

Hyun Joo An

List of Publications by Year in descending order

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99
papers

4,880
citations

76322

40
h-index

98792

67
g-index

101
all docs

101
docs citations

101
times ranked

5177
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycomics and disease markers. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 601-607.	6.1	251
2	Determination of N-Glycosylation Sites and Site Heterogeneity in Glycoproteins. <i>Analytical Chemistry</i> , 2003, 75, 5628-5637.	6.5	232
3	Determination of glycosylation sites and site-specific heterogeneity in glycoproteins. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 421-426.	6.1	229
4	Profiling of Glycans in Serum for the Discovery of Potential Biomarkers for Ovarian Cancer. <i>Journal of Proteome Research</i> , 2006, 5, 1626-1635.	3.7	212
5	A Serum Glycomics Approach to Breast Cancer Biomarkers. <i>Molecular and Cellular Proteomics</i> , 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. <i>Environmental Science & Technology</i> , 2014, 48, 3477-3485.	10.0	183
7	Comprehensive native glycan profiling with isomer separation and quantitation for the discovery of cancer biomarkers. <i>Analyst</i> , 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. <i>Proteomics</i> , 2009, 9, 1939-1951.	2.2	131
9	Simultaneous and Extensive Site-specific N- and O-Glycosylation Analysis in Protein Mixtures. <i>Journal of Proteome Research</i> , 2011, 10, 2612-2624.	3.7	117
10	Annotation of a Serum N-Glycan Library for Rapid Identification of Structures. <i>Journal of Proteome Research</i> , 2012, 11, 1958-1968.	3.7	112
11	Evolutionary Glycomics: Characterization of Milk Oligosaccharides in Primates. <i>Journal of Proteome Research</i> , 2011, 10, 1548-1557.	3.7	111
12	The development of retrosynthetic glycan libraries to profile and classify the human serum N-linked glycome. <i>Proteomics</i> , 2009, 9, 2986-2994.	2.2	110
13	Site-specific protein glycosylation analysis with glycan isomer differentiation. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1291-1302.	3.7	104
14	Structure elucidation of native N- and O-linked glycans by tandem mass spectrometry (tutorial). <i>Mass Spectrometry Reviews</i> , 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. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.010660.	3.8	94
16	The prospects of glycanbiomarkers for the diagnosis of diseases. <i>Molecular BioSystems</i> , 2009, 5, 17-20.	2.9	90
17	Glycoprotein Expression in Human Milk during Lactation. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 6440-6448.	5.2	85
18	Integrated GlycoProteome Analyzer (I-GPA) for Automated Identification and Quantitation of Site-Specific N-Glycosylation. <i>Scientific Reports</i> , 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-Neuroigin Trans -synaptic Adhesion by MDGA1/Neuroigin-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. <i>Medical Science Monitor</i> , 2012, 18, BR450-BR460.	1.1	25
56	Novel Glycosylated VEGF Decoy Receptor Fusion Protein, VEGF-Grab, Efficiently Suppresses Tumor Angiogenesis and Progression. <i>Molecular Cancer Therapeutics</i> , 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. <i>Molecular BioSystems</i> , 2016, 12, 3611-3621.	2.9	24
58	Glycomic Analysis of Tear and Saliva in Ocular Rosacea Patients: The Search for a Biomarker. <i>Ocular Surface</i> , 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. <i>Applied and Environmental Microbiology</i> , 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. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1617-1629.	3.7	23
61	Technologies for glycomic characterization of biopharmaceutical erythropoietins. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 68, 18-27.	11.4	21
62	Proteomic analysis of host cell protein dynamics in the supernatant of Fc γ fusion protein α -producing CHO DG44 and DUKX β 11 cell lines in batch and fed α batch cultures. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2267-2278.	3.3	21
63	Direct analysis of aberrant glycosylation on haptoglobin in patients with gastric cancer. <i>Oncotarget</i> , 2017, 8, 11094-11104.	1.8	21
64	Characterization of Novel <i>O</i> -Glycans Isolated from Tear and Saliva of Ocular Rosacea Patients. <i>Journal of Proteome Research</i> , 2013, 12, 1090-1100.	3.7	20
65	Chromosome 11-Centric Human Proteome Analysis of Human Brain Hippocampus Tissue. <i>Journal of Proteome Research</i> , 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. <i>Frontiers in Neuroscience</i> , 2016, 10, 618.	2.8	20
67	Discrimination of the geographic origin of cabbages. <i>Food Control</i> , 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. <i>Israel Journal of Chemistry</i> , 2001, 41, 117-128.	2.3	16
70	Analytical detection and characterization of biopharmaceutical glycosylation by MS. <i>Bioanalysis</i> , 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. <i>Analytica Chimica Acta</i> , 2015, 882, 38-48.	5.4	14
72	Identification of Missing Proteins in Human Olfactory Epithelial Tissue by Liquid Chromatography α Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 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. <i>Journal of Mass Spectrometry</i> , 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. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 959-966.	3.4	12
76	Accurate Quantification of <i>N</i> -Glycolylneuraminic Acid in Therapeutic Proteins Using Supramolecular Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2018, 140, 16528-16534.	13.7	12
77	Proteomic analysis of reproduction proteins involved in litter size from porcine placenta. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015, 79, 1414-1421.	1.3	11
78	Monitoring of post-mortem changes of saliva N-glycosylation by nano LC/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 45-56.	3.7	9
79	Glycosylation of serum haptoglobin as a marker of gastric cancer: an overview for clinicians. <i>Expert Review of Proteomics</i> , 2020, 17, 109-117.	3.0	9
80	Host tp53 mutation induces gut dysbiosis eliciting inflammation through disturbed sialic acid metabolism. <i>Microbiome</i> , 2022, 10, 3.	11.1	9
81	Sensitive and comprehensive analysis of O-glycosylation in biotherapeutics: a case study of novel erythropoiesis stimulating protein. <i>Bioanalysis</i> , 2017, 9, 1373-1383.	1.5	8
82	Investigation of <i>O</i> -glycosylation heterogeneity of recombinant coagulation factor IX using LC-MS/MS. <i>Bioanalysis</i> , 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. <i>Biomaterials</i> , 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. <i>Scientific Reports</i> , 2018, 8, 7273.	3.3	8
85	MS Platform for Erythropoietin Glycome Characterization. <i>Mass Spectrometry Letters</i> , 2015, 6, 53-58.	0.5	8
86	Isotopic composition of throughfall nitrates in suburban forests with different vegetations. <i>Geosciences Journal</i> , 2015, 19, 167-175.	1.2	7
87	Lectin from <i>Sambucus sieboldiana</i> abrogates the anoikis resistance of colon cancer cells conferred by N-acetylglucosaminyltransferase V during hematogenous metastasis. <i>Oncotarget</i> , 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. <i>Journal of Personalized Medicine</i> , 2021, 11, 575.	2.5	6
89	Profiling and semiquantitative analysis of the cell surface proteome in human mesenchymal stem cells. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5501-5517.	3.7	5
90	Glycosylated proteins preserved over millennia: N-glycan analysis of Tyrolean Iceman, Scythian Princess and Warrior. <i>Scientific Reports</i> , 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 Arabidopsis 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