

Hyun Joo An

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/405662/publications.pdf>

Version: 2024-02-01

99
papers

4,880
citations

87401

40
h-index

111975

67
g-index

101
all docs

101
docs citations

101
times ranked

5710
citing authors

#	ARTICLE	IF	CITATIONS
1	Host tp53 mutation induces gut dysbiosis eliciting inflammation through disturbed sialic acid metabolism. <i>Microbiome</i> , 2022, 10, 3.	4.9	9
2	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.	2.1	5
3	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.	0.4	1
4	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.	1.1	6
5	Deuterium Oxide Labeling for Global Omics Relative Quantification (DOLGOReQ): Application to Glycomics. <i>Analytical Chemistry</i> , 2021, 93, 14497-14505.	3.2	2
6	Glycosylation of serum haptoglobin as a marker of gastric cancer: an overview for clinicians. <i>Expert Review of Proteomics</i> , 2020, 17, 109-117.	1.3	9
7	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.	3.3	67
8	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.	5.7	8
9	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.	1.9	23
10	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.	0.7	3
11	Monitoring of post-mortem changes of saliva N-glycosylation by nano LC/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 45-56.	1.9	9
12	Brain somatic mutations in <i>SLC35A2</i> cause intractable epilepsy with aberrant N-glycosylation. <i>Neurology: Genetics</i> , 2018, 4, e294.	0.9	58
13	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.	1.0	0
14	Accurate Quantification of N-Glycolylneuraminic Acid in Therapeutic Proteins Using Supramolecular Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2018, 140, 16528-16534.	6.6	12
15	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.	1.6	8
16	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.	1.5	32
17	Identification of Missing Proteins in Human Olfactory Epithelial Tissue by Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2018, 17, 4320-4324.	1.8	14
18	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

#	ARTICLE	IF	CITATIONS
19	Proteomic analysis of host cell protein dynamics in the supernatant of Fc α 1 fusion protein α -producing CHO DG44 and DUKX α B11 cell lines in batch and fed α batch cultures. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2267-2278.	1.7	21
20	Structural Insights into Modulation of Neurexin-Neuroigin Trans -synaptic Adhesion by MDGA1/Neuroigin-2 Complex. <i>Neuron</i> , 2017, 94, 1121-1131.e6.	3.8	48
21	Proteomic Analysis of Host Cell Protein Dynamics in the Culture Supernatants of Antibody-Producing CHO Cells. <i>Scientific Reports</i> , 2017, 7, 44246.	1.6	52
22	Technologies and strategies for bioanalysis of biopharmaceuticals. <i>Bioanalysis</i> , 2017, 9, 1343-1347.	0.6	5
23	Sensitive and comprehensive analysis of O-glycosylation in biotherapeutics: a case study of novel erythropoiesis stimulating protein. <i>Bioanalysis</i> , 2017, 9, 1373-1383.	0.6	8
24	Investigation of <i>O</i> -glycosylation heterogeneity of recombinant coagulation factor IX using LC α MS/MS. <i>Bioanalysis</i> , 2017, 9, 1361-1372.	0.6	8
25	Enzymatic liquefaction of agarose above the sol α gel transition temperature using a thermostable endo-type β -agarase, Aga1 β B. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1111-1120.	1.7	38
26	Direct analysis of aberrant glycosylation on haptoglobin in patients with gastric cancer. <i>Oncotarget</i> , 2017, 8, 11094-11104.	0.8	21
27	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.	0.8	7
28	Anti-proliferative effects of ginsenosides extracted from mountain ginseng on lung cancer. <i>Chinese Journal of Integrative Medicine</i> , 2016, 22, 344-352.	0.7	29
29	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.	1.1	26
30	Integrated GlycoProteome Analyzer (I-GPA) for Automated Identification and Quantitation of Site-Specific N-Glycosylation. <i>Scientific Reports</i> , 2016, 6, 21175.	1.6	81
31	A Novel Glycoside Hydrolase Family 5 β -1,3-1,6-Endoglucanase from <i>Saccharophagus degradans</i> 2-40 ^T and Its Transglycosylase Activity. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4340-4349.	1.4	23
32	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
33	Characterization of Site-Specific <i>N</i> -Glycopeptide Isoforms of β -1-Acid Glycoprotein from an Interlaboratory Study Using LC α MS/MS. <i>Journal of Proteome Research</i> , 2016, 15, 4146-4164.	1.8	35
34	Efficacy of acidic pretreatment for the saccharification and fermentation of alginate from brown macroalgae. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 959-966.	1.7	12
35	Analytical detection and characterization of biopharmaceutical glycosylation by MS. <i>Bioanalysis</i> , 2016, 8, 711-727.	0.6	16
36	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.	1.4	20

