

Garry L Corthals

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

5,381
citations

35
h-index

72
g-index

108
ext. papers

5,875
ext. citations

5
avg, IF

5.06
L-index

#	Paper	IF	Citations
98	Evaluation of two-dimensional gel electrophoresis-based proteome analysis technology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 9390-5	11.5	1131
97	The dynamic range of protein expression: a challenge for proteomic research. <i>Electrophoresis</i> , 2000 , 21, 1104-15	3.6	530
96	A panel of cerebrospinal fluid potential biomarkers for the diagnosis of Alzheimer's disease. <i>Proteomics</i> , 2003 , 3, 1486-94	4.8	312
95	Identification of flow-dependent endothelial nitric-oxide synthase phosphorylation sites by mass spectrometry and regulation of phosphorylation and nitric oxide production by the phosphatidylinositol 3-kinase inhibitor LY294002. <i>Journal of Biological Chemistry</i> , 1999 , 274, 30101-8	5.4	257
94	The human proteome project: current state and future direction. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M111.009993	7.6	249
93	A gene encoding a novel RFX-associated transactivator is mutated in the majority of MHC class II deficiency patients. <i>Nature Genetics</i> , 1998 , 20, 273-7	36.3	240
92	A Cortactin-CD2-associated protein (CD2AP) complex provides a novel link between epidermal growth factor receptor endocytosis and the actin cytoskeleton. <i>Journal of Biological Chemistry</i> , 2003 , 278, 21805-13	5.4	173
91	Peptide and protein imaging mass spectrometry in cancer research. <i>Journal of Proteomics</i> , 2010 , 73, 1921-44	3.9	130
90	ApoC-I and ApoC-III as potential plasmatic markers to distinguish between ischemic and hemorrhagic stroke. <i>Proteomics</i> , 2004 , 4, 2242-51	4.8	101
89	Cystatin C as a potential cerebrospinal fluid marker for the diagnosis of Creutzfeldt-Jakob disease. <i>Proteomics</i> , 2004 , 4, 2229-33	4.8	89
88	Vimentin-ERK Signaling Uncouples Slug Gene Regulatory Function. <i>Cancer Research</i> , 2015 , 75, 2349-62	10.1	84
87	Prefractionation of protein samples prior to two-dimensional electrophoresis. <i>Electrophoresis</i> , 1997 , 18, 317-23	3.6	80
86	Exploitation of specific properties of trifluoroethanol for extraction and separation of membrane proteins. <i>Proteomics</i> , 2003 , 3, 1418-24	4.8	72
85	Comprehensive analyses of prostate gene expression: convergence of expressed sequence tag databases, transcript profiling and proteomics. <i>Electrophoresis</i> , 2000 , 21, 1823-31	3.6	68
84	Akt mediates insulin-stimulated phosphorylation of Ndr2: evidence for cross-talk with protein kinase C theta. <i>Journal of Biological Chemistry</i> , 2004 , 279, 18623-32	5.4	67
83	Reference-facilitated phosphoproteomics: fast and reliable phosphopeptide validation by microLC-ESI-Q-TOF MS/MS. <i>Molecular and Cellular Proteomics</i> , 2007 , 6, 1380-91	7.6	64
82	Identification of protein interactions involved in cellular signaling. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 1752-63	7.6	60

