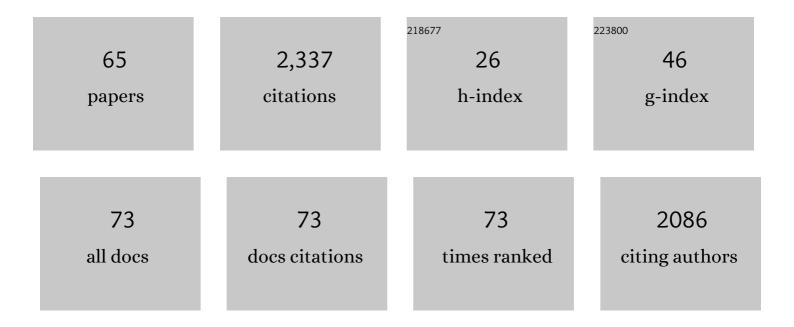
## Xiaowen Liu

List of Publications by Year in descending order

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XIAOWEN LILL

#	Article	IF	CITATIONS
1	TopPIC: a software tool for top-down mass spectrometry-based proteoform identification and characterization. Bioinformatics, 2016, 32, 3495-3497.	4.1	179
2	Identification and Quantification of Proteoforms by Mass Spectrometry. Proteomics, 2019, 19, e1800361.	2.2	147
3	Deconvolution and Database Search of Complex Tandem Mass Spectra of Intact Proteins. Molecular and Cellular Proteomics, 2010, 9, 2772-2782.	3.8	145
4	Computing the maximum similarity bi-clusters of gene expression data. Bioinformatics, 2007, 23, 50-56.	4.1	142
5	Top-down proteomics reveals a unique protein S-thiolation switch in <i>Salmonella</i> Typhimurium in response to infection-like conditions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10153-10158.	7.1	140
6	Protein Identification Using Top-Down Spectra. Molecular and Cellular Proteomics, 2012, 11, M111.008524.	3.8	127
7	MASH Suite Pro: A Comprehensive Software Tool for Top-Down Proteomics. Molecular and Cellular Proteomics, 2016, 15, 703-714.	3.8	111
8	Top-down Proteomics Reveals Concerted Reductions in Myofilament and Z-disc Protein Phosphorylation after Acute Myocardial Infarction. Molecular and Cellular Proteomics, 2014, 13, 2752-2764.	3.8	96
9	Deep Top-Down Proteomics Using Capillary Zone Electrophoresis-Tandem Mass Spectrometry: Identification of 5700 Proteoforms from the <i>Escherichia coli</i> Proteome. Analytical Chemistry, 2018, 90, 5529-5533.	6.5	95
10	Single-Shot Top-Down Proteomics with Capillary Zone Electrophoresis-Electrospray Ionization-Tandem Mass Spectrometry for Identification of Nearly 600 <i>Escherichia coli</i> Proteoforms. Analytical Chemistry, 2017, 89, 12059-12067.	6.5	75
11	Improving protein order-disorder classification using charge-hydropathy plots. BMC Bioinformatics, 2014, 15, S4.	2.6	63
12	Dereplicating nonribosomal peptides using an informatic search algorithm for natural products (iSNAP) discovery. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19196-19201.	7.1	62
13	MASH Explorer: A Universal Software Environment for Top-Down Proteomics. Journal of Proteome Research, 2020, 19, 3867-3876.	3.7	62
14	Native Proteomics in Discovery Mode Using Size-Exclusion Chromatography–Capillary Zone Electrophoresis–Tandem Mass Spectrometry. Analytical Chemistry, 2018, 90, 10095-10099.	6.5	53
15	<i>De Novo</i> Protein Sequencing by Combining Top-Down and Bottom-Up Tandem Mass Spectra. Journal of Proteome Research, 2014, 13, 3241-3248.	3.7	51
16	Identification of Ultramodified Proteins Using Top-Down Tandem Mass Spectra. Journal of Proteome Research, 2013, 12, 5830-5838.	3.7	47
17	Top-down analysis of immunoglobulin G isotypes 1 and 2 with electron transfer dissociation on a high-field Orbitrap mass spectrometer. Journal of Proteomics, 2017, 159, 67-76.	2.4	47
18	Quantitative analysis of human salivary glandâ€derived intact proteome using topâ€down mass spectrometry. Proteomics, 2014, 14, 1211-1222.	2.2	44

