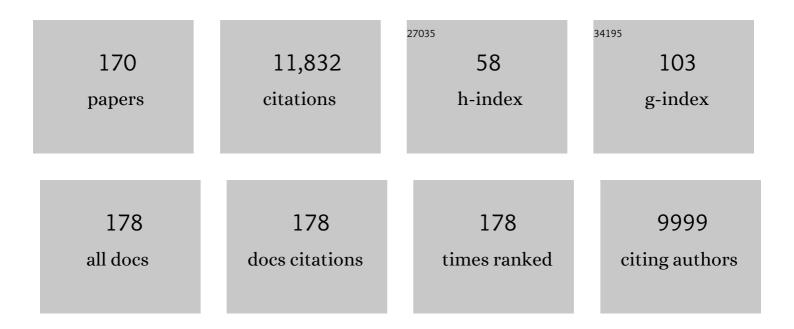
## David J Vocadlo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bicyclic Picomolar OGA Inhibitors Enable Chemoproteomic Mapping of Its Endogenous Post-translational Modifications. Journal of the American Chemical Society, 2022, 144, 832-844.	6.6	15
2	Synthesis, conformational analysis and glycosidase inhibition of bicyclic nojirimycin C-glycosides based on an octahydrofuro[3,2-b]pyridine motif. Carbohydrate Research, 2022, 511, 108491.	1.1	3
3	Immunoprecipitation and Western blot-based detection of protein O-ClcNAcylation in cells. STAR Protocols, 2022, 3, 101108.	0.5	4
4	Quantifying lysosomal glycosidase activity within cells using bis-acetal substrates. Nature Chemical Biology, 2022, 18, 332-341.	3.9	11
5	Discovery of a New Drug-like Series of OGT Inhibitors by Virtual Screening. Molecules, 2022, 27, 1996.	1.7	3
6	Thermal Proteome Profiling Reveals the O-GlcNAc-Dependent Meltome. Journal of the American Chemical Society, 2022, 144, 3833-3842.	6.6	19
7	sp <sup>2</sup> -Iminosugars targeting human lysosomal β-hexosaminidase as pharmacological chaperone candidates for late-onset Tay-Sachs disease. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1364-1374.	2.5	5
8	Chemoproteomic identification of CO2-dependent lysine carboxylation in proteins. Nature Chemical Biology, 2022, 18, 782-791.	3.9	18
9	A versatile fluorescence-quenched substrate for quantitative measurement of glucocerebrosidase activity within live cells. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	10
10	Pharmacological inhibition and knockdown of Oâ€GlcNAcase reduces cellular internalization of αâ€synuclein preformed fibrils. FEBS Journal, 2021, 288, 452-470.	2.2	28
11	Protective Roles of Oâ $\in$ GlcNAc in Neurodegenerative Diseases. FASEB Journal, 2021, 35, .	0.2	0
12	Thiamme2-G, a Novel O-GlcNAcase Inhibitor, Reduces Tau Hyperphosphorylation and Rescues Cognitive Impairment in Mice. Journal of Alzheimer's Disease, 2021, 81, 273-286.	1.2	5
13	Monitoring and modulating O-GlcNAcylation: assays and inhibitors of O-GlcNAc processing enzymes. Current Opinion in Structural Biology, 2021, 68, 157-165.	2.6	30
14	Rational design of cell active C2-modified DGJ analogues for the inhibition of human α-galactosidase A (GALA). Organic and Biomolecular Chemistry, 2021, 19, 8057-8062.	1.5	1
15	Cryo-EM structure provides insights into the dimer arrangement of the O-linked Î <sup>2</sup> -N-acetylglucosamine transferase OGT. Nature Communications, 2021, 12, 6508.	5.8	24
16	Structural variation of the 3-acetamido-4,5,6-trihydroxyazepane iminosugar through epimerization and C-alkylation leads to low micromolar HexAB and NagZ inhibitors. Organic and Biomolecular Chemistry, 2021, , .	1.5	3
17	The structure of a family 110 glycoside hydrolase provides insight into the hydrolysis of α-1,3-galactosidic linkages in l»-carrageenan and blood group antigens. Journal of Biological Chemistry, 2020, 295, 18426-18435.	1.6	8
18	Tandem Bioorthogonal Labeling Uncovers Endogenous Cotranslationally <i>O</i> -GlcNAc Modified Nascent Proteins. Journal of the American Chemical Society, 2020, 142, 15729-15739.	6.6	27

