Young-Ki Paik

List of Publications by Year
in descending order

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134 papers	6,285 citations	87843 38 h-index	76872 74 g-index
136 all docs	136 docs citations	136 times ranked	6875 citing authors

#	Article	IF	Citations
1	Overview of the HUPO Plasma Proteome Project: Results from the pilot phase with 35 collaborating laboratories and multiple analytical groups, generating a core dataset of 3020 proteins and a publicly-available database. Proteomics, 2005, 5, 3226-3245.	1.3	766
2	Chemical structure and biological activity of the Caenorhabditis elegans dauer-inducing pheromone. Nature, 2005, 433, 541-545.	13.7	322
3	Guidelines for the next 10 years of proteomics. Proteomics, 2006, 6, 4-8.	1.3	314
4	The Human Proteome Project: Current State and Future Direction. Molecular and Cellular Proteomics, 2011, 10, M111.009993.	2.5	294
5	The Chromosome-Centric Human Proteome Project for cataloging proteins encoded in the genome. Nature Biotechnology, 2012, 30, 221-223.	9.4	281
6	Human Proteome Project Mass Spectrometry Data Interpretation Guidelines 2.1. Journal of Proteome Research, 2016, 15, 3961-3970.	1.8	158
7	Nictation, a dispersal behavior of the nematode Caenorhabditis elegans, is regulated by IL2 neurons. Nature Neuroscience, 2012, 15, 107-112.	7.1	157
8	A high-stringency blueprint of the human proteome. Nature Communications, 2020, 11, 5301.	5.8	152
9	Standard Guidelines for the Chromosome-Centric Human Proteome Project. Journal of Proteome Research, 2012, 11, 2005-2013.	1.8	135
10	Efficient prefractionation of low-abundance proteins in human plasma and construction of a two-dimensional map. Proteomics, 2005, 5, 3386-3396.	1.3	121
11	Biomarker discovery from the plasma proteome using multidimensional fractionation proteomics. Current Opinion in Chemical Biology, 2006, 10, 42-49.	2.8	104
12	Human plasma carboxylesterase 1, a novel serologic biomarker candidate for hepatocellular carcinoma. Proteomics, 2009, 9, 3989-3999.	1.3	100
13	Proteomic analysis and molecular characterization of tissue ferritin light chain in hepatocellular carcinoma. Hepatology, 2002, 35, 1459-1466.	3.6	98
14	Characterization of gene expression and activated signaling pathways in solid-pseudopapillary neoplasm of pancreas. Modern Pathology, 2014, 27, 580-593.	2.9	97
15	Proteomic alterations of the variants of human aldehyde dehydrogenase isozymes correlate with hepatocellular carcinoma. International Journal of Cancer, 2002, 97, 261-265.	2.3	89
16	Cholesterol biosynthesis from lanosterol: development of a novel assay method and characterization of rat liver microsomal lanosterol Î”24-reductase. Biochemical Journal, 1997, 326, 609-616.	1.7	85
17	A functional annotation of subproteomes in human plasma. Proteomics, 2005, 5, 3506-3519.	1.3	82
18	Human Proteome Project Mass Spectrometry Data Interpretation Guidelines 3.0. Journal of Proteome Research, 2019, 18, 4108-4116.	1.8	82

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19	Integrated GlycoProteome Analyzer (I-GPA) for Automated Identification and Quantitation of Site-Specific N-Glycosylation. Scientific Reports, 2016, 6, 21175.	1.6	81
20	A First Step Toward Completion of a Genome-Wide Characterization of the Human Proteome. Journal of Proteome Research, 2013, 12, 1-5.	1.8	77
21	Caenorhabditis elegans utilizes dauer pheromone biosynthesis to dispose of toxic peroxisomal fatty acids for cellular homoeostasis. Biochemical Journal, 2009, 422, 61-71.	1.7	76
22	Differential expression of the liver proteome in senescence accelerated mice. Proteomics, 2003, 3, 1883-1894.	1.3	73
23	Strategies for the enrichment and identification of basic proteins in proteome projects. Proteomics, 2003, 3, 569-579.	1.3	68
