

Kelley W Moremen

List of Publications by Year in descending order

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161
papers

8,922
citations

41344

49
h-index

49909

87
g-index

169
all docs

169
docs citations

169
times ranked

9405
citing authors

#	ARTICLE	IF	CITATIONS
1	A photo-cross-linking GlcNAc analog enables covalent capture of N-linked glycoprotein-binding partners on the cell surface. <i>Cell Chemical Biology</i> , 2022, 29, 84-97.e8.	5.2	21
2	O-fucosylation of thrombospondin type 1 repeats is essential for ECM remodeling and signaling during bone development. <i>Matrix Biology</i> , 2022, 107, 77-96.	3.6	8
3	Robo4 is constitutively shed by ADAMs from endothelial cells and the shed Robo4 functions to inhibit Slit3-induced angiogenesis. <i>Scientific Reports</i> , 2022, 12, 4352.	3.3	4
4	Enzymatic Synthesis of Xylan Microparticles with Tunable Morphologies. <i>ACS Materials Au</i> , 2022, 2, 440-452.	6.0	9
5	Integrated Chemoenzymatic Approach to Streamline the Assembly of Complex Glycopeptides in the Liquid Phase. <i>Journal of the American Chemical Society</i> , 2022, 144, 9057-9065.	13.7	11
6	Elucidating Human Milk Oligosaccharide biosynthetic genes through network-based multi-omics integration. <i>Nature Communications</i> , 2022, 13, 2455.	12.8	27
7	A Clickable Bioorthogonal Sydnone- α -Glycone for the Facile Preparation of a Core 1 α -Glycan Array. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	1
8	Fringe GlcNAc-transferases differentially extend O-fucose on endogenous NOTCH1 in mouse activated T cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 102064.	3.4	9
9	Extracellular sialyltransferase st6gal1 in breast tumor cell growth and invasiveness. <i>Cancer Gene Therapy</i> , 2022, 29, 1662-1675.	4.6	21
10	Cell surface glycan engineering reveals that matriglycan alone can recapitulate dystroglycan binding and function. <i>Nature Communications</i> , 2022, 13, .	12.8	23
11	Modularity of the hydrophobic core and evolution of functional diversity in fold A glycosyltransferases. <i>Journal of Biological Chemistry</i> , 2022, 298, 102212.	3.4	3
12	Cover Feature: A Clickable Bioorthogonal Sydnone- α -Glycone for the Facile Preparation of a Core 1 α -Glycan Array (Eur. J. Org. Chem. 27/2022). <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	0
13	Enriched blood IgG sialylation attenuates IgG-mediated and IgG-controlled-IgE-mediated allergic reactions. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 763-767.	2.9	14
14	Comparison of human poly-N-acetyl-lactosamine synthase structure with GT-A fold glycosyltransferases supports a modular assembly of catalytic subsites. <i>Journal of Biological Chemistry</i> , 2021, 296, 100110.	3.4	15
15	Sparse isotope labeling for nuclear magnetic resonance (NMR) of glycoproteins using ^{13}C -glucose. <i>Glycobiology</i> , 2021, 31, 425-435.	2.5	10
16	AtFUT4 and AtFUT6 Are Arabinofuranose-Specific Fucosyltransferases. <i>Frontiers in Plant Science</i> , 2021, 12, 589518.	3.6	8
17	Crystal structures of β -1,4-N-acetylglucosaminyltransferase 2: structural basis for inherited muscular dystrophies. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021, 77, 486-495.	2.3	1
18	Appropriate aglycone modification significantly expands the glycan substrate acceptability of β -1,6-fucosyltransferase (FUT8). <i>Biochemical Journal</i> , 2021, 478, 1571-1583.	3.7	5

