

# Xi Chen

## List of Publications by Year in descending order

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254  
papers

12,476  
citations

24978

57  
h-index

38300

95  
g-index

287  
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287  
docs citations

287  
times ranked

8869  
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate and Process Engineering for Biocatalytic Synthesis and Facile Purification of Human Milk Oligosaccharides. <i>ChemSusChem</i> , 2022, 15, .	3.6	8
2	Insight into the molecular basis of substrate recognition by the wall teichoic acid glycosyltransferase TagA. <i>Journal of Biological Chemistry</i> , 2022, 298, 101464.	1.6	3
3	The role of antibody responses against glycans in bioprosthetic heart valve calcification and deterioration. <i>Nature Medicine</i> , 2022, 28, 283-294.	15.2	40
4	Sialoglycan-binding patterns of bacterial AB5 toxin B subunits correlate with host range and toxicity, indicating evolution independent of A subunits. <i>Journal of Biological Chemistry</i> , 2022, 298, 101900.	1.6	6
5	Origins of glycan selectivity in streptococcal Siglec-like adhesins suggest mechanisms of receptor adaptation. <i>Nature Communications</i> , 2022, 13, 2753.	5.8	4
6	Systematic synthesis of bisected <i>N</i> -glycans and unique recognitions by glycan-binding proteins. <i>Chemical Science</i> , 2022, 13, 7644-7656.	3.7	7
7	Recent progress in synthesis of carbohydrates with sugar nucleotide-dependent glycosyltransferases. <i>Current Opinion in Chemical Biology</i> , 2021, 61, 81-95.	2.8	39
8	Chemoenzymatic Synthesis and Facile Purification of Gangliosides. <i>Current Protocols</i> , 2021, 1, e91.	1.3	3
9	Reversible <i>O</i> -Acetyl Migration within the Sialic Acid Side Chain and Its Influence on Protein Recognition. <i>ACS Chemical Biology</i> , 2021, 16, 1951-1960.	1.6	19
10	Sialoglycan recognition is a common connection linking acidosis, zinc, and HMGB1 in sepsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	10
11	Evolutionary conservation of human ketodeoxynonulosonic acid production is independent of sialoglycan biosynthesis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	14
12	Therapeutic antibodies, targeting the SARS-CoV-2 spike N-terminal domain, protect lethally infected K18-hACE2 mice. <i>IScience</i> , 2021, 24, 102479.	1.9	29
13	Chemoenzymatic modular assembly of O-GalNAc glycans for functional glycomics. <i>Nature Communications</i> , 2021, 12, 3573.	5.8	28
14	Chemoenzymatic Total Synthesis of GM3 Gangliosides Containing Different Sialic Acid Forms and Various Fatty Acyl Chains. <i>Journal of Organic Chemistry</i> , 2021, 86, 8672-8682.	1.7	15
15	A GH89 human $\beta$ -N-acetylglucosaminidase (hNAGLU) homologue from gut microbe <i>Bacteroides thetaiotaomicron</i> capable of hydrolyzing heparosan oligosaccharides. <i>AMB Express</i> , 2021, 11, 94.	1.4	0
16	Are sialic acids involved in COVID-19 pathogenesis?. <i>Glycobiology</i> , 2021, 31, 1068-1071.	1.3	22
17	Microbial production of human milk oligosaccharide lactodifucotetraose. <i>Metabolic Engineering</i> , 2021, 66, 12-20.	3.6	14
18	Biomolecular Recognition of the Glycan Neoantigen CA19-9 by Distinct Antibodies. <i>Journal of Molecular Biology</i> , 2021, 433, 167099.	2.0	5