81	Multifunctional apparatus for electrokinetic processing of proteins. <i>Electrophoresis</i> , 1994 , 15, 968-71	3.6	59
80	Faecal Metaproteomic Analysis Reveals a Personalized and Stable Functional Microbiome and Limited Effects of a Probiotic Intervention in Adults. <i>PLoS ONE</i> , 2016 , 11, e0153294	3.7	59
79	Correlation of proteomic and transcriptomic profiles of <i>Staphylococcus aureus</i> during the post-exponential phase of growth. <i>Journal of Microbiological Methods</i> , 2005 , 60, 247-57	2.8	55
78	Identification of miR-193b targets in breast cancer cells and systems biological analysis of their functional impact. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M110.005322	7.6	54
77	Data-dependent modulation of solid-phase extraction capillary electrophoresis for the analysis of complex peptide and phosphopeptide mixtures by tandem mass spectrometry: application to endothelial nitric oxide synthase. <i>Analytical Chemistry</i> , 1999 , 71, 2279-87	7.8	53
76	Microarray profiling of host-extract-induced genes and characterization of the type VI secretion cluster in the potato pathogen <i>Pectobacterium atrosepticum</i> . <i>Microbiology (United Kingdom)</i> , 2008 , 154, 2387-2396	2.9	49
75	Discussion point: reporting guidelines for mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 2035-45	4.4	46
74	Phosphoproteomics to Characterize Host Response During Influenza A Virus Infection of Human Macrophages. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 3203-3219	7.6	44
73	Identification of phosphorylation sites using microimmobilized metal affinity chromatography. <i>Methods in Enzymology</i> , 2005 , 405, 66-81	1.7	43
72	Preparative reflux electrophoresis. <i>Electrophoresis</i> , 1995 , 16, 98-100	3.6	43
71	Selenoprotein biosynthesis defect causes progressive encephalopathy with elevated lactate. <i>Neurology</i> , 2015 , 85, 306-15	6.5	42
70	Protein phosphatase 2A (PP2A) regulatory subunit B5 interacts with cytoplasmic ACONITASE 3 and modulates the abundance of AOX1A and AOX1D in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2015 , 205, 1250-1263	9.8	42
69	Optimization of Statistical Methods Impact on Quantitative Proteomics Data. <i>Journal of Proteome Research</i> , 2015 , 14, 4118-26	5.6	41
68	Quantitative proteomics analysis of the nuclear fraction of human CD4+ cells in the early phases of IL-4-induced Th2 differentiation. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 1937-53	7.6	40
67	Label-free quantitative phosphoproteomics with novel pairwise abundance normalization reveals synergistic RAS and CIP2A signaling. <i>Scientific Reports</i> , 2015 , 5, 13099	4.9	38
66	Phosphorylation of Notch1 by Pim kinases promotes oncogenic signaling in breast and prostate cancer cells. <i>Oncotarget</i> , 2016 , 7, 43220-43238	3.3	38
65	MSiMass list: a public database of identifications for protein MALDI MS imaging. <i>Journal of Proteome Research</i> , 2014 , 13, 1138-42	5.6	37
64	Size distributions of droplets produced by ultrasonic nebulizers. <i>Scientific Reports</i> , 2019 , 9, 6128	4.9	36

63	Tumor protein D52 (TPD52): a novel B-cell/plasma-cell molecule with unique expression pattern and Ca(2+)-dependent association with annexin VI. <i>Blood</i> , 2005 , 105, 2812-20	2.2	34
62	Expression of a tyrosine phosphorylated, DNA binding Stat3beta dimer in bacteria. <i>FEBS Letters</i> , 1998 , 441, 141-7	3.8	33
61	N-t-butyliodoacetamide and iodoacetanilide: two new cysteine alkylating reagents for relative quantitation of proteins. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 117-27	2.2	32
60	Gradiflow as a prefractionation tool for two-dimensional electrophoresis. <i>Proteomics</i> , 2002 , 2, 1254-60	4.8	32
59	Identification of new Golgi complex specific proteins by direct organelle proteomic analysis. <i>Proteomics</i> , 2006 , 6, 3502-8	4.8	31
58	Nonredundant mass spectrometry: a strategy to integrate mass spectrometry acquisition and analysis. <i>Proteomics</i> , 2004 , 4, 917-27	4.8	31
57	In-Culture Cross-Linking of Bacterial Cells Reveals Large-Scale Dynamic Protein-Protein Interactions at the Peptide Level. <i>Journal of Proteome Research</i> , 2017 , 16, 2457-2471	5.6	30
56	Proteomic tools for biomedicine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 771, 33-48	3.2	29
55	Using Peptide-Level Proteomics Data for Detecting Differentially Expressed Proteins. <i>Journal of Proteome Research</i> , 2015 , 14, 4564-70	5.6	26
54	The molecular scanner: concept and developments. <i>Current Opinion in Biotechnology</i> , 2004 , 15, 17-23	11.4	26
53	Murine cathepsin D deficiency is associated with dysmyelination/myelin disruption and accumulation of cholesteryl esters in the brain. <i>Journal of Neurochemistry</i> , 2010 , 112, 193-203	6	25
52	Characterization of heat shock protein 27 phosphorylation sites in renal cell carcinoma. <i>Proteomics</i> , 2005 , 5, 788-95	4.8	25
51	Ataxin-3 plays a role in mouse myogenic differentiation through regulation of integrin subunit levels. <i>PLoS ONE</i> , 2010 , 5, e11728	3.7	24
50	Proprotein convertase FURIN constrains Th2 differentiation and is critical for host resistance against <i>Toxoplasma gondii</i> . <i>Journal of Immunology</i> , 2014 , 193, 5470-9	5.3	23
49	Going forward: Increasing the accessibility of imaging mass spectrometry. <i>Journal of Proteomics</i> , 2012 , 75, 5113-5121	3.9	23
48	Confident site localization using a simulated phosphopeptide spectral library. <i>Journal of Proteome Research</i> , 2015 , 14, 2348-59	5.6	22
47	Quantitative Site-Specific Phosphoproteomics of <i>Trichoderma reesei</i> Signaling Pathways upon Induction of Hydrolytic Enzyme Production. <i>Journal of Proteome Research</i> , 2016 , 15, 457-67	5.6	22
46	Proteome analysis of tissues by mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2019 , 38, 403-441	11	21

