

# Garry L Corthals

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2118762/garry-l-corthals-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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> , <b>2021</b> , 32, 444-454	3.5	4
97	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> , <b>2020</b> , 295, 4194-4211	5.4	19
96	Size distributions of droplets produced by ultrasonic nebulizers. <i>Scientific Reports</i> , <b>2019</b> , 9, 6128	4.9	36
95	Proteome analysis of tissues by mass spectrometry. <i>Mass Spectrometry Reviews</i> , <b>2019</b> , 38, 403-441	11	21
94	Solvent-mediated extraction of fatty acids in bilayer oil paint models: a comparative analysis of solvent application methods. <i>Heritage Science</i> , <b>2019</b> , 7,	2.5	6
93	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> , <b>2019</b> , 30, 2655-2669	3.5	4
92	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> , <b>2019</b> , 17, 148	7.5	7
91	SimPhospho: a software tool enabling confident phosphosite assignment. <i>Bioinformatics</i> , <b>2018</b> , 34, 2690-2692	7.2	5
90	A cyclic-olefin-copolymer microfluidic immobilized-enzyme reactor for rapid digestion of proteins from dried blood spots. <i>Journal of Chromatography A</i> , <b>2017</b> , 1491, 36-42	4.5	16
89	In-Culture Cross-Linking of Bacterial Cells Reveals Large-Scale Dynamic Protein-Protein Interactions at the Peptide Level. <i>Journal of Proteome Research</i> , <b>2017</b> , 16, 2457-2471	5.6	30
88	Fast and Simple Protocols for Mass Spectrometry-Based Proteomics of Small Fresh Frozen Uterine Tissue Sections. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 10769-10775	7.8	16
87	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> , <b>2017</b> , 28, 2108-2116	3.5	14
86	Phosphoproteomics to Characterize Host Response During Influenza A Virus Infection of Human Macrophages. <i>Molecular and Cellular Proteomics</i> , <b>2016</b> , 15, 3203-3219	7.6	44
85	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> , <b>2016</b> , 15, 266-79	5.6	20
84	Liver lipid metabolism is altered by increased circulating estrogen to androgen ratio in male mouse. <i>Journal of Proteomics</i> , <b>2016</b> , 133, 66-75	3.9	5
83	Quantitative Site-Specific Phosphoproteomics of <i>Trichoderma reesei</i> Signaling Pathways upon Induction of Hydrolytic Enzyme Production. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 457-67	5.6	22
82	Phosphorylation of Notch1 by Pim kinases promotes oncogenic signaling in breast and prostate cancer cells. <i>Oncotarget</i> , <b>2016</b> , 7, 43220-43238	3.3	38