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19	Serum Antibodies to N-Glycolylneuraminic Acid Are Elevated in Duchenne Muscular Dystrophy and Correlate with Increased Disease Pathology in Cmahmdx Mice. <i>American Journal of Pathology</i> , 2021, 191, 1474-1486.	1.9	4
20	Exploring the Impact of Ketodeoxynonulosonic Acid in Host-Pathogen Interactions Using Uptake and Surface Display by Nontypeable Haemophilus influenzae. <i>MBio</i> , 2021, 12, .	1.8	12
21	General Tolerance of Galactosyltransferases toward UDP-galactosamine Expands Their Synthetic Capability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26555-26560.	7.2	2
22	Chemoenzymatic Synthesis of Sialosides Containing 7- <i>N</i> - or 7,9-Di- <i>N</i> -acetyl Sialic Acid as Stable <i>O</i> -Acetyl Analogues for Probing Sialic Acid-Binding Proteins. <i>Journal of Organic Chemistry</i> , 2021, 86, 14381-14397.	1.7	9
23	A Neoglycoprotein-Immobilized Fluorescent Magnetic Bead Suspension Multiplex Array for Galectin-Binding Studies. <i>Molecules</i> , 2021, 26, 6194.	1.7	1
24	Chemoenzymatic synthesis of fucosylated oligosaccharides using <i>Thermosynechococcus</i> Î±1â€²-fucosyltransferase and their application in the regulation of intestinal microbiota. <i>Food Chemistry: X</i> , 2021, 12, 100152.	1.8	7
25	Catalytic Cycle of <i>Neisseria meningitidis</i> CMP-Sialic Acid Synthetase Illustrated by High-Resolution Protein Crystallography. <i>Biochemistry</i> , 2020, 59, 3157-3168.	1.2	5
26	<i>Enterococcus faecalis</i> Î±1â€²-mannosidase (EfmA): an efficient catalyst for glycoprotein N-glycan modification. <i>FEBS Letters</i> , 2020, 594, 439-451.	1.3	9
27	<i>L. pneumophila</i> CMP-5,7-di- <i>N</i> -acetylglucosaminic acid synthetase (LpCLS)-involved chemoenzymatic synthesis of sialosides and analogues. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 738-744.	1.5	7
28	Microarray analyses of closely related glycoforms reveal different accessibilities of glycan determinants on N-glycan branches. <i>Glycobiology</i> , 2020, 30, 334-345.	1.3	23
29	Production of functional mimics of human milk oligosaccharides by enzymatic glycosylation of bovine milk oligosaccharides. <i>International Dairy Journal</i> , 2020, 102, 104583.	1.5	18
30	Directed Evolution of Therapeutic Antibodies Targeting Glycosylation in Cancer. <i>Cancers</i> , 2020, 12, 2824.	1.7	14
31	Recent progress in chemical synthesis of bacterial surface glycans. <i>Current Opinion in Chemical Biology</i> , 2020, 58, 121-136.	2.8	21
32	Structural characterization of a nonhydrolyzing UDP-GlcNAc 2-epimerase from <i>Neisseria meningitidis</i> serogroup A. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2020, 76, 557-567.	0.4	4
33	Tandem sialoglycan-binding modules in a <i>Streptococcus sanguinis</i> serine-rich repeat adhesin create target dependent avidity effects. <i>Journal of Biological Chemistry</i> , 2020, 295, 14737-14749.	1.6	2
34	Association between Neu5Gc carbohydrate and serum antibodies against it provides the molecular link to cancer: French NutriNet-Santé study. <i>BMC Medicine</i> , 2020, 18, 262.	2.3	28
35	A Chemoenzymatic Synthone Strategy for Synthesizing <i>N</i> -Acetyl Analogues of <i>O</i> -Acetylated <i>N. meningitidis</i> W Capsular Polysaccharide Oligosaccharides. <i>Journal of Organic Chemistry</i> , 2020, 85, 16157-16165.	1.7	11
36	Engineer <i>P. multocida</i> Heparosan Synthase 2 (PmHS2) for Size-Controlled Synthesis of Longer Heparosan Oligosaccharides. <i>ACS Catalysis</i> , 2020, 10, 6113-6118.	5.5	14

