Hirokazu Yagi

List of Publications by Year
in descending order

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122	3,072	186265	206112
papers	citations	28 h-index	48 g-index

130	130	130	3690
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glutamine-free mammalian expression of recombinant glycoproteins with uniform isotope labeling: an application for NMR analysis of pharmaceutically relevant Fc glycoforms of human immunoglobulin G1. Journal of Biomolecular NMR, 2022, 76, 17-22.	2.8	7
2	Quantitative Visualization of the Interaction between Complement Component C1 and Immunoglobulin G: The Effect of CH1 Domain Deletion. International Journal of Molecular Sciences, 2022, 23, 2090.	4.1	1
3	Overall structure of fully assembled cyanobacterial KaiABC circadian clock complex by an integrated experimental-computational approach. Communications Biology, 2022, 5, 184.	4.4	5
4	OUP accepted manuscript. Glycobiology, 2022, , .	2.5	0
5	Identification of distinct N-glycosylation patterns on extracellular vesicles from small-cell and nonâ€“small-cell lung cancer cells. Journal of Biological Chemistry, 2022, 298, 101950.	3.4	12
6	Cancer Malignancy Is Correlated with Upregulation of PCYT2-Mediated Glycerol Phosphate Modification of Î±-Dystroglycan. International Journal of Molecular Sciences, 2022, 23, 6662.	4.1	2
7	An embeddable molecular code for Lewis X modification through interaction with fucosyltransferase 9. Communications Biology, 2022, 5, .	4.4	2
8	Comprehensive characterization of oligosaccharide conformational ensembles with conformer classification by free-energy landscape via reproductive kernel Hilbert space. Physical Chemistry Chemical Physics, 2021, 23, 9753-9760.	2.8	10
9	Deuteration Aiming for Neutron Scattering. Biophysics and Physicobiology, 2021, 18, 16-27.	1.0	10
10	Structural and Functional Roles of the N-Glycans in Therapeutic Antibodies. , 2021, , 534-542.		6
11	Establishment of a novel monoclonal antibody against truncated glycoforms of Î±-dystroglycan lacking matriglycans. Biochemical and Biophysical Research Communications, 2021, 579, 8-14.	2.1	4
12	Purified EDEM3 or EDEM1 alone produces determinant oligosaccharide structures from M8B in mammalian glycoprotein ERAD. ELife, 2021, 10, .	6.0	9
13	Remodeling of the Oligosaccharide Conformational Space in the Prebound State To Improve Lectin-Binding Affinity. Biochemistry, 2020, 59, 3180-3185.	2.5	9
14	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. Molecular and Cellular Proteomics, 2020, 19, 11-30.	3.8	87
15	On-Membrane Dynamic Interplay between Anti-GM1 IgG Antibodies and Complement Component C1q. International Journal of Molecular Sciences, 2020, 21, 147.	4.1	13
16	Silkworm Pupae Function as Efficient Producers of Recombinant Glycoproteins with Stable-Isotope Labeling. Biomolecules, 2020, 10, 1482.	4.0	4
17	Lactone-Driven Ester-to-Amide Derivatization for Sialic Acid Linkage-Specific Alkylamidation. Analytical Chemistry, 2020, 92, 14383-14392.	6.5	7
18	Improved secretion of glycoproteins using an N-glycan-restricted passport sequence tag recognized by cargo receptor. Nature Communications, 2020, 11, 1368.	12.8	15

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19	Supramolecular tholos-like architecture constituted by archaeal proteins without functional annotation. Scientific Reports, 2020, 10, 1540.	3.3	8
20	EDEM2 stably disulfide-bonded to TXNDC11 catalyzes the first mannose trimming step in mammalian glycoprotein ERAD. ELife, 2020, 9, .	6.0	31
