

Mark S Baker

List of Publications by Year in descending order

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121
papers

5,405
citations

100601

38
h-index

116156

66
g-index

129
all docs

129
docs citations

129
times ranked

8394
citing authors

#	ARTICLE	IF	CITATIONS
1	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018, 14, 206-214.	3.9	580
2	Mechanical stretch: physiological and pathological implications for human vascular endothelial cells. <i>Vascular Cell</i> , 2015, 7, 8.	0.2	185
3	The Human Plasma Proteome Draft of 2017: Building on the Human Plasma PeptideAtlas from Mass Spectrometry and Complementary Assays. <i>Journal of Proteome Research</i> , 2017, 16, 4299-4310.	1.8	185
4	Human Proteome Project Mass Spectrometry Data Interpretation Guidelines 2.1. <i>Journal of Proteome Research</i> , 2016, 15, 3961-3970.	1.8	158
5	High-abundance protein depletion: Comparison of methods for human plasma biomarker discovery. <i>Electrophoresis</i> , 2010, 31, 471-482.	1.3	154
6	A high-stringency blueprint of the human proteome. <i>Nature Communications</i> , 2020, 11, 5301.	5.8	152
7	Standard Guidelines for the Chromosome-Centric Human Proteome Project. <i>Journal of Proteome Research</i> , 2012, 11, 2005-2013.	1.8	135
8	Mass Spectrometry-Based Plasma Proteomics: Considerations from Sample Collection to Achieving Translational Data. <i>Journal of Proteome Research</i> , 2019, 18, 4085-4097.	1.8	128
9	The effect of pH on the conversion of superoxide to hydroxyl free radicals. <i>Archives of Biochemistry and Biophysics</i> , 1984, 234, 258-264.	1.4	119
10	Proteomic analysis of human plasma: Failure of centrifugal ultrafiltration to remove albumin and other high molecular weight proteins. <i>Proteomics</i> , 2001, 1, 1503.	1.3	117
11	The plasminogen activator inhibitor-2 gene is not required for normal murine development or survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 686-691.	3.3	112
12	Comparative N-Glycan Profiling of Colorectal Cancer Cell Lines Reveals Unique Bisecting GlcNAc and α -2,3-Linked Sialic Acid Determinants Are Associated with Membrane Proteins of the More Metastatic/Aggressive Cell Lines. <i>Journal of Proteome Research</i> , 2014, 13, 277-288.	1.8	97
13	α -v β 6 Integrin-A Marker for the Malignant Potential of Epithelial Ovarian Cancer. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 1371-1379.	1.3	94
14	Direct integrin α v β 6-ERK binding: implications for tumour growth. <i>Oncogene</i> , 2002, 21, 1370-1380.	2.6	90
15	Enhanced Fluorescence Detection on Homogeneous Gold Colloid Self-Assembled Monolayer Substrates. <i>Chemistry of Materials</i> , 2008, 20, 1788-1797.	3.2	90
16	Homogeneous Silver-Coated Nanoparticle Substrates for Enhanced Fluorescence Detection. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23085-23091.	1.2	89
17	Accelerating the search for the missing proteins in the human proteome. <i>Nature Communications</i> , 2017, 8, 14271.	5.8	86
18	Human Proteome Project Mass Spectrometry Data Interpretation Guidelines 3.0. <i>Journal of Proteome Research</i> , 2019, 18, 4108-4116.	1.8	82