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37	A combined NMR, MD and DFT conformational analysis of 9-O-acetyl sialic acid-containing GM3 ganglioside glycan and its 9-N-acetyl mimic. <i>Glycobiology</i> , 2020, 30, 787-801.	1.3	17
38	Size-Controlled Chemoenzymatic Synthesis of Homogeneous Oligosaccharides of <i>Neisseria meningitidis</i> W Capsular Polysaccharide. <i>ACS Catalysis</i> , 2020, 10, 2791-2798.	5.5	14
39	The role of 9-O-acetylated glycan receptor moieties in the typhoid toxin binding and intoxication. <i>PLoS Pathogens</i> , 2020, 16, e1008336.	2.1	28
40	New Means to Control Molecular Assembly. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6405-6412.	1.5	9
41	Influenza D virus diverges from its related influenza C virus in the recognition of 9-O-acetylated N-acetyl- or N-glycolyl-neuraminic acid-containing glycan receptors. <i>Virology</i> , 2020, 545, 16-23.	1.1	25
42	Modified Sialic Acids on Mucus and Erythrocytes Inhibit Influenza A Virus Hemagglutinin and Neuraminidase Functions. <i>Journal of Virology</i> , 2020, 94, .	1.5	35
43	Elicited and pre-existing anti-Neu5Gc antibodies differentially affect human endothelial cells transcriptome. <i>Xenotransplantation</i> , 2019, 26, e12535.	1.6	12
44	Elucidation of a sialic acid metabolism pathway in mucus-foraging <i>Ruminococcus gnavus</i> unravels mechanisms of bacterial adaptation to the gut. <i>Nature Microbiology</i> , 2019, 4, 2393-2404.	5.9	83
45	A Bacterial $\beta$ -Galactosyltransferase Enables Multigram-Scale Synthesis of Human Milk Lacto-N-tetraose (LNT) and Its Fucosides. <i>ACS Catalysis</i> , 2019, 9, 10721-10726.	5.5	53
46	Synthesis of N-Glycolylneuraminic Acid (Neu5Gc) and Its Glycosides. <i>Frontiers in Immunology</i> , 2019, 10, 2004.	2.2	44
47	A substrate tagging and two-step enzymatic reaction strategy for large-scale synthesis of 2,7-anhydro-sialic acid. <i>Carbohydrate Research</i> , 2019, 479, 41-47.	1.1	6
48	9-Azido-9-deoxy-2,3-difluorosialic Acid as a Subnanomolar Inhibitor against Bacterial Sialidases. <i>Journal of Organic Chemistry</i> , 2019, 84, 6697-6708.	1.7	10
49	Biochemical characterization of <i>Helicobacter pylori</i> $\beta$ -fucosyltransferase and its application in the synthesis of fucosylated human milk oligosaccharides. <i>Carbohydrate Research</i> , 2019, 480, 1-6.	1.1	23
50	Differential Recognition of Diet-Derived Neu5Gc-Neoantigens on Glycan Microarrays by Carbohydrate-Specific Pooled Human IgG and IgA Antibodies. <i>Bioconjugate Chemistry</i> , 2019, 30, 1565-1574.	1.8	12
51	Biomimetic Glyconanoparticle Vaccine for Cancer Immunotherapy. <i>ACS Nano</i> , 2019, 13, 2936-2947.	7.3	42
52	Chemoenzymatic Synthesis of $\alpha$ -Mannose Glycans Containing Sulfated or Nonsulfated HNK-1 Epitope. <i>Journal of the American Chemical Society</i> , 2019, 141, 19351-19359.	6.6	22
53	Facile chemoenzymatic synthesis of Lewis a (Lea) antigen in gram-scale and sialyl Lewis a (sLea) antigens containing diverse sialic acid forms. <i>Carbohydrate Research</i> , 2019, 472, 115-121.	1.1	20
54	Strategies for chemoenzymatic synthesis of carbohydrates. <i>Carbohydrate Research</i> , 2019, 472, 86-97.	1.1	67

