 1262-1272.	1.2	20
80	PatB1 is an O-acetyltransferase that decorates secondary cell wall polysaccharides. Nature Chemical Biology, 2018, 14, 79-85.	3.9	37
81	Affinity capillary electrophoresis for the assessment of binding affinity of carbohydrateâ€based cholera toxin inhibitors. Electrophoresis, 2018, 39, 344-347.	1.3	11
82	Synthesis and Immunological Evaluation of a Multicomponent Cancer Vaccine Candidate Containing a Long MUC1 Glycopeptide. ChemBioChem, 2018, 19, 121-125.	1.3	14
83	4,6-O-Pyruvyl Ketal Modified N-Acetylmannosamine of the Secondary Cell Wall Polysaccharide of Bacillus anthracis Is the Anchoring Residue for Its Surface Layer Proteins. Journal of the American Chemical Society, 2018, 140, 17079-17085.	6.6	17
84	Detection of mucopolysaccharidosis III-A (Sanfilippo Syndrome-A) in dried blood spots (DBS) by tandem mass spectrometry. Molecular Genetics and Metabolism, 2018, 125, 59-63.	0.5	13
85	Paramagnetic Tag for Glycosylation Sites in Glycoproteins: Structural Constraints on Heparan Sulfate Binding to Robo1. ACS Chemical Biology, 2018, 13, 2560-2567.	1.6	12
86	Defective mucin-type glycosylation on Î±-dystroglycan in COG-deficient cells increases its susceptibility to bacterial proteases. Journal of Biological Chemistry, 2018, 293, 14534-14544.	1.6	3
87	Substrate Binding by the Second Sialic Acid-Binding Site of Influenza A Virus N1 Neuraminidase Contributes to Enzymatic Activity. Journal of Virology, 2018, 92, .	1.5	30
88	Improved de novo sequencing of heparin/heparan sulfate oligosaccharides by propionylation of sites of sulfation. Carbohydrate Research, 2018, 465, 16-21.	1.1	16
89	Glycosylation of MUC1 influences the binding of a therapeutic antibody by altering the conformational equilibrium of the antigen. Glycobiology, 2017, 27, 677-687.	1.3	45
90	Arylsulfatase K is the Lysosomal 2-Sulfoglucuronate Sulfatase. ACS Chemical Biology, 2017, 12, 367-373.	1.6	12

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91	Human milk oligosaccharides inhibit growth of group B Streptococcus. Journal of Biological Chemistry, 2017, 292, 11243-11249.	1.6	129
92	Synthesis of asymmetrical multiantennary human milk oligosaccharides. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6954-6959.	3.3	118
93	Single Stage Tandem Mass Spectrometry Assignment of the C-5 Uronic Acid Stereochemistry in Heparan Sulfate Tetrasaccharides using Electron Detachment Dissociation. Journal of the American Society for Mass Spectrometry, 2017, 28, 1741-1750.	1.2	27
94	Chemoenzymatic Approach for the Preparation of Asymmetric Bi-, Tri-, and Tetra-Antennary N-Glycans from a Common Precursor. Journal of the American Chemical Society, 2017, 139, 1011-1018.	6.6	72
95	Protein O-Linked Mannose Î²-1,4-N-Acetylglucosaminyl-transferase 2 (POMGNT2) Is a Gatekeeper Enzyme for Functional Glycosylation of Î±-Dystroglycan. Journal of Biological Chemistry, 2017, 292, 2101-2109.	1.6	27
96	Improved isolation and characterization procedure of sialylglycopeptide from egg yolk powder. Carbohydrate Research, 2017, 452, 122-128.	1.1	68
97	Perdeuterated and 13C-enriched myo-inositol for DNP assisted monitoring of enzymatic phosphorylation by inositol-3-kinase. Chemical Communications, 2017, 53, 12398-12401.	2.2	4
98	Mining High-Complexity Motifs in Glycans: A New Language To Uncover the Fine Specificities of Lectins and Glycosidases. Analytical Chemistry, 2017, 89, 12342-12350.	3.2	28
99	Cell-Surface Glyco-Engineering by Exogenous Enzymatic Transfer Using a Bifunctional CMP-Neu5Ac Derivative. Journal of the American Chemical Society, 2017, 139, 13342-13348.	6.6	50
100	Network inference from glycoproteomics data reveals new reactions in the IgG glycosylation pathway. Nature Communications, 2017, 8, 1483.	5.8	67
101	Heparan Sulfate Microarray Reveals That Heparan Sulfateâ€“Protein Binding Exhibits Different Ligand Requirements. Journal of the American Chemical Society, 2017, 139, 9534-9543.	6.6	106
102	Synthesis of a Glycosylphosphatidylinositol Anchor Derived from Leishmania donovani That Can Be Functionalized by Cu-Catalyzed Azideâ€“Alkyne Cycloadditions. Organic Letters, 2017, 19, 3827-3830.	2.4	19
