

Takashi Sato

List of Publications by Year in descending order

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101
papers

3,978
citations

94433

37
h-index

128289

60
g-index

103
all docs

103
docs citations

103
times ranked

5131
citing authors

#	ARTICLE	IF	CITATIONS
1	A Biomimetic Mussel-Inspired Poly-L-lysine Hydrogel with Robust Tissue Anchor and Anti-Infection Capacity. <i>Advanced Functional Materials</i> , 2017, 27, 1604894.	14.9	342
2	A novel strategy for mammalian cell surface glycome profiling using lectin microarray. <i>Glycobiology</i> , 2007, 17, 1138-1146.	2.5	165
3	Mice lacking α 1,3-fucosyltransferase IX demonstrate disappearance of Lewis x structure in brain and increased anxiety-like behaviors. <i>Glycobiology</i> , 2007, 17, 1-9.	2.5	154
4	Noroviruses Distinguish between Type 1 and Type 2 Histo-Blood Group Antigens for Binding. <i>Journal of Virology</i> , 2008, 82, 10756-10767.	3.4	150
5	A Strategy for Identification of Oligosaccharide Structures Using Observational Multistage Mass Spectral Library. <i>Analytical Chemistry</i> , 2005, 77, 4719-4725.	6.5	149
6	Inhibition of activator protein-1 binding activity and phosphatidylinositol 3-kinase pathway by nobiletin, a polymethoxy flavonoid, results in augmentation of tissue inhibitor of metalloproteinases-1 production and suppression of production of matrix metalloproteinases-1 and -9 in human fibrosarcoma HT-1080 cells. <i>Cancer Research</i> , 2002, 62, 1025-9.	0.9	124
7	Tumor-stromal cell contact promotes invasion of human uterine cervical carcinoma cells by augmenting the expression and activation of stromal matrix metalloproteinases. <i>Gynecologic Oncology</i> , 2004, 92, 47-56.	1.4	110
8	Alg14 Recruits Alg13 to the Cytoplasmic Face of the Endoplasmic Reticulum to Form a Novel Bipartite UDP-N-acetylglucosamine Transferase Required for the Second Step of N-Linked Glycosylation. <i>Journal of Biological Chemistry</i> , 2005, 280, 36254-36262.	3.4	102
9	Poly-lactosamine on glycoproteins influences basal levels of lymphocyte and macrophage activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15829-15834.	7.1	101
10	Differential Roles of Two N-Acetylgalactosaminyltransferases, CSGalNAcT-1, and a Novel Enzyme, CSGalNAcT-2. <i>Journal of Biological Chemistry</i> , 2003, 278, 3063-3071.	3.4	99
11	A novel α 1,3-N-acetylglucosaminyltransferase (α 1,3Gn-T8), which synthesizes poly-N-acetyl-lactosamine, is dramatically upregulated in colon cancer. <i>FEBS Letters</i> , 2005, 579, 71-78.	2.8	93
12	Molecular Cloning and Characterization of a Novel Human α 1,4-N-Acetylgalactosaminyltransferase, α 1,4GalNAc-T3, Responsible for the Synthesis of N,N'-diacetyl-lactosylamine, GalNAc α 1-4GlcNAc. <i>Journal of Biological Chemistry</i> , 2003, 278, 47534-47544.	3.4	88
13	Reconstruction of a robust glycodiagnostic agent supported by multiple lectin-assisted glycan profiling. <i>Proteomics - Clinical Applications</i> , 2013, 7, 642-647.	1.6	80
14	Chondroitin Sulfate Synthase-2. <i>Journal of Biological Chemistry</i> , 2003, 278, 30235-30247.	3.4	77
15	Chondroitin Sulfate Synthase-3. <i>Journal of Biological Chemistry</i> , 2003, 278, 39711-39725.	3.4	76
16	Dual Specificity of Langerin to Sulfated and Mannosylated Glycans via a Single C-type Carbohydrate Recognition Domain. <i>Journal of Biological Chemistry</i> , 2010, 285, 6390-6400.	3.4	76
17	Molecular cloning and characterization of a novel human α 1,3-glucosyltransferase, which is localized at the endoplasmic reticulum and glucosylates O-linked fucosylglycan on thrombospondin type 1 repeat domain. <i>Glycobiology</i> , 2006, 16, 1194-1206.	2.5	75
18	Enzymatic Synthesis of Chondroitin with a Novel Chondroitin Sulfate N-Acetylgalactosaminyltransferase That Transfers N-Acetylgalactosamine to Glucuronic Acid in Initiation and Elongation of Chondroitin Sulfate Synthesis. <i>Journal of Biological Chemistry</i> , 2002, 277, 38189-38196.	3.4	71