24	Î²-catenin activation down-regulates cell-cell junction-related genes and induces epithelial-to-mesenchymal transition in colorectal cancers. Scientific Reports, 2019, 9, 18440.	1.6	68
25	Role of cholesterol in germ-line development ofCaenorhabditis elegans. Molecular Reproduction and Development, 2002, 61, 358-366.	1.0	64
26	Contribution of the Peroxisomal acox Gene to the Dynamic Balance of Daumone Production in Caenorhabditis elegans*. Journal of Biological Chemistry, 2010, 285, 29319-29325.	1.6	63
27	Cholesterol Biosynthesis from Lanosterol. Journal of Biological Chemistry, 1999, 274, 14624-14631.	1.6	61
28	Progress on Identifying and Characterizing the Human Proteome: 2018 Metrics from the HUPO Human Proteome Project. Journal of Proteome Research, 2018, 17, 4031-4041.	1.8	59
29	Molecular Time-Course and the Metabolic Basis of Entry into Dauer in Caenorhabditis elegans. PLoS ONE, 2009, 4, e4162.	1.1	58
30	Single-step perfusion chromatography with a throughput potential for enhanced peptide detection by matrix-assisted laser desorption/ ionization-mass spectrometry. Proteomics, 2003, 3, 1955-1961.	1.3	53
31	Quantitative analysis of phosphopeptides in search of the disease biomarker from the hepatocellular carcinoma specimen. Proteomics, 2009, 9, 3395-3408.	1.3	53
32	Quest for Missing Proteins: Update 2015 on Chromosome-Centric Human Proteome Project. Journal of Proteome Research, 2015, 14, 3415-3431.	1.8	53
33	Contribution of sams-1 and pmt-1 to lipid homoeostasis in adult Caenorhabditis elegans. Journal of Biochemistry, 2011, 149, 529-538.	0.9	49
34	The genetic basis of natural variation in a phoretic behavior. Nature Communications, 2017, 8, 273.	5.8	48
35	An integrated proteome database for two-dimensional electrophoresis data analysis and laboratory information management system. Proteomics, 2002, 2, 1104-1113.	1.3	46
36	Uniting ENCODE with genome-wide proteomics. Nature Biotechnology, 2012, 30, 1065-1067.	9.4	45

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37	Simple Method for Quantitative Analysis of N-Linked Glycoproteins in Hepatocellular Carcinoma Specimens. Journal of Proteome Research, 2010, 9, 308-318.	1.8	43
38	Identification of Human Complement Factor B as a Novel Biomarker Candidate for Pancreatic Ductal Adenocarcinoma. Journal of Proteome Research, 2014, 13, 4878-4888.	1.8	42
39	Launching the C-HPP neXt-CP50 Pilot Project for Functional Characterization of Identified Proteins with No Known Function. Journal of Proteome Research, 2018, 17, 4042-4050.	1.8	41
40	Progress on Identifying and Characterizing the Human Proteome: 2019 Metrics from the HUPO Human Proteome Project. Journal of Proteome Research, 2019, 18, 4098-4107.	1.8	41
41	Proteomic Changes during Disturbance of Cholesterol Metabolism by Azacoprostane Treatment in Caenorhabditis elegans. Molecular and Cellular Proteomics, 2003, 2, 1086-1095.	2.5	40
42	Proteomic analysis of mammalian basic proteins by liquid-based two-dimensional column chromatography. Proteomics, 2006, 6, 1143-1150.	1.3	40
43	Abundance-Ratio-Based Semiquantitative Analysis of Site-Specific N-Linked Glycopeptides Present in the Plasma of Hepatocellular Carcinoma Patients. Journal of Proteome Research, 2014, 13, 2328-2338.	1.8	39
44	Endogenous cGMP regulates adult longevity via the insulin signaling pathway in Caenorhabditis elegans. Aging Cell, 2009, 8, 473-483.	3.0	38
45	Proteomics, Human Proteome Project, and Chromosomes. Journal of Proteome Research, 2011, 10, 210-210.	1.8	38
46	Research on the Human Proteome Reaches a Major Milestone: >90% of Predicted Human Proteins Now Credibly Detected, According to the HUPO Human Proteome Project. Journal of Proteome Research, 2020, 19, 4735-4746.	1.8	38
