

Stephen G Withers

List of Articles by Year in descending order

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483

PR articles

22,796

PR citations

5119

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7761

148

g-index

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26472

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5258

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18809

citing authors

#	ARTICLE	IF	CITATIONS
1	Streamlining Sulfated Oligosaccharide and Glycan Synthesis with Engineered Mutant 6-SulfoGlcNAcases. <i>Journal of the American Chemical Society</i> , 2025, 147, 5554-5559.	15.0	0
2	<i>N</i> -Methyl- <i>N</i> -Alkylaminocyclopentanes: Powerful and Selective Glucocerebrosidase Inhibitors. <i>Helvetica Chimica Acta</i> , 2024, 107, .	1.8	0
3	Enzymatic conversion of human blood group A kidneys to universal blood group O. <i>Nature Communications</i> , 2024, 15, .	13.7	21
4	Advances in the understanding and exploitation of carbohydrate-active enzymes. <i>Current Opinion in Chemical Biology</i> , 2024, 80, 102457.	5.8	10
5	Carbohydrate-active enzyme (CAZyme) discovery and engineering via (Ultra)high-throughput screening. <i>RSC Chemical Biology</i> , 2024, 5, 595-616.	3.3	10
6	An alternative broad-specificity pathway for glycan breakdown in bacteria. <i>Nature</i> , 2024, 631, 199-206.	37.9	13
7	Synthesis and glycosidase inhibition of 3,4,5-trihydropiperidines using a one-pot amination-cyclisation cascade reaction. <i>Carbohydrate Research</i> , 2024, 543, 109198.	2.2	0
8	Ultrahigh-Throughput Single Emulsion Droplet Screening for the Discovery of New B Antigen Cleaving Enzymes. <i>ACS Catalysis</i> , 2024, 14, 12884-12894.	12.4	3
9	Cobalt as a Cofactor for β -Galactosaminidase-Catalyzed Cleavage of Blood Group Antigens. <i>ACS Catalysis</i> , 2024, 14, 13497-13508.	12.4	1
10	Influenza virus and pneumococcal neuraminidases enhance catalysis by similar yet distinct sialic acid-binding strategies. <i>Journal of Biological Chemistry</i> , 2023, 299, 102891.	2.2	20
11	Attenuation of Polysialic Acid Biosynthesis in Cells by the Small Molecule Inhibitor 8-Keto-sialic acid. <i>ACS Chemical Biology</i> , 2023, 18, 41-48.	3.7	7
12	Characterizing the Effect of Amylase Inhibitors on Maltodextrin Metabolism by Gut Bacteria Using Fluorescent Glycan Labeling. <i>ACS Chemical Biology</i> , 2023, 18, 356-366.	3.7	6
13	Vinyl Halide-Modified Unsaturated Cyclitols are Mechanism-Based Glycosidase Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	14.4	2
14	Bioelectrocatalysis with a palladium membrane reactor. <i>Nature Communications</i> , 2023, 14, .	13.7	37
15	Structural basis for Lewis antigen synthesis by the β 1,3-fucosyltransferase FUT9. <i>Nature Chemical Biology</i> , 2023, 19, 1022-1030.	11.8	21
16	A high-throughput screening platform for enzymes active on mucin-type O-glycoproteins. <i>Nature Chemical Biology</i> , 2023, 19, 1246-1255.	11.8	15
17	Branched montbretin A mimics allow derivatisation and potent amylase inhibition. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 7977-7983.	2.6	1
18	Ligand-Directed Chemistry on Glycoside Hydrolases – A Proof of Concept Study. <i>ChemBioChem</i> , 2023, 24, .	2.6	3