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19	A Shut-and-Open Case: An Epoxide Intermediate Spotted in the Reaction Coordinate of a Family of Glycoside Hydrolases. ACS Central Science, 2020, 6, 619-621.	5.3	1
20	MK-8719, a Novel and Selective <i>O</i> -GlcNAcase Inhibitor That Reduces the Formation of Pathological Tau and Ameliorates Neurodegeneration in a Mouse Model of Tauopathy. Journal of Pharmacology and Experimental Therapeutics, 2020, 374, 252-263.	1.3	45
21	Precision Mapping of O-Linked <i>N</i> -Acetylglucosamine Sites in Proteins Using Ultraviolet Photodissociation Mass Spectrometry. Journal of the American Chemical Society, 2020, 142, 11569-11577.	6.6	28
22	A Direct Fluorescent Activity Assay for Glycosyltransferases Enables Convenient Highâ€Throughput Screening: Application to <i>O</i> â€GlcNAc Transferase. Angewandte Chemie - International Edition, 2020, 59, 9601-9609.	7.2	19
23	Selective Fluorogenic β-Glucocerebrosidase Substrates for Convenient Analysis of Enzyme Activity in Cell and Tissue Homogenates. ACS Chemical Biology, 2020, 15, 824-829.	1.6	6
24	A Direct Fluorescent Activity Assay for Glycosyltransferases Enables Convenient Highâ€Throughput Screening: Application to O â€GlcNAc Transferase. Angewandte Chemie, 2020, 132, 9688-9696.	1.6	8
25	The nutrient sensor OGT regulates Hipk stability and tumorigenic-like activities in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2004-2013.	3.3	19
26	Diverse perspectives on interdisciplinarity from Members of the College of the Royal Society of Canada. Facets, 2020, 5, 138-165.	1.1	19
27	Molecular mechanisms regulating O-linked N-acetylglucosamine (O-GlcNAc)–processing enzymes. Current Opinion in Chemical Biology, 2019, 53, 131-144.	2.8	46
28	Discovery of MK-8719, a Potent O-ClcNAcase Inhibitor as a Potential Treatment for Tauopathies. Journal of Medicinal Chemistry, 2019, 62, 10062-10097.	2.9	87
29	A Chemical Genetic Method for Monitoring Genome-Wide Dynamics of <i>O</i> -GlcNAc Turnover on Chromatin-Associated Proteins. ACS Central Science, 2019, 5, 663-670.	5.3	10
30	Molecular Basis for the Potent Inhibition of the Emerging Carbapenemase VCC-1 by Avibactam. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	4
31	A round up on some of the latest in the chemistry and biology of carbohydrates and carbohydrate-processing enzymes. Current Opinion in Chemical Biology, 2019, 53, A1-A3.	2.8	0
32	Pharmacological Inhibition of O-GlcNAcase Enhances Autophagy in Brain through an mTOR-Independent Pathway. ACS Chemical Neuroscience, 2018, 9, 1366-1379.	1.7	47
33	A divergent synthesis to generate targeted libraries of inhibitors for endo-N-acetylglucosaminidases. Canadian Journal of Chemistry, 2018, 96, 248-254.	0.6	Ο
34	Direct One-Step Fluorescent Labeling of <i>O</i> -GlcNAc-Modified Proteins in Live Cells Using Metabolic Intermediates. Journal of the American Chemical Society, 2018, 140, 15300-15308.	6.6	39
35	Metabolic Inhibitors of Oâ€GlcNAc Transferase That Act Inâ€Vivo Implicate Decreased Oâ€GlcNAc Levels in Leptinâ€Mediated Nutrient Sensing. Angewandte Chemie, 2018, 130, 7770-7774.	1.6	7
36	Fluorescence-Quenched Substrates for Quantitative Live Cell Imaging of Glucocerebrosidase Activity. Methods in Enzymology, 2018, 598, 199-215.	0.4	5

