Hiroshi Kitagawa

List of Publications by Year
in descending order

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190 papers	10,164 citations	29994 54 h-index	40881 93 g-index
195 all docs	195 docs citations	195 times ranked	6704 citing authors

#	Article	IF	Citations
1	Recent advances in the structural biology of chondroitin sulfate and dermatan sulfate. Current Opinion in Structural Biology, 2003, 13, 612-620.	2.6	653
2	Recent advances in the study of the biosynthesis and functions of sulfated glycosaminoglycans. Current Opinion in Structural Biology, 2000, 10, 518-527.	2.6	384
3	Biosynthesis and function of chondroitin sulfate. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4719-4733.	1.1	354
4	Casting a Wide Net: Role of Perineuronal Nets in Neural Plasticity. Journal of Neuroscience, 2016, 36, 11459-11468.	1.7	323
5	Persistent cortical plasticity by upregulation of chondroitin 6-sulfation. Nature Neuroscience, 2012, 15, 414-422.	7.1	305
6	Chondroitin proteoglycans are involved in cell division of Caenorhabditis elegans. Nature, 2003, 423, 443-448.	13.7	252
7	Heparin and Heparan Sulfate Biosynthesis. IUBMB Life, 2002, 54, 163-175.	1.5	227
8	Molecular Cloning and Expression of a Human Chondroitin Synthase. Journal of Biological Chemistry, 2001, 276, 38721-38726.	1.6	184
9	The Tumor Suppressor EXT-like Gene EXTL2 Encodes an Î±1, 4-N-Acetylhexosaminyltransferase That TransfersN-Acetylgalactosamine and N-Acetylglucosamine to the Common Glycosaminoglycan-Protein Linkage Region. Journal of Biological Chemistry, 1999, 274, 13933-13937.	1.6	182
10	Heparan/Chondroitin Sulfate Biosynthesis. Journal of Biological Chemistry, 2000, 275, 34580-34585.	1.6	178
11	Developmental Regulation of the Sulfation Profile of Chondroitin Sulfate Chains in the Chicken Embryo Brain. Journal of Biological Chemistry, 1997, 272, 31377-31381.	1.6	175
12	Loss of chondroitin 6-O-sulfotransferase-1 function results in severe human chondrodysplasia with progressive spinal involvement. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10155-10160.	3.3	169
13	Molecular Cloning and Expression of Glucuronyltransferase I Involved in the Biosynthesis of the Glycosaminoglycan-Protein Linkage Region of Proteoglycans. Journal of Biological Chemistry, 1998, 273, 6615-6618.	1.6	163
14	Human tumor suppressor EXT gene family members EXTL1 and EXTL3 encode Â1,4-N-acetylglucosaminyltransferases that likely are involved in heparan sulfate/ heparin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7176-7181.	3.3	162
15	The EXT1/EXT2 tumor suppressors: catalytic activities and role in heparan sulfate biosynthesis. EMBO Reports, 2000, 1, 282-286.	2.0	153
16	Molecular Cloning of a Chondroitin Polymerizing Factor That Cooperates with Chondroitin Synthase for Chondroitin Polymerization. Journal of Biological Chemistry, 2003, 278, 23666-23671.	1.6	150
17	FAM20B is a kinase that phosphorylates xylose in the glycosaminoglycanâ€“protein linkage region. Biochemical Journal, 2009, 421, 157-162.	1.7	136
18	Cloning and Expression of Human GalÎ²1,3(4)GlcNAc Î±2,3-Sialyltransferase. Biochemical and Biophysical Research Communications, 1993, 194, 375-382.	1.0	133

#	Article	IF	Citations
19	Formation and remodeling of the brain extracellular matrix in neural plasticity: Roles of chondroitin sulfate and hyaluronan. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2420-2434.	1.1	130
