Jennifer Jean Kohler

List of Publications by Year
in descending order

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71 papers	2,821 citations	186265 28 h-index	189892 50 g-index
80 all docs	80 docs citations	80 times ranked	3281 citing authors

#	Article	IF	Citations
1	Metabolic cross-talk allows labeling of O-linked Î²- N -acetylglucosamine-modified proteins via the N -acetylgalactosamine salvage pathway. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3141-3146.	7.1	301
2	Photocrosslinkers illuminate interactions in living cells. Molecular BioSystems, 2008, 4, 473.	2.9	161
3	Photoactivatable Crosslinking Sugars for Capturing Glycoprotein Interactions. Journal of the American Chemical Society, 2008, 130, 3278-3279.	13.7	147
4	Metabolic labeling enables selective photocrosslinking of O-GlcNAc-modified proteins to their binding partners. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4834-4839.	7.1	127
5	Photocrosslinking approaches to interactome mapping. Current Opinion in Chemical Biology, 2013, 17, 90-101.	6.1	115
6	Kinetic Studies of FosÂ·JunÂ·DNA Complex Formation:â€‰ DNA Binding Prior to Dimerization. Biochemistry, 2001, 40, 130-142.	2.5	109
7	DNA specificity enhanced by sequential binding of protein monomers. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11735-11739.	7.1	103
8	A Conserved Splicing Silencer Dynamically Regulates O-GlcNAc Transferase Intron Retention and O-GlcNAc Homeostasis. Cell Reports, 2017, 20, 1088-1099.	6.4	88
9	Regulation of Intracellular Signaling by Extracellular Glycan Remodeling. ACS Chemical Biology, 2010, 5, 35-46.	3.4	86
10	Photocrosslinking of glycoconjugates using metabolically incorporated diazirine-containing sugars. Nature Protocols, 2009, 4, 1044-1063.	12.0	82
11	Hyposialylated IgG activates endothelial IgG receptor FcÎ³RIIB to promote obesity-induced insulin resistance. Journal of Clinical Investigation, 2017, 128, 309-322.	8.2	82
12	Fucosylation and protein glycosylation create functional receptors for cholera toxin. ELife, 2015, 4, e09545.	6.0	81
13	Chemical methods for glycoprotein discovery. Current Opinion in Chemical Biology, 2007, 11, 52-58.	6.1	73
14	Bump-and-Hole Engineering Identifies Specific Substrates of Glycosyltransferases in Living Cells. Molecular Cell, 2020, 78, 824-834.e15.	9.7	70
15	Soluble klotho binds monosialoganglioside to regulate membrane microdomains and growth factor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 752-757.	7.1	68
16	Glycosylation of the Nuclear Pore. Traffic, 2014, 15, 347-361.	2.7	63
17	GM1 ganglioside-independent intoxication by Cholera toxin. PLoS Pathogens, 2018, 14, e1006862.	4.7	57
18	Conditional Glycosylation in Eukaryotic Cells Using a Biocompatible Chemical Inducer of Dimerization. Journal of the American Chemical Society, 2008, 130, 13186-13187.	13.7	55