47	Proteomic analysis of diet-induced hypercholesterolemic mice. Proteomics, 2004, 4, 514-523.	1.3	37
48	The human proteome project: Current state and future direction. Molecular and Cellular Proteomics, 2011, , .	2.5	37
49	Regulation of Dauer Formation by O-GlcNAcylation in Caenorhabditis elegans. Journal of Biological Chemistry, 2010, 285, 2930-2939.	1.6	35
50	Integrated Proteomic Pipeline Using Multiple Search Engines for a Proteogenomic Study with a Controlled Protein False Discovery Rate. Journal of Proteome Research, 2016, 15, 4082-4090.	1.8	34
51	O-GlcNAcylation of the Tumor Suppressor FOXO3 Triggers Aberrant Cancer Cell Growth. Cancer Research, 2018, 78, 1214-1224.	0.4	34
52	Cholesterol-producing transgenic Caenorhabditis elegans lives longer due to newly acquired enhanced stress resistance. Biochemical and Biophysical Research Communications, 2005, 328, 929-936.	1.0	33
53	Proteomic analysis of pancreatic juice for the identification of biomarkers of pancreatic cancer. Journal of Cancer Research and Clinical Oncology, 2011, 137, 1229-1238.	1.2	33
54	Human liver carboxylesterase 1 outperforms alphaâ€fetoprotein as biomarker to discriminate hepatocellular carcinoma from other liver diseases in Korean patients. International Journal of Cancer, 2013, 133, 408-415.	2.3	33

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55	Application of a peptideâ€based PF2D platform for quantitative proteomics in disease biomarker discovery. Proteomics, 2008, 8, 3371-3381.	1.3	32
56	A potential role for fatty acid biosynthesis genes during molting and cuticle formation in Caenorhabditis elegans. BMB Reports, 2011, 44, 285-290.	1.1	31
57	Comprehensive Genome-Wide Proteomic Analysis of Human Placental Tissue for the Chromosome-Centric Human Proteome Project. Journal of Proteome Research, 2013, 12, 2458-2466.	1.8	30
58	Progress Identifying and Analyzing the Human Proteome: 2021ÂMetrics from the HUPO Human Proteome Project. Journal of Proteome Research, 2021, 20, 5227-5240.	1.8	30
59	Alteration of the glutamate and GABA transporters in the hippocampus of the Niemann-Pick disease, typeâ€…C mouse using proteomic analysis. Proteomics, 2006, 6, 1230-1236.	1.3	27
60	Overview and Introduction to Clinical Proteomics. Methods in Molecular Biology, 2008, 428, 1-31.	0.4	26
61	Advances in the Chromosome-Centric Human Proteome Project: looking to the future. Expert Review of Proteomics, 2017, 14, 1059-1071.	1.3	25
62	Prognostic potential of the preoperative plasma complement factor B in resected pancreatic cancer: A pilot study. Cancer Biomarkers, 2019, 24, 335-342.	0.8	25
63	Identification of ALDH6A1 as a Potential Molecular Signature in Hepatocellular Carcinoma via Quantitative Profiling of the Mitochondrial Proteome. Journal of Proteome Research, 2020, 19, 1684-1695.	1.8	25
64	Developmental and reproductive consequences of prolonged non-aging dauer in Caenorhabditis elegans. Biochemical and Biophysical Research Communications, 2008, 368, 588-592.	1.0	24
65	Ascaroside Pheromones: Chemical Biology and Pleiotropic Neuronal Functions. International Journal of Molecular Sciences, 2019, 20, 3898.	1.8	24
66	Distinct Protein Expression Profiles of Solid-Pseudopapillary Neoplasms of the Pancreas. Journal of Proteome Research, 2015, 14, 3007-3014.	1.8	23
67	Quantitative Proteomic Analysis of Human Embryonic Stem Cell Differentiation by 8-Plex iTRAQ Labelling. PLoS ONE, 2012, 7, e38532.	1.1	23
68	Novel Functions of Lipid-binding Protein 5 in Caenorhabditis elegans Fat Metabolism. Journal of Biological Chemistry, 2011, 286, 28111-28118.	1.6	22
69	Toward Completion of the Human Proteome Parts List: Progress Uncovering Proteins That Are Missing or Have Unknown Function and Developing Analytical Methods. Journal of Proteome Research, 2018, 17, 4023-4030.	1.8	22