20	Identification of Chondroitin Sulfate Glucuronyltransferase as Chondroitin Synthase-3 Involved in Chondroitin Polymerization. Journal of Biological Chemistry, 2008, 283, 11396-11406.	1.6	129
21	Microanalysis of Glycosaminoglycan-Derived Disaccharides Labeled with the Fluorophore 2-Aminoacridone by Capillary Electrophoresis and High-Performance Liquid Chromatography. Analytical Biochemistry, 1995, 232, 114-121.	1.1	117
22	Molecular Cloning and Expression of Human ChondroitinN-Acetylgalactosaminyltransferase. Journal of Biological Chemistry, 2002, 277, 8841-8846.	1.6	116
23	Specificities of Three Distinct Human Chondroitin/Dermatan N-Acetylgalactosamine 4-O-Sulfotransferases Demonstrated Using Partially Desulfated Dermatan Sulfate as an Acceptor. Journal of Biological Chemistry, 2003, 278, 36115-36127.	1.6	114
24	Chondroitin Sulfate Characterized by the E-disaccharide Unit Is a Potent Inhibitor of Herpes Simplex Virus Infectivity and Provides the Virus Binding Sites on gro2C Cells. Journal of Biological Chemistry, 2005, 280, 32193-32199.	1.6	113
25	Contactin-1 Is a Functional Receptor for Neuroregulatory Chondroitin Sulfate-E. Journal of Biological Chemistry, 2009, 284, 4494-4499.	1.6	113
26	Heparan Sulphate Biosynthesis and Disease. Journal of Biochemistry, 2008, 144, 7-14.	0.9	112
27	Molecular Cloning and Expression of a Second Chondroitin N-Acetylgalactosaminyltransferase Involved in the Initiation and Elongation of Chondroitin/Dermatan Sulfate. Journal of Biological Chemistry, 2003, 278, 3072-3078.	1.6	104
28	Demonstration of glycosaminoglycans inCaenorhabditis elegans. FEBS Letters, 1999, 459, 327-331.	1.3	95
29	Crystal Structure of an Î±1,4-N-Acetylhexosaminyltransferase (EXTL2), a Member of the Exostosin Gene Family Involved in Heparan Sulfate Biosynthesis. Journal of Biological Chemistry, 2003, 278, 14420-14428.	1.6	95
30	Involvement of chondroitin sulfate synthase-3 (chondroitin synthase-2) in chondroitin polymerization through its interaction with chondroitin synthase-1 or chondroitin-polymerizing factor. Biochemical Journal, 2007, 403, 545-552.	1.7	93
31	Chondroitin 4-O-Sulfotransferase-1 Regulates E Disaccharide Expression of Chondroitin Sulfate Required for Herpes Simplex Virus Infectivity. Journal of Biological Chemistry, 2006, 281, 38668-38674.	1.6	91
32	Chondroitin sulphate N-acetylgalactosaminyl-transferase-1 inhibits recovery from neural injury. Nature Communications, 2013, 4, 2740.	5.8	91
33	Novel Sulfated Oligosaccharides Containing 3-O-Sulfated Glucuronic Acid from King Crab Cartilage Chondroitin Sulfate K. Journal of Biological Chemistry, 1996, 271, 26745-26754.	1.6	90
34	Molecular Cloning and Expression of a Novel Chondroitin 6-O-Sulfotransferase. Journal of Biological Chemistry, 2000, 275, 21075-21080.	1.6	85
35	Chondroitin 4-O-Sulfotransferase-1 Modulates Wnt-3a Signaling through Control of E Disaccharide Expression of Chondroitin Sulfate. Journal of Biological Chemistry, 2008, 283, 27333-27343.	1.6	84
36	Nephrocalcinosis (Enamel Renal Syndrome) Caused by Autosomal Recessive FAM20A Mutations. Nephron Physiology, 2013, 122, 1-6.	1.5	84

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37	EXTL2, a Member of the EXT Family of Tumor Suppressors, Controls Glycosaminoglycan Biosynthesis in a Xylose Kinase-dependent Manner. Journal of Biological Chemistry, 2013, 288, 9321-9333.	1.6	83