21	The Fab portion of immunoglobulin G contributes to its binding to FcÎ³ receptor III. Scientific Reports, 2019, 9, 11957.	3.3	35
22	Dynamic Views of the Fc Region of Immunoglobulin G Provided by Experimental and Computational Observations. Antibodies, 2019, 8, 39.	2.5	29
23	Generation of the heterogeneity of extracellular vesicles by membrane organization and sorting machineries. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 681-691.	2.4	20
24	Mutational and Combinatorial Control of Self-Assembling and Disassembling of Human Proteasome Î± Subunits. International Journal of Molecular Sciences, 2019, 20, 2308.	4.1	6
25	GlcNAc6ST3 is a keratan sulfate sulfotransferase for the protein-tyrosine phosphatase PTPRZ in the adult brain. Scientific Reports, 2019, 9, 4387.	3.3	18
26	Nâ€glycome inheritance from cells to extracellular vesicles in B16 melanomas. FEBS Letters, 2019, 593, 942-951.	2.8	13
27	Cooperative Binding of KaiB to the KaiC Hexamer Ensures Accurate Circadian Clock Oscillation in Cyanobacteria. International Journal of Molecular Sciences, 2019, 20, 4550.	4.1	18
28	ATP hydrolysis by KaiC promotes its KaiA binding in the cyanobacterial circadian clock system. Life Science Alliance, 2019, 2, e201900368.	2.8	14
29	Functional Roles of Glycoprotein Glycans in Neural Stem Cells. Trends in Glycoscience and Glycotechnology, 2019, 31, SJ91-SJ92.	0.1	0
30	Functional Roles of Glycoprotein Glycans in Neural Stem Cells. Trends in Glycoscience and Glycotechnology, 2019, 31, SE91-SE92.	0.1	0
31	Nrf2 activation attenuates genetic endoplasmic reticulum stress induced by a mutation in the phosphomannomutase 2 gene in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2758-2763.	7.1	43
32	Stable isotope labeling approaches for NMR characterization of glycoproteins using eukaryotic expression systems. Journal of Biomolecular NMR, 2018, 71, 193-202.	2.8	38
33	Site-specific N-glycosylation analysis of soluble FcÎ³ receptor IIIb in human serum. Scientific Reports, 2018, 8, 2719.	3.3	21
34	Conversion of functionally undefined homopentameric protein PbaA into a proteasome activator by mutational modification of its C-terminal segment conformation. Protein Engineering, Design and Selection, 2018, 31, 29-36.	2.1	5
35	Nâ€glycan structures of human alveoli provide insight into influenza A virus infection and pathogenesis. FEBS Journal, 2018, 285, 1611-1634.	4.7	31
36	Lewis X-Carrying Neoglycolipids Evoke Selective Apoptosis in Neural Stem Cells. Neurochemical Research, 2018, 43, 212-218.	3.3	0

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37	Technical Basis for Nuclear Magnetic Resonance Approach for Glycoproteins. , 2018, , 415-438.		9
38	Exploration of Conformational Spaces of Oligosaccharides byCombining Molecular Dynamics Simulation and NMR Spectroscopy. Journal of Computer Chemistry Japan, 2018, 17, 1-7.	0.1	3
39	Structure and Dynamics of Immunoglobulin G Glycoproteins. Advances in Experimental Medicine and Biology, 2018, 1104, 219-235.	1.6	8
40	Distinct substrate specificities of human GlcNAc-6-sulfotransferases revealed by mass spectrometryâ€“based sulfoglycomic analysis. Journal of Biological Chemistry, 2018, 293, 15163-15177.	3.4	24
41	Potent Antimalarial Activity of Two Arenes Linked with Triamine Designed To Have Multiple Interactions with Heme. ACS Medicinal Chemistry Letters, 2018, 9, 980-985.	2.8	11
