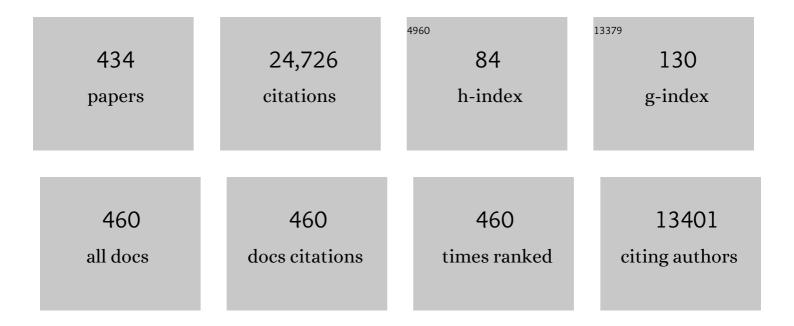
Stephen G Withers

List of Publications by Year in descending order

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STEDHEN C. WITHERS

#	Article	IF	CITATIONS
1	Crystal structure of the <i>Propionibacterium acnes</i> surface sialidase, a drug target for <i>P. acnes</i> -associated diseases. Glycobiology, 2022, 32, 162-170.	2.5	2
2	Ex vivo enzymatic treatment converts blood type A donor lungs into universal blood type lungs. Science Translational Medicine, 2022, 14, eabm7190.	12.4	30
3	Carbohydrate-active enzymes (CAZymes) in the gut microbiome. Nature Reviews Microbiology, 2022, 20, 542-556.	28.6	139
4	A Synthetic Gene Library Yields a Previously Unknown Glycoside Phosphorylase That Degrades and Assembles Poly-β-1,3-GlcNAc, Completing the Suite of β-Linked GlcNAc Polysaccharides. ACS Central Science, 2022, 8, 430-440.	11.3	7
5	Mammalian sialyltransferases allow efficient <i>Escherichia coli</i> -based production of mucin-type O-glycoproteins but can also transfer Kdo. Glycobiology, 2022, 32, 429-440.	2.5	2
6	Development of an active site titration reagent for \hat{I}_{\pm} -amylases. Chemical Science, 2021, 12, 683-687.	7.4	2
7	Synthesis and evaluation of sensitive coumarin-based fluorogenic substrates for discovery of α- <i>N</i> -acetyl galactosaminidases through droplet-based screening. Organic and Biomolecular Chemistry, 2021, 19, 789-793.	2.8	5
8	New α-galactosidase-inhibiting aminohydroxycyclopentanes. RSC Advances, 2021, 11, 15943-15951.	3.6	4
9	Lipid-mimicking phosphorus-based glycosidase inactivators as pharmacological chaperones for the treatment of Gaucher's disease. Chemical Science, 2021, 12, 13909-13913.	7.4	9
10	7-Fluorosialyl Glycosides Are Hydrolysis Resistant but Readily Assembled by Sialyltransferases Providing Easy Access to More Metabolically Stable Glycoproteins. ACS Central Science, 2021, 7, 345-354.	11.3	16
11	Discovery of β- <i>N</i> -acetylglucosaminidases from screening metagenomic libraries and their use as thioglycoligase mutants. Organic and Biomolecular Chemistry, 2021, 19, 9068-9075.	2.8	1
12	N-Glycan Degradation Pathways in Gut- and Soil-Dwelling Actinobacteria Share Common Core Genes. ACS Chemical Biology, 2021, 16, 701-711.	3.4	6
13	Discovery and Development of Promiscuous O-Glycan Hydrolases for Removal of Intact Sialyl T-Antigen. ACS Chemical Biology, 2021, 16, 2004-2015.	3.4	7
14	Prevention of vascular-allograft rejection by protecting the endothelial glycocalyx with immunosuppressive polymers. Nature Biomedical Engineering, 2021, 5, 1202-1216.	22.5	12
15	Four cellulose-active lytic polysaccharide monooxygenases from Cellulomonas species. Biotechnology for Biofuels, 2021, 14, 29.	6.2	15
16	Design of the Recombinant Influenza Neuraminidase Antigen Is Crucial for Its Biochemical Properties and Protective Efficacy. Journal of Virology, 2021, 95, e0116021.	3.4	11
17	Quantification of the total neuraminidase content of recent commercially-available influenza vaccines: Introducing a neuraminidase titration reagent. Vaccine, 2020, 38, 715-718.	3.8	10
18	Toward universal donor blood: Enzymatic conversion of A and B to O type. Journal of Biological Chemistry, 2020, 295, 325-334.	3.4	36

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19	Thioglycoligase derived from fungal GH3 β-xylosidase is a multi-glycoligase with broad acceptor tolerance. Nature Communications, 2020, 11, 4864.	12.8	21
20	Mechanistic Insights into the Chaperoning of Human Lysosomal-Galactosidase Activity: Highly Functionalized Aminocyclopentanes and C-5a-Substituted Derivatives of 4-epi-Isofagomine. Molecules, 2020, 25, 4025.	3.8	4
