

Yasuro Shinohara

List of Publications by Year in descending order

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72
papers

3,343
citations

136950

32
h-index

149698

56
g-index

73
all docs

73
docs citations

73
times ranked

4180
citing authors

#	ARTICLE	IF	CITATIONS
1	Decreased Amyloid- β Pathologies by Intracerebral Loading of Glycosphingolipid-enriched Exosomes in Alzheimer Model Mice. <i>Journal of Biological Chemistry</i> , 2014, 289, 24488-24498.	3.4	260
2	A potential function for neuronal exosomes: Sequestering intracerebral amyloid- β peptide. <i>FEBS Letters</i> , 2015, 589, 84-88.	2.8	204
3	Identification of a Post-translational Modification with Ribitol-Phosphate and Its Defect in Muscular Dystrophy. <i>Cell Reports</i> , 2016, 14, 2209-2223.	6.4	180
4	Comprehensive Approach to Structural and Functional Glycomics Based on Chemoselective Glycoblotting and Sequential Tag Conversion. <i>Analytical Chemistry</i> , 2008, 80, 1094-1101.	6.5	136
5	Total cellular glycomics allows characterizing cells and streamlining the discovery process for cellular biomarkers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2105-2110.	7.1	130
6	Rapid and Simple Solid-Phase Esterification of Sialic Acid Residues for Quantitative Glycomics by Mass Spectrometry. <i>Chemistry - A European Journal</i> , 2007, 13, 4797-4804.	3.3	115
7	Glycosylation status of haptoglobin in sera of patients with prostate cancer vs. benign prostate disease or normal subjects. <i>International Journal of Cancer</i> , 2008, 122, 39-49.	5.1	111
8	High Throughput Quantitative Glycomics and Glycoform-focused Proteomics of Murine Dermis and Epidermis. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1977-1989.	3.8	107
9	Quantitative Glycomics of Human Whole Serum Glycoproteins Based on the Standardized Protocol for Liberating N-Glycans. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 1437-1445.	3.8	105
10	Kinetic measurement of the interaction between an oligosaccharide and lectins by a biosensor based on surface plasmon resonance. <i>FEBS Journal</i> , 1994, 223, 189-194.	0.2	102
11	Sialic Acid-focused Quantitative Mouse Serum Glycoproteomics by Multiple Reaction Monitoring Assay. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 2354-2368.	3.8	81
12	Crucial Role of Aspartic Acid at Position 265 in the CH2 Domain for Murine IgG2a and IgG2b Fc-Associated Effector Functions. <i>Journal of Immunology</i> , 2008, 181, 6664-6669.	0.8	79
13	Glycoblotting-Assisted O-Glycomics: Ammonium Carbamate Allows for Highly Efficient O-Glycan Release from Glycoproteins. <i>Analytical Chemistry</i> , 2010, 82, 10021-10029.	6.5	79
14	BlotGlycoABC ₂ , an Integrated Glycoblotting Technique for Rapid and Large Scale Clinical Glycomics. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 370-377.	3.8	77
15	Regulation of Protein Binding toward a Ligand on Chromatographic Matrixes by Masking and Forced-Releasing Effects Using Thermoresponsive Polymer. <i>Analytical Chemistry</i> , 2002, 74, 4160-4166.	6.5	75
16	Elucidation of the mechanism enhancing the avidity of lectin with oligosaccharides on the solid phase surface. <i>Glycobiology</i> , 1997, 7, 1201-1208.	2.5	72
17	One-Pot Solid-Phase Glycoblotting and Probing by Transoximization for High-Throughput Glycomics and Glycoproteomics. <i>Chemistry - A European Journal</i> , 2007, 13, 1664-1673.	3.3	60
18	Alteration of the N-glycome of bovine milk glycoproteins during early lactation. <i>FEBS Journal</i> , 2011, 278, 3769-3781.	4.7	60