103	Gas-Phase Analysis of the Complex of Fibroblast GrowthFactor 1 with Heparan Sulfate: A Traveling Wave Ion Mobility Spectrometry (TWIMS) and Molecular Modeling Study. Journal of the American Society for Mass Spectrometry, 2017, 28, 96-109.	1.2	18
104	MUC1 Vaccines, Comprised of Glycosylated or Non-Glycosylated Peptides or Tumor-Derived MUC1, Can Circumvent Immunoediting to Control Tumor Growth in MUC1 Transgenic Mice. PLoS ONE, 2016, 11, e0145920.	1.1	31
105	Labelâ€Free Detection of Glycanâ€“Protein Interactions for Array Development by Surfaceâ€Enhanced Raman Spectroscopy (SERS). Chemistry - A European Journal, 2016, 22, 11180-11185.	1.7	18
106	Synthetic Receptors for the Highâ€Affinity Recognition of Oâ€GlcNAc Derivatives. Angewandte Chemie - International Edition, 2016, 55, 3387-3392.	7.2	86
107	Synthetic Receptors for the Highâ€Affinity Recognition of Oâ€GlcNAc Derivatives. Angewandte Chemie, 2016, 128, 3448-3453.	1.6	36
108	Extension and validation of the GLYCAM force field parameters for modeling glycosaminoglycans. Canadian Journal of Chemistry, 2016, 94, 927-935.	0.6	69

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109	Coronavirus receptor switch explained from the stereochemistry of proteinâ€“carbohydrate interactions and a single mutation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3111-9.	3.3	38
110	De Novo Sequencing of Complex Mixtures of Heparan Sulfate Oligosaccharides. Analytical Chemistry, 2016, 88, 5299-5307.	3.2	31
111	Integrated Approach to Identify Heparan Sulfate Ligand Requirements of Robo1. Journal of the American Chemical Society, 2016, 138, 13059-13067.	6.6	42
112	Chemical Glycobiology. Glycobiology, 2016, 26, 788-788.	1.3	7
113	Structural Aspects of Heparan Sulfate Binding to Robo1â€“Ig1â€“2. ACS Chemical Biology, 2016, 11, 3106-3113.	1.6	22
114	One-Step Selective Exoenzymatic Labeling (SEEL) Strategy for the Biotinylation and Identification of Glycoproteins of Living Cells. Journal of the American Chemical Society, 2016, 138, 11575-11582.	6.6	81
115	Overcoming the limited availability of human milk oligosaccharides: challenges and opportunities for research and application. Nutrition Reviews, 2016, 74, 635-644.	2.6	109
116	Divergent Chemoenzymatic Synthesis of Asymmetricalâ€Coreâ€Fucosylated and Coreâ€Unmodified Nâ€Glycans. Chemistry - A European Journal, 2016, 22, 18742-18746.	1.7	38
117	Controlled Multiâ€functionalization Facilitates Targeted Delivery of Nanoparticles to Cancer Cells. Chemistry - A European Journal, 2016, 22, 1415-1423.	1.7	24
118	Mechanism of Glycosylation of Anomeric Sulfonium Ions. Journal of the American Chemical Society, 2016, 138, 3002-3011.	6.6	45
119	Selective Exo-Enzymatic Labeling Detects Increased Cell Surface Sialoglycoprotein Expression upon Megakaryocytic Differentiation. Journal of Biological Chemistry, 2016, 291, 3982-3989.	1.6	45
120	A metal-free turn-on fluorescent probe for the fast and sensitive detection of inorganic azides. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1651-1654.	1.0	10
121	Mucin architecture behind the immune response: design, evaluation and conformational analysis of an antitumor vaccine derived from an unnatural MUC1 fragment. Chemical Science, 2016, 7, 2294-2301.	3.7	35
122	<scp>GacA</scp> is essential for <scp>G</scp>roup <scp>A S</scp>treptococcus and defines a new class of monomeric d<scp>TDP</scp>â€4â€dehydrorhamnose reductases (<scp>RmlD</scp>). Molecular Microbiology, 2015, 98, 946-962.	1.2	46
123	Synthetic Enterobacterial Common Antigen (ECA) for the Development of a Universal Immunotherapy for Drugâ€Resistant Enterobacteriaceae. Angewandte Chemie - International Edition, 2015, 54, 10953-10957.	7.2	32
124	Assembly of a Complex Branched Oligosaccharide by Combining Fluorousâ€Supported Synthesis and Stereoselective Glycosylations using Anomeric Sulfonium Ions. Chemistry - A European Journal, 2015, 21, 12920-12926.	1.7	26
125	Chemical Synthesis of a Glycopeptide Derived from Skp1 for Probing Protein Specific Glycosylation. Chemistry - A European Journal, 2015, 21, 11779-11787.	1.7	9
