Karen J Colley

List of Publications by Year
in descending order

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31	1,541	361413	477307
papers	citations	20 h-index	29 g-index

31	31	31	1320
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Noncatalytic Endosialidase Enables Surface Capture of Small-Cell Lung Cancer Cells Utilizing Strong Dendrimer-Mediated Enzyme-Glycoprotein Interactions. Analytical Chemistry, 2018, 90, 3670-3675.	6.5	14
2	Autopolysialylation of polysialyltransferases is required for polysialylation and polysialic acid chain elongation on select glycoprotein substrates. Journal of Biological Chemistry, 2018, 293, 701-716.	3.4	9
3	The Polybasic Region of the Polysialyltransferase ST8Sia-IV Binds Directly to the Neural Cell Adhesion Molecule, NCAM. Biochemistry, 2017, 56, 1504-1517.	2.5	17
4	Sialylation of N-glycans: mechanism, cellular compartmentalization and function. Histochemistry and Cell Biology, 2017, 147, 149-174.	1.7	175
5	Sequence Requirements for Neuropilin-2 Recognition by ST8SiaIV and Polysialylation of Its O-Glycans. Journal of Biological Chemistry, 2016, 291, 9444-9457.	3.4	19
6	Drifting toward polymer perfection. Nature Chemical Biology, 2014, 10, 410-411.	8.0	1
7	Polysialic acid: Biosynthesis, novel functions and applications. Critical Reviews in Biochemistry and Molecular Biology, 2014, 49, 498-532.	5.2	122
8	The Polysialyltransferases Interact with Sequences in Two Domains of the Neural Cell Adhesion Molecule to Allow Its Polysialylation. Journal of Biological Chemistry, 2013, 288, 7282-7293.	3.4	15
9	Sequences Prior to Conserved Catalytic Motifs of Polysialyltransferase ST8Sia IV Are Required for Substrate Recognition. Journal of Biological Chemistry, 2012, 287, 6441-6453.	3.4	29
10	Sequences at the Interface of the Fifth Immunoglobulin Domain and First Fibronectin Type III Repeat of the Neural Cell Adhesion Molecule Are Critical for Its Polysialylation. Journal of Biological Chemistry, 2011, 286, 4525-4534.	3.4	21
11	Structure and Mutagenesis of Neural Cell Adhesion Molecule Domains. Journal of Biological Chemistry, 2010, 285, 27360-27371.	3.4	22
12	Sequences from the First Fibronectin Type III Repeat of the Neural Cell Adhesion Molecule Allow O-Glycan Polysialylation of an Adhesion Molecule Chimera. Journal of Biological Chemistry, 2010, 285, 35056-35067.	3.4	12
13	Structural Basis for the Polysialylation of the Neural Cell Adhesion Molecule. Advances in Experimental Medicine and Biology, 2010, 663, 111-126.	1.6	26
14	Identification of Sequences in the Polysialyltransferases ST8Sia II and ST8Sia IV That Are Required for the Protein-specific Polysialylation of the Neural Cell Adhesion Molecule, NCAM. Journal of Biological Chemistry, 2009, 284, 15505-15516.	3.4	45
15	Nucleotide sugar transporters of the Golgi apparatus. , 2008, , 190-206.		8
16	A Novel Î±-Helix in the First Fibronectin Type III Repeat of the Neural Cell Adhesion Molecule Is Critical for N-Glycan Polysialylation. Journal of Biological Chemistry, 2006, 281, 36052-36059.	3.4	52
17	The CMP-sialic Acid Transporter Is Localized in the Medial-Trans Golgi and Possesses Two Specific Endoplasmic Reticulum Export Motifs in Its Carboxyl-terminal Cytoplasmic Tail. Journal of Biological Chemistry, 2006, 281, 31106-31118.	3.4	42
18	Requirements for the Protein Specific Polysialylation of NCAM Nâ€Glycans. FASEB Journal, 2006, 20, A56.	0.5	0

#	Article	IF	Citations
19	Specific Amino Acids in the First Fibronectin Type III Repeat of the Neural Cell Adhesion Molecule Play a Role in Its Recognition and Polysialylation by the Polysialyltransferase ST8Sia IV/PST. Journal of Biological Chemistry, 2005, 280, 32340-32348.	3.4	33
20	Multiple Signals Are Required for Î±2,6-Sialyltransferase (ST6Gal I) Oligomerization and Golgi Localization. Journal of Biological Chemistry, 2005, 280, 5423-5429.	3.4	44
21	The Minimal Structural Domains Required for Neural Cell Adhesion Molecule Polysialylation by PST/ST8Sia IV and STX/ST8Sia II. Journal of Biological Chemistry, 2003, 278, 30796-30805.	3.4	52
22	The two rat alpha2,6-sialyltransferase (ST6Gal I) isoforms: evaluation of catalytic activity and intra-Golgi localization. Glycobiology, 2003, 13, 109-117.	2.5	9
23	Hyposialylation of Integrins Stimulates the Activity of Myeloid Fibronectin Receptors. Journal of Biological Chemistry, 2002, 277, 32830-32836.	3.4	98
24	Formation of Insoluble Oligomers Correlates with ST6Gal I Stable Localization in the Golgi. Journal of Biological Chemistry, 2000, 275, 13819-13826.	3.4	46
25	Polysialyltransferase-1 Autopolysialylation Is Not Requisite for Polysialylation of Neural Cell Adhesion Molecule. Journal of Biological Chemistry, 2000, 275, 4484-4491.	3.4	43
26	In VivoAutopolysialylation and Localization of the Polysialyltransferases PST and STX. Journal of Biological Chemistry, 1998, 273, 34586-34593.	3.4	100
27	Golgi localization of glycosyltransferases: more questions than answers. Glycobiology, 1997, 7, 1-13.	2.5	287
28	Two Naturally Occurring Î±2,6-Sialyltransferase Forms with a Single Amino Acid Change in the Catalytic Domain Differ in Their Catalytic Activity and Proteolytic Processing. Journal of Biological Chemistry, 1997, 272, 672-679.	3.4	68
29	Localization of Golgi Glycosyltransferases.. Trends in Glycoscience and Glycotechnology, 1997, 9, 267-282.	0.1	3
30	The expression of GalÎ²1,4GlcNAc Î±2,6 sialyltransferase and Î±2,6-linked sialoglycoconjugates in human brain tumors. Acta Neuropathologica, 1996, 91, 284-292.	7.7	50
31	Unique Î±2, 8-polysialylated glycoproteins in breast cancer and leukemia cells. Glycobiology, 1996, 6, 289-301.	2.5	79