21	N-Alkylated Iminosugar Based Ligands: Synthesis and Inhibition of Human Lysosomal β-Glucocerebrosidase. Molecules, 2020, 25, 4618.	3.8	4
22	Chemoenzymatic Synthesis of Chito-oligosaccharides with Alternating <i>N</i> - <scp>d</scp> -Acetylglucosamine and <scp>d</scp> -Glucosamine. Biochemistry, 2020, 59, 4581-4590.	2.5	9
23	High-Throughput Generation of Product Profiles for Arabinoxylan-Active Enzymes from Metagenomes. Applied and Environmental Microbiology, 2020, 86, .	3.1	3
24	Directed evolution of an $\hat{l}\pm1,3$ -fucosyltransferase using a single-cell ultrahigh-throughput screening method. Science Advances, 2019, 5, eaaw8451.	10.3	58
25	Prospecting for microbial α-N-acetylgalactosaminidases yields a new class of GH31 O-glycanase. Journal of Biological Chemistry, 2019, 294, 16400-16415.	3.4	22
26	High-Throughput "FP-Tag―Assay for the Identification of Glycosyltransferase Inhibitors. Journal of the American Chemical Society, 2019, 141, 2201-2204.	13.7	21
27	Passaging of an influenza A(H1N1)pdm09 virus in a difluoro sialic acid inhibitor selects for a novel, but unfit I106M neuraminidase mutant. Antiviral Research, 2019, 169, 104542.	4.1	5
28	An enzymatic pathway in the human gut microbiome that converts A to universal O type blood. Nature Microbiology, 2019, 4, 1475-1485.	13.3	56
29	High-Throughput Recovery and Characterization of Metagenome-Derived Glycoside Hydrolase-Containing Clones as a Resource for Biocatalyst Development. MSystems, 2019, 4, .	3.8	11
30	Development and Application of a High-Throughput Functional Metagenomic Screen for Glycoside Phosphorylases. Cell Chemical Biology, 2019, 26, 1001-1012.e5.	5.2	23
31	Probing the role of an invariant active site His in family GH1 β-glycosidases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 973-980.	5.2	2
32	Synthesis of modified 1,5-imino-d-xylitols as ligands for lysosomal β-glucocerebrosidase. Monatshefte FA¼r Chemie, 2019, 150, 831-842.	1.8	4
33	Biologically active branched-chain aminocyclopentane tetraols from d-galactose. Monatshefte Für Chemie, 2019, 150, 861-870.	1.8	2
34	Directed evolution of bacterial polysialyltransferases. Glycobiology, 2019, 29, 588-598.	2.5	8
35	Systematic Screening of Synthetic Gene-Encoded Enzymes for Synthesis of Modified Glycosides. ACS Catalysis, 2019, 9, 3219-3227.	11.2	17
36	Synthesis of montbretin A analogues yields potent competitive inhibitors of human pancreatic α-amylase. Chemical Science, 2019, 10, 11073-11077.	7.4	10

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37	Facile Formation of βâ€thioGlcNAc Linkages to Thiolâ€Containing Sugars, Peptides, and Proteins using a Mutant GH20 Hexosaminidase. Angewandte Chemie, 2019, 131, 1646-1651.	2.0	6
38	A Bacterial Expression Platform for Production of Therapeutic Proteins Containing Human-like O-Linked Glycans. Cell Chemical Biology, 2019, 26, 203-212.e5.	5.2	35
39	Facile Formation of βâ€ŧhioGlcNAc Linkages to Thiolâ€Containing Sugars, Peptides, and Proteins using a Mutant GH20 Hexosaminidase. Angewandte Chemie - International Edition, 2019, 58, 1632-1637.	13.8	35
40	Structural and mechanistic analysis of a β-glycoside phosphorylase identified by screening a metagenomic library. Journal of Biological Chemistry, 2018, 293, 3451-3467.	3.4	18
41	The Molecular Basis of Polysaccharide Sulfatase Activity and a Nomenclature for Catalytic Subsites in this Class of Enzyme. Structure, 2018, 26, 747-758.e4.	3.3	30
42	Oversized galactosides as a probe for conformational dynamics in LacY. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4146-4151.	7.1	8