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19	Evaluation of Endogenous Plasma Peptide Extraction Methods for Mass Spectrometric Biomarker Discovery. <i>Journal of Proteome Research</i> , 2007, 6, 571-581.	1.8	78
20	The effect of pH on yields of hydroxyl radicals produced from superoxide by potential biological iron chelators. <i>Archives of Biochemistry and Biophysics</i> , 1986, 246, 581-588.	1.4	77
21	In-depth N-glycome profiling of paired colorectal cancer and non-tumorigenic tissues reveals cancer-, stage- and EGFR-specific protein N-glycosylation. <i>Glycobiology</i> , 2015, 25, 1064-1078.	1.3	74
22	The oxidant hypochlorite (OCl ⁻), a product of the myeloperoxidase system, degrades articular cartilage proteoglycan aggregate. <i>Free Radical Biology and Medicine</i> , 1991, 10, 101-109.	1.3	67
23	Proteomics of Huntington's Disease-Affected Human Embryonic Stem Cells Reveals an Evolving Pathology Involving Mitochondrial Dysfunction and Metabolic Disturbances. <i>Journal of Proteome Research</i> , 2014, 13, 5648-5659.	1.8	67
24	Rat Liver Membrane Glycoproteome: Enrichment by Phase Partitioning and Glycoprotein Capture. <i>Journal of Proteome Research</i> , 2009, 8, 770-781.	1.8	63
25	Guidelines for reporting the use of gel electrophoresis in proteomics. <i>Nature Biotechnology</i> , 2008, 26, 863-864.	9.4	61
26	Progress on Identifying and Characterizing the Human Proteome: 2018 Metrics from the HUPO Human Proteome Project. <i>Journal of Proteome Research</i> , 2018, 17, 4031-4041.	1.8	59
27	CHANGES IN THE VISCOSITY OF HYALURONIC ACID AFTER EXPOSURE TO A MYELOPEROXIDASE-DERIVED OXIDANT. <i>Arthritis and Rheumatism</i> , 1989, 32, 461-467.	6.7	58
28	Association between $\alpha 5$ integrin expression, elevated p42/44 kDa MAPK, and plasminogen-dependent matrix degradation in ovarian cancer. <i>Journal of Cellular Biochemistry</i> , 2002, 84, 675-686.	1.2	58
29	Mass spectrometry-based protein identification in proteomics—a review. <i>Briefings in Bioinformatics</i> , 2021, 22, 1620-1638.	3.2	55
30	The human ENO1 gene product (recombinant human α -enolase) displays characteristics required for a plasminogen binding protein. <i>BBA - Proteins and Proteomics</i> , 1997, 1337, 27-39.	2.1	53
31	Quest for Missing Proteins: Update 2015 on Chromosome-Centric Human Proteome Project. <i>Journal of Proteome Research</i> , 2015, 14, 3415-3431.	1.8	53
32	Characterization of the Rat Liver Membrane Proteome Using Peptide Immobilized pH Gradient Isoelectric Focusing. <i>Journal of Proteome Research</i> , 2008, 7, 1036-1045.	1.8	51
33	Multiphoton fluorescence lifetime imaging microscopy reveals free-to-bound NADH ratio changes associated with metabolic inhibition. <i>Journal of Biomedical Optics</i> , 2014, 19, 086016.	1.4	50
34	Neutrophil oxidative activity is differentially affected by exercise intensity and type. <i>Journal of Science and Medicine in Sport</i> , 2000, 3, 44-54.	0.6	48
35	Potential early clinical stage colorectal cancer diagnosis using a proteomics blood test panel. <i>Clinical Proteomics</i> , 2019, 16, 34.	1.1	44
36	The Lectin Riddle: Glycoproteins Fractionated from Complex Mixtures Have Similar Glycomic Profiles. <i>OMICS A Journal of Integrative Biology</i> , 2010, 14, 487-499.	1.0	43