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19	Simultaneous Analysis of Heparan Sulfate, Chondroitin/Dermatan Sulfates, and Hyaluronan Disaccharides by Glycoblotting-Assisted Sample Preparation Followed by Single-Step Zwitter-Ionic-Hydrophilic Interaction Chromatography. <i>Analytical Chemistry</i> , 2011, 83, 9443-9449.	6.5	59
20	Bifunctional Labeling Reagent for Oligosaccharides To Incorporate Both Chromophore and Biotin Groups. <i>Analytical Chemistry</i> , 1996, 68, 2573-2579.	6.5	58
21	Affinity Chromatography with Collapsibly Tethered Ligands. <i>Analytical Chemistry</i> , 2003, 75, 1658-1663.	6.5	56
22	Threshold in Stage-specific Embryonic Glycotypes Uncovered by a Full Portrait of Dynamic N-Glycan Expression during Cell Differentiation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 523-537.	3.8	53
23	Direct N-Glycan Profiling in the Presence of Tryptic Peptides on MALDI-TOF by Controlled Ion Enhancement and Suppression upon Glycan-Selective Derivatization. <i>Analytical Chemistry</i> , 2004, 76, 6989-6997.	6.5	52
24	A Versatile Planar QCM-Based Sensor Design for Nonlabeling Biomolecule Detection. <i>Analytical Chemistry</i> , 2002, 74, 3592-3598.	6.5	51
25	A Versatile Method for Analysis of Serine/Threonine Posttranslational Modifications by \hat{I}^2 -Elimination in the Presence of Pyrazolone Analogues. <i>Analytical Chemistry</i> , 2011, 83, 9060-9067.	6.5	48
26	The High Specificities of Phaseolus vulgaris Erythro- and Leukoagglutinating Lectins for Bisecting GlcNAc or \hat{I}^2 6-Linked Branch Structures, Respectively, Are Attributable to Loop B. <i>Journal of Biological Chemistry</i> , 2002, 277, 16928-16935.	3.4	43
27	Detection of Oligosaccharides Labeled with Cyanine Dyes Using Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 4537-4542.	6.5	43
28	Qualitative and Quantitative Cellular Glycomics of Glycosphingolipids Based on Rhodococcal Endoglycosylceramidase-assisted Glycan Cleavage, Glycoblotting-assisted Sample Preparation, and Matrix-assisted Laser Desorption Ionization Tandem Time-of-flight Mass Spectrometry Analysis*. <i>Journal of Biological Chemistry</i> , 2011, 286, 41669-41679.	3.4	40
29	Rapid method for detection of point mutations using mismatch binding protein (MutS) and an optical biosensor. <i>Genetic Analysis, Techniques and Applications</i> , 1997, 14, 47-50.	1.5	38
30	The rice RCN11 gene encodes \hat{I}^2 1,2-xylosyltransferase and is required for plant responses to abiotic stresses and phytohormones. <i>Plant Science</i> , 2015, 236, 75-88.	3.6	38
31	An Efficient Approach to the Discovery of Potent Inhibitors against Glycosyltransferases. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 5607-5619.	6.4	37
32	Ganglioside GM3 Has an Essential Role in the Pathogenesis and Progression of Rheumatoid Arthritis. <i>PLoS ONE</i> , 2012, 7, e40136.	2.5	34
33	Versatile Glycoblotting Nanoparticles for High-Throughput Protein Glycomics. <i>Chemistry - A European Journal</i> , 2005, 11, 3825-3834.	3.3	33
34	Glycosylation status of serum immunoglobulin G in patients with prostate diseases. <i>Cancer Medicine</i> , 2016, 5, 1137-1146.	2.8	33
35	Sialylation Determines the Nephritogenicity of IgG3 Cryoglobulins. <i>Journal of the American Society of Nephrology: JASN</i> , 2012, 23, 1869-1878.	6.1	30
36	Quantitative analysis of total serum glycome in human and mouse. <i>Proteomics</i> , 2016, 16, 2747-2758.	2.2	30

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37	Recent Advances in Cellular Glycomic Analyses. <i>Biomolecules</i> , 2013, 3, 198-225.	4.0	29
38	Comparison of hippocampal synaptosome proteins in young-adult and aged rats. <i>Neuroscience Letters</i> , 2005, 382, 22-26.	2.1	28
39	Detection of Carcinoembryonic Antigens Using a Surface Plasmon Resonance Biosensor. <i>Sensors</i> , 2008, 8, 4282-4295.	3.8	28
40	Interruption of glycosphingolipid synthesis enhances osteoarthritis development in mice. <i>Arthritis and Rheumatism</i> , 2012, 64, 2579-2588.	6.7	28
41	Comprehensive Glycomics of a Multistep Human Brain Tumor Model Reveals Specific Glycosylation Patterns Related to Malignancy. <i>PLoS ONE</i> , 2015, 10, e0128300.	2.5	28
42	Quantitative O-Glycomics by Microwave-Assisted \hat{I}^2 -Elimination in the Presence of Pyrazolone Analogues. <i>Analytical Chemistry</i> , 2015, 87, 7524-7528.	6.5	28
43	Impact of a Three Amino Acid Deletion in the CH2 Domain of Murine IgG1 on Fc-Associated Effector Functions. <i>Journal of Immunology</i> , 2008, 181, 4107-4112.	0.8	27
44	Quantitative GSL-glycome analysis of human whole serum based on an EGCase digestion and glycoblotting method. <i>Journal of Lipid Research</i> , 2015, 56, 2399-2407.	4.2	25
45	Glycosylation Specific for Adhesion Molecules in Epidermis and Its Receptor Revealed by Glycoform-focused Reverse Genomics. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 232-244.	3.8	23
46	Lack of Galactosylation Enhances the Pathogenic Activity of IgG1 but Not IgG2a Anti-Erythrocyte Autoantibodies. <i>Journal of Immunology</i> , 2014, 192, 581-588.	0.8	23
47	Chronotoxicity of bromobenzene-induced hepatic injury in mice. <i>Journal of Toxicological Sciences</i> , 2017, 42, 251-258.	1.5	21
48	Tri-antennary tri-sialylated mono-fucosylated glycan of alpha-1 antitrypsin as a non-invasive biomarker for non-alcoholic steatohepatitis: a novel glycobiomarker for non-alcoholic steatohepatitis. <i>Scientific Reports</i> , 2020, 10, 321.	3.3	21
49	Galactosylation of IgG1 modulates Fc \hat{I}^3 R1IB-mediated inhibition of \hat{A} murine autoimmune hemolytic anemia. <i>Journal of Autoimmunity</i> , 2013, 47, 104-110.	6.5	20
50	A Critical Domain of Ebolavirus Envelope Glycoprotein Determines Glycoform and Infectivity. <i>Scientific Reports</i> , 2018, 8, 5495.	3.3	19
51	Structure-based discovery of a new affinity ligand to pancreatic \hat{I}^{\pm} -amylase. <i>Journal of Molecular Recognition</i> , 2003, 16, 396-405.	2.1	17
52	Rational design, synthesis, and verification of affinity ligands to a protein surface cleft. <i>Protein Science</i> , 2003, 12, 784-793.	7.6	15
53	Glycomics of human embryonic stem cells and human induced pluripotent stem cells. <i>Glycoconjugate Journal</i> , 2017, 34, 807-815.	2.7	13
54	Lectin-Carbohydrate Interactions: Fine Specificity Difference Between Two Mannose-Binding Proteins. <i>Bioscience Reports</i> , 1999, 19, 283-292.	2.4	12