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37	Metabolic Inhibitors of Oâ€GlcNAc Transferase That Act Inâ€Vivo Implicate Decreased Oâ€GlcNAc Levels in Leptinâ€Mediated Nutrient Sensing. Angewandte Chemie - International Edition, 2018, 57, 7644-7648.	7.2	56
38	Quinolinic Acid Amyloid-like Fibrillar Assemblies Seed α-Synuclein Aggregation. Journal of Molecular Biology, 2018, 430, 3847-3862.	2.0	43
39	A mechanism-based GlcNAc-inspired cyclophellitol inactivator of the peptidoglycan recycling enzyme NagZ reverses resistance to β-lactams in <i>Pseudomonas aeruginosa</i> . Chemical Communications, 2018, 54, 10630-10633.	2.2	12
40	Cura Annonae—Chemically Boosting Crop Yields Through Metabolic Feeding of a Plant Signaling Precursor. Angewandte Chemie - International Edition, 2017, 56, 5980-5982.	7.2	2
41	Selective trihydroxylated azepane inhibitors of NagZ, a glycosidase involved in Pseudomonas aeruginosa resistance to β-lactam antibiotics. Organic and Biomolecular Chemistry, 2017, 15, 4609-4619.	1.5	12
42	Genome-wide chemical mapping of O-GlcNAcylated proteins in Drosophila melanogaster. Nature Chemical Biology, 2017, 13, 161-167.	3.9	33
43	Inhibition of O-GlcNAcase leads to elevation of O-GlcNAc tau and reduction of tauopathy and cerebrospinal fluid tau in rTg4510 mice. Molecular Neurodegeneration, 2017, 12, 39.	4.4	106
44	Carbohydrate Bis-acetal-Based Substrates as Tunable Fluorescence-Quenched Probes for Monitoring <i>exo</i> -Glycosidase Activity. Journal of the American Chemical Society, 2017, 139, 8392-8395.	6.6	31
45	Multivalency To Inhibit and Discriminate Hexosaminidases. Chemistry - A European Journal, 2017, 23, 9022-9025.	1.7	28
46	Structural and functional insight into human O-GlcNAcase. Nature Chemical Biology, 2017, 13, 610-612.	3.9	88
47	Conformational flexibility of the glycosidase NagZ allows it to bind structurally diverse inhibitors to suppress βâ€lactam antibiotic resistance. Protein Science, 2017, 26, 1161-1170.	3.1	18
48	Cura Annonae – chemische Erhöhung des Getreideertrags durch metabolisches Verfüttern einer pflanzlichen Signalmolekülvorstufe. Angewandte Chemie, 2017, 129, 6074-6076.	1.6	2
49	Catalytic Promiscuity of <i>O</i> -GlcNAc Transferase Enables Unexpected Metabolic Engineering of Cytoplasmic Proteins with 2-Azido-2-deoxy-glucose. ACS Chemical Biology, 2017, 12, 206-213.	1.6	34
50	Production of O-GlcNAc Modified Recombinant Tau in E. coli and Detection of Ser400 O-GlcNAc Tau In Vivo. Methods in Molecular Biology, 2017, 1523, 237-248.	0.4	6
51	Software for rapid time dependent ChIP-sequencing analysis (TDCA). BMC Bioinformatics, 2017, 18, 521.	1.2	1
52	P4â€036: Pharmacokinetics and Pharmacodynamics to Support Clinical Studies of MKâ€8719: an O lcnacase Inhibitor for Progressive Supranuclear Palsy. Alzheimer's and Dementia, 2016, 12, P1028.	0.4	20
53	O2â€13â€04: Early Clinical Results and Preclinical Validation of the Oâ€Glcnacase (OGA) Inhibitor Mkâ€8719 as a Novel Therapeutic for the Treatment of Tauopathies. Alzheimer's and Dementia, 2016, 12, P261.	0.4	15
54	Analysis of transition state mimicry by tight binding aminothiazoline inhibitors provides insight into catalysis by human O-GlcNAcase. Chemical Science, 2016, 7, 3742-3750.	3.7	33