70	Establishment of a PF2Dâ€MS/MS platform for rapid profiling and semiquantitative analysis of membrane protein biomarkers. Proteomics, 2008, 8, 2168-2177.	1.3	21
71	GenomewidePDB, a Proteomic Database Exploring the Comprehensive Protein Parts List and Transcriptome Landscape in Human Chromosomes. Journal of Proteome Research, 2013, 12, 106-111.	1.8	21
72	Genome-wide Proteomics, Chromosome-centric Human Proteome Project (C-HPP), Part II. Journal of Proteome Research, 2014, 13, 1-4.	1.8	21

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73	Chromosome 11-Centric Human Proteome Analysis of Human Brain Hippocampus Tissue. Journal of Proteome Research, 2013, 12, 97-105.	1.8	20
74	A simple pattern classification method for alcohol-responsive proteins that are differentially expressed in mouse brain. Proteomics, 2004, 4, 3369-3375.	1.3	19
75	BiomarkerDigger: A versatile disease proteome database and analysis platform for the identification of plasma cancer biomarkers. Proteomics, 2009, 9, 3729-3740.	1.3	19
76	Potential Regulatory Role of Human-Carboxylesterase-1 Glycosylation in Liver Cancer Cell Growth. Journal of Proteome Research, 2020, 19, 4867-4883.	1.8	19
77	Cholesterol Biosynthesis from Lanosterol: Regulation and Purification of Rat Hepatic Sterol 8-Isomerase1. Journal of Biochemistry, 1995, 117, 819-823.	0.9	18
78	Protein Profiling of Human Plasma Samples by Two-Dimensional Electrophoresis. Methods in Molecular Biology, 2008, 428, 57-75.	0.4	18
79	Cholesterol biosynthesis from lanosterol: molecular cloning, chromosomal localization, functional expression and liver-specific gene regulation of rat sterol Î”8-isomerase, a cholesterogenic enzyme with multiple functions. Biochemical Journal, 2001, 353, 689-699.	1.7	17
80	Identification and Characterization of a Dual-Acting Antinematodal Agent against the Pinewood Nematode, Bursaphelenchus xylophilus. PLoS ONE, 2009, 4, e7593.	1.1	17
81	Caenorhabditis elegans proteomics comes of age. Proteomics, 2010, 10, 846-857.	1.3	17
82	Progress in the Chromosome-Centric Human Proteome Project as Highlighted in the Annual Special Issue IV. Journal of Proteome Research, 2016, 15, 3945-3950.	1.8	17
83	A conserved neuronal DAF-16/FoxO plays an important role in conveying pheromone signals to elicit repulsion behavior in Caenorhabditis elegans. Scientific Reports, 2017, 7, 7260.	1.6	17
84	200+ Protein Concentrations in Healthy Human Blood Plasma: Targeted Quantitative SRM SIS Screening of Chromosomes 18, 13, Y, and the Mitochondrial Chromosome Encoded Proteome. Journal of Proteome Research, 2019, 18, 120-129.	1.8	17
85	Alterations of protein expression in macrophages in response to Candida albicans infection. Molecules and Cells, 2005, 20, 271-9.	1.0	17
86	Recent Advances in the Chromosome-Centric Human Proteome Project: Missing Proteins in the Spot Light. Journal of Proteome Research, 2015, 14, 3409-3414.	1.8	16
87	Characterization of an Upstream Regulatory Element of the Human Apolipoprotein E Gene, and Purification of Its Binding Protein from the Human Placenta1. Journal of Biochemistry, 1995, 117, 915-922.	0.9	15
88	C. elegans: an invaluable model organism for the proteomics studies of the cholesterol-mediated signaling pathway. Expert Review of Proteomics, 2006, 3, 439-453.	1.3	15
89	The loss of phenol sulfotransferase 1 in hepatocellular carcinogenesis. Proteomics, 2010, 10, 266-276.	1.3	15
90	Combination of Multiple Spectral Libraries Improves the Current Search Methods Used to Identify Missing Proteins in the Chromosome-Centric Human Proteome Project. Journal of Proteome Research, 2015, 14, 4959-4966.	1.8	14