38	Molecular Cloning of a Developmentally Regulated N-Acetylgalactosamine Î±2,6-Sialyltransferase Specific for Sialylated Glycoconjugates. Journal of Biological Chemistry, 1996, 271, 7450-7459.	1.6	78
39	In Vitro Heparan Sulfate Polymerization. Journal of Biological Chemistry, 2003, 278, 41618-41623.	1.6	77
40	A monoclonal antibody that recognizes a cluster of a disaccharide, NeuAc alpha(2---6)GalNAc, in mucin-type glycoproteins. Journal of Biological Chemistry, 1988, 263, 8724-6.	1.6	76
41	Functions of Chondroitin Sulfate/Dermatan Sulfate Chains in Brain Development. Journal of Biological Chemistry, 2007, 282, 19442-19452.	1.6	75
42	A monoclonal antibody directed to Tn antigen. Biochemical and Biophysical Research Communications, 1990, 170, 981-985.	1.0	72
43	Chondroitin Sulfate Is Indispensable for Pluripotency and Differentiation of Mouse Embryonic Stem Cells. Scientific Reports, 2014, 4, 3701.	1.6	72
44	Glycan sulfation patterns define autophagy flux at axon tip via PTPRÏƒ-cortactin axis. Nature Chemical Biology, 2019, 15, 699-709.	3.9	69
45	2-O-Phosphorylation of Xylose and 6-O-Sulfation of Galactose in the Protein Linkage Region of Glycosaminoglycans Influence the Glucuronyltransferase-I Activity Involved in the Linkage Region Synthesis. Journal of Biological Chemistry, 2008, 283, 16801-16807.	1.6	68
46	TFE3 Is a bHLH-ZIP-type Transcription Factor that Regulates the Mammalian Golgi Stress Response. Cell Structure and Function, 2015, 40, 13-30.	0.5	68
47	Impairment of Embryonic Cell Division and Glycosaminoglycan Biosynthesis in Glucuronyltransferase-I-deficient Mice. Journal of Biological Chemistry, 2010, 285, 12190-12196.	1.6	66
48	Nematode Chondroitin Polymerizing Factor Showing Cell-/Organ-specific Expression Is Indispensable for Chondroitin Synthesis and Embryonic Cell Division. Journal of Biological Chemistry, 2004, 279, 53755-53761.	1.6	64
49	Genomic Organization and Chromosomal Mapping of the GalÎ²1,3GalNAc/GalÎ²1,4GlcNAc Î±2,3-Sialyltransferase. Journal of Biological Chemistry, 1996, 271, 931-938.	1.6	63
50	Regulation of chondroitin sulfate biosynthesis by specific sulfation: acceptor specificity of serum Î²-GalNAc transferase revealed by structurally defined oligosaccharides. Glycobiology, 1997, 7, 531-537.	1.3	63
51	Chondroitin sulfate N-acetylgalactosaminyltransferase-1 is required for normal cartilage development. Biochemical Journal, 2010, 432, 47-55.	1.7	62
52	Mechanisms for modulation of neural plasticity and axon regeneration by chondroitin sulphate. Journal of Biochemistry, 2015, 157, 13-22.	0.9	62
53	Demonstration of the Immature Glycosaminoglycan Tetrasaccharide Sequence GlcAÎ²1â€“3GalÎ²1â€“3GalÎ²1â€“4Xyl on Recombinant Soluble Human Î±-Thrombomodulin. Journal of Biological Chemistry, 1998, 273, 33728-33734.	1.6	61
54	Chondroitin Sulfate Is Required for Onset and Offset of Critical Period Plasticity in Visual Cortex. Scientific Reports, 2017, 7, 12646.	1.6	61

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55	rib-2, a Caenorhabditis elegans Homolog of the Human Tumor Suppressor EXT Genes Encodes a Novel Î±1,4-N-Acetylglucosaminyltransferase Involved in the Biosynthetic Initiation and Elongation of Heparan Sulfate. Journal of Biological Chemistry, 2001, 276, 4834-4838.	1.6	57