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55	Mechanism of Human Nucleocytoplasmic Hexosaminidase D. Biochemistry, 2016, 55, 2735-2747.	1.2	15
56	A Fluorescent Transport Assay Enables Studying AmpG Permeases Involved in Peptidoglycan Recycling and Antibiotic Resistance. ACS Chemical Biology, 2016, 11, 2626-2635.	1.6	8
57	The Details of Glycolipid Glycan Hydrolysis by the Structural Analysis of a Family 123 Glycoside Hydrolase from Clostridium perfringens. Journal of Molecular Biology, 2016, 428, 3253-3265.	2.0	11
58	Post-translational <i>O</i> -GlcNAcylation is essential for nuclear pore integrity and maintenance of the pore selectivity filter. Journal of Molecular Cell Biology, 2016, 8, 2-16.	1.5	57
59	Modifying the phenyl group of PUGNAc: reactivity tuning to deliver selective inhibitors for N-acetyl- <scp>d</scp> -glucosaminidases. Organic and Biomolecular Chemistry, 2016, 14, 3193-3197.	1.5	16
60	A Convenient Approach to Stereoisomeric Iminocyclitols: Generation of Potent Brainâ€Permeable OGA Inhibitors. Angewandte Chemie - International Edition, 2015, 54, 15429-15433.	7.2	41
61	mTOR/MYC Axis Regulates O-GlcNAc Transferase Expression and O-GlcNAcylation in Breast Cancer. Molecular Cancer Research, 2015, 13, 923-933.	1.5	109
62	Fluorescence-Quenched Substrates for Live Cell Imaging of Human Glucocerebrosidase Activity. Journal of the American Chemical Society, 2015, 137, 1181-1189.	6.6	59
63	O-GlcNAc occurs cotranslationally to stabilize nascent polypeptide chains. Nature Chemical Biology, 2015, 11, 319-325.	3.9	113
64	Structures of lactate dehydrogenase A (LDHA) in apo, ternary and inhibitor-bound forms. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 185-195.	2.5	49
65	Structural Analysis of a Family 101 Glycoside Hydrolase in Complex with Carbohydrates Reveals Insights into Its Mechanism. Journal of Biological Chemistry, 2015, 290, 25657-25669.	1.6	23
66	The Î <sup>2</sup> -Lactamase Gene Regulator AmpR Is a Tetramer That Recognizes and Binds the d-Ala-d-Ala Motif of Its Repressor UDP-N-acetylmuramic Acid (MurNAc)-pentapeptide. Journal of Biological Chemistry, 2015, 290, 2630-2643.	1.6	77
67	Conformational Itinerary of Pseudomonas aeruginosa 1,6-Anhydro-N-acetylmuramic Acid Kinase during Its Catalytic Cycle. Journal of Biological Chemistry, 2014, 289, 4504-4514.	1.6	7
68	A mechanism-based inactivator of glycoside hydrolases involving formation of a transient non-classical carbocation. Nature Communications, 2014, 5, 5590.	5.8	25
69	Substrateâ€Guided Frontâ€Face Reaction Revealed by Combined Structural Snapshots and Metadynamics for the Polypeptide <i>N</i> â€Acetylgalactosaminyltransferaseâ€2. Angewandte Chemie - International Edition, 2014, 53, 8206-8210.	7.2	80
70	O-GlcNAc Modification of tau Directly Inhibits Its Aggregation without Perturbing the Conformational Properties of tau Monomers. Journal of Molecular Biology, 2014, 426, 1736-1752.	2.0	110
71	Pharmacological inhibition of O-GlcNAcase (OGA) prevents cognitive decline and amyloid plaque formation in bigenic tau/APP mutant mice. Molecular Neurodegeneration, 2014, 9, 42.	4.4	114