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19	Variable posttranslational modifications of severe acute respiratory syndrome coronavirus 2 nucleocapsid protein. <i>Glycobiology</i> , 2021, 31, 1080-1092.	2.5	31
20	Modulation of Siglec-7 Signaling Via In Situ-Created High-Affinity <i>cis</i> -Ligands. <i>ACS Central Science</i> , 2021, 7, 1338-1346.	11.3	27
21	Mapping the glycosyltransferase fold landscape using interpretable deep learning. <i>Nature Communications</i> , 2021, 12, 5656.	12.8	22
22	Glycan remodeled erythrocytes facilitate antigenic characterization of recent A/H3N2 influenza viruses. <i>Nature Communications</i> , 2021, 12, 5449.	12.8	35
23	Impacting Bacterial Sialidase Activity by Incorporating Bioorthogonal Chemical Reporters onto Mammalian Cell-Surface Sialosides. <i>ACS Chemical Biology</i> , 2021, 16, 2307-2314.	3.4	6
24	Rational enzyme design for controlled functionalization of acetylated xylan for cell-free polymer biosynthesis. <i>Carbohydrate Polymers</i> , 2021, 273, 118564.	10.2	4
25	Modulation of the NOTCH1 Pathway by LUNATIC FRINGE Is Dominant over That of MANIC or RADICAL FRINGE. <i>Molecules</i> , 2021, 26, 5942.	3.8	10
26	Quantifying Carbohydrate-Active Enzyme Activity with Glycoprotein Substrates Using Electrospray Ionization Mass Spectrometry and Center-of-Mass Monitoring. <i>Analytical Chemistry</i> , 2021, 93, 15262-15270.	6.5	1
27	Harnessing galactose oxidase in the development of a chemoenzymatic platform for glycoconjugate vaccine design. <i>Journal of Biological Chemistry</i> , 2021, , 101453.	3.4	8
28	Characterizing human α -1,6-fucosyltransferase (FUT8) substrate specificity and structural similarities with related fucosyltransferases. <i>Journal of Biological Chemistry</i> , 2020, 295, 17027-17045.	3.4	19
29	Structural mechanism of cooperative regulation of calcium-sensing receptor-mediated cellular signaling. <i>Current Opinion in Physiology</i> , 2020, 17, 269-277.	1.8	10
30	Molecular Mechanism of Polysaccharide Acetylation by the Arabidopsis Xylan <i>O</i> -acetyltransferase XOAT1. <i>Plant Cell</i> , 2020, 32, 2367-2382.	6.6	32
31	A Glycan Array-Based Assay for the Identification and Characterization of Plant Glycosyltransferases. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12493-12498.	13.8	22
32	Cell Line-, Protein-, and Sialoglycosite-Specific Control of Flux-Based Sialylation in Human Breast Cells: Implications for Cancer Progression. <i>Frontiers in Chemistry</i> , 2020, 8, 13.	3.6	8
33	CUPRA-ZYME: An Assay for Measuring Carbohydrate-Active Enzyme Activities, Pathways, and Substrate Specificities. <i>Analytical Chemistry</i> , 2020, 92, 3228-3236.	6.5	6
34	HNK-1 sulfotransferase modulates α -dystroglycan glycosylation by 3-O-sulfation of glucuronic acid on matriglycan. <i>Glycobiology</i> , 2020, 30, 817-829.	2.5	17
35	hFUT1-Based Live-Cell Assay To Profile α -1-2-Fucoside-Enhanced Influenza Virus A Infection. <i>ACS Chemical Biology</i> , 2020, 15, 819-823.	3.4	4
36	Heterologous expression of plant glycosyltransferases for biochemistry and structural biology. <i>Methods in Cell Biology</i> , 2020, 160, 145-165.	1.1	7