56	Down-regulation of Chondroitin 4-O-Sulfotransferase-1 by Wnt Signaling Triggers Diffusion of Wnt-3a. Journal of Biological Chemistry, 2011, 286, 4199-4208.	1.6	56
57	Identification of Phosphatase That Dephosphorylates Xylose in the Glycosaminoglycan-Protein Linkage Region of Proteoglycans. Journal of Biological Chemistry, 2014, 289, 6695-6708.	1.6	56
58	Large-scale expression of recombinant sialyltransferases and comparison of their kinetic properties with native enzymes. Glycoconjugate Journal, 1995, 12, 755-761.	1.4	54
59	Functional expression and genomic structure of human chondroitin 6-sulfotransferase1. FEBS Letters, 1998, 441, 235-241.	1.3	54
60	Chondroitin sulfateâ€“mediated N-cadherin/Î²-catenin signaling is associated with basal-like breast cancer cell invasion. Journal of Biological Chemistry, 2018, 293, 444-465.	1.6	53
61	Chondroitin 4-O-sulfotransferase-1 regulates the chain length of chondroitin sulfate in co-operation with chondroitin N-acetylgalactosaminyltransferase-2. Biochemical Journal, 2011, 434, 321-331.	1.7	52
62	Elucidation of an essential structure recognized by an anti-GalNAc alpha-Ser(Thr) monoclonal antibody (MLS 128). Journal of Biological Chemistry, 1991, 266, 12402-5.	1.6	52
63	Chondroitin 6-Sulfation Regulates Perineuronal Net Formation by Controlling the Stability of Aggrecan. Neural Plasticity, 2016, 2016, 1-13.	1.0	51
64	Structural Variation of Chondroitin Sulfate Chains Contributes to the Molecular Heterogeneity of Perineuronal Nets. Frontiers in Integrative Neuroscience, 2018, 12, 3.	1.0	51
65	Chondroitin sulfate-E fine-tunes osteoblast differentiation via ERK1/2, Smad3 and Smad1/5/8 signaling by binding to N-cadherin and cadherin-11. Biochemical and Biophysical Research Communications, 2012, 420, 523-529.	1.0	50
66	Antibody recognizing 4-sulfated chondroitin sulfate proteoglycans restores memory in tauopathy-induced neurodegeneration. Neurobiology of Aging, 2017, 59, 197-209.	1.5	49
67	Identification and Characterization of Three Drosophila melanogaster Glucuronyltransferases Responsible for the Synthesis of the Conserved Glycosaminoglycan-Protein Linkage Region of Proteoglycans. Journal of Biological Chemistry, 2003, 278, 9116-9124.	1.6	47
68	Characterization of serum Î²-glucuronyltransferase involved in chondroitin sulfate biosynthesis. Glycobiology, 1997, 7, 905-911.	1.3	46
69	Sulfated glycosaminoglycans: their distinct roles in stem cell biology. Glycoconjugate Journal, 2017, 34, 725-735.	1.4	46
70	Characterization of recombinant human glucuronyltransferase I involved in the biosynthesis of the glycosaminoglycan-protein linkage region of proteoglycans. FEBS Letters, 1999, 459, 415-420.	1.3	45
71	N-Acetylgalactosamine (GalNAc) Transfer to the Common Carbohydrate-Protein Linkage Region of Sulfated Glycosaminoglycans. Journal of Biological Chemistry, 1995, 270, 22190-22195.	1.6	44
72	Correlation of C4ST-1 and ChGn-2 expression with chondroitin sulfate chain elongation in atherosclerosis. Biochemical and Biophysical Research Communications, 2011, 406, 36-41.	1.0	42

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73	Mucin-carbohydrate directed monoclonal antibody. FEBS Letters, 1987, 215, 137-139.	1.3	40