81	Faecal Metaproteomic Analysis Reveals a Personalized and Stable Functional Microbiome and Limited Effects of a Probiotic Intervention in Adults. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153294	3.7	59
80	Selenoprotein biosynthesis defect causes progressive encephalopathy with elevated lactate. <i>Neurology</i> , <b>2015</b> , 85, 306-15	6.5	42
79	Vimentin-ERK Signaling Uncouples Slug Gene Regulatory Function. <i>Cancer Research</i> , <b>2015</b> , 75, 2349-62	10.1	84
78	Confident site localization using a simulated phosphopeptide spectral library. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 2348-59	5.6	22
77	Optimization of Statistical Methods Impact on Quantitative Proteomics Data. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 4118-26	5.6	41
76	Using Peptide-Level Proteomics Data for Detecting Differentially Expressed Proteins. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 4564-70	5.6	26
75	Discussion point: reporting guidelines for mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 2035-45	4.4	46
74	Label-free quantitative phosphoproteomics with novel pairwise abundance normalization reveals synergistic RAS and CIP2A signaling. <i>Scientific Reports</i> , <b>2015</b> , 5, 13099	4.9	38
73	Relevance Rank Platform (RRP) for Functional Filtering of High Content Protein-Protein Interaction Data. <i>Molecular and Cellular Proteomics</i> , <b>2015</b> , 14, 3274-83	7.6	12
72	Protein phosphatase 2A (PP2A) regulatory subunit B5 <sup>1</sup> interacts with cytoplasmic ACONITASE 3 and modulates the abundance of AOX1A and AOX1D in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , <b>2015</b> , 205, 1250-1263	9.8	42
71	Ovarian endometriosis signatures established through discovery and directed mass spectrometry analysis. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 4983-94	5.6	14
70	Cross-correlation of spectral count ranking to validate quantitative proteome measurements. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 1957-68	5.6	5
69	MSiMass list: a public database of identifications for protein MALDI MS imaging. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 1138-42	5.6	37
68	Proprotein convertase FURIN constrains Th2 differentiation and is critical for host resistance against <i>Toxoplasma gondii</i> . <i>Journal of Immunology</i> , <b>2014</b> , 193, 5470-9	5.3	23
67	Cathepsin D deficiency induces cytoskeletal changes and affects cell migration pathways in the brain. <i>Neurobiology of Disease</i> , <b>2013</b> , 50, 107-19	7.5	20
66	On-target ultrasonic digestion of proteins. <i>Proteomics</i> , <b>2013</b> , 13, 1423-7	4.8	13
65	Concanavalin-A induces granulosa cell death and inhibits FSH-mediated follicular growth and ovarian maturation in female rats. <i>Endocrinology</i> , <b>2013</b> , 154, 1885-96	4.8	4
64	Identification of protein interactions involved in cellular signaling. <i>Molecular and Cellular Proteomics</i> , <b>2013</b> , 12, 1752-63	7.6	60

63	Going forward: Increasing the accessibility of imaging mass spectrometry. <i>Journal of Proteomics</i> , <b>2012</b> , 75, 5113-5121	3.9	23
62	Isotopic labelling of peptides in tissues enhances mass spectrometric profiling. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 254-62	2.2	5
61	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> , <b>2012</b> , 109, 17639-44	11.5	5
60	The transition of the European Proteomics Association into the future. <i>Journal of Proteomics</i> , <b>2011</b> , 75, 18-22	3.9	
59	The human proteome project: current state and future direction. <i>Molecular and Cellular Proteomics</i> , <b>2011</b> , 10, M111.009993	7.6	249
58	Enrichment and sequencing of phosphopeptides on indium tin oxide coated glass slides. <i>Molecular BioSystems</i> , <b>2011</b> , 7, 1828-37		6
57	Identification of miR-193b targets in breast cancer cells and systems biological analysis of their functional impact. <i>Molecular and Cellular Proteomics</i> , <b>2011</b> , 10, M110.005322	7.6	54
56	Absence of ataxin-3 leads to enhanced stress response in <i>C. elegans</i> . <i>PLoS ONE</i> , <b>2011</b> , 6, e18512	3.7	19
55	Murine cathepsin D deficiency is associated with dysmyelination/myelin disruption and accumulation of cholesteryl esters in the brain. <i>Journal of Neurochemistry</i> , <b>2010</b> , 112, 193-203	6	25
54	Ataxin-3 plays a role in mouse myogenic differentiation through regulation of integrin subunit levels. <i>PLoS ONE</i> , <b>2010</b> , 5, e11728	3.7	24
53	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> , <b>2010</b> , 9, 1937-53	7.6	40
52	Peptide and protein imaging mass spectrometry in cancer research. <i>Journal of Proteomics</i> , <b>2010</b> , 73, 1921-44	3.9	130
51	Protein Information and Knowledge Extractor: Discovering biological information from proteomics data. <i>Proteomics</i> , <b>2010</b> , 10, 3262-71	4.8	7
50	Data combination from multiple matrix-assisted laser desorption/ionization (MALDI) matrices: opportunities and limitations for MALDI analysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 3493-5	2.2	2
49	Nitromatrix provides improved LC-MALDI signals and more protein identifications. <i>Proteomics</i> , <b>2009</b> , 9, 1662-71	4.8	9
48	Annual spring meeting of the Proteomics Standards Initiative. <i>Proteomics</i> , <b>2009</b> , 9, 4429-32	4.8	8
47	Phosphopeptide enrichment with stable spatial coordination on a titanium dioxide coated glass slide. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 3661-7	2.2	3
46	ATX-3, CDC-48 and UBXN-5: a new trimolecular complex in <i>Caenorhabditis elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 386, 575-81	3.4	13

