

Lars Malmström

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

6,650
citations

94433

37
h-index

71685

76
g-index

91
all docs

91
docs citations

91
times ranked

9761
citing authors

#	ARTICLE	IF	CITATIONS
1	OpenSWATH enables automated, targeted analysis of data-independent acquisition MS data. <i>Nature Biotechnology</i> , 2014, 32, 219-223.	17.5	692
2	OpenMS: a flexible open-source software platform for mass spectrometry data analysis. <i>Nature Methods</i> , 2016, 13, 741-748.	19.0	537
3	Macromolecular modeling and design in Rosetta: recent methods and frameworks. <i>Nature Methods</i> , 2020, 17, 665-680.	19.0	513
4	An objective comparison of cell-tracking algorithms. <i>Nature Methods</i> , 2017, 14, 1141-1152.	19.0	399
5	Structural Probing of a Protein Phosphatase 2A Network by Chemical Cross-Linking and Mass Spectrometry. <i>Science</i> , 2012, 337, 1348-1352.	12.6	357
6	Automated prediction of CASP-5 structures using the Robetta server. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 53, 524-533.	2.6	261
7	Assigning Function to Yeast Proteins by Integration of Technologies. <i>Molecular Cell</i> , 2003, 12, 1353-1365.	9.7	248
8	De Novo Prediction of Three-dimensional Structures for Major Protein Families. <i>Journal of Molecular Biology</i> , 2002, 322, 65-78.	4.2	237
9	Structure prediction for CASP7 targets using extensive all-atom refinement with Rosetta@home. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 69, 118-128.	2.6	178
10	TRIC: an automated alignment strategy for reproducible protein quantification in targeted proteomics. <i>Nature Methods</i> , 2016, 13, 777-783.	19.0	173
11	An Automated Pipeline for High-Throughput Label-Free Quantitative Proteomics. <i>Journal of Proteome Research</i> , 2013, 12, 1628-1644.	3.7	146
12	Cross-Link Guided Molecular Modeling with ROSETTA. <i>PLoS ONE</i> , 2013, 8, e73411.	2.5	144
13	Free modeling with Rosetta in CASP6. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 128-134.	2.6	131
14	Xwalk: computing and visualizing distances in cross-linking experiments. <i>Bioinformatics</i> , 2011, 27, 2163-2164.	4.1	130
15	Prediction of CASP6 structures using automated rosetta protocols. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 157-166.	2.6	124
16	Inference and quantification of peptidoforms in large sample cohorts by SWATH-MS. <i>Nature Biotechnology</i> , 2017, 35, 781-788.	17.5	122
17	openBIS: a flexible framework for managing and analyzing complex data in biology research. <i>BMC Bioinformatics</i> , 2011, 12, 468.	2.6	114
18	pyOpenMS: A Python-based interface to the OpenMS mass spectrometry algorithm library. <i>Proteomics</i> , 2014, 14, 74-77.	2.2	109

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19	FAIRDOMHub: a repository and collaboration environment for sharing systems biology research. <i>Nucleic Acids Research</i> , 2017, 45, D404-D407.	14.5	98
20	DIANA algorithmic improvements for analysis of data-independent acquisition MS data. <i>Bioinformatics</i> , 2015, 31, 555-562.	4.1	95
21	A Computational Tool to Detect and Avoid Redundancy in Selected Reaction Monitoring. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 540-549.	3.8	90
22	Large-scale inference of protein tissue origin in gram-positive sepsis plasma using quantitative targeted proteomics. <i>Nature Communications</i> , 2016, 7, 10261.	12.8	88
23	Automated prediction of domain boundaries in CASP6 targets using Ginzu and RosettaDOM. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 193-200.	2.6	85
24	xTract: software for characterizing conformational changes of protein complexes by quantitative cross-linking mass spectrometry. <i>Nature Methods</i> , 2015, 12, 1185-1190.	19.0	83
25	Identification of a Set of Conserved Eukaryotic Internal Retention Time Standards for Data-independent Acquisition Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2800-2813.	3.8	76
26	Comprehensive ADP-ribosylome analysis identifies tyrosine as an ADP-ribose acceptor site. <i>EMBO Reports</i> , 2018, 19, .	4.5	75
27	The SIB Swiss Institute of Bioinformatics resources: focus on curated databases. <i>Nucleic Acids Research</i> , 2016, 44, D27-D37.	14.5	64
28	Proteome-wide selected reaction monitoring assays for the human pathogen <i>Streptococcus pyogenes</i> . <i>Nature Communications</i> , 2012, 3, 1301.	12.8	63
29	aLFQ: an R-package for estimating absolute protein quantities from label-free LC-MS/MS proteomics data. <i>Bioinformatics</i> , 2014, 30, 2511-2513.	4.1	63
30	Quantitative proteomic characterization of the lung extracellular matrix in chronic obstructive pulmonary disease and idiopathic pulmonary fibrosis. <i>Journal of Proteomics</i> , 2018, 189, 23-33.	2.4	61
31	The importance of fibroblasts in remodelling of the human uterine cervix during pregnancy and parturition. <i>Molecular Human Reproduction</i> , 2007, 13, 333-341.	2.8	60
32	iPortal: the swiss grid proteomics portal: Requirements and new features based on experience and usability considerations. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 433-445.	2.2	54
33	Numerical Compression Schemes for Proteomics Mass Spectrometry Data. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1537-1542.	3.8	53
34	Superfamily Assignments for the Yeast Proteome through Integration of Structure Prediction with the Gene Ontology. <i>PLoS Biology</i> , 2007, 5, e76.	5.6	48
35	Deciphering diatom biochemical pathways via whole-cell proteomics. <i>Aquatic Microbial Ecology</i> , 2009, 55, 241-253.	1.8	48
36	Rapid determination of quaternary protein structures in complex biological samples. <i>Nature Communications</i> , 2019, 10, 192.	12.8	47