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37	Deep evolutionary analysis reveals the design principles of fold A glycosyltransferases. <i>ELife</i> , 2020, 9, .	6.0	53
38	Emerging structural insights into glycosyltransferase-mediated synthesis of glycans. <i>Nature Chemical Biology</i> , 2019, 15, 853-864.	8.0	123
39	Chemoenzymatic synthesis of the oligosaccharide moiety of the tumor-associated antigen disialosyl globopentaosylceramide. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 7304-7308.	2.8	15
40	Direct Visualization of Live Zebrafish Glycans via Single-Step Metabolic Labeling with Fluorophore-Tagged Nucleotide Sugars. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14327-14333.	13.8	17
41	Selective Engineering of Linkage-Specific $\pm 2,6$ -N-Linked Sialoproteins Using Sydnone-Modified Sialic Acid Bioorthogonal Reporters. <i>Angewandte Chemie</i> , 2019, 131, 4325-4329.	2.0	10
42	Selective Engineering of Linkage-Specific $\pm 2,6$ -N-Linked Sialoproteins Using Sydnone-Modified Sialic Acid Bioorthogonal Reporters. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4281-4285.	13.8	34
43	A validated collection of mouse monoclonal antibodies to human glycosyltransferases functioning in mucin-type O-glycosylation. <i>Glycobiology</i> , 2019, 29, 645-656.	2.5	16
44	Measurement of residual dipolar couplings in methyl groups via carbon detection. <i>Journal of Biomolecular NMR</i> , 2019, 73, 191-198.	2.8	7
45	NMR Resonance Assignment Methodology: Characterizing Large Sparsely Labeled Glycoproteins. <i>Journal of Molecular Biology</i> , 2019, 431, 2369-2382.	4.2	8
46	Recombinant Sialyltransferase Infusion Mitigates Infection-Driven Acute Lung Inflammation. <i>Frontiers in Immunology</i> , 2019, 10, 48.	4.8	18
47	An automated platform for the enzyme-mediated assembly of complex oligosaccharides. <i>Nature Chemistry</i> , 2019, 11, 229-236.	13.6	124
48	Streamlining the chemoenzymatic synthesis of complex N-glycans by a stop and go strategy. <i>Nature Chemistry</i> , 2019, 11, 161-169.	13.6	94
49	A Traveling Wave Ion Mobility Spectrometry (TWIMS) Study of the Robo1-Heparan Sulfate Interaction. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1153-1165.	2.8	12
50	Cell-based glycan arrays for probing glycan-glycan binding protein interactions. <i>Nature Communications</i> , 2018, 9, 880.	12.8	94
51	Identification of an algal xylan synthase indicates that there is functional orthology between algal and plant cell wall biosynthesis. <i>New Phytologist</i> , 2018, 218, 1049-1060.	7.3	67
52	Human α -N-acetylglucosaminyltransferase II substrate recognition uses a modular architecture that includes a convergent exosite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4637-4642.	7.1	37
53	Modulating Cell-Surface Receptor Signaling and Ion Channel Functions by In-Situ Glycan Editing. <i>Angewandte Chemie</i> , 2018, 130, 979-983.	2.0	4
54	Isotopic labeling with cellular O-glycome reporter/amplification (ICORA) for comparative O-glycomics of cultured cells. <i>Glycobiology</i> , 2018, 28, 214-222.	2.5	22