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19	Chemical Modulation of Protein O-GlcNAcylation via OGT Inhibition Promotes Human Neural Cell Differentiation. ACS Chemical Biology, 2017, 12, 2030-2039.	3.4	53
20	Metabolism of Diazirine-Modified N-Acetylmannosamine Analogues to Photo-Cross-Linking Sialosides. Bioconjugate Chemistry, 2011, 22, 1811-1823.	3.6	51
21	Structural basis of O-GlcNAc recognition by mammalian 14-3-3 proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5956-5961.	7.1	50
22	Regulating Cell Surface Glycosylation by Small Molecule Control of Enzyme Localization. Chemistry and Biology, 2003, 10, 1303-1311.	6.0	49
23	Fucosylated Molecules Competitively Interfere with Cholera Toxin Binding to Host Cells. ACS Infectious Diseases, 2018, 4, 758-770.	3.8	42
24	Pyrimidine Salvage Enzymes Are Essential for De Novo Biosynthesis of Deoxypyrimidine Nucleotides in Trypanosoma brucei. PLoS Pathogens, 2016, 12, e1006010.	4.7	39
25	Advances in cell surface glycoengineering reveal biological function. Glycobiology, 2016, 26, 789-796.	2.5	39
26	Metabolically incorporated photocrosslinking sialic acid covalently captures a ganglioside–protein complex. Molecular BioSystems, 2010, 6, 1796.	2.9	38
27	Association of Â-1,3-N-acetylglucosaminyltransferase 1 and Â-1,4-galactosyltransferase 1, trans-Golgi enzymes involved in coupled poly-N-acetyllactosamine synthesis. Glycobiology, 2009, 19, 655-664.	2.5	32
28	Photocrosslinking probes for capture of carbohydrate interactions. Current Opinion in Chemical Biology, 2019, 53, 173-182.	6.1	32
29	Characterization of the Pre-mRNA Binding Site for Yeast Ribosomal Protein L32: The Importance of a Purine-rich Internal Loop. Journal of Molecular Biology, 1995, 250, 447-459.	4.2	29
30	Enhanced Transfer of a Photocross-linking N-Acetylglucosamine (GlcNAc) Analog by an O-GlcNAc Transferase Mutant with Converted Substrate Specificity. Journal of Biological Chemistry, 2015, 290, 22638-22648.	3.4	29
31	A small-molecule switch for Golgi sulfotransferases. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16715-16720.	7.1	27
32	Sialidase Specificity Determined by Chemoselective Modification of Complex Sialylated Glycans. ACS Chemical Biology, 2012, 7, 1509-1514.	3.4	26
33	Modeled structural basis for the recognition of Î±2â€“3â€²sialyllactose by soluble Klotho. FASEB Journal, 2017, 31, 3574-3586.	0.5	25
34	Cell type and receptor identity regulate cholera toxin subunit B (CTB) internalization. Interface Focus, 2019, 9, 20180076.	3.0	25
35	Aniline: A Catalyst for Sialic Acid Detection. ChemBioChem, 2009, 10, 2147-2150.	2.6	24
36	Cellular metabolism of unnatural sialic acid precursors. Glycoconjugate Journal, 2015, 32, 515-529.	2.7	23

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37	Modified GM3 gangliosides produced by metabolic oligosaccharide engineering. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5006-5010.	2.2	21
38	A photo-cross-linking GlcNAc analog enables covalent capture of N-linked glycoprotein-binding partners on the cell surface. Cell Chemical Biology, 2022, 29, 84-97.e8.	5.2	21
39	Photoaffinity Probes for Studying Carbohydrate Biology. Journal of Carbohydrate Chemistry, 2012, 31, 325-352.	1.1	19
40	Enhanced Cross-Linking of Diazirine-Modified Sialylated Glycoproteins Enabled through Profiling of Sialidase Specificities. ACS Chemical Biology, 2016, 11, 185-192.	3.4	19
41	Effects of altered sialic acid biosynthesis on N-linked glycan branching and cell surface interactions. Journal of Biological Chemistry, 2017, 292, 9637-9651.	3.4	19
42	Mass Spectrometric Method for the Unambiguous Profiling of Cellular Dynamic Glycosylation. ACS Chemical Biology, 2020, 15, 2692-2701.	3.4	19
43	Human UDP-galactose 4â€²-epimerase (GALE) is required for cell-surface glycome structure and function. Journal of Biological Chemistry, 2020, 295, 1225-1239.	3.4	19
44	Introduction to Glycosylation and Mass Spectrometry. Methods in Molecular Biology, 2013, 951, 1-17.	0.9	16
45	Pneumococcal Neuraminidase Substrates Identified through Comparative Proteomics Enabled by Chemoselective Labeling. Bioconjugate Chemistry, 2016, 27, 1013-1022.	3.6	15
46	Directing Flux in Glycan Biosynthetic Pathways with a Small Molecule Switch. ChemBioChem, 2004, 5, 1455-1458.	2.6	13
47	Metabolic Labeling of Glycoconjugates with Photocrosslinking Sugars. Methods in Enzymology, 2010, 478, 541-562.	1.0	13
48	Effects of N-glycosylation on the activity and localization of GlcNAc-6-sulfotransferase 1. Glycobiology, 2009, 19, 1068-1077.	2.5	12
49	Human UDP-galactose 4â€²-epimerase (GALE) is required for cell-surface glycome structure and function. Journal of Biological Chemistry, 2020, 295, 1225-1239.	3.4	12
50	Recognition of diazirine-modified O-GlcNAc by human O-GlcNAcase. MedChemComm, 2014, 5, 1227-1234.	3.4	10
51	Effects of nucleic acids and polyanions on dimer formation and DNA binding by bZIP and bHLHZip transcription factors. Bioorganic and Medicinal Chemistry, 2001, 9, 2435-2443.	3.0	9
52	A Two-Hybrid Assay to Study Protein Interactions within the Secretory Pathway. PLoS ONE, 2010, 5, e15648.	2.5	9
53	Glycan specificity of neuraminidases determined in microarray format. Carbohydrate Research, 2016, 428, 31-40.	2.3	9
54	Interleukin-22 regulates B3GNT7 expression to induce fucosylation of glycoproteins in intestinal epithelial cells. Journal of Biological Chemistry, 2022, 298, 101463.	3.4	9

