

Hyun Joo An

List of Publications by Year in descending order

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99
papers

4,880
citations

76326

40
h-index

98798

67
g-index

101
all docs

101
docs citations

101
times ranked

5177
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycomics and disease markers. Current Opinion in Chemical Biology, 2009, 13, 601-607.	6.1	251
2	Determination of N-Glycosylation Sites and Site Heterogeneity in Glycoproteins. Analytical Chemistry, 2003, 75, 5628-5637.	6.5	232
3	Determination of glycosylation sites and site-specific heterogeneity in glycoproteins. Current Opinion in Chemical Biology, 2009, 13, 421-426.	6.1	229
4	Profiling of Glycans in Serum for the Discovery of Potential Biomarkers for Ovarian Cancer. Journal of Proteome Research, 2006, 5, 1626-1635.	3.7	212
5	A Serum Glycomics Approach to Breast Cancer Biomarkers. Molecular and Cellular Proteomics, 2007, 6, 43-55.	3.8	207
6	Exposure of Iron Nanoparticles to <i>Arabidopsis thaliana</i> Enhances Root Elongation by Triggering Cell Wall Loosening. Environmental Science & Technology, 2014, 48, 3477-3485.	10.0	183
7	Comprehensive native glycan profiling with isomer separation and quantitation for the discovery of cancer biomarkers. Analyst, The, 2011, 136, 3663.	3.5	138
8	Profile of native N-linked glycan structures from human serum using high performance liquid chromatography on a microfluidic chip and time-of-flight mass spectrometry. Proteomics, 2009, 9, 1939-1951.	2.2	131
9	Simultaneous and Extensive Site-specific N- and O-Glycosylation Analysis in Protein Mixtures. Journal of Proteome Research, 2011, 10, 2612-2624.	3.7	117
10	Annotation of a Serum N-Glycan Library for Rapid Identification of Structures. Journal of Proteome Research, 2012, 11, 1958-1968.	3.7	112
11	Evolutionary Glycomics: Characterization of Milk Oligosaccharides in Primates. Journal of Proteome Research, 2011, 10, 1548-1557.	3.7	111
12	The development of retrosynthetic glycan libraries to profile and classify the human serum N-linked glycome. Proteomics, 2009, 9, 2986-2994.	2.2	110
13	Site-specific protein glycosylation analysis with glycan isomer differentiation. Analytical and Bioanalytical Chemistry, 2012, 403, 1291-1302.	3.7	104
14	Structure elucidation of native N- and O-linked glycans by tandem mass spectrometry (tutorial). Mass Spectrometry Reviews, 2011, 30, 560-578.	5.4	97
15	Extensive Determination of Glycan Heterogeneity Reveals an Unusual Abundance of High Mannose Glycans in Enriched Plasma Membranes of Human Embryonic Stem Cells. Molecular and Cellular Proteomics, 2012, 11, M111.010660.	3.8	94
16	The prospects of glycanbiomarkers for the diagnosis of diseases. Molecular BioSystems, 2009, 5, 17-20.	2.9	90
17	Glycoprotein Expression in Human Milk during Lactation. Journal of Agricultural and Food Chemistry, 2010, 58, 6440-6448.	5.2	85
18	Integrated GlycoProteome Analyzer (I-GPA) for Automated Identification and Quantitation of Site-Specific N-Glycosylation. Scientific Reports, 2016, 6, 21175.	3.3	81