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19	A quinolin-8-ol sub-millimolar inhibitor of UGGT, the ER glycoprotein folding quality control checkpoint. <i>IScience</i> , 2023, 26, 107919.	3.6	6
20	Crystal structure of the <i>Propionibacterium acnes</i> surface sialidase, a drug target for <i>P. acnes</i> -associated diseases. <i>Glycobiology</i> , 2022, 32, 162-170.	2.2	11
21	Ex vivo enzymatic treatment converts blood type A donor lungs into universal blood type lungs. <i>Science Translational Medicine</i> , 2022, 14, .	12.5	71
22	Carbohydrate-active enzymes (CAZymes) in the gut microbiome. <i>Nature Reviews Microbiology</i> , 2022, 20, 542-556.	83.5	470
23	A Synthetic Gene Library Yields a Previously Unknown Glycoside Phosphorylase That Degrades and Assembles Poly- $\hat{1}^2$ -1,3-GlcNAc, Completing the Suite of $\hat{1}^2$ -Linked GlcNAc Polysaccharides. <i>ACS Central Science</i> , 2022, 8, 430-440.	9.2	15
24	Mammalian sialyltransferases allow efficient <i>Escherichia coli</i> -based production of mucin-type O-glycoproteins but can also transfer Kdo. <i>Glycobiology</i> , 2022, 32, 429-440.	2.2	6
25	Azido Groups Hamper Glycan Acceptance by Carbohydrate Processing Enzymes. <i>ACS Central Science</i> , 2022, 8, 656-662.	9.2	23
26	Enzymatic removal of cell surface antigens as a route towards universal O type blood and organs. <i>FASEB Journal</i> , 2022, 36, .	0.6	0
27	Pharmacological Chaperones for GCase that Switch Conformation with pH Enhance Enzyme Levels in Gaucher Animal Models. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.4	7
28	Pharmacological Chaperones for GCase that Switch Conformation with pH Enhance Enzyme Levels in Gaucher Animal Models. <i>Angewandte Chemie</i> , 2022, 134, .	1.4	2
29	Development of an active site titration reagent for $\hat{1}^{\pm}$ -amylases. <i>Chemical Science</i> , 2021, 12, 683-687.	7.1	2
30	Synthesis and evaluation of sensitive coumarin-based fluorogenic substrates for discovery of $\hat{1}^{\pm}$ -N-acetyl galactosaminidases through droplet-based screening. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 789-793.	2.6	14
31	New $\hat{1}^{\pm}$ -galactosidase-inhibiting aminohydroxycyclopentanes. <i>RSC Advances</i> , 2021, 11, 15943-15951.	4.4	6
32	Lipid-mimicking phosphorus-based glycosidase inactivators as pharmacological chaperones for the treatment of Gaucher's disease. <i>Chemical Science</i> , 2021, 12, 13909-13913.	7.1	11
33	7-Fluorosialyl Glycosides Are Hydrolysis Resistant but Readily Assembled by Sialyltransferases Providing Easy Access to More Metabolically Stable Glycoproteins. <i>ACS Central Science</i> , 2021, 7, 345-354.	9.2	25
34	Discovery of $\hat{1}^2$ -N-acetylglucosaminidases from screening metagenomic libraries and their use as thioglycoligase mutants. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 9068-9075.	2.6	3
35	N-Glycan Degradation Pathways in Gut- and Soil-Dwelling Actinobacteria Share Common Core Genes. <i>ACS Chemical Biology</i> , 2021, 16, 701-711.	3.7	10
36	Discovery and Development of Promiscuous O-Glycan Hydrolases for Removal of Intact Sialyl T-Antigen. <i>ACS Chemical Biology</i> , 2021, 16, 2004-2015.	3.7	11