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55	Quantitative and qualitative changes in anti-Neu5Gc antibody response following rabbit anti-thymocyte IgG induction in kidney allograft recipients. <i>European Journal of Clinical Investigation</i> , 2019, 49, e13069.	1.7	9
56	Regioselective One-Pot Multienzyme (OPME) Chemoenzymatic Strategies for Systematic Synthesis of Sialyl Core 2 Glycans. <i>ACS Catalysis</i> , 2019, 9, 211-215.	5.5	18
57	Presentation Mode of Glycans Affect Recognition of Human Serum anti-Neu5Gc IgG Antibodies. <i>Bioconjugate Chemistry</i> , 2019, 30, 161-168.	1.8	19
58	Targeting Base Excision Repair Glycosylases with DNA Containing Transition State Mimics Prepared via Click Chemistry. <i>ACS Chemical Biology</i> , 2019, 14, 27-36.	1.6	2
59	Synthesis of Glycosphingolipids (GSLs). <i>Chemical Biology</i> , 2019, , 226-253.	0.1	1
60	Enzymatic and Chemoenzymatic Synthesis of Human Milk Oligosaccharides (HMOS). <i>Chemical Biology</i> , 2019, , 254-280.	0.1	7
61	A Diazido Mannose Analogue as a Chemoenzymatic Synthon for Synthesizing Diacetylglucosaminic Acid-Containing Glycosides. <i>Angewandte Chemie</i> , 2018, 130, 2979-2983.	1.6	7
62	A Diazido Mannose Analogue as a Chemoenzymatic Synthon for Synthesizing Diacetylglucosaminic Acid-Containing Glycosides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2929-2933.	7.2	28
63	Interaction of <i>Neisseria meningitidis</i> Group X N-acetylglucosamine-1-phosphotransferase with its donor substrate. <i>Glycobiology</i> , 2018, 28, 100-107.	1.3	13
64	Serine-Rich Repeat Adhesins Mediate Shear-Enhanced Streptococcal Binding to Platelets. <i>Infection and Immunity</i> , 2018, 86, .	1.0	16
65	Î±2-6-Neosialidase: A Sialyltransferase Mutant as a Sialyl Linkage-Specific Sialidase. <i>ACS Chemical Biology</i> , 2018, 13, 1228-1234.	1.6	11
66	Poor Patient and Graft Outcome After Induction Treatment by Antithymocyte Globulin in Recipients of a Kidney Graft After Nonrenal Organ Transplantation. <i>Transplantation Direct</i> , 2018, 4, e357.	0.8	12
67	Sialidase-Catalyzed One-Pot Multienzyme (OPME) Synthesis of Sialidase Transition-State Analogue Inhibitors. <i>ACS Catalysis</i> , 2018, 8, 43-47.	5.5	19
68	Triazole-linked transition state analogs as selective inhibitors against <i>V. cholerae</i> sialidase. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5751-5757.	1.4	14
69	Streamlined chemoenzymatic total synthesis of prioritized ganglioside cancer antigens. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4076-4080.	1.5	41
70	Molecular Characterization of a Novel N-Acetylneuraminase Lyase from a Deep-Sea Symbiotic <i>Mycoplasma</i> . <i>Marine Drugs</i> , 2018, 16, 80.	2.2	10
71	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
72	<i>Streptococcus pneumoniae</i> Sialidase SpNanB-Catalyzed One-Pot Multienzyme (OPME) Synthesis of 2,7-Anhydro-Sialic Acids as Selective Sialidase Inhibitors. <i>Journal of Organic Chemistry</i> , 2018, 83, 10798-10804.	1.7	14