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19	Isomer-specific chromatographic profiling yields highly sensitive and specific potential N-glycan biomarkers for epithelial ovarian cancer. <i>Journal of Chromatography A</i> , 2013, 1279, 58-67.	3.7	79
20	Glycomic Approach for Potential Biomarkers on Prostate Cancer: Profiling of N-Linked Glycans in Human Sera and pRNS Cell Lines. <i>Disease Markers</i> , 2008, 25, 243-258.	1.3	78
21	Proteomic Analysis of <i>Bifidobacterium longum</i> subsp. <i>infantis</i> Reveals the Metabolic Insight on Consumption of Prebiotics and Host Glycans. <i>PLoS ONE</i> , 2013, 8, e57535.	2.5	74
22	Glycoproteomic Analyses of Ovarian Cancer Cell Lines and Sera from Ovarian Cancer Patients Show Distinct Glycosylation Changes in Individual Proteins. <i>Journal of Proteome Research</i> , 2008, 7, 3776-3788.	3.7	72
23	Automated Assignments of N- and O-Site Specific Glycosylation with Extensive Glycan Heterogeneity of Glycoprotein Mixtures. <i>Analytical Chemistry</i> , 2013, 85, 5666-5675.	6.5	69
24	Spatial and temporal diversity of glycome expression in mammalian brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28743-28753.	7.1	67
25	Human Serum Processing and Analysis Methods for Rapid and Reproducible N-Glycan Mass Profiling. <i>Journal of Proteome Research</i> , 2010, 9, 4952-4959.	3.7	65
26	Disease-Associated Mutations of <i>TREM2</i> Alter the Processing of N-Linked Oligosaccharides in the Golgi Apparatus. <i>Traffic</i> , 2015, 16, 510-518.	2.7	62
27	Interrogation of N-Linked Oligosaccharides Using Infrared Multiphoton Dissociation in FT-ICR Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 4990-4997.	6.5	58
28	Brain somatic mutations in <i>SLC35A2</i> cause intractable epilepsy with aberrant N-glycosylation. <i>Neurology: Genetics</i> , 2018, 4, e294.	1.9	58
29	A New Computer Program (GlycoX) To Determine Simultaneously the Glycosylation Sites and Oligosaccharide Heterogeneity of Glycoproteins. <i>Journal of Proteome Research</i> , 2006, 5, 2800-2808.	3.7	57
30	Application of nano-LC-based glycomics towards biomarker discovery. <i>Bioanalysis</i> , 2011, 3, 2573-2585.	1.5	54
31	Rapid profiling of bovine and human milk gangliosides by matrix-assisted laser desorption/ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011, 305, 138-150.	1.5	53
32	Glycomics Analyses of Tear Fluid for the Diagnostic Detection of Ocular Rosacea. <i>Journal of Proteome Research</i> , 2005, 4, 1981-1987.	3.7	52
33	Proteomic Analysis of Host Cell Protein Dynamics in the Culture Supernatants of Antibody-Producing CHO Cells. <i>Scientific Reports</i> , 2017, 7, 44246.	3.3	52
34	Isomer-Specific LC/MS and LC/MS/MS Profiling of the Mouse Serum N-Glycome Revealing a Number of Novel Sialylated N-Glycans. <i>Analytical Chemistry</i> , 2013, 85, 4636-4643.	6.5	51
35	Modification of Gastric Mucin Oligosaccharide Expression in Rhesus Macaques After Infection With <i>Helicobacter pylori</i> . <i>Gastroenterology</i> , 2009, 137, 1061-1071.e8.	1.3	48
36	Enhanced Detection and Identification of Glycopeptides in Negative Ion Mode Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 9654-9662.	6.5	48