72	The Emerging Link between O-GlcNAc and Alzheimer Disease. Journal of Biological Chemistry, 2014, 289, 34472-34481.	1.6	205

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73	Design of glycosyltransferase inhibitors targeting human <i>O</i> -GlcNAc transferase (OGT). MedChemComm, 2014, 5, 1172-1178.	3.5	17
74	O-GlcNAc and neurodegeneration: biochemical mechanisms and potential roles in Alzheimer's disease and beyond. Chemical Society Reviews, 2014, 43, 6839-6858.	18.7	209
75	O-GlcNAcylation Regulates Cancer Metabolism and Survival Stress Signaling via Regulation of the HIF-1 Pathway. Molecular Cell, 2014, 54, 820-831.	4.5	307
76	Synthesis of 4-methylumbelliferyl α-d-mannopyranosyl-(1→6)-β-d-mannopyranoside and development of a coupled fluorescent assay for GH125 exo-α-1,6-mannosidases. Bioorganic and Medicinal Chemistry, 2013, 21, 4839-4845.	1.4	7
77	HCF-1 Is Cleaved in the Active Site of O-GlcNAc Transferase. Science, 2013, 342, 1235-1239.	6.0	162
78	Selective trihydroxyazepane NagZ inhibitors increase sensitivity of Pseudomonas aeruginosa to β-lactams. Chemical Communications, 2013, 49, 10983.	2.2	36
79	Inhibition of the family 20 glycoside hydrolase catalytic modules in the Streptococcus pneumoniae exo-β-d-N-acetylglucosaminidase, StrH. Organic and Biomolecular Chemistry, 2013, 11, 7907.	1.5	9
80	Tools for probing and perturbing O-GlcNAc in cells and in vivo. Current Opinion in Chemical Biology, 2013, 17, 719-728.	2.8	38
81	Characterization and downstream mannose phosphorylation of human recombinant αâ€ <scp>L</scp> â€iduronidase produced in <scp>A</scp> rabidopsis <i>complex glycanâ€deficient</i> ( <i>cgl</i> ) seeds. Plant Biotechnology Journal, 2013, 11, 1034-1043.	4.1	18
82	The Development of Selective Inhibitors of NagZ: Increased Susceptibility of Gram-Negative Bacteria to β-Lactams. ChemBioChem, 2013, 14, 1973-1981.	1.3	38
83	Hyper-O-GlcNAcylation Is Anti-apoptotic and Maintains Constitutive NF-κB Activity in Pancreatic Cancer Cells. Journal of Biological Chemistry, 2013, 288, 15121-15130.	1.6	205
84	Analysis of Keystone Enzyme in Agar Hydrolysis Provides Insight into the Degradation (of a) Tj ETQq0 0 0 rgBT /	Overlock I	.0 Tf 50 302 1
85	Metabolism of Vertebrate Amino Sugars with N-Glycolyl Groups. Journal of Biological Chemistry, 2012, 287, 28898-28916.	1.6	37
86	Metabolic Inhibition of Sialyl-Lewis X Biosynthesis by 5-Thiofucose Remodels the Cell Surface and Impairs Selectin-Mediated Cell Adhesion*. Journal of Biological Chemistry, 2012, 287, 40021-40030.	1.6	42
87	Metabolism of Vertebrate Amino Sugars with N-Glycolyl Groups. Journal of Biological Chemistry, 2012, 287, 28882-28897.	1.6	23
88	Structural snapshots of the reaction coordinate for O-GlcNAc transferase. Nature Chemical Biology, 2012, 8, 966-968.	3.9	132
89	O-GlcNAc processing enzymes: catalytic mechanisms, substrate specificity, and enzyme regulation. Current Opinion in Chemical Biology, 2012, 16, 488-497.	2.8	122
90	How to make a difference: mechanisms of protein and nucleic acid modifying enzymes. Current Opinion in Chemical Biology, 2012, 16, 461-464.	2.8	0