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55	Expression system for structural and functional studies of human glycosylation enzymes. <i>Nature Chemical Biology</i> , 2018, 14, 156-162.	8.0	182
56	Modulating Cell Surface Receptor Signaling and Ion Channel Functions by In Situ Glycan Editing. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 967-971.	13.8	26
57	Sialyltransferase-Based Chemoenzymatic Histology for the Detection of N- and O-Glycans. <i>Bioconjugate Chemistry</i> , 2018, 29, 1231-1239.	3.6	24
58	Structural Characterization of a Heparan Sulfate Pentamer Interacting with LAR-Ig1-2. <i>Biochemistry</i> , 2018, 57, 2189-2199.	2.5	14
59	A two-phase model for the non-processive biosynthesis of homogalacturonan polysaccharides by the GAUT1:GAUT7 complex. <i>Journal of Biological Chemistry</i> , 2018, 293, 19047-19063.	3.4	43
60	A Single-Step Chemoenzymatic Reaction for the Construction of Antibody-Cell Conjugates. <i>ACS Central Science</i> , 2018, 4, 1633-1641.	11.3	59
61	A mutant-cell library for systematic analysis of heparan sulfate structure-function relationships. <i>Nature Methods</i> , 2018, 15, 889-899.	19.0	71
62	Association mapping, transcriptomics, and transient expression identify candidate genes mediating plant-pathogen interactions in a tree. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11573-11578.	7.1	61
63	Identification of Key Enzymes for Pectin Synthesis in Seed Mucilage. <i>Plant Physiology</i> , 2018, 178, 1045-1064.	4.8	63
64	Paramagnetic Tag for Glycosylation Sites in Glycoproteins: Structural Constraints on Heparan Sulfate Binding to Robo1. <i>ACS Chemical Biology</i> , 2018, 13, 2560-2567.	3.4	12
65	Defective mucin-type glycosylation on Î±-dystroglycan in COG-deficient cells increases its susceptibility to bacterial proteases. <i>Journal of Biological Chemistry</i> , 2018, 293, 14534-14544.	3.4	3
66	Integration of genetic and metabolic features related to sialic acid metabolism distinguishes human breast cell subtypes. <i>PLoS ONE</i> , 2018, 13, e0195812.	2.5	24
67	Downstream Products are Potent Inhibitors of the Heparan Sulfate 2-O-Sulfotransferase. <i>Scientific Reports</i> , 2018, 8, 11832.	3.3	11
68	O-Linked N-Acetylglucosamine (O-GlcNAc) Expression Levels Epigenetically Regulate Colon Cancer Tumorigenesis by Affecting the Cancer Stem Cell Compartment via Modulating Expression of Transcriptional Factor MYBL1. <i>Journal of Biological Chemistry</i> , 2017, 292, 4123-4137.	3.4	50
69	Synthesis of asymmetrical multiantennary human milk oligosaccharides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6954-6959.	7.1	118
70	NMR assignments of sparsely labeled proteins using a genetic algorithm. <i>Journal of Biomolecular NMR</i> , 2017, 67, 283-294.	2.8	8
71	Rapid screening of sugar-nucleotide donor specificities of putative glycosyltransferases. <i>Glycobiology</i> , 2017, 27, 206-212.	2.5	45
72	Protein O-Linked Mannose Î²-1,4-N-Acetylglucosaminyl-transferase 2 (POMGNT2) Is a Gatekeeper Enzyme for Functional Glycosylation of Î±-Dystroglycan. <i>Journal of Biological Chemistry</i> , 2017, 292, 2101-2109.	3.4	27