43	Characterization of a thermostable endoglucanase from <i>Cellulomonas fimi</i> ATCC484. Biochemistry and Cell Biology, 2018, 96, 68-76.	2.0	10
44	The p K a values of the catalytic residues in the retaining glycoside hydrolase T26H mutant of T4 lysozyme. Protein Science, 2018, 28, 620-632.	7.6	3
45	Endo-fucoidan hydrolases from glycoside hydrolase family 107 (GH107) display structural and mechanistic similarities to α-l-fucosidases from GH29. Journal of Biological Chemistry, 2018, 293, 18296-18308.	3.4	42
46	Identity and role of the non-conserved acid/base catalytic residue in the GH29 fucosidase from the spider Nephilingis cruentata. Glycobiology, 2018, 28, 925-932.	2.5	6
47	Proximity Ligationâ€Based Fluorogenic Imaging Agents for Neuraminidases. Angewandte Chemie - International Edition, 2018, 57, 13538-13541.	13.8	15
48	Structural Dissection of Helianthamide Reveals the Basis of Its Potent Inhibition of Human Pancreatic α-Amylase. Biochemistry, 2018, 57, 5384-5387.	2.5	10
49	Proximity Ligationâ€Based Fluorogenic Imaging Agents for Neuraminidases. Angewandte Chemie, 2018, 130, 13726-13729.	2.0	5
50	Discovery of UDP-Glycosyltransferases and BAHD-Acyltransferases Involved in the Biosynthesis of the Antidiabetic Plant Metabolite Montbretin A. Plant Cell, 2018, 30, 1864-1886.	6.6	41
51	Synthesis of azido-deoxy and amino-deoxy glycosides and glycosyl fluorides for screening of glycosidase libraries and assembly of substituted glycosides. Carbohydrate Research, 2018, 467, 33-44.	2.3	19
52	A Mechanismâ€Based Approach to Screening Metagenomic Libraries for Discovery of Unconventional Glycosidases. Angewandte Chemie - International Edition, 2018, 57, 11359-11364.	13.8	22
53	Metagenomics reveals functional synergy and novel polysaccharide utilization loci in the <i>Castor canadensis</i> fecal microbiome. ISME Journal, 2018, 12, 2757-2769.	9.8	36
54	Potent GH20 N-Acetyl-β-d-hexosaminidase Inhibitors: N-Substituted 3-acetamido-4-amino-5-hydroxymethyl-cyclopentanediols. Molecules, 2018, 23, 708.	3.8	8

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55	A Mechanismâ€Based Approach to Screening Metagenomic Libraries for Discovery of Unconventional Glycosidases. Angewandte Chemie, 2018, 130, 11529-11534.	2.0	5
56	Insights into Heptosyltransferase I Catalysis and Inhibition through the Structure of Its Ternary Complex. Structure, 2018, 26, 1399-1407.e5.	3.3	18
57	Modulating the Nucleophile of a Glycoside Hydrolase through Site-Specific Incorporation of Fluoroglutamic Acids. Journal of the American Chemical Society, 2018, 140, 8268-8276.	13.7	11
58	C-5a-substituted validamine type glycosidase inhibitors. Carbohydrate Research, 2017, 440-441, 1-9.	2.3	3
59	Rapid Discovery of Potent and Selective Glycosidase-Inhibiting De Novo Peptides. Cell Chemical Biology, 2017, 24, 381-390.	5.2	46
60	Ultrasensitive Fluorogenic Reagents for Neuraminidase Titration. Angewandte Chemie - International Edition, 2017, 56, 6112-6116.	13.8	20
61	Ultrasensitive Fluorogenic Reagents for Neuraminidase Titration. Angewandte Chemie, 2017, 129, 6208-6212.	2.0	4
62	Refolding the unfoldable: A systematic approach for renaturation of <i>Bacillus circulans</i> xylanase. Protein Science, 2017, 26, 1555-1563.	7.6	5
63	Fungal Glycolipid Hydrolase Inhibitors and Their Effect on <i>Cryptococcus neoformans</i> . ChemBioChem, 2017, 18, 284-290.	2.6	6
64	A new type of pharmacological chaperone for G M1 -gangliosidosis related human lysosomal β-galactosidase: N -Substituted 5-amino-1-hydroxymethyl-cyclopentanetriols. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3431-3435.	2.2	15
65	A Morita-Baylis-Hillman based route to C -5a-chain-extended 4- epi -isofagomine type glycosidase inhibitors. Carbohydrate Research, 2017, 442, 31-40.	2.3	7