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91	Active Site Plasticity within the Glycoside Hydrolase NagZ Underlies a Dynamic Mechanism of Substrate Distortion. Chemistry and Biology, 2012, 19, 1471-1482.	6.2	67
92	Reduced protein O-glycosylation in the nervous system of the mutant SOD1 transgenic mouse model of amyotrophic lateral sclerosis. Neuroscience Letters, 2012, 516, 296-301.	1.0	39
93	Developing inhibitors of glycan processing enzymes as tools for enabling glycobiology. Nature Chemical Biology, 2012, 8, 683-694.	3.9	159
94	Insights into O-Linked N-Acetylglucosamine ([0-9]O-GlcNAc) Processing and Dynamics through Kinetic Analysis of O-GlcNAc Transferase and O-GlcNAcase Activity on Protein Substrates. Journal of Biological Chemistry, 2012, 287, 15395-15408.	1.6	102
95	Production of α-L-iduronidase in maize for the potential treatment of a human lysosomal storage disease. Nature Communications, 2012, 3, 1062.	5.8	25
96	Increasing O-GlcNAc slows neurodegeneration and stabilizes tau against aggregation. Nature Chemical Biology, 2012, 8, 393-399.	3.9	493
97	Differential Effects of an O-GlcNAcase Inhibitor on Tau Phosphorylation. PLoS ONE, 2012, 7, e35277.	1.1	76
98	Providing β-lactams a helping hand: targeting the AmpC β-lactamase induction pathway. Future Microbiology, 2011, 6, 1415-1427.	1.0	61
99	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.	6.6	24
100	Hijacking a biosynthetic pathway yields a glycosyltransferase inhibitor within cells. Nature Chemical Biology, 2011, 7, 174-181.	3.9	291
101	The Conformation and Function of a Multimodular Glycogen-Degrading Pneumococcal Virulence Factor. Structure, 2011, 19, 640-651.	1.6	42
102	Inhibition of the Pneumococcal Virulence Factor StrH and Molecular Insights into N-Glycan Recognition and Hydrolysis. Structure, 2011, 19, 1603-1614.	1.6	38
103	Mapping O-GlcNAc modification sites on tau and generation of a site-specific O-GlcNAc tau antibody. Amino Acids, 2011, 40, 857-868.	1.2	103
104	6″-Azido-6″-deoxy-UDP-N-acetylglucosamine as a glycosyltransferase substrate. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 1199-1201.	1.0	17
105	Analysis of a New Family of Widely Distributed Metal-independent α-Mannosidases Provides Unique Insight into the Processing of N-Linked Glycans. Journal of Biological Chemistry, 2011, 286, 15586-15596.	1.6	65
106	Molecular Basis of 1,6-Anhydro Bond Cleavage and Phosphoryl Transfer by Pseudomonas aeruginosa 1,6-Anhydro-N-acetylmuramic Acid Kinase. Journal of Biological Chemistry, 2011, 286, 12283-12291.	1.6	24
107	AmpG Inactivation Restores Susceptibility of Pan-β-Lactam-Resistant Pseudomonas aeruginosa Clinical Strains. Antimicrobial Agents and Chemotherapy, 2011, 55, 1990-1996.	1.4	47
108	Mechanism, Structure, and Inhibition of O-GlcNAc Processing Enzymes. Current Signal Transduction Therapy, 2010, 5, 74-91.	0.3	54

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109	Elevation of Global O-GlcNAc in Rodents UsingÂa Selective O-GlcNAcase Inhibitor Does Not Cause Insulin Resistance or Perturb Glucohomeostasis. Chemistry and Biology, 2010, 17, 949-958.	6.2	71
110	Inhibition of O-GlcNAcase Using a Potent and Cell-Permeable Inhibitor Does Not Induce Insulin Resistance in 3T3-L1 Adipocytes. Chemistry and Biology, 2010, 17, 937-948.	6.2	67