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37	Progress on Identifying and Characterizing the Human Proteome: 2019 Metrics from the HUPO Human Proteome Project. <i>Journal of Proteome Research</i> , 2019, 18, 4098-4107.	1.8	41
38	Localization of Plasminogen Activator Inhibitor Type 2 (PAI-2) in Hair and Nail: Implications for Terminal Differentiation. <i>Journal of Investigative Dermatology</i> , 1998, 110, 917-922.	0.3	39
39	Loss of Cell Viability Dramatically Elevates Cell Surface Plasminogen Binding and Activation. <i>Experimental Cell Research</i> , 1998, 242, 153-164.	1.2	39
40	The development of multiple reaction monitoring assays for liver-derived plasma proteins. <i>Proteomics - Clinical Applications</i> , 2007, 1, 1570-1581.	0.8	39
41	Comprehensive N-Glycome Profiling of Cultured Human Epithelial Breast Cells Identifies Unique Secretome N-Glycosylation Signatures Enabling Tumorigenic Subtype Classification. <i>Journal of Proteome Research</i> , 2014, 13, 4783-4795.	1.8	39
42	Analytical Validation Considerations of Multiplex Mass-Spectrometry-Based Proteomic Platforms for Measuring Protein Biomarkers. <i>Journal of Proteome Research</i> , 2014, 13, 5325-5332.	1.8	39
43	Proteomic Identification of Lynchpin Urokinase Plasminogen Activator Receptor Protein Interactions Associated with Epithelial Cancer Malignancy. <i>Journal of Proteome Research</i> , 2007, 6, 1016-1028.	1.8	38
44	Liver Membrane Proteome Glycosylation Changes in Mice Bearing an Extra-hepatic Tumor. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M900538-MCP200.	2.5	38
45	Research on the Human Proteome Reaches a Major Milestone: >90% of Predicted Human Proteins Now Credibly Detected, According to the HUPO Human Proteome Project. <i>Journal of Proteome Research</i> , 2020, 19, 4735-4746.	1.8	38
46	A novel, cost-effective and efficient chicken egg IgY purification procedure. <i>Journal of Immunological Methods</i> , 2012, 380, 73-76.	0.6	35
47	Quantitative proteomic analysis of paired colorectal cancer and non-tumorigenic tissues reveals signature proteins and perturbed pathways involved in CRC progression and metastasis. <i>Journal of Proteomics</i> , 2015, 126, 54-67.	1.2	34
48	A novel multiplexed immunoassay identifies CEA, IL-8 and prolactin as prospective markers for Dukes'™ stages A-D colorectal cancers. <i>Clinical Proteomics</i> , 2015, 12, 10.	1.1	33
49	Proteomic comparison of colorectal tumours and non-neoplastic mucosa from paired patient samples using iTRAQ mass spectrometry. <i>Molecular BioSystems</i> , 2011, 7, 2997.	2.9	31
50	Transforming growth factor- β 2, MAPK and Wnt signaling interactions in colorectal cancer. <i>EuPA Open Proteomics</i> , 2015, 8, 104-115.	2.5	31
51	Serpins in the Human Hair Follicle. <i>Journal of Investigative Dermatology</i> , 2000, 114, 917-922.	0.3	30
52	Improved Membrane Proteomics Coverage of Human Embryonic Stem Cells by Peptide IPG-IEF. <i>Journal of Proteome Research</i> , 2009, 8, 5642-5649.	1.8	30
53	Integrin α 6 sets the stage for colorectal cancer metastasis. <i>Cancer and Metastasis Reviews</i> , 2015, 34, 715-734.	2.7	30
54	Plasminogen fragmentation and increased production of extracellular matrix-degrading proteinases are associated with serous epithelial ovarian cancer progression. <i>Gynecologic Oncology</i> , 2004, 92, 80-88.	0.6	28