66	N-Substituted 5-amino-1-hydroxymethyl-cyclopentanetriols: A new family of activity promotors for a G M1 -gangliosidosis related human lysosomal β-galactosidase mutant. Carbohydrate Research, 2017, 443-444, 15-22.	2.3	6
67	Alpha-glucosidase and alpha-amylase inhibiting thiodiketopiperazines from the endophytic fungus Setosphaeria rostrata isolated from the medicinal plant Costus speciosus in Sri Lanka. Phytochemistry Letters, 2017, 22, 76-80.	1.2	23
68	Remarkable Reactivity Differences between Glucosides with Identical Leaving Groups. Journal of the American Chemical Society, 2017, 139, 15994-15999.	13.7	12
69	Glycosyl Cations versus Allylic Cations in Spontaneous and Enzymatic Hydrolysis. Journal of the American Chemical Society, 2017, 139, 10629-10632.	13.7	19
70	Structural basis of Notch O-glucosylation and O–xylosylation by mammalian protein–O-glucosyltransferase 1 (POGLUT1). Nature Communications, 2017, 8, 185.	12.8	39
71	X-ray crystallographic structure of a bacterial polysialyltransferase provides insight into the biosynthesis of capsular polysialic acid. Scientific Reports, 2017, 7, 5842.	3.3	13
72	Discovery of New Glycosidases From Metagenomic Libraries. Methods in Enzymology, 2017, 597, 3-23.	1.0	9

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73	Introducing transgalactosylation activity into a family 42 β-galactosidase. Glycobiology, 2017, 27, 425-437.	2.5	14
74	Enzymatic fine-tuning for 2-(6-hydroxynaphthyl) β-d-xylopyranoside synthesis catalyzed by the recombinant β-xylosidase BxTW1 from Talaromyces amestolkiae. Microbial Cell Factories, 2016, 15, 171.	4.0	13
75	Advances in Enzymatic Glycoside Synthesis. ACS Chemical Biology, 2016, 11, 1784-1794.	3.4	140
76	Synthesis of C-5a-substituted derivatives of 4-epi-isofagomine: notable β-galactosidase inhibitors and activity promotors of GM1-gangliosidosis related human lysosomal β-galactosidase mutant R201C. Carbohydrate Research, 2016, 429, 71-80.	2.3	21
77	The Staudinger/aza-Wittig/Grignard reaction as key step for the concise synthesis of 1-C-Alkyl-iminoalditol glycomimetics. Carbohydrate Research, 2016, 429, 62-70.	2.3	13
78	Glycosynthase mediated synthesis of psychosine. Carbohydrate Research, 2016, 435, 97-99.	2.3	6
79	Substrate Engineering Enabling Fluorescence Droplet Entrapment for IVC-FACS-Based Ultrahigh-Throughput Screening. Analytical Chemistry, 2016, 88, 8587-8595.	6.5	27
80	A general and efficient strategy for generating the stable enzymes. Scientific Reports, 2016, 6, 33797.	3.3	53
81	Evaluation of the Significance of Starch Surface Binding Sites on Human Pancreatic α-Amylase. Biochemistry, 2016, 55, 6000-6009.	2.5	24
82	Chemoenzymatic synthesis of 6â€phosphoâ€cyclophellitol as a novel probe of 6â€phosphoâ€Î²â€glucosidases. F Letters, 2016, 590, 461-468.	EBS 2.8	8
83	Glucosyl epiâ€cyclophellitol allows mechanismâ€based inactivation and structural analysis of human pancreatic αâ€amylase. FEBS Letters, 2016, 590, 1143-1151.	2.8	19
84	Synthesis and evaluation of a series of 6-chloro-4-methylumbelliferyl glycosides as fluorogenic reagents for screening metagenomic libraries for glycosidase activity. Carbohydrate Research, 2016, 421, 33-39.	2.3	20
85	Proteolytic Cleavage Driven by Glycosylation. Journal of Biological Chemistry, 2016, 291, 429-434.	3.4	10
86	Potent Human α-Amylase Inhibition by the β-Defensin-like Protein Helianthamide. ACS Central Science, 2016, 2, 154-161.	11.3	32
87	Synthesis of C-5a-chain extended derivatives of 4-epi-isofagomine: Powerful β-galactosidase inhibitors and low concentration activators of GM1-gangliosidosis-related human lysosomal β-galactosidase. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1438-1442.	2.2	12