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73	RElative QUantitation Inferred by Evaluating Mixtures (REQUIEM). <i>Analytica Chimica Acta</i> , 2017, 993, 22-37.	5.4	0
74	Guanidinylated Neomycin Conjugation Enhances Intranasal Enzyme Replacement in the Brain. <i>Molecular Therapy</i> , 2017, 25, 2743-2752.	8.2	10
75	Structural, mutagenic and <i>in silico</i> studies of xyloglucan fucosylation in <i>Arabidopsis thaliana</i> suggest a water-mediated mechanism. <i>Plant Journal</i> , 2017, 91, 931-949.	5.7	53
76	Biochemical characterization of functional domains of the chaperone Cosmc. <i>PLoS ONE</i> , 2017, 12, e0180242.	2.5	14
77	ST8SIA4-Dependent Polysialylation is Part of a Developmental Program Required for Germ Layer Formation from Human Pluripotent Stem Cells. <i>Stem Cells</i> , 2016, 34, 1742-1752.	3.2	21
78	NDST2 (N-Deacetylase/N-Sulfotransferase-2) Enzyme Regulates Heparan Sulfate Chain Length. <i>Journal of Biological Chemistry</i> , 2016, 291, 18600-18607.	3.4	28
79	Integrated Approach to Identify Heparan Sulfate Ligand Requirements of Robo1. <i>Journal of the American Chemical Society</i> , 2016, 138, 13059-13067.	13.7	42
80	Glycosylation Alters Dimerization Properties of a Cell-surface Signaling Protein, Carcinoembryonic Antigen-related Cell Adhesion Molecule 1 (CEACAM1). <i>Journal of Biological Chemistry</i> , 2016, 291, 20085-20095.	3.4	30
81	Structural Aspects of Heparan Sulfate Binding to Robo1. <i>ACS Chemical Biology</i> , 2016, 11, 3106-3113.	3.4	22
82	One-Step Selective Exoenzymatic Labeling (SEEL) Strategy for the Biotinylation and Identification of Glycoproteins of Living Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 11575-11582.	13.7	81
83	Structural basis for regulation of human calcium-sensing receptor by magnesium ions and an unexpected tryptophan derivative co-agonist. <i>Science Advances</i> , 2016, 2, e1600241.	10.3	116
84	Substrate recognition and catalysis by GH47 α -mannosidases involved in Asn-linked glycan maturation in the mammalian secretory pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7890-E7899.	7.1	29
85	Divergent Chemoenzymatic Synthesis of Asymmetrical Core Fucosylated and Core Unmodified <i>N</i> -Glycans. <i>Chemistry - A European Journal</i> , 2016, 22, 18742-18746.	3.3	38
86	Differentiation-related glycan epitopes identify discrete domains of the muscle glycocalyx. <i>Glycobiology</i> , 2016, 26, 1120-1132.	2.5	10
87	Selective Exo-Enzymatic Labeling Detects Increased Cell Surface Sialoglycoprotein Expression upon Megakaryocytic Differentiation. <i>Journal of Biological Chemistry</i> , 2016, 291, 3982-3989.	3.4	45
88	Mucin-type O-glycosylation is controlled by short- and long-range glycopeptide substrate recognition that varies among members of the polypeptide GalNAc transferase family. <i>Glycobiology</i> , 2016, 26, 360-376.	2.5	73
89	The functional O-mannose glycan on α -dystroglycan contains a phospho-ribitol primed for matriglycan addition. <i>ELife</i> , 2016, 5, .	6.0	98
90	High Yield Expression of Recombinant Human Proteins with the Transient Transfection of HEK293 Cells in Suspension. <i>Journal of Visualized Experiments</i> , 2015, , e53568.	0.3	55

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91	A PEGylated Photocleavable Auxiliary Mediates the Sequential Enzymatic Glycosylation and Native Chemical Ligation of Peptides. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7711-7715.	13.8	55
92	<i>Helicobacter pylori</i> chronic infection and mucosal inflammation switches the human gastric glycosylation pathways. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1928-1939.	3.8	60
93	High Structural Resolution Hydroxyl Radical Protein Footprinting Reveals an Extended Robo1-Heparin Binding Interface. <i>Journal of Biological Chemistry</i> , 2015, 290, 10729-10740.	3.4	54
94	ERManI (Endoplasmic Reticulum Class I α -Mannosidase) Is Required for HIV-1 Envelope Glycoprotein Degradation via Endoplasmic Reticulum-associated Protein Degradation Pathway. <i>Journal of Biological Chemistry</i> , 2015, 290, 22184-22192.	3.4	24
95	Direct Determination of Multiple Ligand Interactions with the Extracellular Domain of the Calcium-sensing Receptor. <i>Journal of Biological Chemistry</i> , 2014, 289, 33529-33542.	3.4	23
96	Two <i>scpA</i> rhabdopsis proteins synthesize acetylated xylan <i>in vitro</i> . <i>Plant Journal</i> , 2014, 80, 197-206.	5.7	192
97	Sparse labeling of proteins: Structural characterization from long range constraints. <i>Journal of Magnetic Resonance</i> , 2014, 241, 32-40.	2.1	18
98	Mannosidase, Alpha, Class 1 (MAN1A1 (Golgi Alpha-Mannosidase IA), Man1A2 (Golgi Alpha-Mannosidase) Tj ETQq0 0 0 rgBT ₂ /Overlock		
99	Heparan sulfate deficiency disrupts developmental angiogenesis and causes congenital diaphragmatic hernia. <i>Journal of Clinical Investigation</i> , 2014, 124, 209-221.	8.2	53
100	B4GAT1 is the priming enzyme for the LARGE-dependent functional glycosylation of α -dystroglycan. <i>ELife</i> , 2014, 3, .	6.0	78
101	Mannosidase, Alpha, Class 2a1 (MAN2A1, Golgi α -Mannosidase II). , 2014, , 1313-1326.		0
102	Enzymatic Basis for N-Glycan Sialylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 34680-34698.	3.4	116
103	Characterization of the interaction between Robo1 and heparin and other glycosaminoglycans. <i>Biochimie</i> , 2013, 95, 2345-2353.	2.6	25
104	Metabolic glycoengineering of mesenchymal stromal cells with N-propanoylmannosamine. <i>Glycobiology</i> , 2013, 23, 1004-1012.	2.5	18
105	The Lectin Domain of the Polypeptide GalNAc Transferase Family of Glycosyltransferases (ppGalNAc Ts) Acts as a Switch Directing Glycopeptide Substrate Glycosylation in an N- or C-terminal Direction, Further Controlling Mucin Type O-Glycosylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 19900-19914.	3.4	67
106	The 2013 Karl Meyer Award and Rosalind Kornfeld Award from the Society for Glycobiology. <i>Glycobiology</i> , 2013, 23, 1207-1209.	2.5	0
107	Selective Exo-Enzymatic Labeling of N-Glycans on the Surface of Living Cells by Recombinant ST6Gal...I. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13012-13015.	13.8	83
108	The C-terminal fragment of axon guidance molecule Slit3 binds heparin and neutralizes heparin's anticoagulant activity. <i>Glycobiology</i> , 2012, 22, 1183-1192.	2.5	14