42	Design and synthesis of a 4-aminoquinoline-based molecular tweezer that recognizes protoporphyrin IX and iron(<scp>iii</scp>) protoporphyrin IX and its application as a supramolecular photosensitizer. Chemical Science, 2018, 9, 7455-7467.	7.4	15
43	NMR Characterization of the Dynamic Conformations of Oligosaccharides. , 2018, , 737-754.		6
44	Functional roles of glycoconjugates in the maintenance of stemness and differentiation process of neural stem cells. Glycoconjugate Journal, 2017, 34, 757-763.	2.7	12
45	3D structural analysis of protein Oâ€mannosyl kinase, <scp>POMK</scp>, a causative gene product of dystroglycanopathy. Genes To Cells, 2017, 22, 348-359.	1.2	23
46	N-Glycan Modification of a Recombinant Protein via Coexpression of Human Glycosyltransferases in Silkworm Pupae. Scientific Reports, 2017, 7, 1409.	3.3	19
47	Lectin microarray analysis of isolated polysaccharides from Sasa veitchii. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1687-1689.	1.3	1
48	Alteration of a recombinant protein N-glycan structure in silkworms by partial suppression of N-acetylglucosaminidase gene expression. Biotechnology Letters, 2017, 39, 1299-1308.	2.2	2
49	GlcNAc6ST-1 regulates sulfation of N-glycans and myelination in the peripheral nervous system. Scientific Reports, 2017, 7, 42257.	3.3	16
50	Conformational Analysis of a Highâ€Mannoseâ€Type Oligosaccharide Displaying Glucosyl Determinant Recognised by Molecular Chaperones Using NMRâ€Validated Molecular Dynamics Simulation. ChemBioChem, 2017, 18, 396-401.	2.6	26
51	Conformational effects of N-glycan core fucosylation of immunoglobulin G Fc region on its interaction with FcÎ³ receptor IIIa. Scientific Reports, 2017, 7, 13780.	3.3	57
52	Characterization of conformational deformation-coupled interaction between immunoglobulin G1 Fc glycoprotein and a low-affinity FcÎ³ receptor by deuteration-assisted small-angle neutron scattering. Biochemistry and Biophysics Reports, 2017, 12, 1-4.	1.3	12
53	Two-step process for disassembly mechanism of proteasome Î±7 homo-tetradecamer by Î±6 revealed by high-speed atomic force microscopy. Scientific Reports, 2017, 7, 15373.	3.3	14
54	NMR Detection of Semi-Specific Antibody Interactions in Serum Environments. Molecules, 2017, 22, 1619.	3.8	13

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55	O-GlcNAc on NOTCH1 EGF repeats regulates ligand-induced Notch signaling and vascular development in mammals. ELife, 2017, 6, .	6.0	82
56	NMR Characterization of the Dynamic Conformations of Oligosaccharides. , 2017, , 1-18.		2
57	Stable Isotope Labeling of Glycoproteins for NMR Study. New Developments in NMR, 2017, , 194-207.	0.1	5
58	Development and Application of Glycosylation-Profiling Techniques for Functional Glycomics in the Nervous System. Trends in Glycoscience and Glycotechnology, 2017, 29, J21-J27.	0.1	0
59	Development and Application of Glycosylation-Profiling Techniques for Functional Glycomics in the Nervous System. Trends in Glycoscience and Glycotechnology, 2017, 29, E19-E25.	0.1	0
60	Direct Mapping of Additional Modifications on Phosphorylated O-glycans of Î±-Dystroglycan by Mass Spectrometry Analysis in Conjunction with Knocking Out of Causative Genes for Dystroglycanopathy. Molecular and Cellular Proteomics, 2016, 15, 3424-3434.	3.8	25
61	Structural characterization of the circadian clock protein complex composed of KaiB and KaiC by inverse contrast-matching small-angle neutron scattering. Scientific Reports, 2016, 6, 35567.	3.3	24