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37	Prevention of vascular-allograft rejection by protecting the endothelial glycocalyx with immunosuppressive polymers. <i>Nature Biomedical Engineering</i> , 2021, 5, 1202-1216.	22.4	23
38	Four cellulose-active lytic polysaccharide monoxygenases from <i>Cellulomonas</i> species. <i>Biotechnology for Biofuels</i> , 2021, 14, .	6.4	23
39	Design of the Recombinant Influenza Neuraminidase Antigen Is Crucial for Its Biochemical Properties and Protective Efficacy. <i>Journal of Virology</i> , 2021, 95, .	3.6	20
40	Quantification of the total neuraminidase content of recent commercially-available influenza vaccines: Introducing a neuraminidase titration reagent. <i>Vaccine</i> , 2020, 38, 715-718.	3.1	17
41	Toward universal donor blood: Enzymatic conversion of A and B to O type. <i>Journal of Biological Chemistry</i> , 2020, 295, 325-334.	2.2	62
42	Thioglycoligase derived from fungal GH3 Î²-xylosidase is a multi-glycoligase with broad acceptor tolerance. <i>Nature Communications</i> , 2020, 11, .	13.7	26
43	Mechanistic Insights into the Chaperoning of Human Lysosomal-Galactosidase Activity: Highly Functionalized Aminocyclopentanes and C-5a-Substituted Derivatives of 4-epi-Isosagomine. <i>Molecules</i> , 2020, 25, 4025.	4.2	12
44	N-Alkylated Iminosugar Based Ligands: Synthesis and Inhibition of Human Lysosomal Î²-Glucocerebrosidase. <i>Molecules</i> , 2020, 25, 4618.	4.2	5
45	Chemoenzymatic Synthesis of Chito-oligosaccharides with Alternating N-d-Acetylglucosamine and d-Glucosamine. <i>Biochemistry</i> , 2020, 59, 4581-4590.	2.4	11
46	High-Throughput Generation of Product Profiles for Arabinoxylan-Active Enzymes from Metagenomes. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.6	9
47	The pK _a values of the catalytic residues in the retaining glycoside hydrolase T26H mutant of T4 lysozyme. <i>Protein Science</i> , 2019, , .	5.9	3
48	Directed evolution of an Î±1,3-fucosyltransferase using a single-cell ultrahigh-throughput screening method. <i>Science Advances</i> , 2019, 5, .	10.9	98
49	Prospecting for microbial Î±-N-acetylgalactosaminidases yields a new class of GH31 O-glycanase. <i>Journal of Biological Chemistry</i> , 2019, 294, 16400-16415.	2.2	29
50	High-Throughput GFP-Tag Assay for the Identification of Glycosyltransferase Inhibitors. <i>Journal of the American Chemical Society</i> , 2019, 141, 2201-2204.	15.0	25
51	Passaging of an influenza A(H1N1)pdm09 virus in a difluoro sialic acid inhibitor selects for a novel, but unfit I106M neuraminidase mutant. <i>Antiviral Research</i> , 2019, 169, 104542.	3.8	7
52	An enzymatic pathway in the human gut microbiome that converts A to universal O type blood. <i>Nature Microbiology</i> , 2019, 4, 1475-1485.	16.0	90
53	High-Throughput Recovery and Characterization of Metagenome-Derived Glycoside Hydrolase-Containing Clones as a Resource for Biocatalyst Development. <i>MSystems</i> , 2019, 4, .	4.4	13
54	Development and Application of a High-Throughput Functional Metagenomic Screen for Glycoside Phosphorylases. <i>Cell Chemical Biology</i> , 2019, 26, 1001-1012.e5.	6.2	32

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55	Probing the role of an invariant active site His in family GH1 β -glycosidases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 973-980.	5.1	2
56	Synthesis of modified 1,5-imino-d-xylitols as ligands for lysosomal β -glucocerebrosidase. <i>Monatshefte für Chemie</i> , 2019, 150, 831-842.	1.6	6
57	Biologically active branched-chain aminocyclopentane tetraols from d-galactose. <i>Monatshefte für Chemie</i> , 2019, 150, 861-870.	1.6	2
58	Directed evolution of bacterial polysialyltransferases. <i>Glycobiology</i> , 2019, 29, 588-598.	2.2	10
59	Systematic Screening of Synthetic Gene-Encoded Enzymes for Synthesis of Modified Glycosides. <i>ACS Catalysis</i> , 2019, 9, 3219-3227.	12.4	20
60	Synthesis of montbretin A analogues yields potent competitive inhibitors of human pancreatic β -amylase. <i>Chemical Science</i> , 2019, 10, 11073-11077.	7.1	15
61	Facile Formation of β -thioGlcNAc Linkages to Thiol-Containing Sugars, Peptides, and Proteins using a Mutant GH20 Hexosaminidase. <i>Angewandte Chemie</i> , 2019, 131, 1646-1651.	1.4	6
62	A Bacterial Expression Platform for Production of Therapeutic Proteins Containing Human-like O-Linked Glycans. <i>Cell Chemical Biology</i> , 2019, 26, 203-212.e5.	6.2	41
63	Facile Formation of β -thioGlcNAc Linkages to Thiol-Containing Sugars, Peptides, and Proteins using a Mutant GH20 Hexosaminidase. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1632-1637.	14.4	44
64	Structural and mechanistic analysis of a β -glycoside phosphorylase identified by screening a metagenomic library. <i>Journal of Biological Chemistry</i> , 2018, 293, 3451-3467.	2.2	21
65	The Molecular Basis of Polysaccharide Sulfatase Activity and a Nomenclature for Catalytic Subsites in this Class of Enzyme. <i>Structure</i> , 2018, 26, 747-758.e4.	3.8	43
66	Oversized galactosides as a probe for conformational dynamics in LacY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4146-4151.	7.5	9
67	Characterization of a thermostable endoglucanase from <i>Cellulomonas fimi</i> ATCC484. <i>Biochemistry and Cell Biology</i> , 2018, 96, 68-76.	2.6	11
68	Endo-fucoidan hydrolases from glycoside hydrolase family 107 (GH107) display structural and mechanistic similarities to β -l-fucosidases from GH29. <i>Journal of Biological Chemistry</i> , 2018, 293, 18296-18308.	2.2	67
69	Identity and role of the non-conserved acid/base catalytic residue in the GH29 fucosidase from the spider <i>Nephilingis cruentata</i> . <i>Glycobiology</i> , 2018, , .	2.2	6
70	Proximity Ligation-Based Fluorogenic Imaging Agents for Neuraminidases. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13538-13541.	14.4	20
71	Structural Dissection of Helianthamide Reveals the Basis of Its Potent Inhibition of Human Pancreatic β -Amylase. <i>Biochemistry</i> , 2018, 57, 5384-5387.	2.4	10
72	Proximity Ligation-Based Fluorogenic Imaging Agents for Neuraminidases. <i>Angewandte Chemie</i> , 2018, 130, 13726-13729.	1.4	8