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37	Reproducible quantitative proteotype data matrices for systems biology. <i>Molecular Biology of the Cell</i> , 2015, 26, 3926-3931.	2.1	46
38	A divergent <i>Pseudomonas aeruginosa</i> palmitoyltransferase essential for cystic fibrosis-specific lipid A. <i>Molecular Microbiology</i> , 2014, 91, 158-174.	2.5	42
39	The Proteome Folding Project: Proteome-scale prediction of structure and function. <i>Genome Research</i> , 2011, 21, 1981-1994.	5.5	40
40	A quantitative <i>Streptococcus pyogenes</i> "human protein" protein interaction map reveals localization of opsonizing antibodies. <i>Nature Communications</i> , 2019, 10, 2727.	12.8	36
41	<i>Streptococcus pyogenes</i> in Human Plasma. <i>Journal of Biological Chemistry</i> , 2012, 287, 1415-1425.	3.4	35
42	Spike-Dependent Opsonization Indicates Both Dose-Dependent Inhibition of Phagocytosis and That Non-Neutralizing Antibodies Can Confer Protection to SARS-CoV-2. <i>Frontiers in Immunology</i> , 2021, 12, 808932.	4.8	34
43	A Combined Shotgun and Targeted Mass Spectrometry Strategy for Breast Cancer Biomarker Discovery. <i>Journal of Proteome Research</i> , 2015, 14, 2807-2818.	3.7	33
44	Proteome Annotations and Identifications of the Human Pulmonary Fibroblast. <i>Journal of Proteome Research</i> , 2004, 3, 525-537.	3.7	31
45	Quantitative proteogenomics of human pathogens using DIA-MS. <i>Journal of Proteomics</i> , 2015, 129, 98-107.	2.4	28
46	Identification of the Active Site of DS-epimerase 1 and Requirement of N-Glycosylation for Enzyme Function. <i>Journal of Biological Chemistry</i> , 2009, 284, 1741-1747.	3.4	27
47	Nanocapillary liquid chromatography interfaced to tandem matrix-assisted laser desorption/ionization and electrospray ionization-mass spectrometry: Mapping the nuclear proteome of human fibroblasts. <i>Electrophoresis</i> , 2003, 24, 3806-3814.	2.4	26
48	The Yeast Resource Center Public Data Repository. <i>Nucleic Acids Research</i> , 2004, 33, D378-D382.	14.5	25
49	Identification of secreted glycoproteins of human prostate and bladder stromal cells by comparative quantitative proteomics. <i>Prostate</i> , 2009, 69, 49-61.	2.3	24
50	Quantitative proteomics of microbes: Principles and applications to virulence. <i>Proteomics</i> , 2011, 11, 2947-2956.	2.2	24
51	Targeted Proteomics and Absolute Protein Quantification for the Construction of a Stoichiometric Host-Pathogen Surface Density Model. <i>Molecular and Cellular Proteomics</i> , 2017, 16, S29-S41.	3.8	23
52	The path to preservation: Using proteomics to decipher the fate of diatom proteins during microbial degradation. <i>Limnology and Oceanography</i> , 2010, 55, 1790-1804.	3.1	22
53	2DDB - a bioinformatics solution for analysis of quantitative proteomics data. <i>BMC Bioinformatics</i> , 2006, 7, 158.	2.6	20
54	Bioinformatic Challenges in Targeted Proteomics. <i>Journal of Proteome Research</i> , 2012, 11, 4393-4402.	3.7	20