#	ARTICLE	IF	CITATIONS
37	Comparative proteomics: assessment of biological variability and dataset comparability. BMC Bioinformatics, 2015, 16, 121.	1.2	4
38	Spatially-Resolved Exploration of the Mouse Brain Glycome by Tissue Glyco-Capture (TGC) and Nano-LC/MS. Analytical Chemistry, 2015, 87, 2869-2877.	3.2	32
39	Isotopic composition of throughfall nitrates in suburban forests with different vegetations. Geosciences Journal, 2015, 19, 167-175.	0.6	7
40	Technologies for glycomic characterization of biopharmaceutical erythropoietins. TrAC - Trends in Analytical Chemistry, 2015, 68, 18-27.	5.8	21
41	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.	2.6	14
42	Disease-Associated Mutations of <i>TREM2</i> Alter the Processing of N-Linked Oligosaccharides in the Golgi Apparatus. Traffic, 2015, 16, 510-518.	1.3	62
43	Proteomic analysis of reproduction proteins involved in litter size from porcine placenta. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1414-1421.	0.6	11
44	Novel Glycosylated VEGF Decoy Receptor Fusion Protein, VEGF-Grab, Efficiently Suppresses Tumor Angiogenesis and Progression. Molecular Cancer Therapeutics, 2015, 14, 470-479.	1.9	24
45	MS Platform for Erythropoietin Glycome Characterization. Mass Spectrometry Letters, 2015, 6, 53-58.	0.5	8
46	Serum Glycan Signatures of Gastric Cancer. Cancer Prevention Research, 2014, 7, 226-235.	0.7	48
47	Differentiation of Cancer Cell Origin and Molecular Subtype by Plasma Membrane N-Glycan Profiling. Journal of Proteome Research, 2014, 13, 961-968.	1.8	45
48	Exposure of Iron Nanoparticles to <i>Arabidopsis thaliana</i> Enhances Root Elongation by Triggering Cell Wall Loosening. Environmental Science & Technology, 2014, 48, 3477-3485.	4.6	183
49	Glycosylated proteins preserved over millennia: N-glycan analysis of Tyrolean Iceman, Scythian Princess and Warrior. Scientific Reports, 2014, 4, 4963.	1.6	5
50	Analytical platform for glycomic characterization of recombinant erythropoietin biotherapeutics and biosimilars by MS. Bioanalysis, 2013, 5, 545-559.	0.6	34
51	Discrimination of the geographic origin of cabbages. Food Control, 2013, 30, 626-630.	2.8	19
52	Isomer-specific chromatographic profiling yields highly sensitive and specific potential N-glycan biomarkers for epithelial ovarian cancer. Journal of Chromatography A, 2013, 1279, 58-67.	1.8	79
53	Characterization of Novel O-Glycans Isolated from Tear and Saliva of Ocular Rosacea Patients. Journal of Proteome Research, 2013, 12, 1090-1100.	1.8	20
54	Automated Assignments of N- and O-Site Specific Glycosylation with Extensive Glycan Heterogeneity of Glycoprotein Mixtures. Analytical Chemistry, 2013, 85, 5666-5675.	3.2	69

#	ARTICLE	IF	CITATIONS
55	Profiling and semiquantitative analysis of the cell surface proteome in human mesenchymal stem cells. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5501-5517.	1.9	5
56	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.	1.8	42
57	Chromosome 11-Centric Human Proteome Analysis of Human Brain Hippocampus Tissue. <i>Journal of Proteome Research</i> , 2013, 12, 97-105.	1.8	20
58	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.	3.2	51
59	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.	1.1	74
60	Multi-Level Characterization of Protein Glycosylation. <i>Mass Spectrometry Letters</i> , 2013, 4, 10-17.	0.5	3
61	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.	2.5	94
62	Glycomic Analysis of Tear and Saliva in Ocular Rosacea Patients: The Search for a Biomarker. <i>Ocular Surface</i> , 2012, 10, 184-192.	2.2	23
63	Annotation of a Serum N-Glycan Library for Rapid Identification of Structures. <i>Journal of Proteome Research</i> , 2012, 11, 1958-1968.	1.8	112
64	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.	1.3	44
65	Proteome analysis of human cerebrospinal fluid as a diagnostic biomarker in patients with meningioma. <i>Medical Science Monitor</i> , 2012, 18, BR450-BR460.	0.5	25
66	Site-specific protein glycosylation analysis with glycan isomer differentiation. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1291-1302.	1.9	104
67	Glycoscience aids in biomarker discovery. <i>BMB Reports</i> , 2012, 45, 323-330.	1.1	33
68	Comprehensive native glycan profiling with isomer separation and quantitation for the discovery of cancer biomarkers. <i>Analyst, The</i> , 2011, 136, 3663.	1.7	138
69	Simultaneous and Extensive Site-specific N- and O-Glycosylation Analysis in Protein Mixtures. <i>Journal of Proteome Research</i> , 2011, 10, 2612-2624.	1.8	117
70	Evolutionary Glycomics: Characterization of Milk Oligosaccharides in Primates. <i>Journal of Proteome Research</i> , 2011, 10, 1548-1557.	1.8	111
71	Application of nano-LC-based glycomics towards biomarker discovery. <i>Bioanalysis</i> , 2011, 3, 2573-2585.	0.6	54
72	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.	0.7	53