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73	Discovery of UDP-Glycosyltransferases and BAHD-Acyltransferases Involved in the Biosynthesis of the Antidiabetic Plant Metabolite Montbretin A. <i>Plant Cell</i> , 2018, 30, 1864-1886.	7.6	54
74	Synthesis of azido-deoxy and amino-deoxy glycosides and glycosyl fluorides for screening of glycosidase libraries and assembly of substituted glycosides. <i>Carbohydrate Research</i> , 2018, 467, 33-44.	2.2	20
75	A Mechanism-Based Approach to Screening Metagenomic Libraries for Discovery of Unconventional Glycosidases. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11359-11364.	14.4	27
76	Metagenomics reveals functional synergy and novel polysaccharide utilization loci in the <i>Castor canadensis</i> fecal microbiome. <i>ISME Journal</i> , 2018, 12, 2757-2769.	9.1	41
77	Potent GH20 N-Acetyl- β -D-hexosaminidase Inhibitors: N-Substituted 3-acetamido-4-amino-5-hydroxymethyl-cyclopentane-diols. <i>Molecules</i> , 2018, 23, 708.	4.2	8
78	A Mechanism-Based Approach to Screening Metagenomic Libraries for Discovery of Unconventional Glycosidases. <i>Angewandte Chemie</i> , 2018, 130, 11529-11534.	1.4	10
79	Insights into Heptosyltransferase I Catalysis and Inhibition through the Structure of Its Ternary Complex. <i>Structure</i> , 2018, 26, 1399-1407.e5.	3.8	24
80	Modulating the Nucleophile of a Glycoside Hydrolase through Site-Specific Incorporation of Fluoroglutamic Acids. <i>Journal of the American Chemical Society</i> , 2018, 140, 8268-8276.	15.0	13
81	C-5a-substituted validamine type glycosidase inhibitors. <i>Carbohydrate Research</i> , 2017, 440-441, 1-9.	2.2	4
82	Rapid Discovery of Potent and Selective Glycosidase-Inhibiting De Novo Peptides. <i>Cell Chemical Biology</i> , 2017, 24, 381-390.	6.2	52
83	Ultrasensitive Fluorogenic Reagents for Neuraminidase Titration. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6112-6116.	14.4	23
84	Ultrasensitive Fluorogenic Reagents for Neuraminidase Titration. <i>Angewandte Chemie</i> , 2017, 129, 6208-6212.	1.4	4
85	Refolding the unfoldable: A systematic approach for renaturation of <i>Bacillus circulans</i> xylanase. <i>Protein Science</i> , 2017, 26, 1555-1563.	5.9	6
86	Fungal Glycolipid Hydrolase Inhibitors and Their Effect on <i>Cryptococcus neoformans</i> . <i>ChemBioChem</i> , 2017, 18, 284-290.	2.6	6
87	A new type of pharmacological chaperone for GM1-gangliosidosis related human lysosomal β -galactosidase: N-Substituted 5-amino-1-hydroxymethyl-cyclopentane-triols. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 3431-3435.	2.0	15
88	A Morita-Baylis-Hillman based route to C-5a-chain-extended 4-epi-isofagomine type glycosidase inhibitors. <i>Carbohydrate Research</i> , 2017, 442, 31-40.	2.2	9
89	N-Substituted 5-amino-1-hydroxymethyl-cyclopentane-triols: A new family of activity promoters for a GM1-gangliosidosis related human lysosomal β -galactosidase mutant. <i>Carbohydrate Research</i> , 2017, 443-444, 15-22.	2.2	6
90	Alpha-glucosidase and alpha-amylase inhibiting thiodiketopiperazines from the endophytic fungus <i>Setosphaeria rostrata</i> isolated from the medicinal plant <i>Costus speciosus</i> in Sri Lanka. <i>Phytochemistry Letters</i> , 2017, 22, 76-80.	1.3	30