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37	Serum Glycan Signatures of Gastric Cancer. <i>Cancer Prevention Research</i> , 2014, 7, 226-235.	1.5	48
38	Structural Insights into Modulation of Neurexin-Neurologin Trans -synaptic Adhesion by MDGA1/Neurologin-2 Complex. <i>Neuron</i> , 2017, 94, 1121-1131.e6.	8.1	48
39	Differentiation of Cancer Cell Origin and Molecular Subtype by Plasma Membrane N-Glycan Profiling. <i>Journal of Proteome Research</i> , 2014, 13, 961-968.	3.7	45
40	Determination of pathogen-related enzyme action by mass spectrometry analysis of pectin breakdown products of plant cell walls. <i>Analytical Biochemistry</i> , 2005, 338, 71-82.	2.4	44
41	The glycolyzer: Automated glycan annotation software for high performance mass spectrometry and its application to ovarian cancer glycan biomarker discovery. <i>Proteomics</i> , 2012, 12, 2523-2538.	2.2	44
42	Glyco-Analytical Multispecific Proteolysis (Glyco-AMP): A Simple Method for Detailed and Quantitative Glycoproteomic Characterization. <i>Journal of Proteome Research</i> , 2013, 12, 4414-4423.	3.7	42
43	Detecting glycan cancer biomarkers in serum samples using MALDI FT-ICR mass spectrometry data. <i>Bioinformatics</i> , 2009, 25, 251-257.	4.1	38
44	Enzymatic liquefaction of agarose above the solâ€“gel transition temperature using a thermostable endo-type Î²-agarase, Aga16B. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1111-1120.	3.6	38
45	Characterization of Site-Specific <i>N</i>-Glycopeptide Isoforms of Î±1-Acid Glycoprotein from an Interlaboratory Study Using LCâ€“MS/MS. <i>Journal of Proteome Research</i> , 2016, 15, 4146-4164.	3.7	35
46	Analytical platform for glycomic characterization of recombinant erythropoietin biotherapeutics and biosimilars by MS. <i>Bioanalysis</i> , 2013, 5, 545-559.	1.5	34
47	Glycoscience aids in biomarker discovery. <i>BMB Reports</i> , 2012, 45, 323-330.	2.4	33
48	Spatially-Resolved Exploration of the Mouse Brain Glycome by Tissue Glyco-Capture (TGC) and Nano-LC/MS. <i>Analytical Chemistry</i> , 2015, 87, 2869-2877.	6.5	32
49	Restoring Effects of Natural Anti-Oxidant Quercetin on Cellular Senescent Human Dermal Fibroblasts. <i>The American Journal of Chinese Medicine</i> , 2018, 46, 853-873.	3.8	32
50	Type-dependent action modes of TtAA9E and TaAA9A acting on cellulose and differently pretreated lignocellulosic substrates. <i>Biotechnology for Biofuels</i> , 2017, 10, 46.	6.2	30
51	Anti-proliferative effects of ginsenosides extracted from mountain ginseng on lung cancer. <i>Chinese Journal of Integrative Medicine</i> , 2016, 22, 344-352.	1.6	29
52	Improved capillary electrophoretic separation and mass spectrometric detection of oligosaccharides. <i>Journal of Chromatography A</i> , 2003, 1004, 121-129.	3.7	27
53	Degradation of Kidney and Psoas Muscle Proteins as Indicators of Post-Mortem Interval in a Rat Model, with Use of Lateral Flow Technology. <i>PLoS ONE</i> , 2016, 11, e0160557.	2.5	26
54	Enhanced Peptide Mass Fingerprinting through High Mass Accuracy:Â Exclusion of Non-Peptide Signals Based on Residual Mass. <i>Journal of Proteome Research</i> , 2006, 5, 1195-1203.	3.7	25