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55	Quantifying Protein-Specific N-Glycome Profiles by Focused Protein and Immunoprecipitation Glycomics. <i>Journal of Proteome Research</i> , 2019, 18, 3133-3141.	3.7	12
56	Altered gene expression of glycosyltransferases and sialyltransferases and total amount of glycosphingolipids following herpes simplex virus infection. <i>Carbohydrate Research</i> , 2016, 434, 37-43.	2.3	11
57	Glycomics of human embryonic stem cells and human induced pluripotent stem cells. <i>Glycoconjugate Journal</i> , 2016, 33, 707-715.	2.7	11
58	Alterations in the glycoform of cisplatin-resistant human carcinoma cells are caused by defects in the endoplasmic reticulum-associated degradation system. <i>Cancer Letters</i> , 2008, 270, 295-301.	7.2	10
59	Impact of the Niemann-Pick c1 Gene Mutation on the Total Cellular Glycomics of CHO Cells. <i>Journal of Proteome Research</i> , 2017, 16, 2802-2810.	3.7	10
60	Sialic acid-dependent attachment of mucins from three mouse strains to <i>Entamoeba histolytica</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013, 436, 252-258.	2.1	9
61	Surface Plasmon Resonance as a Tool to Characterize Lectin-Carbohydrate Interactions. <i>Methods in Molecular Biology</i> , 2014, 1200, 185-205.	0.9	9
62	Quantitative Lectin-Carbohydrate Interaction Analysis on Solid-Phase Surfaces Using Biosensor Based on Surface Plasmon Resonance. <i>Methods in Enzymology</i> , 2003, 362, 330-340.	1.0	8
63	Lethal chronotoxicity induced by seven metal compounds in mice. <i>Journal of Toxicological Sciences</i> , 2018, 43, 129-134.	1.5	7
64	Mucin-type <i>O</i> -glycosylation controls pluripotency in mouse embryonic stem cells via Wnt receptor endocytosis. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	6
65	Toolbox Accelerating Glycomics (TAG): Glycan Annotation from MALDI-TOF MS Spectra and Mapping Expression Variation to Biosynthetic Pathways. <i>Biomolecules</i> , 2020, 10, 1383.	4.0	6
66	Different Renal Chronotoxicity of Bromobenzene and Its Intermediate Metabolites in Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2021, 44, 150-153.	1.4	6
67	Identification of unique glycoisoforms of vitamin D-binding protein and haptoglobin as biomarker candidates in hepatocarcinogenesis of STAM mice. <i>Glycoconjugate Journal</i> , 2018, 35, 467-476.	2.7	5
68	POMGNT1 Is Glycosylated by Mucin-Type <i>O</i> -Glycans. <i>Biological and Pharmaceutical Bulletin</i> , 2015, 38, 1389-1394.	1.4	4
69	Analysis of the susceptibility of reducing disaccharides composed of d-glucose to glycation using the Maillard reaction and a novel sensitive method that measures the percentage of the open-ring form. <i>Carbohydrate Research</i> , 2020, 493, 108019.	2.3	4
70	Total Cellular Glycomics: A Glycomic Approach to Describe Cells and Streamline the Discovery Process for Cellular Biomarkers. <i>Trends in Glycoscience and Glycotechnology</i> , 2013, 25, 103-116.	0.1	4
71	Chronotoxicity of Streptomycin-Induced Renal Injury in Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 53-58.	1.4	4
72	Comprehensive Glycomic Approach Reveals Novel Low-Molecular-Weight Blood Group-Specific Glycans in Serum and Cerebrospinal Fluid. <i>Journal of Proteome Research</i> , 2021, 20, 2812-2822.	3.7	3