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91	Remarkable Reactivity Differences between Glucosides with Identical Leaving Groups. <i>Journal of the American Chemical Society</i> , 2017, 139, 15994-15999.	15.0	14
92	Glycosyl Cations versus Allylic Cations in Spontaneous and Enzymatic Hydrolysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 10629-10632.	15.0	24
93	Structural basis of Notch O-glycosylation and O ⁶ -xylosylation by mammalian protein ⁶ -O-glucosyltransferase 1 (POGLUT1). <i>Nature Communications</i> , 2017, 8, .	13.7	44
94	X-ray crystallographic structure of a bacterial polysialyltransferase provides insight into the biosynthesis of capsular polysialic acid. <i>Scientific Reports</i> , 2017, 7, .	3.4	18
95	A Conifer UDP-Sugar Dependent Glycosyltransferase Contributes to Acetophenone Metabolism and Defense against Insects. <i>Plant Physiology</i> , 2017, 175, 641-651.	5.5	29
96	Introducing transgalactosylation activity into a family 42 β -galactosidase. <i>Glycobiology</i> , 2017, 27, 425-437.	2.2	18
97	Enzymatic fine-tuning for 2-(6-hydroxynaphthyl) β -D-xylopyranoside synthesis catalyzed by the recombinant β -xylosidase BxTW1 from <i>Talaromyces amestolkiae</i> . <i>Microbial Cell Factories</i> , 2016, 15, .	4.5	14
98	Advances in Enzymatic Glycoside Synthesis. <i>ACS Chemical Biology</i> , 2016, 11, 1784-1794.	3.7	162
99	Synthesis of C-5a-substituted derivatives of 4-epi-isofagomine: notable β -galactosidase inhibitors and activity promoters of GM1-gangliosidosis related human lysosomal β -galactosidase mutant R201C. <i>Carbohydrate Research</i> , 2016, 429, 71-80.	2.2	28
100	The Staudinger/aza-Wittig/Grignard reaction as key step for the concise synthesis of 1-C-Alkyl-iminoalditol glycomimetics. <i>Carbohydrate Research</i> , 2016, 429, 62-70.	2.2	14
101	Glycosynthase mediated synthesis of psychosine. <i>Carbohydrate Research</i> , 2016, 435, 97-99.	2.2	6
102	Corrigendum to "Assessing the oral bioavailability of difluorosialic acid prodrugs, potent viral neuraminidase inhibitors, using a snapshot PK screening assay" [Bioorg. Med. Chem. Lett. 25 (2015) 2505-2509]. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3830.	2.0	0
103	Substrate Engineering Enabling Fluorescence Droplet Entrapment for IVC-FACS-Based Ultrahigh-Throughput Screening. <i>Analytical Chemistry</i> , 2016, 88, 8587-8595.	6.5	29
104	A general and efficient strategy for generating the stable enzymes. <i>Scientific Reports</i> , 2016, 6, .	3.4	64
105	Evaluation of the Significance of Starch Surface Binding Sites on Human Pancreatic β -Amylase. <i>Biochemistry</i> , 2016, 55, 6000-6009.	2.4	27
106	Chemoenzymatic synthesis of 6-phospho β -cyclophellitol as a novel probe of 6-phospho β -glucosidases. <i>FEBS Letters</i> , 2016, 590, 461-468.	2.7	9
107	Glucosyl β -cyclophellitol allows mechanism ⁶ -based inactivation and structural analysis of human pancreatic β -amylase. <i>FEBS Letters</i> , 2016, 590, 1143-1151.	2.7	23
108	Synthesis and evaluation of a series of 6-chloro-4-methylumbelliferyl glycosides as fluorogenic reagents for screening metagenomic libraries for glycosidase activity. <i>Carbohydrate Research</i> , 2016, 421, 33-39.	2.2	21