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55	Proteome analysis of human cerebrospinal fluid as a diagnostic biomarker in patients with meningioma. Medical Science Monitor, 2012, 18, BR450-BR460.	1.1	25
56	Novel Glycosylated VEGF Decoy Receptor Fusion Protein, VEGF-Grab, Efficiently Suppresses Tumor Angiogenesis and Progression. Molecular Cancer Therapeutics, 2015, 14, 470-479.	4.1	24
57	Glycomic profiling of targeted serum haptoglobin for gastric cancer using nano LC/MS and LC/MS/MS. Molecular BioSystems, 2016, 12, 3611-3621.	2.9	24
58	Glycomic Analysis of Tear and Saliva in Ocular Rosacea Patients: The Search for a Biomarker. Ocular Surface, 2012, 10, 184-192.	4.4	23
59	A Novel Glycoside Hydrolase Family 5 β -1,3-1,6-Endoglucanase from <i>Saccharophagus degradans</i> 2-40 and Its Transglycosylase Activity. Applied and Environmental Microbiology, 2016, 82, 4340-4349.	3.1	23
60	Designation of fingerprint glycopeptides for targeted glycoproteomic analysis of serum haptoglobin: insights into gastric cancer biomarker discovery. Analytical and Bioanalytical Chemistry, 2018, 410, 1617-1629.	3.7	23
61	Technologies for glycomic characterization of biopharmaceutical erythropoietins. TrAC - Trends in Analytical Chemistry, 2015, 68, 18-27.	11.4	21
62	Proteomic analysis of host cell protein dynamics in the supernatant of Fc-fusion protein-producing CHO DG44 and DUKX-B11 cell lines in batch and fed-batch cultures. Biotechnology and Bioengineering, 2017, 114, 2267-2278.	3.3	21
63	Direct analysis of aberrant glycosylation on haptoglobin in patients with gastric cancer. Oncotarget, 2017, 8, 11094-11104.	1.8	21
64	Characterization of Novel O-Glycans Isolated from Tear and Saliva of Ocular Rosacea Patients. Journal of Proteome Research, 2013, 12, 1090-1100.	3.7	20
65	Chromosome 11-Centric Human Proteome Analysis of Human Brain Hippocampus Tissue. Journal of Proteome Research, 2013, 12, 97-105.	3.7	20
66	The Alzheimer's Disease-Associated R47H Variant of TREM2 Has an Altered Glycosylation Pattern and Protein Stability. Frontiers in Neuroscience, 2016, 10, 618.	2.8	20
67	Discrimination of the geographic origin of cabbages. Food Control, 2013, 30, 626-630.	5.5	19
68	Collision-Induced Dissociation Tandem Mass Spectrometry for Structural Elucidation of Glycans. , 2009, 534, 133-145.		17
69	Suppression of sialylated by sulfated oligosaccharides in negative MALDI-FTMS. Israel Journal of Chemistry, 2001, 41, 117-128.	2.3	16
70	Analytical detection and characterization of biopharmaceutical glycosylation by MS. Bioanalysis, 2016, 8, 711-727.	1.5	16
71	Quantitative analysis of low-abundance serological proteins with peptide affinity-based enrichment and pseudo-multiple reaction monitoring by hybrid quadrupole time-of-flight mass spectrometry. Analytica Chimica Acta, 2015, 882, 38-48.	5.4	14
72	Identification of Missing Proteins in Human Olfactory Epithelial Tissue by Liquid Chromatography-Tandem Mass Spectrometry. Journal of Proteome Research, 2018, 17, 4320-4324.	3.7	14

