

Hiroyuki Kaji

List of Publications by Year in descending order

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78
papers

3,028
citations

186265

28
h-index

168389

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81
all docs

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docs citations

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times ranked

3333
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Host-Dependent Producibility of Recombinant <i>Cypridina noctiluca</i> Luciferase With Glycosylation Defects. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 774786.	4.1	2
4	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
5	<i>N</i> -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
6	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
7	The GlyCosmos Portal: a unified and comprehensive web resource for the glycosciences. <i>Nature Methods</i> , 2020, 17, 649-650.	19.0	71
8	Lectin Bead Array in a Single Tip Facilitates Fully Automatic Glycoprotein Profiling. <i>Analytical Chemistry</i> , 2019, 91, 11162-11169.	6.5	6
9	<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
10	Potential involvement of OX40 in the regulation of autoantibody sialylation in arthritis. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 1488-1496.	0.9	21
11	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
12	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
13	Structural Analysis of Glycans (Analytical and Detection Methods). , 2019, , 3-33.		2
14	Identification of Poly- <i>N</i> -Acetyllactosamine-Carrying Glycoproteins from HL-60 Human Promyelocytic Leukemia Cells Using a Site-Specific Glycome Analysis Method, Glyco-RIDGE. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1138-1152.	2.8	19
15	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
16	Current Technologies for Complex Glycoproteomics and Their Applications to Biology/Disease-Driven Glycoproteomics. <i>Journal of Proteome Research</i> , 2018, 17, 4097-4112.	3.7	60
17	Efficient production of glycosylated <i>Cypridina luciferase</i> using plant cells. <i>Protein Expression and Purification</i> , 2017, 133, 102-109.	1.3	13
18	A standardized method for lectin microarray-based tissue glycome mapping. <i>Scientific Reports</i> , 2017, 7, 43560.	3.3	48

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19	GlycoProtDB: A Database of Glycoproteins Mapped with Actual Glycosylation Sites Identified by Mass Spectrometry. , 2017, , 215-224.		6
20	Glycobiomarker, Fucosylated Short-Form Secretogranin III Levels Are Increased in Serum of Patients with Small Cell Lung Carcinoma. Journal of Proteome Research, 2017, 16, 4495-4505.	3.7	16
21	Engineering of recombinant Wisteria floribunda agglutinin specifically binding to GalNAc ² 1,4GlcNAc (LacdiNAc). Glycobiology, 2017, 27, 743-754.	2.5	34
22	Identification of PNGase-dependent ERAD substrates in <i>Saccharomyces cerevisiae</i> . Biochemical Journal, 2016, 473, 3001-3012.	3.7	19
23	Identification and characterization of sulfated glycoproteins from small cell lung carcinoma cells assisted by management of molecular charges. Glycoconjugate Journal, 2016, 33, 917-926.	2.7	5
24	Comparison of analytical methods for profiling N- and O-linked glycans from cultured cell lines. Glycoconjugate Journal, 2016, 33, 405-415.	2.7	25
25	Large-scale identification of secretome glycoproteins recognized by <i>Wisteria floribunda</i> agglutinin: A glycoproteomic approach to biomarker discovery. Proteomics, 2015, 15, 2921-2933.	2.2	18
26	Large-Scale Identification of N-Glycan Glycoproteins Carrying Lewis x and Site-Specific N-Glycan Alterations in Fut9 Knockout Mice. Journal of Proteome Research, 2015, 14, 3823-3834.	3.7	34
27	Methods for Large-Scale Glycosylation Site Mapping Glycosylation site mapping of N-Glycoproteins. , 2015, , 87-93.		0
28	Glycoproteomics Approach for Identifying Glycobiomarker Candidate Molecules for Tissue Type Classification of Non-small Cell Lung Carcinoma. Journal of Proteome Research, 2014, 13, 4705-4716.	3.7	32
29	Novel Glycobiomarker for Ovarian Cancer That Detects Clear Cell Carcinoma. Journal of Proteome Research, 2014, 13, 1624-1635.	3.7	34
30	Application of a Glycoproteomics-Based Biomarker Development Method: Alteration in Glycan Structure on Colony Stimulating Factor 1 Receptor as a Possible Glycobiomarker Candidate for Evaluation of Liver Cirrhosis. Journal of Proteome Research, 2014, 13, 1428-1437.	3.7	31
31	IgA Nephropathy Caused by Unusual Polymerization of IgA1 with Aberrant N-Glycosylation in a Patient with Monoclonal Immunoglobulin Deposition Disease. PLoS ONE, 2014, 9, e91079.	2.5	16
32	Methods for Large-Scale Glycosylation Site Mapping of N-Glycoproteins. , 2014, , 1-7.		0
33	Glycoproteomic Discovery of Serological Biomarker Candidates for HCV/HBV Infection-Associated Liver Fibrosis and Hepatocellular Carcinoma. Journal of Proteome Research, 2013, 12, 2630-2640.	3.7	52
34	Stable Isotope Labeling of N-Glycosylated Peptides by Enzymatic Deglycosylation for Mass Spectrometry-Based Glycoproteomics. Methods in Molecular Biology, 2013, 951, 217-227.	0.9	11
35	A chemoenzymatic approach toward the identification of fucosylated glycoproteins and mapping of N-glycan sites. Glycobiology, 2012, 22, 630-637.	2.5	14
36	Large-scale identification of target proteins of a glycosyltransferase isozyme by Lectin-IGOT-LC/MS, an LC/MS-based glycoproteomic approach. Scientific Reports, 2012, 2, 680.	3.3	22