88	Observing cellulose biosynthesis and membrane translocation in crystallo. Nature, 2016, 531, 329-334.	27.8	133
89	5-Fluoro derivatives of 4-epi-isofagomine as d-galactosidase inhibitors and potential pharmacological chaperones for GM1-gangliosidosis as well as Fabry's disease. Carbohydrate Research, 2016, 420, 6-12.	2.3	13
90	Mechanisms of the sialidase and trans-sialidase activities of bacterial sialyltransferases from glycosyltransferase family 80. Glycobiology, 2016, 26, 353-359.	2.5	30

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91	Structure and Mechanism of Staphylococcus aureus TarS, the Wall Teichoic Acid β-glycosyltransferase Involved in Methicillin Resistance. PLoS Pathogens, 2016, 12, e1006067.	4.7	46
92	Recent Developments in Enzymatic Synthesis of Modified Sialic Acid Derivatives. Advanced Synthesis and Catalysis, 2015, 357, 1633-1654.	4.3	36
93	Chemoenzymatic Synthesis of a Type 2 Blood Group A Tetrasaccharide and Development of High-throughput Assays Enables a Platform for Screening Blood Group Antigen-cleaving Enzymes. Glycobiology, 2015, 25, 806-811.	2.5	15
94	The Gymnosperm Cytochrome P450 CYP750B1 Catalyzes Stereospecific Monoterpene Hydroxylation of (+)-Sabinene in Thujone Biosynthesis in Western Redcedar. Plant Physiology, 2015, 168, 94-106.	4.8	38
95	A FRET Probe for Cellâ€Based Imaging of Gangliosideâ€Processing Enzyme Activity and Highâ€Throughput Screening. Angewandte Chemie - International Edition, 2015, 54, 5389-5393.	13.8	44
96	Assessing the oral bioavailability of difluorosialic acid prodrugs, potent viral neuraminidase inhibitors, using a snapshot PK screening assay. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2505-2509.	2.2	4
97	Structure and mechanism of <i>Staphylococcus aureus</i> TarM, the wall teichoic acid α-glycosyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E576-85.	7.1	49
98	Structure of human ST8SiaIII sialyltransferase provides insight into cell-surface polysialylation. Nature Structural and Molecular Biology, 2015, 22, 627-635.	8.2	62
99	Toward Efficient Enzymes for the Generation of Universal Blood through Structure-Guided Directed Evolution. Journal of the American Chemical Society, 2015, 137, 5695-5705.	13.7	53
100	N-Acetylglucosaminidases from CAZy Family GH3 Are Really Glycoside Phosphorylases, Thereby Explaining Their Use of Histidine as an Acid/Base Catalyst in Place of Glutamic Acid. Journal of Biological Chemistry, 2015, 290, 4887-4895.	3.4	70
101	The amylase inhibitor montbretin A reveals a new glycosidase inhibition motif. Nature Chemical Biology, 2015, 11, 691-696.	8.0	113
102	Difluorosialic acids, potent novel influenza virus neuraminidase inhibitors, induce fewer drug resistance-associated neuraminidase mutations than does oseltamivir. Virus Research, 2015, 210, 126-132.	2.2	6
103	Mechanistic Investigations of Unsaturated Glucuronyl Hydrolase from Clostridium perfringens. Journal of Biological Chemistry, 2014, 289, 11385-11395.	3.4	8
104	Mechanistic Insights from Substrate Preference in Unsaturated Glucuronyl Hydrolase. ChemBioChem, 2014, 15, 124-134.	2.6	6
105	Tuning Mechanismâ€Based Inactivators of Neuraminidases: Mechanistic and Structural Insights. Angewandte Chemie - International Edition, 2014, 53, 3382-3386.	13.8	24
106	A plate-based high-throughput activity assay for polysialyltransferase from Neisseria meningitidis. Analytical Biochemistry, 2014, 444, 67-74.	2.4	14
107	Unusual Enzymatic Glycoside Cleavage Mechanisms. Accounts of Chemical Research, 2014, 47, 226-235.	15.6	67