#	ARTICLE	IF	CITATIONS
73	Structure elucidation of native N- and O-linked glycans by tandem mass spectrometry (tutorial). <i>Mass Spectrometry Reviews</i> , 2011, 30, 560-578.	2.8	97
74	Enhanced Detection and Identification of Glycopeptides in Negative Ion Mode Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 9654-9662.	3.2	48
75	Human Serum Processing and Analysis Methods for Rapid and Reproducible N-Glycan Mass Profiling. <i>Journal of Proteome Research</i> , 2010, 9, 4952-4959.	1.8	65
76	Glycoprotein Expression in Human Milk during Lactation. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 6440-6448.	2.4	85
77	Detecting glycan cancer biomarkers in serum samples using MALDI FT-ICR mass spectrometry data. <i>Bioinformatics</i> , 2009, 25, 251-257.	1.8	38
78	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.	1.3	131
79	The development of retrosynthetic glycan libraries to profile and classify the human serum N-linked glycome. <i>Proteomics</i> , 2009, 9, 2986-2994.	1.3	110
80	Determination of glycosylation sites and site-specific heterogeneity in glycoproteins. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 421-426.	2.8	229
81	Glycomics and disease markers. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 601-607.	2.8	251
82	Infrared Multiphoton Dissociation Mass Spectrometry for Structural Elucidation of Oligosaccharides. , 2009, 534, 23-35.		13
83	Modification of Gastric Mucin Oligosaccharide Expression in Rhesus Macaques After Infection With <i>Helicobacter pylori</i> . <i>Gastroenterology</i> , 2009, 137, 1061-1071.e8.	0.6	48
84	The prospects of glycan biomarkers for the diagnosis of diseases. <i>Molecular BioSystems</i> , 2009, 5, 17-20.	2.9	90
85	Collision-Induced Dissociation Tandem Mass Spectrometry for Structural Elucidation of Glycans. , 2009, 534, 133-145.		17
86	Investigations with O-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.	0.7	13
87	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.	1.8	72
88	An Automated Method for Determining Glycosylation and Site Diversity in Glycoproteins. <i>ACS Symposium Series</i> , 2008, , 241-250.	0.5	0
89	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.	0.6	78
90	A Serum Glycomics Approach to Breast Cancer Biomarkers. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 43-55.	2.5	207

#	ARTICLE	IF	CITATIONS
91	Profiling of Glycans in Serum for the Discovery of Potential Biomarkers for Ovarian Cancer. Journal of Proteome Research, 2006, 5, 1626-1635.	1.8	212
92	A New Computer Program (GlycoX) To Determine Simultaneously the Glycosylation Sites and Oligosaccharide Heterogeneity of Glycoproteins. Journal of Proteome Research, 2006, 5, 2800-2808.	1.8	57
93	Interrogation of N-Linked Oligosaccharides Using Infrared Multiphoton Dissociation in FT-ICR Mass Spectrometry. Analytical Chemistry, 2006, 78, 4990-4997.	3.2	58
94	Enhanced Peptide Mass Fingerprinting through High Mass Accuracy: Exclusion of Non-Peptide Signals Based on Residual Mass. Journal of Proteome Research, 2006, 5, 1195-1203.	1.8	25
95	Determination of pathogen-related enzyme action by mass spectrometry analysis of pectin breakdown products of plant cell walls. Analytical Biochemistry, 2005, 338, 71-82.	1.1	44
96	Glycomics Analyses of Tear Fluid for the Diagnostic Detection of Ocular Rosacea. Journal of Proteome Research, 2005, 4, 1981-1987.	1.8	52
97	Improved capillary electrophoretic separation and mass spectrometric detection of oligosaccharides. Journal of Chromatography A, 2003, 1004, 121-129.	1.8	27
98	Determination of N-Glycosylation Sites and Site Heterogeneity in Glycoproteins. Analytical Chemistry, 2003, 75, 5628-5637.	3.2	232
99	Suppression of sialylated by sulfated oligosaccharides in negative MALDI-FTMS. Israel Journal of Chemistry, 2001, 41, 117-128.	1.0	16