45	Identification of differentially expressed proteins in Ficedula flycatchers. <i>Proteomics</i> , <b>2008</b> , 8, 2150-3	4.8	6
44	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> , <b>2008</b> , 154, 2387-2396	2.9	49
43	Promoting proteomics knowledge in Europe: report on the activities of the EuPA Education Committee 2006-2007. <i>Proteomics</i> , <b>2007</b> , 7 Suppl 1, 90-4	4.8	2
42	Reference-facilitated phosphoproteomics: fast and reliable phosphopeptide validation by microLC-ESI-Q-TOF MS/MS. <i>Molecular and Cellular Proteomics</i> , <b>2007</b> , 6, 1380-91	7.6	64
41	Offline Micro-IMAC Enrichment of Phosphoproteins. <i>Cold Spring Harbor Protocols</i> , <b>2007</b> , 2007, pdb.prot4624		
40	Analysis of Phosphopeptides by {micro}LC-ESI-MS/MS. <i>Cold Spring Harbor Protocols</i> , <b>2007</b> , 2007, pdb.prot4625		
39	Report. Proteomics education, an important challenge for the scientific community: report on the activities of the EuPA Education Committee. <i>Proteomics</i> , <b>2006</b> , 6 Suppl 2, 77-81	4.8	3
38	Identification of new Golgi complex specific proteins by direct organelle proteomic analysis. <i>Proteomics</i> , <b>2006</b> , 6, 3502-8	4.8	31
37	Correlation of proteomic and transcriptomic profiles of <i>Staphylococcus aureus</i> during the post-exponential phase of growth. <i>Journal of Microbiological Methods</i> , <b>2005</b> , 60, 247-57	2.8	55
36	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> , <b>2005</b> , 105, 2812-20	2.2	34
35	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> , <b>2005</b> , 94, 688-94	3.9	8
34	Characterization of heat shock protein 27 phosphorylation sites in renal cell carcinoma. <i>Proteomics</i> , <b>2005</b> , 5, 788-95	4.8	25
33	The European Proteomics Association (EuPA) is in the field. Report of the formal inauguration of the European Proteome Association (Munich, Germany, August 29, 2005). <i>Proteomics</i> , <b>2005</b> , 5, 4648-50	4.8	2
32	Identification of phosphorylation sites using microimmobilized metal affinity chromatography. <i>Methods in Enzymology</i> , <b>2005</b> , 405, 66-81	1.7	43
31	Discovery of New Diagnostic Markers of Stroke <b>2004</b> , 57-72		
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> , <b>2004</b> , 161, 495-503	3.1	10
29	Human Cerebrospinal Fluid <b>2004</b> , 341-353		
28	Akt mediates insulin-stimulated phosphorylation of NdrG2: evidence for cross-talk with protein kinase C theta. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 18623-32	5.4	67