108	Concise synthesis of C-1-cyano-iminosugars via a new Staudinger/aza Wittig/Strecker multicomponent reaction strategy. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2777-2780.	2.2	18

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109	Enhancement of biological reactions on cell surfaces via macromolecular crowding. Nature Communications, 2014, 5, 4683.	12.8	51
110	Fluoro-glycosyl acridinones are ultra-sensitive active site titrating agents for retaining β-glycosidases. Chemical Communications, 2014, 50, 9379-9382.	4.1	10
111	Periplasmic de-acylase helps bacteria don their biofilm coat. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10904-10905.	7.1	1
112	The Mechanism of Cellulose Hydrolysis by a Two-Step, Retaining Cellobiohydrolase Elucidated by Structural and Transition Path Sampling Studies. Journal of the American Chemical Society, 2014, 136, 321-329.	13.7	164
113	Fluorinated Mechanism-Based Inhibitors: Common Themes and Recent Developments. Current Topics in Medicinal Chemistry, 2014, 14, 865-874.	2.1	25
114	S2-6 Identifying and improving glycosidases through metagenomics and directed evolution(Recent) Tj ETQq0 0 (Ο rgBT /Ον	erlgck 10 Tf 5
115	Improvement of the expression level of \hat{l}^2 -glucosidase from Agrobacterium sp. in Escherichia coli by rare codon optimization. Food Science and Biotechnology, 2013, 22, 269-273.	2.6	7
116	Biomining active cellulases from a mining bioremediation system. Journal of Biotechnology, 2013, 167, 462-471.	3.8	35
117	Synthesis of Glycans and Glycopolymers Through Engineered Enzymes. Biopolymers, 2013, 99, 666-674.	2.4	39
118	A glyco-gold nanoparticle based assay for α-2,8-polysialyltransferase from Neisseria meningitidis. Chemical Communications, 2013, 49, 10166.	4.1	14
119	Identifying the Catalytic Acid/Base in GH29 α- <scp>I</scp> -Fucosidase Subfamilies. Biochemistry, 2013, 52, 5857-5864.	2.5	43
120	Insights into mucopolysaccharidosis I from the structure and action of α-L-iduronidase. Nature Chemical Biology, 2013, 9, 739-745.	8.0	48
121	Mutational analysis in the glycone binding pocket of Dalbergia cochinchinensis \hat{I}^2 -glucosidase to increase catalytic efficiency toward mannosides. Carbohydrate Research, 2013, 373, 35-41.	2.3	8
122	Mechanism-Based Covalent Neuraminidase Inhibitors with Broad-Spectrum Influenza Antiviral Activity. Science, 2013, 340, 71-75.	12.6	175
123	Structure-based mutagenic analysis of mechanism and substrate specificity in mammalian glycosyltransferases: Porcine ST3Gal-I. Glycobiology, 2013, 23, 536-545.	2.5	16
124	The structure of the Mycobacterium smegmatis trehalose synthase reveals an unusual active site configuration and acarbose-binding mode. Glycobiology, 2013, 23, 1075-1083.	2.5	41
125	How to make a difference: mechanisms of protein and nucleic acid modifying enzymes. Current Opinion in Chemical Biology, 2012, 16, 461-464.	6.1	Ο
126	Directed evolution of a Â-glycosidase from Agrobacterium sp. to enhance its glycosynthase activity toward C3-modified donor sugars. Protein Engineering, Design and Selection, 2012, 25, 465-472.	2.1	27

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127	Mechanistic Insights into the 1,3-Xylanases: Useful Enzymes for Manipulation of Algal Biomass. Journal of the American Chemical Society, 2012, 134, 3895-3902.	13.7	23
128	Purification and quantitation of bacteriophage M13 using desalting spin columns and digital PCR. Journal of Virological Methods, 2012, 185, 171-174.	2.1	8
129	Order and Disorder: Differential Structural Impacts of Myricetin and Ethyl Caffeate on Human Amylase, an Antidiabetic Target. Journal of Medicinal Chemistry, 2012, 55, 10177-10186.	6.4	95