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#	Article	IF	CITATIONS
19	Large-Scale Qualitative and Quantitative Top-Down Proteomics Using Capillary Zone Electrophoresis-Electrospray Ionization-Tandem Mass Spectrometry with Nanograms of Proteome Samples. Journal of the American Society for Mass Spectrometry, 2019, 30, 1435-1445.	2.8	41
20	Automated protein (re)sequencing with MS/MS and a homologous database yields almost full coverage and accuracy. Bioinformatics, 2009, 25, 2174-2180.	4.1	33
21	Proteomic Characterization Reveals That MMP-3 Correlates With Bronchiolitis Obliterans Syndrome Following Allogeneic Hematopoietic Cell and Lung Transplantation. American Journal of Anromalimatoralting="sil_gif40verflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd"	4.7	32
22	xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	1.2	31
23	xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x De Novo Sequencing of Peptides from Top-Down Tandem Mass Spectra. Journal of Proteome Research, 2015, 14, 4450-4462.	3.7	31
24	Quantitative Top-Down Proteomics in Complex Samples Using Protein-Level Tandem Mass Tag Labeling. Journal of the American Society for Mass Spectrometry, 2021, 32, 1336-1344.	2.8	31
25	A mass graph-based approach for the identification of modified proteoforms using top-down tandem mass spectra. Bioinformatics, 2017, 33, 1309-1316.	4.1	30
26	Modeling Protein Interacting Groups by Quasi-Bicliques: Complexity, Algorithm, and Application. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2010, 7, 354-364.	3.0	28
27	Deep Intact Proteoform Characterization in Human Cell Lysate Using High-pH and Low-pH Reversed-Phase Liquid Chromatography. Journal of the American Society for Mass Spectrometry, 2019, 30, 2502-2513.	2.8	28
28	Better score function for peptide identification with ETD MS/MS spectra. BMC Bioinformatics, 2010, 11, S4.	2.6	26
29	Correlation Analysis of Histopathology and Proteogenomics Data for Breast Cancer. Molecular and Cellular Proteomics, 2019, 18, S37-S51.	3.8	24
30	Characterization of Proteoforms with Unknown Post-translational Modifications Using the MIScore. Journal of Proteome Research, 2016, 15, 2422-2432.	3.7	22
31	Top-down Mass Spectrometry Analysis of Human Serum Autoantibody Antigen-Binding Fragments. Scientific Reports, 2019, 9, 2345.	3.3	21
32	Large-scale Top-down Proteomics Using Capillary Zone Electrophoresis Tandem Mass Spectrometry. Journal of Visualized Experiments, 2018, , .	0.3	17
33	Capillary Zone Electrophoresis-Tandem Mass Spectrometry with Activated Ion Electron Transfer Dissociation for Large-scale Top-down Proteomics. Journal of the American Society for Mass Spectrometry, 2019, 30, 2470-2479.	2.8	17
34	Development of an Online 2D Ultrahigh-Pressure Nano-LC System for High-pH and Low-pH Reversed Phase Separation in Top-Down Proteomics. Analytical Chemistry, 2020, 92, 12774-12777.	6.5	17
35	Quasi-bicliques: Complexity and Binding Pairs. Lecture Notes in Computer Science, 2008, , 255-264.	1.3	16
36	Spectral probabilities of top-down tandem mass spectra. BMC Genomics, 2014, 15, S9.	2.8	14