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73	Polyclonal human antibodies against glycans bearing red meat-derived non-human sialic acid N-glycolylneuraminic acid are stable, reproducible, complex and vary between individuals: Total antibody levels are associated with colorectal cancer risk. <i>PLoS ONE</i> , 2018, 13, e0197464.	1.1	45
74	Human evolutionary loss of epithelial Neu5Gc expression and species-specific susceptibility to cholera. <i>PLoS Pathogens</i> , 2018, 14, e1007133.	2.1	33
75	Production of Glycopeptide Derivatives for Exploring Substrate Specificity of Human OGA Toward Sugar Moiety. <i>Frontiers in Chemistry</i> , 2018, 6, 646.	1.8	8
76	Converting <i>Pasteurella multocida</i> $\alpha$ -3-sialyltransferase 1 (PmST1) to a regioselective $\alpha$ -6-sialyltransferase by saturation mutagenesis and regioselective screening. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1700-1709.	1.5	27
77	A general strategy for the synthesis of homogeneous hyaluronan conjugates and their biological applications. <i>Chemical Communications</i> , 2017, 53, 3555-3558.	2.2	26
78	A Chemical Biology Solution to Problems with Studying Biologically Important but Unstable 9-O-Acetyl Sialic Acids. <i>ACS Chemical Biology</i> , 2017, 12, 214-224.	1.6	37
79	Chemoenzymatic synthesis of para-nitrophenol (pNP)-tagged $\alpha$ -8-sialosides and high-throughput substrate specificity studies of $\alpha$ -8-sialidases. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 160-167.	1.5	20
80	Studies on the Detection, Expression, Glycosylation, Dimerization, and Ligand Binding Properties of Mouse Siglec-E. <i>Journal of Biological Chemistry</i> , 2017, 292, 1029-1037.	1.6	22
81	Enzymatic synthesis of human blood group P1 pentasaccharide antigen. <i>Carbohydrate Research</i> , 2017, 438, 39-43.	1.1	9
82	Evolution of host adaptation in the <i>Salmonella typhoid</i> toxin. <i>Nature Microbiology</i> , 2017, 2, 1592-1599.	5.9	40
83	Membrane-enclosed multienzyme (MEME) synthesis of 2,7-anhydro-sialic acid derivatives. <i>Carbohydrate Research</i> , 2017, 451, 110-117.	1.1	7
84	Distribution of O-Acetylated Sialic Acids among Target Host Tissues for Influenza Virus. <i>MSphere</i> , 2017, 2, .	1.3	56
85	<i>H. pylori</i> $\alpha$ -3/4-fucosyltransferase (Hp3/4FT)-catalyzed one-pot multienzyme (OPME) synthesis of Lewis antigens and human milk fucosides. <i>Chemical Communications</i> , 2017, 53, 11012-11015.	2.2	53
86	Chemoenzymatic synthesis of Neu5Ac9NAc-containing $\alpha$ -3- and $\alpha$ -6-linked sialosides and their use for sialidase substrate specificity studies. <i>Carbohydrate Research</i> , 2017, 451, 51-58.	1.1	26
87	Profiling Anti-Neu5Gc IgG in Human Sera with a Sialoglycan Microarray Assay. <i>Journal of Visualized Experiments</i> , 2017, .	0.2	23
88	Enzymatic and Chemoenzymatic Syntheses of Disialyl Glycans and Their Necrotizing Enterocolitis Preventing Effects. <i>Journal of Organic Chemistry</i> , 2017, 82, 13152-13160.	1.7	36
89	Highly efficient chemoenzymatic synthesis and facile purification of $\alpha$ -Gal pentasaccharyl ceramide Gal $\alpha$ 3Nac $\alpha$ 4 $\beta$ 2Cer. <i>Chemical Communications</i> , 2017, 53, 8280-8283.	2.2	24
90	Unravelling the specificity and mechanism of sialic acid recognition by the gut symbiont <i>Ruminococcus gnavus</i> . <i>Nature Communications</i> , 2017, 8, 2196.	5.8	74