111	NagZ Inactivation Prevents and Reverts β-Lactam Resistance, Driven by AmpD and PBP 4 Mutations, in <i>Pseudomonas aeruginosa</i> . Antimicrobial Agents and Chemotherapy, 2010, 54, 3557-3563.	1.4	61
112	Mammalian Notch is modified by d-Xyl-α1-3-d-Xyl-α1-3-d-Glc-β1-O-Ser: Implementation of a method to study O-glucosylation. Glycobiology, 2010, 20, 287-299.	1.3	37
113	Crystal Structure of the AmpR Effector Binding Domain Provides Insight into the Molecular Regulation of Inducible AmpC β-Lactamase. Journal of Molecular Biology, 2010, 400, 998-1010.	2.0	48
114	Increasing O-GlcNAc levels: An overview of small-molecule inhibitors of O-GlcNAcase. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 107-121.	1.1	105
115	Streptococcus pneumoniae endohexosaminidase D; feasibility of using N-glycan oxazoline donors for synthetic glycosylation of a GlcNAc-asparagine acceptor. Organic and Biomolecular Chemistry, 2010, 8, 1861.	1.5	22
116	Visualizing the Reaction Coordinate of an O-GlcNAc Hydrolase. Journal of the American Chemical Society, 2010, 132, 1807-1809.	6.6	70
117	Streptococcus pneumoniae Endohexosaminidase D, Structural and Mechanistic Insight into Substrate-assisted Catalysis in Family 85 Glycoside Hydrolases. Journal of Biological Chemistry, 2009, 284, 11676-11689.	1.6	85
118	<i>Drosophila O</i> -GlcNAc transferase (OGT) is encoded by the <i>Polycomb</i> group (PcG) gene, <i>super sex combs</i> ( <i>sxc</i> ). Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13427-13432.	3.3	214
119	In Vivo Modulation of O-GlcNAc Levels Regulates Hippocampal Synaptic Plasticity through Interplay with Phosphorylation. Journal of Biological Chemistry, 2009, 284, 174-181.	1.6	115
120	O-GlcNAc Modification and the Tauopathies: Insights from Chemical Biology. Current Alzheimer Research, 2009, 6, 451-454.	0.7	25
121	Differential Recognition and Hydrolysis of Host Carbohydrate Antigens by Streptococcus pneumoniae Family 98 Glycoside Hydrolases. Journal of Biological Chemistry, 2009, 284, 26161-26173.	1.6	41
122	O LcNAc postâ€ŧranslational modifications regulate the entry of neurons into an axon branching program. Developmental Neurobiology, 2009, 69, 162-173.	1.5	43
123	A Selective Inhibitor Galâ€PUGNAc of Human Lysosomal βâ€Hexosaminidases Modulates Levels of the Gangliosideâ€GM2 in Neuroblastoma Cells. Angewandte Chemie - International Edition, 2009, 48, 1300-1303.	7.2	39
124	Insight into a strategy for attenuating AmpCâ€mediated βâ€lactam resistance: Structural basis for selective inhibition of the glycoside hydrolase NagZ. Protein Science, 2009, 18, 1541-1551.	3.1	43
125	Enzymatic characterization and inhibition of the nuclear variant of human O-GlcNAcase. Carbohydrate Research, 2009, 344, 1079-1084.	1.1	34
126	Inactivation of the Glycoside Hydrolase NagZ Attenuates Antipseudomonal β-Lactam Resistance in <i>Pseudomonas aeruginosa</i> . Antimicrobial Agents and Chemotherapy, 2009, 53, 2274-2282.	1.4	65

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127	Mislocalization of TDP-43 in the G93A mutant SOD1 transgenic mouse model of ALS. Neuroscience Letters, 2009, 458, 70-74.	1.0	64