62	Comparison of analytical methods for profiling N- and O-linked glycans from cultured cell lines. Glycoconjugate Journal, 2016, 33, 405-415.	2.7	25
63	Disassembly of the self-assembled, double-ring structure of proteasome Î±7 homo-tetradecamer by Î±6. Scientific Reports, 2015, 5, 18167.	3.3	23
64	Ectopic clustering of Cajalâ€“Retzius and subplate cells is an initial pathological feature in Pomgnt2-knockout mice, a model of dystroglycanopathy. Scientific Reports, 2015, 5, 11163.	3.3	18
65	Importance of the Side Chain at Position 296 of Antibody Fc in Interactions with FcÎ³RIIIa and Other FcÎ³ Receptors. PLoS ONE, 2015, 10, e0140120.	2.5	25
66	Impaired O-Linked N-Acetylglucosaminylation in the Endoplasmic Reticulum by Mutated Epidermal Growth Factor (EGF) Domain-specific O-Linked N-Acetylglucosamine Transferase Found in Adams-Oliver Syndrome. Journal of Biological Chemistry, 2015, 290, 2137-2149.	3.4	35
67	Glycan structure and serum half-life of recombinant CTLA4Ig, an immunosuppressive agent, expressed in suspension-cultured rice cells with coexpression of human Î²1,4-galactosyltransferase and human CTLA4Ig. Glycoconjugate Journal, 2015, 32, 161-172.	2.7	8
68	Stable isotope labeling of glycoprotein expressed in silkworms using immunoglobulin G as a test molecule. Journal of Biomolecular NMR, 2015, 62, 157-167.	2.8	13
69	NMR-based structural validation of therapeutic antibody produced in Nicotiana benthamiana. Plant Cell Reports, 2015, 34, 959-968.	5.6	13
70	Backbone 1H, 13C, and 15N resonance assignments of the Fc fragment of human immunoglobulin G glycoprotein. Biomolecular NMR Assignments, 2015, 9, 257-260.	0.8	38
71	Structural Heterogeneity of Glycoform of Alpha-1 Acid Glycoprotein in Alcoholic Cirrhosis Patients. Advances in Experimental Medicine and Biology, 2015, 842, 389-401.	1.6	4
72	pH-Dependent Assembly and Segregation of the Coiled-Coil Segments of Yeast Putative Cargo Receptors Emp46p and Emp47p. PLoS ONE, 2015, 10, e0140287.	2.5	7

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73	Conformational characterization of a protein complex involving intrinsically disordered protein by small-angle neutron scattering using the inverse contrast matching method: a case study of interaction between Î±-synuclein and PbaB tetramer as a model chaperone. Journal of Applied Crystallography, 2014, 47, 430-435.	4.5	18
74	Backbone 1H, 13C, and 15N assignments of yeast Ump1, an intrinsically disordered protein that functions as a proteasome assembly chaperone. Biomolecular NMR Assignments, 2014, 8, 383-386.	0.8	16
75	Structural Basis for Proteasome Formation Controlled by an Assembly Chaperone Nas2. Structure, 2014, 22, 731-743.	3.3	23
76	Pba3â€“Pba4 heterodimer acts as a molecular matchmaker in proteasome Î±-ring formation. Biochemical and Biophysical Research Communications, 2014, 450, 1110-1114.	2.1	25
77	Spatial arrangement and functional role of Î± subunits of proteasome activator PA28 in hetero-oligomeric form. Biochemical and Biophysical Research Communications, 2013, 432, 141-145.	2.1	24
78	Self-recognition of high-mannose type glycans mediating adhesion of embryonal fibroblasts. Glycoconjugate Journal, 2013, 30, 485-496.	2.7	3
79	AGO61-dependent GlcNAc modification primes the formation of functional glycans on Î±-dystroglycan. Scientific Reports, 2013, 3, 3288.	3.3	32
80	An Archaeal Homolog of Proteasome Assembly Factor Functions as a Proteasome Activator. PLoS ONE, 2013, 8, e60294.	2.5	19