74	A Novel Pentasaccharide Sequence GlcA(3-sulfate)(Î²1-3)GalNAc(4-sulfate)(Î²1-4)(FucÎ±1-3)GlcA(Î²1-3)GalNAc(4-sulfate) in the Oligosaccharides Isolated from King Crab Cartilage Chondroitin Sulfate K and Its Differential Susceptibility to Chondroitinases and Hyaluronidase. Biochemistry, 1997, 36, 3998-4008.	1.2	39
75	Biosynthesis of heparan sulfate in EXT1-deficient cells. Biochemical Journal, 2010, 428, 463-471.	1.7	39
76	Expression of rib-1, a Caenorhabditis elegans Homolog of the Human Tumor Suppressor EXT Genes, Is Indispensable for Heparan Sulfate Synthesis and Embryonic Morphogenesis. Journal of Biological Chemistry, 2007, 282, 8533-8544.	1.6	38
77	Demonstration of a Novel Gene DEXT3 ofDrosophila melanogaster as the EssentialN-Acetylglucosamine Transferase in the Heparan Sulfate Biosynthesis. Journal of Biological Chemistry, 2002, 277, 13659-13665.	1.6	36
78	Chondroitin 6-sulphate is required for neuroplasticity and memory in ageing. Molecular Psychiatry, 2021, 26, 5658-5668.	4.1	36
79	Chondroitin Sulfate Is a Crucial Determinant for Skeletal Muscle Development/Regeneration and Improvement of Muscular Dystrophies. Journal of Biological Chemistry, 2012, 287, 38531-38542.	1.6	34
80	Involvement of chondroitin 6-sulfation in temporal lobe epilepsy. Experimental Neurology, 2015, 274, 126-133.	2.0	34
81	Salts with titanyl and vanadyl phthalocyanine radical anions. Molecular design and effect of cations on the structure and magnetic and optical properties. CrystEngComm, 2018, 20, 385-401.	1.3	34
82	Three novel oligosaccharides with the sialyl-Lea structure in human milk: isolation by immunoaffinity chromatography. Biochemistry, 1989, 28, 8891-8897.	1.2	33
83	Chondroitin 4-O-sulfotransferase-2 regulates the number of chondroitin sulfate chains initiated by chondroitin N-acetylgalactosaminyltransferase-1. Biochemical Journal, 2012, 441, 697-705.	1.7	33
84	Novel oligosaccharides with the sialyl-Lea structure in human milk. Biochemistry, 1991, 30, 2869-2876.	1.2	32
85	C. elegans pharyngeal morphogenesis requires both de novo synthesis of pyrimidines and synthesis of heparan sulfate proteoglycans. Developmental Biology, 2006, 296, 409-420.	0.9	32
86	GlcUAÎ²1â€“3GalÎ²1â€“3GalÎ²1â€“4Xyl(2-O-phosphate) Is the Preferred Substrate for Chondroitin N-Acetylgalactosaminyltransferase-1. Journal of Biological Chemistry, 2015, 290, 5438-5448.	1.6	32
87	Heparan Sulfate Polymerization in Drosophila. Journal of Biological Chemistry, 2006, 281, 1929-1934.	1.6	31
88	Sulfation of the Galactose Residues in the Glycosaminoglycan-Protein Linkage Region by Recombinant Human Chondroitin 6-O-Sulfotransferase-1. Journal of Biological Chemistry, 2008, 283, 27438-27443.	1.6	30
89	Increased Synthesis of Chondroitin Sulfate Proteoglycan Promotes Adult Hippocampal Neurogenesis in Response to Enriched Environment. Journal of Neuroscience, 2018, 38, 8496-8513.	1.7	30
90	Chondroitin sulfate-E mediates estrogen-induced osteoanabolism. Scientific Reports, 2015, 5, 8994.	1.6	29

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91	Processing by Convertases Is Required for Glypican-3-induced Inhibition of Hedgehog Signaling. Journal of Biological Chemistry, 2015, 290, 7576-7585.	1.6	28
92	Developmental Changes in Serum UDP-GlcA:Chondroitin Glucuronyltransferase Activity. Journal of Biological Chemistry, 1996, 271, 6583-6585.	1.6	27