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55	Automated Workflow for Large-Scale Selected Reaction Monitoring Experiments. <i>Journal of Proteome Research</i> , 2012, 11, 1644-1653.	3.7	20
56	Proteomic 2DE Database for Spot Selection, Automated Annotation, and Data Analysis. <i>Journal of Proteome Research</i> , 2002, 1, 135-138.	3.7	19
57	Fast and Efficient XML Data Access for Next-Generation Mass Spectrometry. <i>PLoS ONE</i> , 2015, 10, e0125108.	2.5	17
58	Splicosomal and serine and arginine-rich splicing factors as targets for TGF- β 2. <i>Fibrogenesis and Tissue Repair</i> , 2012, 5, 6.	3.4	16
59	Deciphering the mode of action of the processive polysaccharide modifying enzyme dermatan sulfate epimerase 1 by hydrogen-deuterium exchange mass spectrometry. <i>Chemical Science</i> , 2016, 7, 1447-1456.	7.4	16
60	Efficient visualization of high-throughput targeted proteomics experiments: TAPIR. <i>Bioinformatics</i> , 2015, 31, 2415-2417.	4.1	14
61	Extracellular Vesicle-Contained microRNA of <i>C. elegans</i> as a Tool to Decipher the Molecular Basis of Nematode Parasitism. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 217.	3.9	14
62	Proteogenomic Workflow Reveals Molecular Phenotypes Related to Breast Cancer Mammographic Appearance. <i>Journal of Proteome Research</i> , 2021, 20, 2983-3001.	3.7	14
63	Structural proteomics, electron cryo-microscopy and structural modeling approaches in bacteria-human protein interactions. <i>Medical Microbiology and Immunology</i> , 2020, 209, 265-275.	4.8	13
64	Cerebrospinal fluid proteome maps detect pathogen-specific host response patterns in meningitis. <i>ELife</i> , 2021, 10, .	6.0	13
65	<i>Streptococcus pyogenes</i> Forms Serotype- and Local Environment-Dependent Interspecies Protein Complexes. <i>MSystems</i> , 2021, 6, e0027121.	3.8	13
66	Structural determination of <i>Streptococcus pyogenes</i> M1 protein interactions with human immunoglobulin G using integrative structural biology. <i>PLoS Computational Biology</i> , 2021, 17, e1008169.	3.2	12
67	Using synthetic peptides to benchmark peptide identification software and search parameters for MS/MS data analysis. <i>EuPA Open Proteomics</i> , 2014, 5, 21-31.	2.5	8
68	In vivo Cross-Linking MS of the Complement System MAC Assembled on Live Gram-Positive Bacteria. <i>Frontiers in Genetics</i> , 2020, 11, 612475.	2.3	7
69	Functional and Structural Properties of a Novel Protein and Virulence Factor (Protein sHIP) in <i>Streptococcus pyogenes</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 18175-18188.	3.4	6
70	Protein Structure Modeling. <i>Methods in Molecular Biology</i> , 2010, 673, 63-72.	0.9	6
71	Proteomics: A new research area for the biomedical field. <i>Journal of Organ Dysfunction</i> , 2005, 1, 83-94.	0.3	5
72	On the use of hydrogen/deuterium exchange mass spectrometry data to improve <i>de novo</i> protein structure prediction. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 459-461.	1.5	4

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73	Greedy de novo motif discovery to construct motif repositories for bacterial proteomes. BMC Bioinformatics, 2019, 20, 141.	2.6	4
74	Proteomics analysis of liver pathological calcification suggests a role for the IQ motif containing GTPase activating protein 1 in myofibroblast function. Proteomics - Clinical Applications, 2009, 3, 307-321.	1.6	3
75	Computational Proteomics with Jupyter and Python. Methods in Molecular Biology, 2019, 1977, 237-248.	0.9	3
76	The structure of human dermatan sulfate epimerase 1 emphasizes the importance of C5-epimerization of glucuronic acid in higher organisms. Chemical Science, 2021, 12, 1869-1885.	7.4	3
77	Business intelligence strategies enables rapid analysis of quantitative proteomics data. Journal of Proteome Science and Computational Biology, 2012, 1, 5.	1.0	3
78	Accelerating 3D Protein Modeling Using Cloud Computing: Using Rosetta as a Service on the IBM SmartCloud. , 2011, , .		2
79	Quality Assessment of Low Free-Energy Protein Structure Predictions. , 0, , .		0
80	Cheetah-MS: a web server to model protein complexes using tandem cross-linking mass spectrometry data. Bioinformatics, 2021, 37, 4871-4872.	4.1	0
81	Proteome Analysis Pipeline. , 2013, , 1792-1794.		0
82	Quaternary Structure Modeling Through Chemical Cross-Linking Mass Spectrometry: Extending TX-MS Jupyter Reports. Journal of Visualized Experiments, 2021, , .	0.3	0