126	Fluorogenic Strainâ€Promoted Alkyneâ€“Diazo Cycloadditions. Chemistry - A European Journal, 2015, 21, 13996-14001.	1.7	35

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127	Linear synthesis and immunological properties of a fully synthetic vaccine candidate containing a sialylated MUC1 glycopeptide. Chemical Communications, 2015, 51, 10214-10217.	2.2	51
128	Discovery of a Heparan Sulfate 3-O-Sulfation Specific Peeling Reaction. Analytical Chemistry, 2015, 87, 592-600.	3.2	35
129	Synthesis of Staphylococcus aureus Type 5 Trisaccharide Repeating Unit: Solving the Problem of Lactamization. Organic Letters, 2015, 17, 928-931.	2.4	40
130	Branched Polyhedral Oligomeric Silsesquioxane Nanoparticles Prepared via Strain-Promoted 1,3-Dipolar Cycloadditions. Langmuir, 2015, 31, 8146-8155.	1.6	14
131	Assignment of hexuronic acid stereochemistry in synthetic heparan sulfate tetrasaccharides with 2-O-sulfo uronic acids using electron detachment dissociation. International Journal of Mass Spectrometry, 2015, 390, 163-169.	0.7	19
132	Generating Isoform-Specific Antibodies: Lessons from Nucleocytoplasmic Glycoprotein Skp1. , 2015, , 927-934.		1
133	A Computational Framework for Heparan Sulfate Sequencing Using High-resolution Tandem Mass Spectra. Molecular and Cellular Proteomics, 2014, 13, 2490-2502.	2.5	25
134	Preparation of Wellâ€Defined Antibodyâ€“Drug Conjugates through Glycan Remodeling and Strainâ€Promoted Azideâ€“Alkyne Cycloadditions. Angewandte Chemie - International Edition, 2014, 53, 7179-7182.	7.2	129
135	A multifunctional anomeric linker for the chemoenzymatic synthesis of complex oligosaccharides. Chemical Communications, 2014, 50, 7132-7135.	2.2	34
136	New glucuronic acid donors for the modular synthesis of heparan sulfate oligosaccharides. Organic and Biomolecular Chemistry, 2014, 12, 2087-2098.	1.5	23
137	High-Field Asymmetric-Waveform Ion Mobility Spectrometry and Electron Detachment Dissociation of Isobaric Mixtures of Glycosaminoglycans. Journal of the American Society for Mass Spectrometry, 2014, 25, 258-268.	1.2	64
138	Immune and Anticancer Responses Elicited by Fully Synthetic Aberrantly Glycosylated MUC1 Tripartite Vaccines Modified by a TLR2 or TLR9 Agonist. ChemBioChem, 2014, 15, 1508-1513.	1.3	60
139	Exploring Strainâ€Promoted 1,3â€Dipolar Cycloadditions of End Functionalized Polymers. Chemistry - A European Journal, 2014, 20, 8753-8760.	1.7	10
140	Selective and reversible photochemical derivatization of cysteine residues in peptides and proteins. Chemical Science, 2014, 5, 1591-1598.	3.7	63
141	Leishmania lipophosphoglycan: how to establish structure-activity relationships for this highly complex and multifunctional glycoconjugate?. Frontiers in Cellular and Infection Microbiology, 2014, 4, 193.	1.8	71
142	B4GAT1 is the priming enzyme for the LARGE-dependent functional glycosylation of Î±-dystroglycan. ELife, 2014, 3, .	2.8	78
143	Generating Isoform-Specific Antibodies: Lessons from the Nucleocytoplasmic Glycoprotein Skp1. , 2014, , 1-8.		1
144	Chemical synthesis of Î²-arabinofuranosyl containing oligosaccharides derived from plant cell wall extensins. Organic and Biomolecular Chemistry, 2013, 11, 5136.	1.5	14

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145	Stage-specific expression and antigenicity of glycoprotein glycans isolated from the human liver fluke, Opisthorchis viverrini. International Journal for Parasitology, 2013, 43, 37-50.	1.3	16
146	Photo-click chemistry strategies for spatiotemporal control of metal-free ligation, labeling, and surface derivatization. Pure and Applied Chemistry, 2013, 85, 1499-1513.	0.9	42
147	Adaptive immune activation: glycosylation does matter. Nature Chemical Biology, 2013, 9, 776-784.	3.9	250
148	A General Strategy for the Chemoenzymatic Synthesis of Asymmetrically Branched N -Glycans. Science, 2013, 341, 379-383.	6.0	304
149	Multifunctionalization of Polymers by Strain-Promoted Cycloadditions. Macromolecules, 2013, 46, 7759-7768.	2.2	46
150	Microarray analysis of the human antibody response to synthetic Cryptosporidium glycopeptides. International Journal for Parasitology, 2013, 43, 901-907.	1.3	22
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