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19	Molecular Cloning and Characterization of a Novel Chondroitin Sulfate Glucuronyltransferase That Transfers Glucuronic Acid to N-Acetylgalactosamine. <i>Journal of Biological Chemistry</i> , 2002, 277, 38179-38188.	3.4	70
20	Strategy for Glycoproteomics: Identification of Glyco-Alteration Using Multiple Glycan Profiling Tools. <i>Journal of Proteome Research</i> , 2009, 8, 1358-1367.	3.7	70
21	Application of Lectin Microarray to Crude Samples: Differential Glycan Profiling of Lec Mutants. <i>Journal of Biochemistry</i> , 2006, 139, 323-327.	1.7	64
22	The Citrus Flavonoid, Nobiletin, Inhibits Peritoneal Dissemination of Human Gastric Carcinoma in SCID Mice. <i>Japanese Journal of Cancer Research</i> , 2001, 92, 1322-1328.	1.7	62
23	The carbohydrate sequence markup language (CabosML): an XML description of carbohydrate structures. <i>Bioinformatics</i> , 2005, 21, 1717-1718.	4.1	62
24	Chondroitin Sulfate N-Acetylgalactosaminyltransferase 1 Is Necessary for Normal Endochondral Ossification and Aggrecan Metabolism. <i>Journal of Biological Chemistry</i> , 2011, 286, 5803-5812.	3.4	60
25	LARGE2 facilitates the maturation of β -dystroglycan more effectively than LARGE. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 1162-1171.	2.1	59
26	Molecular cloning and characterization of β 1,4-N-acetylgalactosaminyltransferases IV synthesizing N,N'-diacetyllactosamine. <i>FEBS Letters</i> , 2004, 562, 134-140.	2.8	58
27	A Novel Human β 1,3-N-Acetylgalactosaminyltransferase That Synthesizes a Unique Carbohydrate Structure, GalNAc β 1-3GlcNAc. <i>Journal of Biological Chemistry</i> , 2004, 279, 14087-14095.	3.4	57
28	Identification of a novel human UDP-GalNAc transferase with unique catalytic activity and expression profile. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 680-686.	2.1	52
29	β 3GnT2 (B3GNT2), a Major Polylactosamine Synthase: Analysis of B3gnt2-Deficient Mice. <i>Methods in Enzymology</i> , 2010, 479, 185-204.	1.0	50
30	Construction of a Chondroitin Sulfate Library with Defined Structures and Analysis of Molecular Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 43390-43400.	3.4	50
31	HEG1 is a novel mucin-like membrane protein that serves as a diagnostic and therapeutic target for malignant mesothelioma. <i>Scientific Reports</i> , 2017, 7, 45768.	3.3	50
32	A standardized method for lectin microarray-based tissue glycome mapping. <i>Scientific Reports</i> , 2017, 7, 43560.	3.3	48
33	Apical Golgi localization of N,N'-diacetyllactosamine synthase, β 4GalNAc-T3, is responsible for LacdiNAc expression on gastric mucosa. <i>Glycobiology</i> , 2006, 16, 777-785.	2.5	43
34	Comprehensive Enzymatic Characterization of Glycosyltransferases with a β 3GT or β 4GT Motif. <i>Methods in Enzymology</i> , 2006, 416, 91-102.	1.0	43
35	Chondroitin Sulfate N-Acetylgalactosaminyltransferase-1 Plays a Critical Role in Chondroitin Sulfate Synthesis in Cartilage. <i>Journal of Biological Chemistry</i> , 2007, 282, 4152-4161.	3.4	42
36	Tumor necrosis factor β (TNF β) induces pro-matrix metalloproteinase 9 production in human uterine cervical fibroblasts but interleukin 1 β antagonizes the inductive effect of TNF β . <i>FEBS Letters</i> , 1996, 392, 175-178.	2.8	41