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109	Potent Human $\hat{1}\pm$ -Amylase Inhibition by the $\hat{1}^2$ -Defensin-like Protein Helianthamide. ACS Central Science, 2016, 2, 154-161.	9.2	40
110	Synthesis of C-5a-chain extended derivatives of 4-epi-isofagomine: Powerful $\hat{1}^2$ -galactosidase inhibitors and low concentration activators of GM1-gangliosidosis-related human lysosomal $\hat{1}^2$ -galactosidase. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1438-1442.	2.0	18
111	Observing cellulose biosynthesis and membrane translocation in crystallo. Nature, 2016, 531, 329-334.	37.9	164
112	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.	2.2	13
113	Mechanisms of the sialidase and trans-sialidase activities of bacterial sialyltransferases from glycosyltransferase family 80. Glycobiology, 2016, 26, 353-359.	2.2	35
114	Structure and Mechanism of Staphylococcus aureus TarS, the Wall Teichoic Acid $\hat{1}^2$ -glycosyltransferase Involved in Methicillin Resistance. PLoS Pathogens, 2016, 12, e1006067.	4.4	65
115	A FRET Probe for Cellâ€Based Imaging of Gangliosideâ€Processing Enzyme Activity and Highâ€Throughput Screening. Angewandte Chemie, 2015, 127, 5479-5483.	1.4	10
116	Recent Developments in Enzymatic Synthesis of Modified Sialic Acid Derivatives. Advanced Synthesis and Catalysis, 2015, 357, 1633-1654.	3.8	38
117	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.	2.2	17
118	The Gymnosperm Cytochrome P450 CYP750B1 Catalyzes Stereospecific Monoterpene Hydroxylation of (+)-Sabinene in Thujone Biosynthesis in Western Redcedar. Plant Physiology, 2015, 168, 94-106.	5.5	43
119	A FRET Probe for Cellâ€Based Imaging of Gangliosideâ€Processing Enzyme Activity and Highâ€Throughput Screening. Angewandte Chemie - International Edition, 2015, 54, 5389-5393.	14.4	46
120	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.	2.0	4
121	Structure and mechanism of Staphylococcus aureus TarM, the wall teichoic acid $\hat{1}\pm$ -glycosyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, .	7.5	63
122	Comprehensive characterization of sphingolipid ceramide N-deacylase for the synthesis and fatty acid remodeling of glycosphingolipids. Applied Microbiology and Biotechnology, 2015, 99, 6715-6726.	4.0	10
123	Structure of human ST8Siall sialyltransferase provides insight into cell-surface polysialylation. Nature Structural and Molecular Biology, 2015, 22, 627-635.	8.8	77
124	Toward Efficient Enzymes for the Generation of Universal Blood through Structure-Guided Directed Evolution. Journal of the American Chemical Society, 2015, 137, 5695-5705.	15.0	62
125	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.	2.2	79
126	The amylase inhibitor montbretin A reveals a new glycosidase inhibition motif. Nature Chemical Biology, 2015, 11, 691-696.	11.8	172

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127	Difluorosialic acids, potent novel influenza virus neuraminidase inhibitors, induce fewer drug resistance-associated neuraminidase mutations than does oseltamivir. <i>Virus Research</i> , 2015, 210, 126-132.	2.6	8
128	Mechanistic Investigations of Unsaturated Glucuronyl Hydrolase from <i>Clostridium perfringens</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 11385-11395.	2.2	10
129	Mechanistic Insights from Substrate Preference in Unsaturated Glucuronyl Hydrolase. <i>ChemBioChem</i> , 2014, 15, 124-134.	2.6	6
130	Tuning Mechanism-Based Inactivators of Neuraminidases: Mechanistic and Structural Insights. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3382-3386.	14.4	31
131	A plate-based high-throughput activity assay for polysialyltransferase from <i>Neisseria meningitidis</i> . <i>Analytical Biochemistry</i> , 2014, 444, 67-74.	2.4	16
132	Unusual Enzymatic Glycoside Cleavage Mechanisms. <i>Accounts of Chemical Research</i> , 2014, 47, 226-235.	17.0	81
133	Concise synthesis of C-1-cyano-minosugars via a new Staudinger/aza Wittig/Strecker multicomponent reaction strategy. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2777-2780.	2.0	19
134	Enhancement of biological reactions on cell surfaces via macromolecular crowding. <i>Nature Communications</i> , 2014, 5, .	13.7	62
135	Fluoro-glycosyl acridinones are ultra-sensitive active site titrating agents for retaining β -glycosidases. <i>Chemical Communications</i> , 2014, 50, 9379-9382.	3.4	10
136	The Mechanism of Cellulose Hydrolysis by a Two-Step, Retaining Cellobiohydrolase Elucidated by Structural and Transition Path Sampling Studies. <i>Journal of the American Chemical Society</i> , 2014, 136, 321-329.	15.0	189
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