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109	A Genetic Model of Substrate Reduction Therapy for Mucopolysaccharidosis. <i>Journal of Biological Chemistry</i> , 2012, 287, 36283-36290.	3.4	21
110	Transcriptional Regulation of the Protocadherin \hat{I}^2 Cluster during Her-2 Protein-induced Mammary Tumorigenesis Results from Altered N-Glycan Branching. <i>Journal of Biological Chemistry</i> , 2012, 287, 24941-24954.	3.4	21
111	Regulation of Glycan Structures in Murine Embryonic Stem Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 37835-37856.	3.4	91
112	Excessive activity of cathepsin K is associated with cartilage defects in a zebrafish model of mucopolidosis II. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 177-190.	2.4	36
113	Proteomic Identification of Glycosylphosphatidylinositol Anchor-dependent Membrane Proteins Elevated in Breast Carcinoma. <i>Journal of Biological Chemistry</i> , 2012, 287, 25230-25240.	3.4	44
114	NMR Characterization of Immunoglobulin G Fc Glycan Motion on Enzymatic Sialylation. <i>Biochemistry</i> , 2012, 51, 4618-4626.	2.5	108
115	Heparan Sulfate Facilitates FGF and BMP Signaling to Drive Mesoderm Differentiation of Mouse Embryonic Stem Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 22691-22700.	3.4	76
116	Vertebrate protein glycosylation: diversity, synthesis and function. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 448-462.	37.0	1,372
117	Mutations in the Alpha 1,2-Mannosidase Gene, MAN1B1, Cause Autosomal-Recessive Intellectual Disability. <i>American Journal of Human Genetics</i> , 2011, 89, 176-182.	6.2	73
118	Mechanistic insights into a Ca ²⁺ -dependent family of \hat{I}^{\pm} -mannosidases in a human gut symbiont. <i>Nature Chemical Biology</i> , 2010, 6, 125-132.	8.0	115
119	Transcript profiling and lipidomic analysis of ceramide subspecies in mouse embryonic stem cells and embryoid bodies. <i>Journal of Lipid Research</i> , 2010, 51, 480-489.	4.2	31
120	Transcript Analysis of Stem Cells. <i>Methods in Enzymology</i> , 2010, 479, 73-91.	1.0	28
121	The mammalian UPR boosts glycoprotein ERAD by suppressing the proteolytic downregulation of ER mannosidase I. <i>Journal of Cell Science</i> , 2009, 122, 976-984.	2.0	48
122	IDAWG: Metabolic Incorporation of Stable Isotope Labels for Quantitative Glycomics of Cultured Cells. <i>Journal of Proteome Research</i> , 2009, 8, 3816-3823.	3.7	108
123	Focused glycomic analysis of the <i>N</i> -linked glycan biosynthetic pathway in ovarian cancer. <i>Proteomics</i> , 2008, 8, 3210-3220.	2.2	103
124	Loss of expression of <i>N</i> -acetylglucosaminyltransferase Va results in altered gene expression of glycosyltransferases and galectins. <i>FEBS Letters</i> , 2008, 582, 527-535.	2.8	19
125	Probing the Substrate Specificity of Golgi \hat{I}^{\pm} -Mannosidase II by Use of Synthetic Oligosaccharides and a Catalytic Nucleophile Mutant. <i>Journal of the American Chemical Society</i> , 2008, 130, 8975-8983.	13.7	50
126	¹³ C-Sialic Acid Labeling of Glycans on Glycoproteins Using ST6Gal-I. <i>Journal of the American Chemical Society</i> , 2008, 130, 11864-11865.	13.7	25