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37	Lack of lacto/neolacto-glycolipids enhances the formation of glycolipid-enriched microdomains, facilitating B cell activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11900-11905.	7.1	39
38	Human ZG16p recognizes pathogenic fungi through non-self polyvalent mannose in the digestive system. <i>Glycobiology</i> , 2012, 22, 210-220.	2.5	35
39	Large-scale mutational analysis in the EXT1 and EXT2 genes for Japanese patients with multiple osteochondromas. <i>BMC Genetics</i> , 2016, 17, 52.	2.7	35
40	Large-Scale Identification of N-Glycan Glycoproteins Carrying Lewis x and Site-Specific N-Glycan Alterations in Fut9 Knockout Mice. <i>Journal of Proteome Research</i> , 2015, 14, 3823-3834.	3.7	34
41	Engineering of recombinant <i>Wisteria floribunda</i> agglutinin specifically binding to GalNAc ¹ 2,4GlcNAc (LacdiNAc). <i>Glycobiology</i> , 2017, 27, 743-754.	2.5	34
42	Chondroitin Sulfate Synthase-2 Is Necessary for Chain Extension of Chondroitin Sulfate but Not Critical for Skeletal Development. <i>PLoS ONE</i> , 2012, 7, e43806.	2.5	31
43	Tailoring GalNAc ¹ 3Gal ² -specific lectins from a multi-specific fungal galectin: dramatic change of carbohydrate specificity by a single amino-acid substitution. <i>Biochemical Journal</i> , 2013, 453, 261-270.	3.7	30
44	C1galt1-deficient mice exhibit thrombocytopenia due to abnormal terminal differentiation of megakaryocytes. <i>Blood</i> , 2013, 122, 1649-1657.	1.4	30
45	Fucosyltransferase 2 induces lung epithelial fucosylation and exacerbates house dust mite-induced airway inflammation. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 698-709.e9.	2.9	30
46	Identification of an active site of EMMPRIN for the augmentation of matrix metalloproteinase-1 and -3 expression in a co-culture of human uterine cervical carcinoma cells and fibroblasts. <i>Gynecologic Oncology</i> , 2009, 114, 337-342.	1.4	26
47	Functional expression of l-fucokinase/guanosine 5'-diphosphate-l-fucose pyrophosphorylase from <i>Bacteroides fragilis</i> in <i>Saccharomyces cerevisiae</i> for the production of nucleotide sugars from exogenous monosaccharides. <i>Glycobiology</i> , 2011, 21, 1228-1236.	2.5	25
48	Augmentation of Gene Expression and Production of Promatrix Metalloproteinase 2 by <i>Propionibacterium acnes</i> -Derived Factors in Hamster Sebocytes and Dermal Fibroblasts: A Possible Mechanism for Acne Scarring. <i>Biological and Pharmaceutical Bulletin</i> , 2011, 34, 295-299.	1.4	23
49	ADAMTS9 and ADAMTS20 are differentially affected by loss of B3GLCT in mouse model of Peters plus syndrome. <i>Human Molecular Genetics</i> , 2019, 28, 4053-4066.	2.9	23
50	Calmodulin antagonists increase the expression of membrane-type-1 matrix metalloproteinase in human uterine cervical fibroblasts. <i>FEBS Journal</i> , 1998, 251, 353-358.	0.2	22
51	Strategy for the fine characterization of glycosyltransferase specificity using isotopomer assembly. <i>Nature Methods</i> , 2007, 4, 577-582.	19.0	22
52	Identification of Further Elongation and Branching of Dimeric Type 1 Chain on Lactosylceramides from Colonic Adenocarcinoma by Tandem Mass Spectrometry Sequencing Analyses. <i>Journal of Biological Chemistry</i> , 2008, 283, 16455-16468.	3.4	21
53	Chondroitin Sulfate Synthase-2/Chondroitin Polymerizing Factor Has Two Variants with Distinct Function*. <i>Journal of Biological Chemistry</i> , 2010, 285, 34155-34167.	3.4	20
54	<i>Wisteria floribunda</i> agglutinin positive glycobiomarkers: a unique lectin as a serum biomarker probe in various diseases. <i>Expert Review of Proteomics</i> , 2018, 15, 183-190.	3.0	20