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55	Evaluation of blood collection tubes using selected reaction monitoring MS: Implications for proteomic biomarker studies. <i>Proteomics</i> , 2010, 10, 2050-2056.	1.3	28
56	Tissue and plasma proteomics for early stage cancer detection. <i>Molecular Omics</i> , 2018, 14, 405-423.	1.4	28
57	The pathological damage in duchenne muscular dystrophy may be due to increased intracellular oxy-radical generation caused by the absence of dystrophin and subsequent alterations in Ca ²⁺ metabolism. <i>Medical Hypotheses</i> , 1989, 29, 187-193.	0.8	27
58	Elevated plasminogen receptor expression occurs as a degradative phase event in cellular apoptosis. <i>Immunology and Cell Biology</i> , 1999, 77, 249-255.	1.0	27
59	A Combination of Immobilised pH Gradients Improves Membrane Proteomics. <i>Journal of Proteome Research</i> , 2008, 7, 4974-4981.	1.8	27
60	Immunological Detection of Conformational Neopeptides Associated with the Serpin Activity of Plasminogen Activator Inhibitor Type-2. <i>Journal of Biological Chemistry</i> , 1998, 273, 10965-10971.	1.6	26
61	The Asia Oceania Human Proteome Organisation Membrane Proteomics Initiative. Preparation and characterisation of the carbonate-washed membrane standard. <i>Proteomics</i> , 2010, 10, 4142-4148.	1.3	26
62	Systems Proteomics View of the Endogenous Human Claudin Protein Family. <i>Journal of Proteome Research</i> , 2016, 15, 339-359.	1.8	26
63	Differentiating cells of murine stratified squamous epithelia constitutively express plasminogen activator inhibitor type 2 (PAI-2). <i>Histochemistry and Cell Biology</i> , 1998, 110, 559-569.	0.8	25
64	Evidence for intracellular cleavage of plasminogen activator inhibitor type 2 (PAI-2) in normal epidermal keratinocytes. <i>Journal of Cellular Physiology</i> , 2000, 182, 281-289.	2.0	25
65	Crystal Structure of the Complex of Plasminogen Activator Inhibitor 2 with a Peptide Mimicking the Reactive Center Loop. <i>Journal of Biological Chemistry</i> , 2001, 276, 43374-43382.	1.6	25
66	Ultradepletion of Human Plasma using Chicken Antibodies: A Proof of Concept Study. <i>Journal of Proteome Research</i> , 2013, 12, 2399-2413.	1.8	25
67	Unlocking the Puzzling Biology of the Black Périgord Truffle <i>Tuber melanosporum</i> . <i>Journal of Proteome Research</i> , 2013, 12, 5349-5356.	1.8	24
68	Proteomics and the microbiome: pitfalls and potential. <i>Expert Review of Proteomics</i> , 2019, 16, 501-511.	1.3	24
69	Role of Multiomics Data to Understand Host-Pathogen Interactions in COVID-19 Pathogenesis. <i>Journal of Proteome Research</i> , 2021, 20, 1107-1132.	1.8	24
70	An optimized approach for enrichment of glycoproteins from cell culture lysates using native multi-lectin affinity chromatography. <i>Journal of Separation Science</i> , 2012, 35, 2445-2452.	1.3	23
71	The nuclear proteome and DNA-binding fraction of human Raji lymphoma cells. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 413-432.	1.1	22
72	Overexpression of $\alpha 6$ Integrin Alters the Colorectal Cancer Cell Proteome in Favor of Elevated Proliferation and a Switching in Cellular Adhesion That Increases Invasion. <i>Journal of Proteome Research</i> , 2013, 12, 2477-2490.	1.8	22