128	Probing Synergy between Two Catalytic Strategies in the Glycoside Hydrolase <i>O</i> -GlcNAcase Using Multiple Linear Free Energy Relationships. Journal of the American Chemical Society, 2009, 131, 13415-13422.	6.6	36
129	Affinity-Based Proteomics Probes; Tools for Studying Carbohydrate-Processing Enzymes. Australian Journal of Chemistry, 2009, 62, 521.	0.5	6
130	Molecular Basis for Inhibition of GH84 Glycoside Hydrolases by Substituted Azepanes: Conformational Flexibility Enables Probing of Substrate Distortion. Journal of the American Chemical Society, 2009, 131, 5390-5392.	6.6	62
131	The Chitopentaose Complex of a Mutant Hen Egg-White Lysozyme Displays No Distortion of the –1 Sugar Away from a 4C1 Chair Conformation. Australian Journal of Chemistry, 2009, 62, 528.	0.5	3
132	The synthesis and biological evaluation of some carbocyclic analogues of PUGNAc. Carbohydrate Research, 2008, 343, 2744-2753.	1.1	7
133	Mechanistic insights into glycosidase chemistry. Current Opinion in Chemical Biology, 2008, 12, 539-555.	2.8	363
134	Structure of an O-GlcNAc transferase homolog provides insight into intracellular glycosylation. Nature Structural and Molecular Biology, 2008, 15, 764-765.	3.6	98
135	A potent mechanism-inspired O-ClcNAcase inhibitor that blocks phosphorylation of tau in vivo. Nature Chemical Biology, 2008, 4, 483-490.	3.9	576
136	Synthesis and Use of Mechanism-Based Protein-Profiling Probes for Retaining β- <scp>d</scp> -Glucosaminidases Facilitate Identification of <i>Pseudomonas aeruginosa</i> NagZ. Journal of the American Chemical Society, 2008, 130, 327-335.	6.6	95
137	Elevation of Global O-GlcNAc Levels in 3T3-L1 Adipocytes by Selective Inhibition of O-GlcNAcase Does Not Induce Insulin Resistance. Journal of Biological Chemistry, 2008, 283, 34687-34695.	1.6	106
138	Structural and mechanistic insight into the basis of mucopolysaccharidosis IIIB. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6560-6565.	3.3	79
139	Small Molecule Inhibitors of a Glycoside Hydrolase Attenuate Inducible AmpC-mediated β-Lactam Resistance. Journal of Biological Chemistry, 2007, 282, 21382-21391.	1.6	103
140	A 1-acetamido derivative of 6-epi-valienamine: an inhibitor of a diverse group of β-N-acetylglucosaminidases. Organic and Biomolecular Chemistry, 2007, 5, 3013.	1.5	37
141	Analysis of PUGNAc and NAG-thiazoline as Transition State Analogues for HumanO-GlcNAcase:Â Mechanistic and Structural Insights into Inhibitor Selectivity and Transition State Poise. Journal of the American Chemical Society, 2007, 129, 635-644.	6.6	155
142	Inhibition of O-GlcNAcase by a gluco-configured nagstatin and a PUGNAc–imidazole hybrid inhibitor. Chemical Communications, 2006, , 4372-4374.	2.2	60
143	A divergent synthesis of 2-acyl derivatives of PUGNAc yields selective inhibitors of O-GlcNAcase. Organic and Biomolecular Chemistry, 2006, 4, 839.	1.5	65
144	Identification of Asp174 and Asp175 as the Key Catalytic Residues of Human O-GlcNAcase by Functional Analysis of Site-Directed Mutants. Biochemistry, 2006, 45, 3835-3844.	1.2	107

#	Article	IF	CITATIONS
145	Molecular Basis for G Protein Control of the Prokaryotic ATP Sulfurylase. Molecular Cell, 2006, 21, 109-122.	4.5	48
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