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55	Comparative Glycomic Analysis of Exosome Subpopulations Derived from Pancreatic Cancer Cell Lines. <i>Journal of Proteome Research</i> , 2020, 19, 2516-2524.	3.7	20
56	Molecular-Weight-Tagged Glycopeptide Library: Efficient Construction and Applications. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4547-4549.	13.8	18
57	Immunocytochemical analysis for intracellular dynamics of C1GalT associated with molecular chaperone, Cosmc. <i>Biochemical and Biophysical Research Communications</i> , 2008, 366, 199-205.	2.1	18
58	Large-scale identification of secretome glycoproteins recognized by <i>Wisteria floribunda</i> agglutinin: A glycoproteomic approach to biomarker discovery. <i>Proteomics</i> , 2015, 15, 2921-2933.	2.2	18
59	Novel anti- ϵ -keratins actions of nadifloxacin and clindamycin that inhibit the production of sebum, prostaglandin E_2 and promatrix metalloproteinase-2 in hamster sebocytes. <i>Journal of Dermatology</i> , 2012, 39, 774-780.	1.2	17
60	Adapalene suppresses sebum accumulation via the inhibition of triacylglycerol biosynthesis and perilipin expression in differentiated hamster sebocytes in vitro. <i>Journal of Dermatological Science</i> , 2013, 70, 204-210.	1.9	17
61	Heat shock-mediated transient increase in intracellular 3',5'-cyclic AMP results in tumor specific suppression of membrane type 1-matrix metalloproteinase production and progelatinase A activation. <i>Clinical and Experimental Metastasis</i> , 2000, 18, 131-138.	3.3	16
62	Postnatal lethality and chondrodysplasia in mice lacking both chondroitin sulfate N-acetylgalactosaminyltransferase-1 and -2. <i>PLoS ONE</i> , 2017, 12, e0190333.	2.5	16
63	Cell Type-Specific Involvement of Furin in Membrane Type 1 Matrix Metalloproteinase-Mediated Progelatinase A Activation. <i>Annals of the New York Academy of Sciences</i> , 1999, 878, 713-715.	3.8	15
64	Identification of mesothelioma-specific sialylated epitope recognized with monoclonal antibody SKM9-2 in a mucin-like membrane protein HEG1. <i>Scientific Reports</i> , 2018, 8, 14251.	3.3	15
65	A chemoenzymatic approach toward the identification of fucosylated glycoproteins and mapping of N-glycan sites. <i>Glycobiology</i> , 2012, 22, 630-637.	2.5	14
66	Triptolide suppresses ultraviolet B-enhanced sebum production by inhibiting the biosynthesis of triacylglycerol in hamster sebaceous glands in vivo and in vitro. <i>Experimental and Therapeutic Medicine</i> , 2017, 14, 361-366.	1.8	11
67	LM-GlycomeAtlas Ver. 1.0: A Novel Visualization Tool for Lectin Microarray-Based Glycomic Profiles of Mouse Tissue Sections. <i>Molecules</i> , 2019, 24, 2962.	3.8	11
68	Polypeptide N-acetylgalactosaminyltransferase 18 non-catalytically regulates the ER homeostasis and O-glycosylation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 870-882.	2.4	11
69	<i>Wisteria floribunda</i> agglutinin staining for the quantitative assessment of cardiac fibrogenic activity in a mouse model of dilated cardiomyopathy. <i>Laboratory Investigation</i> , 2019, 99, 1749-1765.	3.7	10
70	An Improved Method for Cell Type-Selective Glycomic Analysis of Tissue Sections Assisted by Fluorescence Laser Microdissection. <i>International Journal of Molecular Sciences</i> , 2019, 20, 700.	4.1	10
71	Involvement of Catechols in Acteoside in the Activation of Promatrix Metalloproteinase-2 and Membrane Type-1-Matrix Metalloproteinase Expression & via a Phosphatidylinositol-3-Kinase Pathway in Human Dermal Fibroblasts. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1530-1536.	1.4	9
72	Identification of mammalian glycoproteins with type-I LacdiNAc structures synthesized by the glycosyltransferase B3GALNT2. <i>Journal of Biological Chemistry</i> , 2019, 294, 7433-7444.	3.4	9