27	Nonredundant mass spectrometry: a strategy to integrate mass spectrometry acquisition and analysis. <i>Proteomics</i> , <b>2004</b> , 4, 917-27	4.8	31
26	Cross-species identification of proteins from proteome profiles of the marine oligotrophic ultramicrobacterium, <i>Sphingopyxis alaskensis</i> . <i>Proteomics</i> , <b>2004</b> , 4, 1779-88	4.8	21
25	Cystatin C as a potential cerebrospinal fluid marker for the diagnosis of Creutzfeldt-Jakob disease. <i>Proteomics</i> , <b>2004</b> , 4, 2229-33	4.8	89
24	ApoC-I and ApoC-III as potential plasmatic markers to distinguish between ischemic and hemorrhagic stroke. <i>Proteomics</i> , <b>2004</b> , 4, 2242-51	4.8	101
23	N-t-butyliodoacetamide and iodoacetanilide: two new cysteine alkylating reagents for relative quantitation of proteins. <i>Rapid Communications in Mass Spectrometry</i> , <b>2004</b> , 18, 117-27	2.2	32
22	The molecular scanner: concept and developments. <i>Current Opinion in Biotechnology</i> , <b>2004</b> , 15, 17-23	11.4	26
21	Tumor Protein D52 (TPD52): A Novel B Cell/Plasma Cell Molecule Identified through a Proteomic Approach and Characterized by Unique Expression Pattern and Ca <sup>2+</sup> -Dependent Association with Annexin VI.. <i>Blood</i> , <b>2004</b> , 104, 3652-3652	2.2	
20	A panel of cerebrospinal fluid potential biomarkers for the diagnosis of Alzheimer's disease. <i>Proteomics</i> , <b>2003</b> , 3, 1486-94	4.8	312
19	Exploitation of specific properties of trifluoroethanol for extraction and separation of membrane proteins. <i>Proteomics</i> , <b>2003</b> , 3, 1418-24	4.8	72
18	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> , <b>2003</b> , 278, 21805-13	5.4	173
17	Gradiflow as a prefractionation tool for two-dimensional electrophoresis. <i>Proteomics</i> , <b>2002</b> , 2, 1254-60	4.8	32
16	Proteomic tools for biomedicine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2002</b> , 771, 33-48	3.2	29
15	Proteomics in clinical and fundamental medicine. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , <b>2002</b> , 62, 7-7	2	
14	The dynamic range of protein expression: a challenge for proteomic research. <i>Electrophoresis</i> , <b>2000</b> , 21, 1104-15	3.6	530
13	Comprehensive analyses of prostate gene expression: convergence of expressed sequence tag databases, transcript profiling and proteomics. <i>Electrophoresis</i> , <b>2000</b> , 21, 1823-31	3.6	68
12	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> , <b>2000</b> , 97, 9390-5	11.5	1131
11	The dynamic range of protein expression: A challenge for proteomic research <b>2000</b> , 21, 1104		11
10	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> , <b>1999</b> , 274, 30101-8	5.4	257

9	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> , <b>1999</b> , 71, 2279-87	7.8	53
8	A gene encoding a novel RFX-associated transactivator is mutated in the majority of MHC class II deficiency patients. <i>Nature Genetics</i> , <b>1998</b> , 20, 273-7	36.3	240
7	Expression of a tyrosine phosphorylated, DNA binding Stat3beta dimer in bacteria. <i>FEBS Letters</i> , <b>1998</b> , 441, 141-7	3.8	33
6	Purification by reflux electrophoresis of whey proteins and of a recombinant protein expressed in <i>Dictyostelium discoideum</i> . <i>Journal of Chromatography A</i> , <b>1997</b> , 773, 299-309	4.5	14
5	Prefractionation of protein samples prior to two-dimensional electrophoresis. <i>Electrophoresis</i> , <b>1997</b> , 18, 317-23	3.6	80
4	The role of pH and membrane porosity in preparative electrophoresis. <i>Electrophoresis</i> , <b>1996</b> , 17, 771-5	3.6	17
3	Preparative reflux electrophoresis. <i>Electrophoresis</i> , <b>1995</b> , 16, 98-100	3.6	43
2	Multifunctional apparatus for electrokinetic processing of proteins. <i>Electrophoresis</i> , <b>1994</b> , 15, 968-71	3.6	59
1	Rules for PP2A-controlled phosphosignalling and drug responses		3