81	Lewis X-carrying N-Glycans Regulate the Proliferation of Mouse Embryonic Neural Stem Cells via the Notch Signaling Pathway. Journal of Biological Chemistry, 2012, 287, 24356-24364.	3.4	54
82	A nonâ€canonical UBAâ€“UBL interaction forms the linearâ€ubiquitinâ€chain assembly complex. EMBO Reports, 2012, 13, 462-468.	4.5	52
83	Backbone and side chain 1H, 13C, and 15N assignments of the ubiquitin-like domain of human HOIL-1L, an essential component of linear ubiquitin chain assembly complex. Biomolecular NMR Assignments, 2012, 6, 177-180.	0.8	7
84	Comparative Analyses of N-Glycosylation Profiles of Influenza A Viruses Grown in Different Host Cells. Open Glycoscience, 2012, 5, 2-12.	0.4	9
85	Bovine Milk Whey for Preparation of Natural N-glycans: Structural and Quantitative Analysis. Open Glycoscience, 2012, 5, 41-50.	0.4	13
86	Kinetic Asymmetry of Subunit Exchange of Homooligomeric Protein as Revealed by Deuteration-Assisted Small-Angle Neutron Scattering. Biophysical Journal, 2011, 101, 2037-2042.	0.5	20
87	Crystal structures of human secretory proteins ZG16p and ZG16b reveal a Jacalin-related Î²-prism fold. Biochemical and Biophysical Research Communications, 2011, 404, 201-205.	2.1	42
88	The functional significance of the N-glycans in the differentiation of neural stem cells. Neuroscience Research, 2011, 71, e45.	1.9	0
89	Development and Application of Multidimensional HPLC Mapping Method for O-linked Oligosaccharides. Biomolecules, 2011, 1, 48-62.	4.0	5
90	N-Glycans from Porcine Trachea and Lung: Predominant NeuAcÎ±2-6Gal Could Be a Selective Pressure for Influenza Variants in Favor of Human-Type Receptor. PLoS ONE, 2011, 6, e16302.	2.5	50

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91	Structural and Molecular Basis of Carbohydrate-Protein Interaction Systems as Potential Therapeutic Targets. Current Pharmaceutical Design, 2011, 17, 1672-1684.	1.9	43
92	Structural basis for improved efficacy of therapeutic antibodies on defucosylation of their Fc glycans. Genes To Cells, 2011, 16, 1071-1080.	1.2	213
93	Improved secretion of molecular chaperoneâ€assisted human IgG in silkworm, and no alterations in their Nâ€linked glycan structures. Biotechnology Progress, 2010, 26, 232-238.	2.6	14
94	N-Glycosylation profiling of turtle egg yolk: expression of galabiose structure. Carbohydrate Research, 2010, 345, 442-448.	2.3	11
95	Comparison of Methods for Profiling O-Glycosylation. Molecular and Cellular Proteomics, 2010, 9, 719-727.	3.8	136
96	Alterations in receptor-binding properties of swine influenza viruses of the H1 subtype after isolation in embryonated chicken eggs. Journal of General Virology, 2010, 91, 938-948.	2.9	43
97	HNK-1 Epitope-carrying Tenascin-C Spliced Variant Regulates the Proliferation of Mouse Embryonic Neural Stem Cells. Journal of Biological Chemistry, 2010, 285, 37293-37301.	3.4	58
98	Involvement of Î²1-Integrin Up-regulation in Basic Fibroblast Growth Factor- and Epidermal Growth Factor-induced Proliferation of Mouse Neuroepithelial Cells. Journal of Biological Chemistry, 2010, 285, 18443-18451.	3.4	29
99	Lysosome-associated membrane protein 1 is a major SSEA-1-carrier protein in mouse neural stem cells. Glycobiology, 2010, 20, 976-981.	2.5	24
100	Glycomic Analyses of Glycoproteins in Bile and Serum during Rat Hepatocarcinogenesis. Journal of Proteome Research, 2010, 9, 4888-4896.	3.7	29
101	NMR characterization of intramolecular interaction of osteopontin, an intrinsically disordered protein with cryptic integrin-binding motifs. Biochemical and Biophysical Research Communications, 2010, 393, 487-491.	2.1	19