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73	Nanochannel pH Gradient Electrofocusing of Proteins. <i>Analytical Chemistry</i> , 2013, 85, 7133-7138.	3.2	22
74	Oncoproteomics: Current status and future opportunities. <i>Clinica Chimica Acta</i> , 2019, 495, 611-624.	0.5	20
75	Plasminogen activator inhibitor 2 (PAI-2) is not inactivated by exposure to oxidants which can be released from activated neutrophils. <i>Biochemical and Biophysical Research Communications</i> , 1990, 166, 993-1000.	1.0	18
76	Characterization of the Interaction between Heterodimeric $\alpha_5\beta_1$ Integrin and Urokinase Plasminogen Activator Receptor (uPAR) Using Functional Proteomics. <i>Journal of Proteome Research</i> , 2014, 13, 5956-5964.	1.8	18
77	Tissue-specific Expression of the Relaxed Conformation of Plasminogen Activator Inhibitor-2 and Low-density Lipoprotein Receptor-related Protein in Human Term Gestational Tissues. <i>Journal of Histochemistry and Cytochemistry</i> , 1997, 45, 1593-1602.	1.3	17
78	Functional Annotation of the Human Chromosome 7 α -Missing Proteins: A Bioinformatics Approach. <i>Journal of Proteome Research</i> , 2013, 12, 2504-2510.	1.8	17
79	A Transferrin Triggered Pathway for Highly Targeted Delivery of Graphene-Based Nanodrugs to Treat Choroidal Melanoma. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800377.	3.9	16
80	Systems-based approaches enable identification of gene targets which improve the flavour profile of low-ethanol wine yeast strains. <i>Metabolic Engineering</i> , 2018, 49, 178-191.	3.6	16
81	Recent findings from the human proteome project: opening the mass spectrometry toolbox to advance cancer diagnosis, surveillance and treatment. <i>Expert Review of Proteomics</i> , 2015, 12, 279-293.	1.3	15
82	Micromethods in single muscle fibers. <i>Analytical Biochemistry</i> , 1988, 174, 575-579.	1.1	14
83	Mutation analysis of CDP, TP53, and KRAS in uterine leiomyomas. <i>Molecular Carcinogenesis</i> , 2003, 37, 61-64.	1.3	14
84	Comparing SILAC and Two-Dimensional Gel Electrophoresis Image Analysis for Profiling Urokinase Plasminogen Activator Signaling in Ovarian Cancer Cells. <i>Journal of Proteome Research</i> , 2007, 6, 2105-2112.	1.8	14
85	Differential Proteome Expression Associated with Urokinase Plasminogen Activator Receptor (uPAR) Suppression in Malignant Epithelial Cancer. <i>Journal of Proteome Research</i> , 2008, 7, 4792-4806.	1.8	14
86	Recent Workshops of the HUPO Human Plasma Proteome Project (HPPP): A bridge with the HUPO CardioVascular Initiative and the emergence of SRM targeted proteomics. <i>Proteomics</i> , 2011, 11, 3439-3443.	1.3	14
87	Combination of Multiple Spectral Libraries Improves the Current Search Methods Used to Identify Missing Proteins in the Chromosome-Centric Human Proteome Project. <i>Journal of Proteome Research</i> , 2015, 14, 4959-4966.	1.8	14
88	Pathology, proteomics and the pathway to personalised medicine. <i>Expert Review of Proteomics</i> , 2018, 15, 231-243.	1.3	14
89	A site for direct integrin $\alpha_5\beta_1$ -uPAR interaction from structural modelling and docking. <i>Journal of Structural Biology</i> , 2014, 185, 327-335.	1.3	13
90	Protannotator: A Semiautomated Pipeline for Chromosome-Wise Functional Annotation of the α -Missing Human Proteome. <i>Journal of Proteome Research</i> , 2014, 13, 76-83.	1.8	13

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91	The localization of the relaxed form of plasminogen activator inhibitor type-2 in human gingival tissues. <i>Histochemistry and Cell Biology</i> , 2001, 116, 447-452.	0.8	12
92	Non-specific binding of monoclonal human erythropoietin antibody AE7A5 to <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> proteins. <i>Clinica Chimica Acta</i> , 2007, 379, 173-175.	0.5	12
93	Preanalytical Stability of Antibodies to Pathogenic Antigens. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017, 26, 1337-1344.	1.1	12
94	iSwathX: an interactive web-based application for extension of DIA peptide reference libraries. <i>Bioinformatics</i> , 2019, 35, 538-539.	1.8	12
95	Epithelial and Stromal Cell Urokinase Plasminogen Activator Receptor Expression Differentially Correlates with Survival in Rectal Cancer Stages B and C Patients. <i>PLoS ONE</i> , 2015, 10, e0117786.	1.1	12
96	Gene expression of plasminogen activation cascade components in human term gestational tissues with labour onset. <i>Molecular Human Reproduction</i> , 1998, 4, 101-106.	1.3	11
97	Interaction between the P14 Residue and Strand 2 of β -Sheet B Is Critical for Reactive Center Loop Insertion in Plasminogen Activator Inhibitor-2. <i>Journal of Biological Chemistry</i> , 2001, 276, 43383-43389.	1.6	11
98	Biorepository Regulatory Frameworks: Building Parallel Resources That Both Promote Scientific Investigation and Protect Human Subjects. <i>Journal of Proteome Research</i> , 2014, 13, 5319-5324.	1.8	11
99	Micromethods in single muscle fibers. <i>Analytical Biochemistry</i> , 1988, 174, 568-574.	1.1	10
100	Chromosomal localization of the human urokinase plasminogen activator receptor and plasminogen activator inhibitor type-2 genes: Implications in colorectal cancer. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 1994, 9, 340-343.	1.4	10
101	An improved method for the detection and enrichment of low-abundant membrane and lipid raft-residing proteins. <i>Journal of Proteomics</i> , 2013, 79, 299-304.	1.2	10
102	Tandem Ion Exchange Fractionation of Chicken Egg White Reveals the Presence of Proliferative Bioactivity. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4079-4088.	2.4	10
103	Correlations between Integrin α 6 Expression and Clinico-Pathological Features in Stage B and Stage C Rectal Cancer. <i>PLoS ONE</i> , 2014, 9, e97248.	1.1	10
104	Four Areas of Engagement Requiring Strengthening in Modern Proteomics Today. <i>Journal of Proteome Research</i> , 2014, 13, 5310-5318.	1.8	10
105	De Novo Peptide Sequencing: Deep Mining of High-Resolution Mass Spectrometry Data. <i>Methods in Molecular Biology</i> , 2017, 1549, 119-134.	0.4	10
106	Rapid purification method for the 26S proteasome from the filamentous fungus <i>Trichoderma reesei</i> . <i>Protein Expression and Purification</i> , 2009, 67, 156-163.	0.6	9
107	The HUPO initiative on Model Organism Proteomes, iMOP. <i>Proteomics</i> , 2012, 12, 340-345.	1.3	9
108	Proteomics Reveals Cell Surface Urokinase Plasminogen Activator Receptor Expression Impacts Most Hallmarks of Cancer. <i>Proteomics</i> , 2019, 19, e1900026.	1.3	9