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127	Regulation of Glycan Structures in Animal Tissues. <i>Journal of Biological Chemistry</i> , 2008, 283, 17298-17313.	3.4	188
128	Human Endoplasmic Reticulum Mannosidase I Is Subject to Regulated Proteolysis. <i>Journal of Biological Chemistry</i> , 2007, 282, 4841-4849.	3.4	46
129	Glycomics of Proteoglycan Biosynthesis in Murine Embryonic Stem Cell Differentiation. <i>Journal of Proteome Research</i> , 2007, 6, 4374-4387.	3.7	130
130	Spin-Labeled Analogs of CMP-NeuAc as NMR Probes of the α -2,6-Sialyltransferase ST6Gal I. <i>Chemistry and Biology</i> , 2007, 14, 409-418.	6.0	13
131	Changes in the backbone ceramide subspecies as mouse embryonic stem cells develop into embryoid bodies. <i>FASEB Journal</i> , 2007, 21, A237.	0.5	0
132	Family 47 α -Mannosidases in N-Glycan Processing. <i>Methods in Enzymology</i> , 2006, 415, 31-46.	1.0	62
133	N-linked glycan recognition and processing: the molecular basis of endoplasmic reticulum quality control. <i>Current Opinion in Structural Biology</i> , 2006, 16, 592-599.	5.7	111
134	Essential and mutually compensatory roles of α -mannosidase II and α -mannosidase IIx in N-glycan processing in vivo in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8983-8988.	7.1	65
135	Potent and Selective Inhibition of Class II α -D-Mannosidase Activity by a Bicyclic Sulfonium Salt. <i>ChemBioChem</i> , 2005, 6, 845-848.	2.6	28
136	Human EDEM2, a novel homolog of family 47 glycosidases, is involved in ER-associated degradation of glycoproteins. <i>Glycobiology</i> , 2005, 15, 421-436.	2.5	139
137	Energetics of Substrate Binding and Catalysis by Class 1 (Glycosylhydrolase Family 47) α -Mannosidases Involved in N-Glycan Processing and Endoplasmic Reticulum Quality Control. <i>Journal of Biological Chemistry</i> , 2005, 280, 29837-29848.	3.4	38
138	Mechanism of Class 1 (Glycosylhydrolase Family 47) α -Mannosidases Involved in N-Glycan Processing and Endoplasmic Reticulum Quality Control. <i>Journal of Biological Chemistry</i> , 2005, 280, 16197-16207.	3.4	106
139	Characterization of a Human Core-specific Lysosomal α -1,6-Mannosidase Involved in N-Glycan Catabolism. <i>Journal of Biological Chemistry</i> , 2005, 280, 37204-37216.	3.4	38
140	A Practical Synthesis of Kifunensine Analogues as Inhibitors of Endoplasmic Reticulum α -Mannosidase I. <i>Journal of Organic Chemistry</i> , 2005, 70, 9892-9904.	3.2	43
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