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73	The Citrus Flavonoid Nobiletin Suppresses the Production and Gene Expression of Matrix Metalloproteinases-9/Gelatinase B in Rabbit Synovial Cells. <i>Annals of the New York Academy of Sciences</i> , 1999, 878, 632-634.	3.8	8
74	In Vitro and In Vivo Enzymatic Syntheses and Mass Spectrometric Database for N-Glycans and O-Glycans. <i>Methods in Enzymology</i> , 2010, 478, 127-149.	1.0	8
75	Engineering of a 3-sulpho-Gal β 1-4GlcNAc-specific probe by a single amino acid substitution of a fungal galectin. <i>Journal of Biochemistry</i> , 2015, 157, 197-200.	1.7	8
76	Antineuropathic pain actions of Wu-tou decoction resulted from the increase of neurotrophic factor and decrease of CCR5 expression in primary rat glial cells. <i>Biomedicine and Pharmacotherapy</i> , 2020, 123, 109812.	5.6	8
77	N-glycan structures of <i>Wisteria floribunda</i> agglutinin-positive Mac2 binding protein in the serum of patients with liver fibrosis. <i>Glycobiology</i> , 2021, 31, 1268-1278.	2.5	7
78	A novel functional site of extracellular matrix metalloproteinase inducer (EMMPRIN) that limits the migration of human uterine cervical carcinoma cells. <i>International Journal of Oncology</i> , 2011, 40, 236-42.	3.3	6
79	Incomplete clearance of apoptotic cells by core 1-derived O-glycan-deficient resident peritoneal macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 2017-2023.	2.1	6
80	Optimized application of the secreted Nano-luciferase reporter system using an affinity purification strategy. <i>PLoS ONE</i> , 2018, 13, e0196617.	2.5	6
81	Preparation of a Glycan Library Using a Variety of Glycosyltransferases. , 2009, 534, 282-291.		6
82	O-linked N-acetylgalactosamine modification is present on the tumor suppressor p53. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129635.	2.4	5
83	Mice lacking core 1-derived O-glycan in podocytes develop transient proteinuria, resulting in focal segmental glomerulosclerosis. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 1007-1013.	2.1	5
84	Global Loss of Core 1-Derived O-Glycans in Mice Leads to High Mortality Due to Acute Kidney Failure and Gastric Ulcers. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1273.	4.1	5
85	O-glycosylated HBsAg peptide can induce specific antibody neutralizing HBV infection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022, 1866, 130020.	2.4	4
86	Cloning and Characterization of β 1,3-Glycosyltransferase Family with a β 3GT Motifs. <i>Trends in Glycoscience and Glycotechnology</i> , 2007, 19, 29-40.	0.1	4
87	Molecular mechanisms of cyclic phosphatidic acid-induced lymphangiogenic actions in vitro. <i>Microvascular Research</i> , 2022, 139, 104273.	2.5	4
88	Anti-arthritic actions of β -cryptoxanthin against the degradation of articular cartilage in vivo and in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2016, 476, 352-358.	2.1	3
89	Involvement of adenosine triphosphate-binding cassette subfamily B member 1 in the augmentation of triacylglycerol excretion by <i>Propionibacterium acnes</i> in differentiated hamster sebocytes. <i>Journal of Dermatology</i> , 2017, 44, 1404-1407.	1.2	3
90	Sensitive New Assay System for Serum <i>Wisteria floribunda</i> Agglutinin-Reactive Ceruloplasmin That Distinguishes Ovarian Clear Cell Carcinoma from Endometrioma. <i>Analytical Chemistry</i> , 2022, 94, 2476-2484.	6.5	3

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91	A Novel Method of CD31-Combined ABO Carbohydrate Antigen Microarray Predicts Acute Antibody-Mediated Rejection in ABO-Incompatible Kidney Transplantation. <i>Transplant International</i> , 2022, 35, 10248.	1.6	3
92	Different regulation of lipogenesis in sebocytes and subcutaneous preadipocytes in hamsters in vitro. <i>Biochemistry and Biophysics Reports</i> , 2020, 22, 100761.	1.3	2
93	Lysophosphatidic Acid Augments the Gene Expression and Production of Matrix Metalloproteinases-1 and -3 in Human Synovial Fibroblasts <i>in Vitro</i> . <i>Biological and Pharmaceutical Bulletin</i> , 2021, 44, 131-135.	1.4	2
94	Transient Increase of Intracellular cAMP by Heat Shock Initiates the Suppression of MT1-MMP Production in Tumor Cells. <i>Annals of the New York Academy of Sciences</i> , 1999, 878, 707-709.	3.8	1
95	UDP-Gal: BetaGlcNAc Beta 1,4-Galactosyltransferase, Polypeptide 2-6; Xylosylprotein Beta 1,4-Galactosyltransferase, Polypeptide 7 (Galactosyltransferase I) (B4GALT2-7). , 2014, , 63-72.		1
96	β1,3-glycosyltransferase Gene Family and IGnT Gene Family. , 2008, , 24-29.		1
97	Expression System for Human Glycosyltransferases and Its Application. <i>Journal of Applied Glycoscience</i> (1999), 2010, 57, 131-136.	0.7	1
98	An increase in normetanephrine in hair follicles of acne lesions through the sympatho-adrenal medullary system in acne patients with anxiety. <i>Journal of Dermatology</i> , 2021, 48, 1281-1285.	1.2	0
99	Beta-1,3-Glucosyltransferase (B3GALT1). , 2014, , 31-38.		0
100	Beta1,3-N-Acetylgalactosaminyltransferase 2 (B3GALNT2). , 2014, , 439-445.		0
101	Chondroitin Sulfate N-Acetylgalactosaminyltransferase 1,2 (CSGALNACT1,2). , 2014, , 925-933.		0