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109	In Silico Peptide Repertoire of Human Olfactory Receptor Proteomes on High-Stringency Mass Spectrometry. <i>Journal of Proteome Research</i> , 2019, 18, 4117-4123.	1.8	9
110	Occupancy of the cancer urokinase receptor (uPAR): Effects of acid elution and exogenous uPA on cell surface urokinase (uPA). <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1992, 1117, 143-152.	1.1	8
111	Chromosome 7-Centric Analysis of Proteomics Data from a Panel of Human Colon Carcinoma Cell Lines. <i>Journal of Proteome Research</i> , 2013, 12, 89-96.	1.8	6
112	Human Prestin: A Candidate PE1 Protein Lacking Stringent Mass Spectrometric Evidence?. <i>Journal of Proteome Research</i> , 2017, 16, 4531-4535.	1.8	6
113	Use of a Recombinant Biomarker Protein DDA Library Increases DIA Coverage of Low Abundance Plasma Proteins. <i>Journal of Proteome Research</i> , 2021, 20, 2374-2389.	1.8	6
114	Amplified protein sensing using deep purple fluorophores on homogeneous Au substrates. <i>BioFactors</i> , 2007, 30, 249-253.	2.6	4
115	Chicken Immune Responses to Variations in Human Plasma Protein Ratios: A Rationale for Polyclonal IgY Ultraimmunodepletion. <i>Journal of Proteome Research</i> , 2012, 11, 6291-6294.	1.8	3
116	A Systematic Bioinformatics Approach to Identify High Quality Mass Spectrometry Data and Functionally Annotate Proteins and Proteomes. <i>Methods in Molecular Biology</i> , 2017, 1549, 163-176.	0.4	3
117	Building the 'practical' human proteome project - the next big thing in basic and clinical proteomics. <i>Current Opinion in Molecular Therapeutics</i> , 2009, 11, 600-2.	2.8	3
118	The effects of free radical scavengers on arachidonic acid metabolism by ovine placental microsomes. <i>General Pharmacology</i> , 1991, 22, 1109-1113.	0.7	2
119	Topological localization of plasminogen activator inhibitor type 2. , 2000, 40, 32-41.		2
120	Genistein-induced proteome changes in the human endometrial carcinoma cell line, ishikawa. <i>Clinical Proteomics</i> , 2006, 2, 153-167.	1.1	2
121	Clinical proteomics stretch goals: EuPA 2012 roundtable report. <i>Journal of Proteomics</i> , 2013, 88, 37-40.	1.2	2