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91	Coevolution of Siglec-11 and Siglec-16 via gene conversion in primates. <i>BMC Evolutionary Biology</i> , 2017, 17, 228.	3.2	23
92	Glycan microarray reveal induced IgGs repertoire shift against a dietary carbohydrate in response to rabbit anti-human thymocyte therapy. <i>Oncotarget</i> , 2017, 8, 112236-112244.	0.8	26
93	The Trypomastigote Small Surface Antigen (TSSA) regulates <i>Trypanosoma cruzi</i> infectivity and differentiation. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005856.	1.3	21
94	Sialic Acid Glycobiology Unveils <i>Trypanosoma cruzi</i> Trypomastigote Membrane Physiology. <i>PLoS Pathogens</i> , 2016, 12, e1005559.	2.1	57
95	Structural Basis for Sialoglycan Binding by the <i>Streptococcus sanguinis</i> SrpA Adhesin. <i>Journal of Biological Chemistry</i> , 2016, 291, 7230-7240.	1.6	39
96	Chemoenzymatic synthesis of tumor-associated antigen N3 minor octasaccharide. <i>Journal of Carbohydrate Chemistry</i> , 2016, 35, 412-422.	0.4	1
97	Correction: Substrate specificity of FUT8 and chemoenzymatic synthesis of core-fucosylated asymmetric N-glycans. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4542-4542.	1.5	0
98	Substrate specificity of FUT8 and chemoenzymatic synthesis of core-fucosylated asymmetric N-glycans. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4027-4031.	1.5	58
99	Local Mechanical Perturbation Provides an Effective Means to Regulate the Growth and Assembly of Functional Peptide Fibrils. <i>Small</i> , 2016, 12, 6407-6415.	5.2	6
100	Structures of the <i>Streptococcus sanguinis</i> SrpA Binding Region with Human Sialoglycans Suggest Features of the Physiological Ligand. <i>Biochemistry</i> , 2016, 55, 5927-5937.	1.2	27
101	Systematic chemoenzymatic synthesis of O-sulfated sialyl Lewis x antigens. <i>Chemical Science</i> , 2016, 7, 2827-2831.	3.7	31
102	A General Chemoenzymatic Strategy for the Synthesis of Glycosphingolipids. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 4315-4320.	1.2	12
103	Effective one-pot multienzyme (OPME) synthesis of monotreme milk oligosaccharides and other sialosides containing 4-O-acetyl sialic acid. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8586-8597.	1.5	22
104	Characterization of immunogenic Neu5Gc in bioprosthetic heart valves. <i>Xenotransplantation</i> , 2016, 23, 381-392.	1.6	63
105	Glycosyltransferase engineering for carbohydrate synthesis. <i>Biochemical Society Transactions</i> , 2016, 44, 129-142.	1.6	60
106	A sialic acid aldolase from <i>Peptoclostridium difficile</i> NAP08 with 4-hydroxy-2-oxo-pentanoate aldolase activity. <i>Enzyme and Microbial Technology</i> , 2016, 92, 99-106.	1.6	6
107	Sequential One-Pot Multienzyme Chemoenzymatic Synthesis of Glycosphingolipid Glycans. <i>Journal of Organic Chemistry</i> , 2016, 81, 10809-10824.	1.7	54
108	Identification of the binding roles of terminal and internal glycan epitopes using enzymatically synthesized N-glycans containing tandem epitopes. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 11106-11116.	1.5	42