45	Cross-species identification of proteins from proteome profiles of the marine oligotrophic ultramicrobacterium, <i>Sphingopyxis alaskensis</i> . <i>Proteomics</i> , 2004 , 4, 1779-88	4.8	21
44	Development of a Quantitative SRM-Based Proteomics Method to Study Iron Metabolism of <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Proteome Research</i> , 2016 , 15, 266-79	5.6	20
43	Cathepsin D deficiency induces cytoskeletal changes and affects cell migration pathways in the brain. <i>Neurobiology of Disease</i> , 2013 , 50, 107-19	7.5	20
42	Phosphoproteome and drug-response effects mediated by the three protein phosphatase 2A inhibitor proteins CIP2A, SET, and PME-1. <i>Journal of Biological Chemistry</i> , 2020 , 295, 4194-4211	5.4	19
41	Absence of ataxin-3 leads to enhanced stress response in <i>C. elegans</i> . <i>PLoS ONE</i> , 2011 , 6, e18512	3.7	19
40	The role of pH and membrane porosity in preparative electrophoresis. <i>Electrophoresis</i> , 1996 , 17, 771-5	3.6	17
39	A cyclic-olefin-copolymer microfluidic immobilized-enzyme reactor for rapid digestion of proteins from dried blood spots. <i>Journal of Chromatography A</i> , 2017 , 1491, 36-42	4.5	16
38	Fast and Simple Protocols for Mass Spectrometry-Based Proteomics of Small Fresh Frozen Uterine Tissue Sections. <i>Analytical Chemistry</i> , 2017 , 89, 10769-10775	7.8	16
37	Ovarian endometriosis signatures established through discovery and directed mass spectrometry analysis. <i>Journal of Proteome Research</i> , 2014 , 13, 4983-94	5.6	14
36	Surface Acoustic Wave Nebulisation Mass Spectrometry for the Fast and Highly Sensitive Characterisation of Synthetic Dyes in Textile Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 2108-2116	3.5	14
35	Purification by reflux electrophoresis of whey proteins and of a recombinant protein expressed in <i>Dictyostelium discoideum</i> . <i>Journal of Chromatography A</i> , 1997 , 773, 299-309	4.5	14
34	On-target ultrasonic digestion of proteins. <i>Proteomics</i> , 2013 , 13, 1423-7	4.8	13
33	ATX-3, CDC-48 and UBXN-5: a new trimolecular complex in <i>Caenorhabditis elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009 , 386, 575-81	3.4	13
32	Relevance Rank Platform (RRP) for Functional Filtering of High Content Protein-Protein Interaction Data. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 3274-83	7.6	12
31	The dynamic range of protein expression: A challenge for proteomic research 2000 , 21, 1104		11
30	Changes in gene expression associated with stable drug and radiation resistance in small cell lung cancer cells are similar to those caused by a single X-ray dose. <i>Radiation Research</i> , 2004 , 161, 495-503	3.1	10
29	Nitromatrix provides improved LC-MALDI signals and more protein identifications. <i>Proteomics</i> , 2009 , 9, 1662-71	4.8	9
28	Annual spring meeting of the Proteomics Standards Initiative. <i>Proteomics</i> , 2009 , 9, 4429-32	4.8	8