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37	Large-scale Identification of N-Glycosylated Proteins of Mouse Tissues and Construction of a Glycoprotein Database, GlycoProtDB. <i>Journal of Proteome Research</i> , 2012, 11, 4553-4566.	3.7	77
38	A unique N-glycan on human transferrin in CSF: a possible biomarker for iNPH. <i>Neurobiology of Aging</i> , 2012, 33, 1807-1815.	3.1	62
39	Enhancement of metastatic ability by ectopic expression of ST6GalNAcI on a gastric cancer cell line in a mouse model. <i>Clinical and Experimental Metastasis</i> , 2012, 29, 229-238.	3.3	62
40	A strategy for discovery of cancer glyco-biomarkers in serum using newly developed technologies for glycoproteomics. <i>FEBS Journal</i> , 2010, 277, 95-105.	4.7	158
41	Liquid Chromatography/Mass Spectrometry (LC/MS)-Based Glycoproteomics Technologies for Cancer Biomarker Discovery. <i>Clinical Proteomics</i> , 2008, 4, 14-24.	2.1	6
42	A Method for Large-Scale Analysis for N-linked Glycoproteins by the Glycosylation Site-Specific Stable Isotope-Labeling and LC/MS Shotgun Technology. , 2008, , 94-97.		0
43	Proteomics Reveals N-Linked Glycoprotein Diversity in <i>Caenorhabditis elegans</i> and Suggests an Atypical Translocation Mechanism for Integral Membrane Proteins. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 2100-2109.	3.8	97
44	Large-Scale Analysis of Glycoproteins by LC-MS Method. <i>Trends in Glycoscience and Glycotechnology</i> , 2006, 18, 313-322.	0.1	5
45	Mass spectrometric identification of N-linked glycopeptides using lectin-mediated affinity capture and glycosylation site-specific stable isotope tagging. <i>Nature Protocols</i> , 2006, 1, 3019-3027.	12.0	155
46	Processing of Amyloid β -Peptides by Neutral Cysteine Protease Bleomycin Hydrolase. <i>Protein and Peptide Letters</i> , 2006, 13, 119-123.	0.9	24
47	STEM: A Software Tool for Large-Scale Proteomic Data Analyses. <i>Journal of Proteome Research</i> , 2005, 4, 1826-1831.	3.7	59
48	Only a Small Subset of the Horizontally Transferred Chromosomal Genes in <i>Escherichia coli</i> Are Translated into Proteins. <i>Molecular and Cellular Proteomics</i> , 2004, 3, 780-787.	3.8	75
49	Protein database of <i>Caenorhabditis elegans</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 787, 91-99.	2.3	7
50	Lectin affinity capture, isotope-coded tagging and mass spectrometry to identify N-linked glycoproteins. <i>Nature Biotechnology</i> , 2003, 21, 667-672.	17.5	637
51	Large-Scale Identification of <i>Caenorhabditis elegans</i> Proteins by Multidimensional Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2003, 2, 23-35.	3.7	118
52	Proteomics: Advanced Technology for the Analysis of Cellular Function. <i>Journal of Nutrition</i> , 2003, 133, 2090S-2096S.	2.9	20
53	Tubulin Seeds \pm Synuclein Fibril Formation. <i>Journal of Biological Chemistry</i> , 2002, 277, 2112-2117.	3.4	177
54	Affinity Capturing and Gene Assignment of Soluble Glycoproteins Produced by the Nematode <i>Caenorhabditis elegans</i> . <i>Journal of Biochemistry</i> , 2002, 132, 103-114.	1.7	66