93	Essential Roles of 3â€²-Phosphoadenosine 5â€²-Phoshosulfate Synthase in Embryonic and Larval Development of the Nematode Caenorhabditis elegans. Journal of Biological Chemistry, 2006, 281, 11431-11440.	1.6	27
94	Chondroitin beta-1,4-N-acetylgalactosaminyltransferase-1 missense mutations are associated with neuropathies. Journal of Human Genetics, 2011, 56, 143-146.	1.1	27
95	Identification and characterization of a novel UDP-GalNAc:GlcAbeta-R alpha1,4-N-acetylgalactosaminyltransferase from a human sarcoma cell line. Glycobiology, 1999, 9, 697-703.	1.3	26
96	Synthesis and interaction with midkine of biotinylated chondroitin sulfate tetrasaccharides. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1371-1374.	1.0	26
97	Glycosaminoglycan Overproduction in the Aorta Increases Aortic Calcification in Murine Chronic Kidney Disease. Journal of the American Heart Association, 2013, 2, e000405.	1.6	26
98	Heparan Sulfate Containing Unsubstituted Glucosamine Residues. Journal of Biological Chemistry, 2014, 289, 15231-15243.	1.6	26
99	Chondroitin sulfate and neuronal disorders. Frontiers in Bioscience - Landmark, 2016, 21, 1330-1340.	3.0	26
100	Chondroitin 4-O-sulfotransferase-1 is required for somitic muscle development and motor axon guidance in zebrafish. Biochemical Journal, 2009, 419, 387-399.	1.7	25
101	Sulfation of glucuronic acid in the linkage tetrasaccharide by HNK-1 sulfotransferase is an inhibitory signal for the expression of a chondroitin sulfate chain on thrombomodulin. Biochemical and Biophysical Research Communications, 2011, 415, 109-113.	1.0	25
102	Using Sugar Remodeling to Study Chondroitin Sulfate Function. Biological and Pharmaceutical Bulletin, 2014, 37, 1705-1712.	0.6	25
103	Abnormalities in perineuronal nets and behavior in mice lacking CSGalNAcT1, a key enzyme in chondroitin sulfate synthesis. Molecular Brain, 2017, 10, 47.	1.3	25
104	Reconsideration of the Semaphorin-3A Binding Motif Found in Chondroitin Sulfate Using Galnac4s-6st-Knockout Mice. Biomolecules, 2020, 10, 1499.	1.8	25
105	Detection and Characterization of UDP-GalNAc: Chondroitin N-Acetylgalactosaminyltransferase in Bovine Serum Using a Simple Assay Method1. Journal of Biochemistry, 1995, 117, 1083-1087.	0.9	24
106	Involvement of the core protein in the first Î²-N-acetylgalactosamine transfer to the glycosaminoglycanâ€“protein linkage-region tetrasaccharide and in the subsequent polymerization: the critical determining step for chondroitin sulphate biosynthesis. Biochemical Journal, 1999, 340, 353-357.	1.7	24
107	Expression of the Tn antigen on T-lymphoid cell line Jurkat. Biochemical and Biophysical Research Communications, 1991, 179, 762-767.	1.0	23
108	Novel Oligosaccharides with the Sialyl-Lea Structure in Human Milk1. Journal of Biochemistry, 1993, 114, 504-508.	0.9	23

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109	cis-Thioindigo (TI) â€“ a new ligand with accessible radical anion and dianion states. Strong magnetic coupling in the {[TI-(Î¼₂-O),(Î¼-O)]Cp*Cr}₂dimers. Dalton Transactions, 2017, 46, 14365-14372.	1.6	23
110	Occurrence of tetra- and pentasaccharides with the sialyl-Le(a) structure in human milk. Journal of Biological Chemistry, 1990, 265, 4859-62.	1.6	23
111	Structural variations in the glycosaminoglycan-protein linkage region of recombinant decorin expressed in Chinese hamster ovary cells. Glycobiology, 1997, 7, 1175-1180.	1.3	22