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55	Gene regulation: Protein escorts to the transcription ball. Current Biology, 1999, 9, R929-R932.	3.9	8
56	Anomeric Fatty Acid Functionalization Prevents Nonenzymatic S-Glycosylation by Monosaccharide Metabolic Chemical Reporters. ACS Chemical Biology, 2021, 16, 1924-1929.	3.4	8
57	Exo-Enzymatic Addition of Diazirine-Modified Sialic Acid to Cell Surfaces Enables Photocrosslinking of Glycoproteins. Bioconjugate Chemistry, 2022, 33, 781-787.	3.6	8
58	Carb cutting works better with a partner. Nature Structural and Molecular Biology, 2017, 24, 433-435.	8.2	6
59	4-Deoxy-4-fluoro-GalNAz (4FGalNAz) Is a Metabolic Chemical Reporter of O-GlcNAc Modifications, Highlighting the Notable Substrate Flexibility of O-GlcNAc Transferase. ACS Chemical Biology, 2022, 17, 159-170.	3.4	6
60	A shift for the O-GlcNAc paradigm. Nature Chemical Biology, 2010, 6, 634-635.	8.0	4
61	Synthesis of Cell-Permeable N-Acetylhexosamine 1-Phosphates. Journal of Organic Chemistry, 2021, 86, 18257-18264.	3.2	3
62	Regulating Cell Surface Glycosylation with a Smallâ€Molecule Switch. Methods in Enzymology, 2006, 415, 213-229.	1.0	2
63	Chemical Glycobiology. , 2010, , 175-224.		1
64	Photocrosslinking Sugars for Capturing Glycan-dependent Interactions (Jpn. Ed.). Trends in Glycoscience and Glycotechnology, 2015, 27, J1-J7.	0.1	1
65	Not All Quiet on the Sugar Front: Glycan Combatants in Hostâ€“Pathogen Interactions. Biochemistry, 2020, 59, 3061-3063.	2.5	1
66	Photocrosslinking Oâ€GlcNAcylated Proteins to Neighboring Biomolecules. Current Protocols, 2021, 1, e201.	2.9	1
67	Photocrosslinking Sugars for Capturing Glycan-dependent Interactions. Trends in Glycoscience and Glycotechnology, 2015, 27, E1-E7.	0.1	1
68	Recent Developments in Designing Compact Biological Photoprobes. , 2017, , 45-78.		0
69	What sugar does to your pores. Journal of Cell Biology, 2021, 220, .	5.2	0
70	Discovering the substrates of Î²â€1,4â€galactosyltransferaseâ€1 by use of unnatural UDPâ€galactose analogs. FASEB Journal, 2008, 22, 1058.1.	0.5	0
71	The Mammalian UDPâ€Galactose 4â€²â€Epimerase (GalE) Is Required for Cell Surface Glycome Structure and Function. FASEB Journal, 2019, 33, 798.6.	0.5	0