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55	Limited proteolysis of NACP/ β -synuclein. Journal of Alzheimer's Disease, 2001, 3, 577-584.	2.6	35
56	In vitro Generation of Amyloid β 2A4 Peptide from Amyloid Protein Precursor Through Nonspecific Proteolysis. Pakistan Journal of Biological Sciences, 2001, 4, 289-292.	0.5	0
57	Profiling of <i>Caenorhabditis elegans</i> proteins using two-dimensional gel electrophoresis and matrix assisted laser desorption/ionization-time of flight-mass spectrometry. Electrophoresis, 2000, 21, 1755-1765.	2.4	55
58	Structural comparison between wild-type and P25S human cystatin A by NMR spectroscopy. Does this mutation affect the alpha-helix conformation?. Journal of Structural and Functional Genomics, 2000, 1, 26-42.	1.2	7
59	In vitro processing of amyloid precursor protein by cathepsin D. International Journal of Biochemistry and Cell Biology, 1999, 31, 1327-1337.	2.8	37
60	Molecular Cloning, Enhancement of Expression Efficiency and Site-Directed Mutagenesis of Rat Epidermal Cystatin A. Journal of Biochemistry, 1999, 126, 769-775.	1.7	1
61	Primary Structure, Expression, and Site-Directed Mutagenesis of Inorganic Pyrophosphatase from <i>Bacillus stearothermophilus</i> . Journal of Biochemistry, 1999, 125, 48-57.	1.7	3
62	A New UV Method for Serum β -Glutamyltransferase Assay Using Recombinant 4-Aminobenzoate Hydroxylase as a Coupling Enzyme. Journal of Biochemistry, 1999, 126, 347-353.	1.7	4
63	Molecular Cloning, Expression, and Site-Directed Mutagenesis of Inorganic Pyrophosphatase from <i>Thermus thermophilus</i> HB8. Journal of Biochemistry, 1998, 124, 79-88.	1.7	18
64	Overexpression in <i>Escherichia coli</i> of Chemically Synthesized Gene for Active 0.19 \AA -Amylase Inhibitor from Wheat Kernel1. Journal of Biochemistry, 1997, 122, 918-926.	1.7	7
65	Significance of the Highly Conserved Gly-4 Residue in Human Cystatin A1. Journal of Biochemistry, 1995, 118, 635-642.	1.7	14
66	Identification of the Site of Interaction of the 14-3-3 Protein with Phosphorylated Tryptophan Hydroxylase. Journal of Biological Chemistry, 1995, 270, 28515-28518.	3.4	86
67	Solution structure of a human cystatin A variant, cystatin A2-98 M65L by NMR spectroscopy. A possible role of the interactions between the N- and C-termini to maintain the inhibitory active form of cystatin A. Biochemistry, 1995, 34, 14637-14648.	2.5	43
68	Human Cystatin A Is Inactivated by Engineered Truncation. The NH2-Terminal Region of the Cysteine Proteinase Inhibitor Is Essential for Expression of Its Inhibitory Activity. Biochemistry, 1995, 34, 12185-12192.	2.5	24
69	Reaction of 2-Deoxy-2-C-(3-bromoacetoxypopyl)- β -D-arabinofuranosides with Oligonucleotide ¹ . Nucleosides & Nucleotides, 1994, 13, 2081-2104.	0.5	1
70	Conformation of bilirubin oxidase in native and denatured states. The Protein Journal, 1994, 13, 307-313.	1.1	9
71	Crystal structure of inorganic pyrophosphatase from <i>Thermus thermophilus</i> . Protein Science, 1994, 3, 1098-1107.	7.6	72
72	Ostrich crystallins. Structural characterization of β -crystallin with enzymic activity. Biochemical Journal, 1991, 273, 295-300.	3.7	29

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73	Comparison of the \hat{I}^3 -crystallins isolated from eye lenses of shark and carp Unique secondary and tertiary structure of shark \hat{I}^3 -crystallin. FEBS Letters, 1990, 275, 111-113.	2.8	12
74	Studies on Chemical Synthesis of Human Cystatin A Gene and Its Expression in Escherichia coli. Journal of Biochemistry, 1989, 105, 143-147.	1.7	15
75	Characterization of Copper Atoms in Bilirubin Oxidase by Spectroscopic Analyses. Journal of Biochemistry, 1989, 106, 621-626.	1.7	19
76	Comparative Studies on the Primary Structure of Human Cystatin As from Epidermis, Liver, Spleen, and Leukocytes1. Journal of Biochemistry, 1989, 105, 986-991.	1.7	14
77	Chemical Modifications of Histidyl and Tyrosyl Residues of Inorganic Pyrophosphatase from Escherichia coli. Journal of Biochemistry, 1988, 103, 766-772.	1.7	14
78	Conformational Changes of Papain Induced on Interaction with Thiol Proteinase Inhibitors from Newborn Rat Epidermis. Journal of Biochemistry, 1986, 99, 785-791.	1.7	4