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73	Investigations with <i>O</i> -linked protein glycosylations by matrix-assisted laser desorption/ionization Fourier transform ion cyclotron resonance mass spectrometry. Journal of Mass Spectrometry, 2008, 43, 1215-1223.	1.6	13
74	Infrared Multiphoton Dissociation Mass Spectrometry for Structural Elucidation of Oligosaccharides. , 2009, 534, 23-35.		13
75	Efficacy of acidic pretreatment for the saccharification and fermentation of alginate from brown macroalgae. Bioprocess and Biosystems Engineering, 2016, 39, 959-966.	3.4	12
76	Accurate Quantification of <i>N</i> -Glycolylneuraminic Acid in Therapeutic Proteins Using Supramolecular Mass Spectrometry. Journal of the American Chemical Society, 2018, 140, 16528-16534.	13.7	12
77	Proteomic analysis of reproduction proteins involved in litter size from porcine placenta. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1414-1421.	1.3	11
78	Monitoring of post-mortem changes of saliva N-glycosylation by nano LC/MS. Analytical and Bioanalytical Chemistry, 2018, 410, 45-56.	3.7	9
79	Glycosylation of serum haptoglobin as a marker of gastric cancer: an overview for clinicians. Expert Review of Proteomics, 2020, 17, 109-117.	3.0	9
80	Host tp53 mutation induces gut dysbiosis eliciting inflammation through disturbed sialic acid metabolism. Microbiome, 2022, 10, 3.	11.1	9
81	Sensitive and comprehensive analysis of O-glycosylation in biotherapeutics: a case study of novel erythropoiesis stimulating protein. Bioanalysis, 2017, 9, 1373-1383.	1.5	8
82	Investigation of <i>O</i> -glycosylation heterogeneity of recombinant coagulation factor IX using LC-MS/MS. Bioanalysis, 2017, 9, 1361-1372.	1.5	8
83	Multi-paratopic VEGF decoy receptor have superior anti-tumor effects through anti-EGFRs and targeted anti-angiogenic activities. Biomaterials, 2018, 171, 34-45.	11.4	8
84	Inhibition of poly-LacNAc biosynthesis with release of CMP-Neu5Ac feedback inhibition increases the sialylation of recombinant EPO produced in CHO cells. Scientific Reports, 2018, 8, 7273.	3.3	8
85	MS Platform for Erythropoietin Glycome Characterization. Mass Spectrometry Letters, 2015, 6, 53-58.	0.5	8
86	Isotopic composition of throughfall nitrates in suburban forests with different vegetations. Geosciences Journal, 2015, 19, 167-175.	1.2	7
87	Lectin from Sambucus sieboldiana abrogates the anoikis resistance of colon cancer cells conferred by N-acetylglucosaminyltransferase V during hematogenous metastasis. Oncotarget, 2017, 8, 42238-42251.	1.8	7
88	Detection of Aberrant Glycosylation of Serum Haptoglobin for Gastric Cancer Diagnosis Using a Middle-Up-Down Glycoproteome Platform. Journal of Personalized Medicine, 2021, 11, 575.	2.5	6
89	Profiling and semiquantitative analysis of the cell surface proteome in human mesenchymal stem cells. Analytical and Bioanalytical Chemistry, 2013, 405, 5501-5517.	3.7	5
90	Glycosylated proteins preserved over millennia: N-glycan analysis of Tyrolean Iceman, Scythian Princess and Warrior. Scientific Reports, 2014, 4, 4963.	3.3	5

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91	Technologies and strategies for bioanalysis of biopharmaceuticals. <i>Bioanalysis</i> , 2017, 9, 1343-1347.	1.5	5
92	Structural characteristics of sulfated polysaccharides from <i>Sargassum horneri</i> and immune-enhancing activity of polysaccharides combined with lactic acid bacteria. <i>Food and Function</i> , 2022, 13, 8214-8227.	4.6	5
93	Comparative proteomics: assessment of biological variability and dataset comparability. <i>BMC Bioinformatics</i> , 2015, 16, 121.	2.6	4
94	Expression, glycosylation, and function of an anti-rabies virus monoclonal antibody in tobacco and <i>Arabidopsis</i> plants. <i>Horticulture Environment and Biotechnology</i> , 2018, 59, 285-292.	2.1	3
95	Multi-Level Characterization of Protein Glycosylation. <i>Mass Spectrometry Letters</i> , 2013, 4, 10-17.	0.5	3
96	Deuterium Oxide Labeling for Global Omics Relative Quantification (DOLGOREQ): Application to Glycomics. <i>Analytical Chemistry</i> , 2021, 93, 14497-14505.	6.5	2
97	In-Depth Glycan Characterization of Therapeutic Glycoproteins by Stepwise PGC SPE and LC-MS/MS. <i>Methods in Molecular Biology</i> , 2021, 2271, 121-131.	0.9	1
98	An Automated Method for Determining Glycosylation and Site Diversity in Glycoproteins. <i>ACS Symposium Series</i> , 2008, , 241-250.	0.5	0
99	Validation of Monosaccharide Composition Assay Using HPLC-UV Platform for Monoclonal Antibody Products in Compliance with ICH Guideline. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 1394-1399.	1.9	0