112	Assessment of glycosaminoglycan-protein linkage tetrasaccharides as acceptors for GalNAc- and GlcNAc-transferases from mouse mastocytoma. Glycoconjugate Journal, 1997, 14, 737-742.	1.4	22
113	Structural requirements of glycosaminoglycans for facilitating amyloid fibril formation of human serum amyloid A. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2016, 23, 67-75.	1.4	22
114	Immunoaffinity Isolation of a Sialyl-Lea Oligosaccharide from Human Milk1. Journal of Biochemistry, 1988, 104, 591-594.	0.9	21
115	Involvement of the core protein in the first Î²-N-acetylgalactosamine transfer to the glycosaminoglycanâ€'protein linkage-region tetrasaccharide and in the subsequent polymerization: the critical determining step for chondroitin sulphate biosynthesis. Biochemical Journal, 1999, 340, 353.	1.7	21
116	A characteristic chondroitin sulfate trisaccharide unit with a sulfated fucose branch exhibits neurite outgrowth-promoting activity: Novel biological roles of fucosylated chondroitin sulfates isolated from the sea cucumber Apostichopus japonicus. Biochemical and Biophysical Research Communications, 2017, 487, 678-683.	1.0	21
117	Dianionic Titanyl and Vanadyl (Cation⁺)₂[M^{IV}O(Pc^{4â^'})]^{2â^'} Phthalocyanine Salts Containing Pc^{4â^'} Macrocycles. Chemistry - an Asian Journal, 2018, 13, 1552-1560.	1.7	21
118	Chondroitin sulfate-D promotes neurite outgrowth by acting as an extracellular ligand for neuronal integrin Î±VÎ²3. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1319-1331.	1.1	21
119	Effect of One- and Two-Electron Reduction of Terbium(III) Double-Decker Phthalocyanine on Single-Ion Magnet Behavior and NIR Absorption. Inorganic Chemistry, 2019, 58, 5058-5068.	1.9	21
120	Two Golgi-resident 3â€²-Phosphoadenosine 5â€²-Phosphosulfate Transporters Play Distinct Roles in Heparan Sulfate Modifications and Embryonic and Larval Development in Caenorhabditis elegans. Journal of Biological Chemistry, 2010, 285, 24717-24728.	1.6	20
121	Roles of EXTL2, a member of the EXT family of tumour suppressors, in liver injury and regeneration processes. Biochemical Journal, 2013, 454, 133-145.	1.7	20
122	Chondroitin 4-O-Sulfotransferase Is Indispensable for Sulfation of Chondroitin and Plays an Important Role in Maintaining Normal Life Span and Oxidative Stress Responses in Nematodes. Journal of Biological Chemistry, 2016, 291, 23294-23304.	1.6	20
123	A Sulfated Glycosaminoglycan Linkage Region Is a Novel Type of Human Natural Killer-1 (HNK-1) Epitope Expressed on Aggrecan in Perineuronal Nets. PLoS ONE, 2015, 10, e0144560.	1.1	20
124	A Monoclonal Antibody That Recognizes Sialyl-Lea Oligosaccharide, but Is Distinct from NS 19-9 as to Epitope Recognition1. Journal of Biochemistry, 1988, 104, 817-821.	0.9	19
125	Production of Monoclonal Antibodies Directed against Carbohydrate Moieties of Cell Surface Glycoproteins. Japanese Journal of Cancer Research, 1988, 79, 1119-1129.	1.7	18
126	Purification and characterization of fetal bovine serum beta-N-acetyl-D-galactosaminyltransferase and beta-D-glucuronyltransferase involved in chondroitin sulfate biosynthesis. FEBS Journal, 1999, 264, 461-467.	0.2	18

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127	The glycosyltransferase EXTL2 promotes proteoglycan deposition and injurious neuroinflammation following demyelination. Journal of Neuroinflammation, 2020, 17, 220.	3.1	18