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91	Next Generation Proteomic Pipeline for Chromosome-Based Proteomic Research Using NeXtProt and GENCODE Databases. Journal of Proteome Research, 2017, 16, 4425-4434.	1.8	14
92	MGL-1 on AIY neurons translates starvation to reproductive plasticity via neuropeptide signaling in Caenorhabditis elegans. Developmental Biology, 2017, 430, 80-89.	0.9	14
93	Progress and Future Direction of Chromosome-Centric Human Proteome Project. Journal of Proteome Research, 2017, 16, 4253-4258.	1.8	14
94	Identification of Missing Proteins in Human Olfactory Epithelial Tissue by Liquid Chromatographyâ€“Tandem Mass Spectrometry. Journal of Proteome Research, 2018, 17, 4320-4324.	1.8	14
95	Molecular cloning and biochemical characterization of Candida albicans acyl-CoA:sterol acyltransferase, a potential target of antifungal agents. Biochemical and Biophysical Research Communications, 2004, 319, 911-919.	1.0	13
96	Proteomic Analysis of Caenorhabditis elegans. Methods in Molecular Biology, 2009, 519, 145-169.	0.4	13
97	A Potential Biochemical Mechanism Underlying the Influence of Sterol Deprivation Stress on Caenorhabditis elegans Longevity. Journal of Biological Chemistry, 2011, 286, 7248-7256.	1.6	13
98	NSBP-1 mediates the effects of cholesterol on insulin/IGF-1 signaling in Caenorhabditis elegans. Cellular and Molecular Life Sciences, 2013, 70, 1623-1636.	2.4	13
99	HSF-1 is involved in regulation of ascaroside pheromone biosynthesis by heat stress in Caenorhabditis elegans. Biochemical Journal, 2016, 473, 789-796.	1.7	13
100	Development of a Method to Quantitate Nematode Pheromone for Study of Small-Molecule Metabolism in Caenorhabditis elegans. Analytical Chemistry, 2013, 85, 2681-2688.	3.2	12
101	gFinder: A Web-Based Bioinformatics Tool for the Analysis of N-Glycopeptides. Journal of Proteome Research, 2016, 15, 4116-4125.	1.8	12
102	Systematic Proteogenomic Approach To Exploring a Novel Function for NHERF1 in Human Reproductive Disorder: Lessons for Exploring Missing Proteins. Journal of Proteome Research, 2017, 16, 4455-4467.	1.8	12
103	Genetic deficiency in neuronal peroxisomal fatty acid Î²-oxidation causes the interruption of dauer development in Caenorhabditis elegans. Scientific Reports, 2017, 7, 9358.	1.6	12
104	Enhanced peptide quantification using spectral count clustering and cluster abundance. BMC Bioinformatics, 2011, 12, 423.	1.2	10
105	ASV-ID, a Proteogenomic Workflow To Predict Candidate Protein Isoforms on the Basis of Transcript Evidence. Journal of Proteome Research, 2018, 17, 4235-4242.	1.8	10
106	PanelComposer: A Web-Based Panel Construction Tool for Multivariate Analysis of Disease Biomarker Candidates. Journal of Proteome Research, 2012, 11, 6277-6281.	1.8	9
107	Epsilon-Q: An Automated Analyzer Interface for Mass Spectral Library Search and Label-Free Protein Quantification. Journal of Proteome Research, 2017, 16, 4435-4445.	1.8	9
108	Data management and functional annotation of the Korean reference plasma proteome. Proteomics, 2010, 10, 1250-1255.	1.3	8

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109	Normalization using a tagged-internal standard assay for analysis of antibody arrays and the evaluation of serological biomarkers for liver disease. Analytica Chimica Acta, 2012, 718, 92-98.	2.6	8
110	GenomewidePDB 2.0: A Newly Upgraded Versatile Proteogenomic Database for the Chromosome-Centric Human Proteome Project. Journal of Proteome Research, 2015, 14, 3710-3719.	1.8	8
111	FusionPro, a Versatile Proteogenomic Tool for Identification of Novel Fusion Transcripts and Their Potential Translation Products in Cancer Cells*. Molecular and Cellular Proteomics, 2019, 18, 1651-1668.	2.5	8