102	Multidimensional HPLC mapping method for the structural analysis of anionic N-glycans. Trends in Glycoscience and Glycotechnology, 2009, 21, 95-104.	0.1	8
103	Câ€terminal regionâ€dependent change of antibodyâ€binding to the Eighth Reelin repeat reflects the signaling activity of Reelin. Journal of Neuroscience Research, 2009, 87, 3043-3053.	2.9	20
104	Analysis of N-glycans in embryonated chicken egg chorioallantoic and amniotic cells responsible for binding and adaptation of human and avian influenza viruses. Glycoconjugate Journal, 2009, 26, 433-443.	2.7	44
105	Human IgG1 expression in silkworm larval hemolymph using BmNPV bacmids and its N-linked glycan structure. Journal of Biotechnology, 2009, 139, 108-114.	3.8	26
106	Comparison of the N-linked glycosylation of human Î²1,3-N-acetylglucosaminyltransferase 2 expressed in insect cells and silkworm larvae. Journal of Biotechnology, 2009, 143, 27-33.	3.8	29
107	Silkworm expression and sugar profiling of human immune cell surface receptor, KIR2DL1. Biochemical and Biophysical Research Communications, 2009, 387, 575-580.	2.1	14
108	Synthesis of sialoglycopolypeptide for potentially blocking influenza virus infection using a rat Î±2,6-sialyltransferase expressed in BmNPV bacmid-injected silkworm larvae. BMC Biotechnology, 2009, 9, 54.	3.3	17

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109	The expression of sialylated high-antennary N-glycans in edible birdâ€™s nest. Carbohydrate Research, 2008, 343, 1373-1377.	2.3	47
110	Structure of the putative 32â€ƒkDa myrosinaseâ€binding protein from Arabidopsis (At3g16450.1) determined by SAILâ€NMR. FEBS Journal, 2008, 275, 5873-5884.	4.7	28
111	Release of N-glycans by Enzymatic Methods. , 2008, , 7-11.		5
112	Development and Application of High Performance Liquid Chromatography Map of Glucuronyl N-glycans. Open Glycoscience, 2008, 1, 8-18.	0.4	8
113	Neural complex-specific expression of xylosyl N-glycan in Ciona intestinalis. Glycobiology, 2007, 18, 145-151.	2.5	17
114	The quail and chicken intestine have sialyl-galactose sugar chains responsible for the binding of influenza A viruses to human type receptors. Glycobiology, 2007, 17, 713-724.	2.5	88
115	IgEb immune complexes activate macrophages through FcÎ³RIV binding. Nature Immunology, 2007, 8, 762-771.	14.5	106
116	GlycoWord: Retrospects for Future Prospects. Trends in Glycoscience and Glycotechnology, 2007, 19, 211-224.	0.1	0
117	Glycoform-dependent conformational alteration of the Fc region of human immunoglobulin G1 as revealed by NMR spectroscopy. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 693-700.	2.4	180
118	Interaction of N-linked glycans, having multivalent GlcNAc termini, with GM3 ganglioside. Glycoconjugate Journal, 2006, 23, 639-649.	2.7	33
119	Edible bird's nest extract inhibits influenza virus infection. Antiviral Research, 2006, 70, 140-146.	4.1	130
120	Glycobiological study of adult Opisthorchis viverrini: Characterization of N-linked oligosaccharides. Molecular and Biochemical Parasitology, 2006, 147, 230-233.	1.1	4
121	Development of structural analysis of sulfated N-glycans by multidimensional high performance liquid chromatography mapping methods. Glycobiology, 2005, 15, 1051-1060.	2.5	64
122	Temperature-dependent isologous Fabâ€“Fab interaction that mediates cryocrystallization of a monoclonal immunoglobulin G. Molecular Immunology, 2004, 41, 1211-1215.	2.2	20