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#	Article	IF	CITATIONS
37	Top-down analysis of protein samples by <i>de novo</i> sequencing techniques. Bioinformatics, 2016, 32, 2753-2759.	4.1	14
38	SpectroGene: A Tool for Proteogenomic Annotations Using Top-Down Spectra. Journal of Proteome Research, 2016, 15, 144-151.	3.7	14
39	Identification of Glycopeptides with Multiple Hydroxylysine O-Glycosylation Sites by Tandem Mass Spectrometry. Journal of Proteome Research, 2015, 14, 5099-5108.	3.7	13
40	A (1.5 + Îμ)-Approximation Algorithm for Unsigned Translocation Distance. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2008, 5, 56-66.	3.0	12
41	Speeding up tandem mass spectral identification using indexes. Bioinformatics, 2012, 28, 1692-1697.	4.1	12
42	A new scoring function for top-down spectral deconvolution. BMC Genomics, 2014, 15, 1140.	2.8	12
43	An efficient algorithm for the blocked pattern matching problem. Bioinformatics, 2015, 31, 532-538.	4.1	11
44	Systematic Evaluation of Protein Sequence Filtering Algorithms for Proteoform Identification Using Topâ€Down Mass Spectrometry. Proteomics, 2018, 18, 1700306.	2.2	10
45	Optimization of protein-level tandem mass tag (TMT) labeling conditions in complex samples with top-down proteomics. Analytica Chimica Acta, 2022, 1221, 340037.	5.4	10
46	Back Cover: Identification and Quantification of Proteoforms by Mass Spectrometry. Proteomics, 2019, 19, 1970085.	2.2	9
47	Finding the region of pseudo-periodic tandem repeats in biological sequences. Algorithms for Molecular Biology, 2006, 1, 2.	1.2	8
48	EnvCNN: A Convolutional Neural Network Model for Evaluating Isotopic Envelopes in Top-Down Mass-Spectral Deconvolution. Analytical Chemistry, 2020, 92, 7778-7785.	6.5	7
49	Proteoform Identification by Combining RNA-Seq and Top-Down Mass Spectrometry. Journal of Proteome Research, 2021, 20, 261-269.	3.7	7
50	De Novo Sequencing of Peptides from Highâ€Resolution Bottomâ€Up Tandem Mass Spectra using Topâ€Down Intended Methods. Proteomics, 2017, 17, 1600321.	2.2	6
51	A spectrum graph-based protein sequence filtering algorithm for proteoform identification by top-down mass spectrometry. , 2017, 2017, 222-229.		5
52	Approximation Algorithms for Biclustering Problems. SIAM Journal on Computing, 2008, 38, 1504-1518.	1.0	4
53	An Efficient Voting Algorithm for Finding Additive Biclusters with Random Background. Journal of Computational Biology, 2008, 15, 1275-1293.	1.6	4
54	Evaluation of top-down mass spectral identification with homologous protein sequences. BMC Bioinformatics, 2018, 19, 494.	2.6	4

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#	Article	IF	CITATIONS
55	TopMSV: A Web-Based Tool for Top-Down Mass Spectrometry Data Visualization. Journal of the American Society for Mass Spectrometry, 2021, 32, 1312-1318.	2.8	4
56	A graph-based approach for proteoform identification and quantification using top-down homogeneous multiplexed tandem mass spectra. BMC Bioinformatics, 2018, 19, 280.	2.6	3
57	A Markov Chain Monte Carlo Method for Estimating the Statistical Significance of Proteoform Identifications by Top-Down Mass Spectrometry. Journal of Proteome Research, 2019, 18, 878-889.	3.7	3
58	Filling a Protein Scaffold With a Reference. IEEE Transactions on Nanobioscience, 2017, 16, 123-130.	3.3	2
59	The Longest Common Exemplar Subsequence Problem. , 2018, , .		2
60	Sorting a Permutation by Best Short Swaps. Algorithmica, 2021, 83, 1953-1979.	1.3	2
61	Identification of Ultramodified Proteins Using Top-Down Spectra. Lecture Notes in Computer Science, 2013, , 132-144.	1.3	2
62	Evaluation of Machine Learning Models for Proteoform Retention and Migration Time Prediction in Top-Down Mass Spectrometry. Journal of Proteome Research, 2022, 21, 1736-1747.	3.7	2
63	Finding Additive Biclusters with Random Background. , 2008, , 263-276.		1
64	Filling a Protein Scaffold with a Reference. Lecture Notes in Computer Science, 2016, , 175-186.	1.3	0
65	TopPIC Gateway: A Web Gateway for Top-Down Mass Spectrometry Data Interpretation. , 2020, , .		0