112	Mutation of the lbp-5 gene alters metabolic output in Caenorhabditis elegans. BMB Reports, 2014, 47, 15-20.	1.1	8
113	A strain-specific alteration of proteomic expression in mouse liver fructose 1,6-bisphosphatase isoforms by alcohol. Proteomics, 2004, 4, 3413-3421.	1.3	6
114	PDHK-2 Deficiency Is Associated with Attenuation of Lipase-Mediated Fat Consumption for the Increased Survival of Caenorhabditis elegans Dauers. PLoS ONE, 2012, 7, e41755.	1.1	6
115	Proteomic profiling of yeastâ€and hyphalâ€specific responses ofCandida albicansto the antifungal agent, HWYâ€289. Proteomics - Clinical Applications, 2009, 3, 452-461.	0.8	5
116	A new versatile peptideâ€based size exclusion chromatography platform for global profiling and quantitation of candidate biomarkers in hepatocellular carcinoma specimens. Proteomics, 2011, 11, 1976-1984.	1.3	5
117	Alteration in cellular acetylcholine influences dauer formation in Caenorhabditis elegans. BMB Reports, 2014, 47, 80-85.	1.1	5
118	Proteomic Analysis of the Sterol-Mediated Signaling Pathway in Caenorhabditis elegans. Methods in Molecular Biology, 2009, 462, 1-15.	0.4	5
119	Methods for Evaluating the Caenorhabditis elegans Dauer State: Standard Dauer-Formation Assay Using Synthetic Daumones and Proteomic Analysis of O-GlcNAc Modifications. Methods in Cell Biology, 2011, 106, 445-460.	0.5	4
120	STR-33, a Novel G Protein-coupled Receptor That Regulates Locomotion and Egg Laying in Caenorhabditis elegans. Journal of Biological Chemistry, 2011, 286, 39860-39870.	1.6	4
121	Chromosome-Based Proteomic Study for Identifying Novel Protein Variants from Human Hippocampal Tissue Using Customized neXtProt and GENCODE Databases. Journal of Proteome Research, 2015, 14, 5028-5037.	1.8	4
122	Advances in Identifying and Characterizing the Human Proteome. Journal of Proteome Research, 2019, 18, 4079-4084.	1.8	4
123	IntelliMS: A platform to efficiently manage and visualize tandem mass spectral data. Proteomics, 2008, 8, 4910-4913.	1.3	3
124	Differential Gel-Based Proteomic Approach for Cancer Biomarker Discovery Using Human Plasma. Methods in Molecular Biology, 2012, 854, 223-237.	0.4	3
125	A novel functional cross-interaction between opioid and pheromone signaling may be involved in stress avoidance in Caenorhabditis elegans. Scientific Reports, 2020, 10, 7524.	1.6	3
126	A Molecular Basis for Reciprocal Regulation between Pheromones and Hormones in Response to Dietary Cues in C. elegans. International Journal of Molecular Sciences, 2020, 21, 2366.	1.8	3

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127	Effects of Sterols on the Development and Aging of Caenorhabditis elegans. Methods in Molecular Biology, 2009, 462, 1-13.	0.4	3
128	Quantitative Profiling Identifies Potential Regulatory Proteins Involved in Development from Dauer Stage to L4 Stage in Caenorhabditis elegans. Journal of Proteome Research, 2016, 15, 531-539.	1.8	2
129	Early Diagnostic Ability of Human Complement Factor B in Pancreatic Cancer Is Partly Linked to Its Potential Tumor-Promoting Role. Journal of Proteome Research, 2021, 20, 5315-5328.	1.8	2
130	Deficiency in RCAT-1 Function Causes Dopamine Metabolism Related Behavioral Disorders in Caenorhabditis elegans. International Journal of Molecular Sciences, 2022, 23, 2393.	1.8	2
131	Efficient prefractionation of low-abundance proteins in human plasma and construction of a two-dimensional map. , 2006, , 201-219.		0
132	Disease Biomarker Discovery in Korea. Proteomics, 2006, 6, 1091-1093.	1.3	0
133	FISH: Finding of identical spectra set for Homogenous peptide using two-stage clustering algorithm. , 2010, , .		0
134	Synthesis of Photoaffinityâ€Labeled Daumone Analogs. Bulletin of the Korean Chemical Society, 2015, 36, 2177-2178.	1.0	0