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109	Diversity-Oriented Enzymatic Modular Assembly of ABO Histo-blood Group Antigens. ACS Catalysis, 2016, 6, 8140-8144.	5.5	30
110	Novel aspects of sialoglycan recognition by the Siglec-like domains of streptococcal SRR glycoproteins. Glycobiology, 2016, 26, cww042.	1.3	55
111	Characterizing non-hydrolyzing Neisseria meningitidis serogroup A UDP-N-acetylglucosamine (UDP-GlcNAc) 2-epimerase using UDP-N-acetylmannosamine (UDP-ManNAc) and derivatives. Carbohydrate Research, 2016, 419, 18-28.	1.1	10
112	Cu-Catalyzed Click Reaction in Carbohydrate Chemistry. Chemical Reviews, 2016, 116, 3086-3240.	23.0	642
113	Donor substrate promiscuity of bacterial $\beta$ -1 $\rightarrow$ 3-N-acetylglucosaminyltransferases and acceptor substrate flexibility of $\beta$ -1 $\rightarrow$ 4-galactosyltransferases. Bioorganic and Medicinal Chemistry, 2016, 24, 1696-1705.	1.4	46
114	One-pot multienzyme (OPME) systems for chemoenzymatic synthesis of carbohydrates. Organic and Biomolecular Chemistry, 2016, 14, 2809-2818.	1.5	126
115	The one-pot multienzyme (OPME) synthesis of human blood group H antigens and a human milk oligosaccharide (HMOS) with highly active Thermosynechococcus elongatus $\beta$ -1 $\rightarrow$ 2-fucosyltransferase. Chemical Communications, 2016, 52, 3899-3902.	2.2	58
116	An Open Receptor-Binding Cavity of Hemagglutinin-Esterase-Fusion Glycoprotein from Newly-Identified Influenza D Virus: Basis for Its Broad Cell Tropism. PLoS Pathogens, 2016, 12, e1005411.	2.1	92
117	Characterization of Receptor Binding Profiles of Influenza A Viruses Using An Ellipsometry-Based Label-Free Glycan Microarray Assay Platform. Biomolecules, 2015, 5, 1480-1498.	1.8	44
118	Sequential one-pot multienzyme (OPME) synthesis of lacto-N-neotetraose and its sialyl and fucosyl derivatives. Chemical Communications, 2015, 51, 7689-7692.	2.2	71
119	Efficient chemoenzymatic synthesis of novel galacto-N-biose derivatives and their sialylated forms. Chemical Communications, 2015, 51, 10310-10313.	2.2	22
120	Human Milk Oligosaccharides (HMOS). Advances in Carbohydrate Chemistry and Biochemistry, 2015, 72, 113-190.	0.4	144
121	Engineering Amyloid Fibrils from $\beta$ -Solenoid Proteins for Biomaterials Applications. ACS Nano, 2015, 9, 449-463.	7.3	60
122	Improved one-pot multienzyme (OPME) systems for synthesizing UDP-uronic acids and glucuronides. Chemical Communications, 2015, 51, 4595-4598.	2.2	39
123	A Photobacterium sp. $\beta$ -6-sialyltransferase (Psp2,6ST) mutant with an increased expression level and improved activities in sialylating Tn antigens. Carbohydrate Research, 2015, 408, 127-133.	1.1	21
124	Chemoenzymatic synthesis of $\beta$ -dystroglycan core M1 O-mannose glycans. Chemical Communications, 2015, 51, 11654-11657.	2.2	19
125	Efficient chemoenzymatic synthesis of an N-glycan isomer library. Chemical Science, 2015, 6, 5652-5661.	3.7	114
126	Structures of <i>Bacteroides fragilis</i> uridine 5 $\alpha$ -diphosphate-N-acetylglucosamine (UDP-GlcNAc) acyltransferase (BfLpxA). Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1068-1076.	2.5	3



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127	Equine and Canine Influenza H3N8 Viruses Show Minimal Biological Differences Despite Phylogenetic Divergence. <i>Journal of Virology</i> , 2015, 89, 6860-6873.	1.5	36
128	Facile chemoenzymatic synthesis of biotinylated heparosan hexasaccharide. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5098-5101.	1.5	16
129	Glycoproteins: Chemical Features and Biological Roles. , 2015, , 3-33.		0
130	Complexity and Diversity of the Mammalian Sialome Revealed by Nidovirus Virolectins. <i>Cell Reports</i> , 2015, 11, 1966-1978.	2.9	62
131	Chemoenzymatic synthesis of lacto-N-tetrasaccharide and sialyl lacto-N-tetrasaccharides. <i>Carbohydrate Research</i> , 2015, 401, 5-10.	1.1	45
132	Broad and direct interaction between TLR and Siglec families of pattern recognition receptors and its regulation by Neu1. <i>ELife</i> , 2014, 3, e04066.	2.8	117
133	Rapid evolution of binding specificities and expression patterns of inhibitory CD33-related Siglecs in primates. <i>FASEB Journal</i> , 2014, 28, 1280-1293.	0.2	71
134	Oral Streptococci Utilize a Siglec-Like Domain of Serine-Rich Repeat Adhesins to Preferentially Target Platelet Sialoglycans in Human Blood. <i>PLoS Pathogens</i> , 2014, 10, e1004540.	2.1	75
135	Synthetic Disialyl Hexasaccharides Protect Neonatal Rats from Necrotizing Enterocolitis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6687-6691.	7.2	69
136	Crystal structures of sialyltransferase from <i>Photobacterium damsela</i> . <i>FEBS Letters</i> , 2014, 588, 4720-4729.	1.3	21
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