130	Rapid Assembly of a Library of Lipophilic Iminosugars via the Thiol–Ene Reaction Yields Promising Pharmacological Chaperones for the Treatment of Gaucher Disease. Journal of Medicinal Chemistry, 2012, 55, 2737-2745.	6.4	74
131	The role of the oligosaccharide binding cleft of rice BGlu1 in hydrolysis of cellooligosaccharides and in their synthesis by rice BGlu1 glycosynthase. Protein Science, 2012, 21, 362-372.	7.6	10
132	A Chemoenzymatic Total Synthesis of the Neurogenic Starfish Ganglioside LLGâ€3 Using an Engineered and Evolved Synthase. Angewandte Chemie - International Edition, 2012, 51, 8640-8643.	13.8	42
133	Rice BGlu1 glycosynthase and wild type transglycosylation activities distinguished by cyclophellitol inhibition. Carbohydrate Research, 2012, 352, 51-59.	2.3	8
134	The acute effects of Montbretin A (MbA), an áâ€glucosidase inhibitor, on plasma glucose levels in the Zucker Diabetic Fatty rat. FASEB Journal, 2012, 26, .	0.5	0
135	Toward Efficient Enzymatic Glycan Synthesis: Directed Evolution and Enzyme Engineering. Journal of Carbohydrate Chemistry, 2011, 30, 181-205.	1.1	15
136	Glycosphingolipid synthesis employing a combination of recombinant glycosyltransferases and an endoglycoceramidase glycosynthase. Chemical Communications, 2011, 47, 10806.	4.1	35
137	Stereoselective Total Synthesis of Aminoiminohexitols via Carbamate Annulation. Journal of Organic Chemistry, 2011, 76, 9611-9621.	3.2	19
138	Structural, Mechanistic, and Computational Analysis of the Effects of Anomeric Fluorines on Anomeric Fluoride Departure in 5-Fluoroxylosyl Fluorides. Journal of the American Chemical Society, 2011, 133, 15826-15829.	13.7	24
139	Glycoside Cleavage by a New Mechanism in Unsaturated Glucuronyl Hydrolases. Journal of the American Chemical Society, 2011, 133, 19334-19337.	13.7	43
140	Activity of three β-1,4-galactanases on small chromogenic substrates. Carbohydrate Research, 2011, 346, 2028-2033.	2.3	14
141	1-Deoxy-d-galactonojirimycins with dansyl capped N-substituents as β-galactosidase inhibitors and potential probes for GM1 gangliosidosis affected cell lines. Carbohydrate Research, 2011, 346, 1592-1598.	2.3	12
142	Selfâ€Immobilizing Fluorogenic Imaging Agents of Enzyme Activity. Angewandte Chemie - International Edition, 2011, 50, 300-303.	13.8	81
143	Tailoring the Specificity and Reactivity of a Mechanismâ€Based Inactivator of Glucocerebrosidase for Potential Therapeutic Applications. Angewandte Chemie - International Edition, 2011, 50, 10381-10383.	13.8	26
144	Glycosynthaseâ€Mediated Assembly of Xylanase Substrates and Inhibitors. ChemBioChem, 2011, 12, 1703-1711.	2.6	15

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145	Synthesis, Kinetic Evaluation and Cellâ€Based Analysis of Câ€Alkylated Isofagomines as Chaperones of βâ€Glucocerebrosidase. ChemBioChem, 2011, 12, 2151-2154.	2.6	30
146	Structural and Kinetic Analysis of Substrate Binding to the Sialyltransferase Cst-II from Campylobacter jejuni*. Journal of Biological Chemistry, 2011, 286, 35922-35932.	3.4	27
147	Mechanistic Analysis of Trehalose Synthase from Mycobacterium smegmatis. Journal of Biological Chemistry, 2011, 286, 35601-35609.	3.4	33
148	Structure and Mechanism of the Lipooligosaccharide Sialyltransferase from Neisseria meningitidis. Journal of Biological Chemistry, 2011, 286, 37237-37248.	3.4	36
149	Enzymatic Thioxyloside Synthesis: Characterization of Thioglycoligase Variants Identified from A Siteâ€Saturation Mutagenesis Library of <i>Bacillus Circulans</i> Xylanase. ChemBioChem, 2010, 11, 533-538.	2.6	19
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