128	Isolation and Structural Studies of Human Milk Oligosaccharides That Are Reactive with a Monoclonal Antibody MSW 1131. Journal of Biochemistry, 1991, 110, 598-604.	0.9	17
129	Immunoaffinity purification and characterization of nucleotide pyrophosphatase from human placenta. Biochemical and Biophysical Research Communications, 1987, 147, 1061-1069.	1.0	16
130	Solid State Structure, and Optical and Magnetic Properties, of Free Base Tetra(4-pyridyl)porphyrin {H₂T(4-Py)P}^{â€¢â€“} Radical Anions. Journal of Organic Chemistry, 2018, 83, 1861-1866.	1.7	16
131	Human glycosaminoglycan glucuronyltransferase I gene and a related processed pseudogene: genomic structure, chromosomal mapping and characterization. Biochemical Journal, 2001, 358, 539-546.	1.7	15
132	EXTL2 controls liver regeneration and aortic calcification through xylose kinase-dependent regulation of glycosaminoglycan biosynthesis. Matrix Biology, 2014, 35, 18-24.	1.5	15
133	Aberrant glycosaminoglycan biosynthesis by tumor suppressor EXTL2 deficiency promotes liver inflammation and tumorigenesis through Tollâ€like 4 receptor signaling. FASEB Journal, 2020, 34, 8385-8401.	0.2	15
134	Hyaluronan degradation and release of a hyaluronan-aggrecan complex from perineuronal nets in the aged mouse brain. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129804.	1.1	15
135	A chondroitin synthase-1 (ChSy-1) missense mutation in a patient with neuropathy impairs the elongation of chondroitin sulfate chains initiated by chondroitin N-acetylgalactosaminyltransferase-1. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4806-4812.	1.1	14
136	Solid state structures and properties of free-base 5,10,15-triphenylcorrole (TPCor) anions obtained by deprotonation and reduction. Effective magnetic coupling of spins in (Cp*₂Cr⁺)(H⁺)(H₂TPCorË™^{2â¯})Â·C₆H₄Cl<s	1.6	14
	Dalton Transactions, 2017, 46, 13994-14001.		
137	Characterization of mucin-type oligosaccharides with the sialyl-Lea structure from human colorectal adenocarcinoma cells. Biochemical and Biophysical Research Communications, 1991, 178, 1429-1436.	1.0	13
138	Exostosin-like 2 regulates FGF2 signaling by controlling the endocytosis of FGF2. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 791-799.	1.1	13
139	Characterization of mucin antigens recognized by monoclonal antibodies raised against human colon cancer cells. Cancer Research, 1991, 51, 331-5.	0.4	13
140	Chondroitin 6-sulfate represses keratinocyte proliferation in mouse skin, which is associated with psoriasis. Communications Biology, 2021, 4, 114.	2.0	12
141	Vulnerability to shear stress caused by altered peri-endothelial matrix is a key feature of Moyamoya disease. Scientific Reports, 2021, 11, 1552.	1.6	12
142	Human glycosaminoglycan glucuronyltransferase I gene and a related processed pseudogene: genomic structure, chromosomal mapping and characterization. Biochemical Journal, 2001, 358, 539.	1.7	11
143	Chondroitin sulfate Î²-1,4-N-acetylgalactosaminyltransferase-1 (ChGn-1) polymorphism: Association with progression of multiple sclerosis. Neuroscience Research, 2016, 108, 55-59.	1.0	11
144	Synthesis of chondroitin sulfate CC and DD tetrasaccharides and interactions with 2H6 and LY111. Bioorganic and Medicinal Chemistry, 2018, 26, 1016-1025.	1.4	11

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