27	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for quantitation and molecular stability assessment of insulin entrapped within PLGA nanoparticles. <i>Journal of Pharmaceutical Sciences</i> , 2005 , 94, 688-94	3.9	8
26	Protein Information and Knowledge Extractor: Discovering biological information from proteomics data. <i>Proteomics</i> , 2010 , 10, 3262-71	4.8	7
25	Phosphorylation of NFATC1 at PIM1 target sites is essential for its ability to promote prostate cancer cell migration and invasion. <i>Cell Communication and Signaling</i> , 2019 , 17, 148	7.5	7
24	Solvent-mediated extraction of fatty acids in bilayer oil paint models: a comparative analysis of solvent application methods. <i>Heritage Science</i> , 2019 , 7,	2.5	6
23	Enrichment and sequencing of phosphopeptides on indium tin oxide coated glass slides. <i>Molecular BioSystems</i> , 2011 , 7, 1828-37		6
22	Identification of differentially expressed proteins in Ficedula flycatchers. <i>Proteomics</i> , 2008 , 8, 2150-3	4.8	6
21	SimPhospho: a software tool enabling confident phosphosite assignment. <i>Bioinformatics</i> , 2018 , 34, 2690-2692	7.5	5
20	Liver lipid metabolism is altered by increased circulating estrogen to androgen ratio in male mouse. <i>Journal of Proteomics</i> , 2016 , 133, 66-75	3.9	5
19	Cross-correlation of spectral count ranking to validate quantitative proteome measurements. <i>Journal of Proteome Research</i> , 2014 , 13, 1957-68	5.6	5
18	Isotopic labelling of peptides in tissues enhances mass spectrometric profiling. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 254-62	2.2	5
17	Human serum protein enhances HIV-1 replication and up-regulates the transcription factor AP-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17639-44	11.5	5
16	Utilizing Surface Acoustic Wave Nebulization (SAWN) for the Rapid and Sensitive Ambient Ionization Mass Spectrometric Analysis of Organic Explosives. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2655-2669	3.5	4
15	Concanavalin-A induces granulosa cell death and inhibits FSH-mediated follicular growth and ovarian maturation in female rats. <i>Endocrinology</i> , 2013 , 154, 1885-96	4.8	4
14	Surface Acoustic Wave Nebulization-Mass Spectrometry as a New Tool to Investigate the Water Sensitivity Behavior of 20th Century Oil Paints. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 444-454	3.5	4
13	Phosphopeptide enrichment with stable spatial coordination on a titanium dioxide coated glass slide. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 3661-7	2.2	3
12	Report. Proteomics education, an important challenge for the scientific community: report on the activities of the EuPA Education Committee. <i>Proteomics</i> , 2006 , 6 Suppl 2, 77-81	4.8	3
11	Rules for PP2A-controlled phosphosignalling and drug responses		3
10	Data combination from multiple matrix-assisted laser desorption/ionization (MALDI) matrices: opportunities and limitations for MALDI analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 3493-5	2.2	2

- 9 Promoting proteomics knowledge in Europe: report on the activities of the EuPA Education Committee 2006-2007. *Proteomics*, **2007**, 7 Suppl 1, 90-4 4.8 2
- 8 The European Proteomics Association (EuPA) is in the field. Report of the formal inauguration of the European Proteome Association (Munich, Germany, August 29, 2005). *Proteomics*, **2005**, 5, 4648-50 4.8 2
- 7 The transition of the European Proteomics Association into the future. *Journal of Proteomics*, **2011**, 75, 18-22 3.9
- 6 Discovery of New Diagnostic Markers of Stroke **2004**, 57-72
- 5 Human Cerebrospinal Fluid **2004**, 341-353
- 4 Proteomics in clinical and fundamental medicine. *Scandinavian Journal of Clinical and Laboratory Investigation*, **2002**, 62, 7-7 2
- 3 Tumor Protein D52 (TPD52): A Novel B Cell/Plasma Cell Molecule Identified through a Proteomic Approach and Characterized by Unique Expression Pattern and Ca²⁺-Dependent Association with Annexin VI.. *Blood*, **2004**, 104, 3652-3652 2.2
- 2 Offline Micro-IMAC Enrichment of Phosphoproteins. *Cold Spring Harbor Protocols*, **2007**, 2007, pdb.prot4624
- 1 Analysis of Phosphopeptides by {micro}LC-ESI-MS/MS. *Cold Spring Harbor Protocols*, **2007**, 2007, pdb.prot4625