

Ruedi Aebersold

List of Publications by Year in descending order

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293
papers

63,878
citations

1457

107
h-index

959

238
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338
all docs

338
docs citations

338
times ranked

63522
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass spectrometry-based proteomics. <i>Nature</i> , 2003, 422, 198-207.	13.7	6,282
2	Empirical Statistical Model To Estimate the Accuracy of Peptide Identifications Made by MS/MS and Database Search. <i>Analytical Chemistry</i> , 2002, 74, 5383-5392.	3.2	4,503
3	Targeted Data Extraction of the MS/MS Spectra Generated by Data-independent Acquisition: A New Concept for Consistent and Accurate Proteome Analysis. <i>Molecular and Cellular Proteomics</i> , 2012, 11, O111.016717.	2.5	2,285
4	On the Dependency of Cellular Protein Levels on mRNA Abundance. <i>Cell</i> , 2016, 165, 535-550.	13.5	2,216
5	Integrated Genomic and Proteomic Analyses of a Systematically Perturbed Metabolic Network. <i>Science</i> , 2001, 292, 929-934.	6.0	1,921
6	Checkpoint blockade cancer immunotherapy targets tumour-specific mutant antigens. <i>Nature</i> , 2014, 515, 577-581.	13.7	1,705
7	Mass-spectrometric exploration of proteome structure and function. <i>Nature</i> , 2016, 537, 347-355.	13.7	1,573
8	The CRAPome: a contaminant repository for affinity purification-based mass spectrometry data. <i>Nature Methods</i> , 2013, 10, 730-736.	9.0	1,353
9	Selected reaction monitoring for quantitative proteomics: a tutorial. <i>Molecular Systems Biology</i> , 2008, 4, 222.	3.2	1,215
10	Selected reaction monitoring-based proteomics: workflows, potential, pitfalls and future directions. <i>Nature Methods</i> , 2012, 9, 555-566.	9.0	1,177
11	Quantitative profiling of differentiation-induced microsomal proteins using isotope-coded affinity tags and mass spectrometry. <i>Nature Biotechnology</i> , 2001, 19, 946-951.	9.4	913
12	NAD ⁺ repletion improves mitochondrial and stem cell function and enhances life span in mice. <i>Science</i> , 2016, 352, 1436-1443.	6.0	907
13	Interpretation of Shotgun Proteomic Data. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1419-1440.	2.5	904
14	The PeptideAtlas project. <i>Nucleic Acids Research</i> , 2006, 34, D655-D658.	6.5	733
15	A common open representation of mass spectrometry data and its application to proteomics research. <i>Nature Biotechnology</i> , 2004, 22, 1459-1466.	9.4	724
16	A guided tour of the Trans-Proteomic Pipeline. <i>Proteomics</i> , 2010, 10, 1150-1159.	1.3	710
17	Data-independent acquisition-based SWATH-MS for quantitative proteomics: a tutorial. <i>Molecular Systems Biology</i> , 2018, 14, e8126.	3.2	701
18	The minimum information about a proteomics experiment (MIAPE). <i>Nature Biotechnology</i> , 2007, 25, 887-893.	9.4	694

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19	OpenSWATH enables automated, targeted analysis of data-independent acquisition MS data. <i>Nature Biotechnology</i> , 2014, 32, 219-223.	9.4	692
20	The quantitative proteome of a human cell line. <i>Molecular Systems Biology</i> , 2011, 7, 549.	3.2	691
21	The quantitative and condition-dependent <i>Escherichia coli</i> proteome. <i>Nature Biotechnology</i> , 2016, 34, 104-110.	9.4	655
22	Options and considerations when selecting a quantitative proteomics strategy. <i>Nature Biotechnology</i> , 2010, 28, 710-721.	9.4	581
23	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018, 14, 206-214.	3.9	580
24	Reproducible isolation of distinct, overlapping segments of the phosphoproteome. <i>Nature Methods</i> , 2007, 4, 231-237.	9.0	555
25	OpenMS: a flexible open-source software platform for mass spectrometry data analysis. <i>Nature Methods</i> , 2016, 13, 741-748.	9.0	537
26	Quantitative Analysis of Fission Yeast Transcriptomes and Proteomes in Proliferating and Quiescent Cells. <i>Cell</i> , 2012, 151, 671-683.	13.5	513
27	iProphet: Multi-level Integrative Analysis of Shotgun Proteomic Data Improves Peptide and Protein Identification Rates and Error Estimates. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.007690.	2.5	490
28	Development and validation of a spectral library searching method for peptide identification from MS/MS. <i>Proteomics</i> , 2007, 7, 655-667.	1.3	487
29	mProphet: automated data processing and statistical validation for large-scale SRM experiments. <i>Nature Methods</i> , 2011, 8, 430-435.	9.0	481
30	Multi-laboratory assessment of reproducibility, qualitative and quantitative performance of SWATH-mass spectrometry. <i>Nature Communications</i> , 2017, 8, 291.	5.8	423
31	Molecular architecture of the 26S proteasome holocomplex determined by an integrative approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1380-1387.	3.3	422
32	Probing Native Protein Structures by Chemical Cross-linking, Mass Spectrometry, and Bioinformatics. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1634-1649.	2.5	407
33	Proteome-wide cellular protein concentrations of the human pathogen <i>Leptospira interrogans</i> . <i>Nature</i> , 2009, 460, 762-765.	13.7	402
34	diaPASEF: parallel accumulation-serial fragmentation combined with data-independent acquisition. <i>Nature Methods</i> , 2020, 17, 1229-1236.	9.0	387
35	Identification of cross-linked peptides from large sequence databases. <i>Nature Methods</i> , 2008, 5, 315-318.	9.0	379
36	A repository of assays to quantify 10,000 human proteins by SWATH-MS. <i>Scientific Data</i> , 2014, 1, 140031.	2.4	370

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37	Rapid mass spectrometric conversion of tissue biopsy samples into permanent quantitative digital proteome maps. <i>Nature Medicine</i> , 2015, 21, 407-413.	15.2	358
38	Structural Probing of a Protein Phosphatase 2A Network by Chemical Cross-Linking and Mass Spectrometry. <i>Science</i> , 2012, 337, 1348-1352.	6.0	357
39	A Mass Spectrometric-Derived Cell Surface Protein Atlas. <i>PLoS ONE</i> , 2015, 10, e0121314.	1.1	356
40	The study of macromolecular complexes by quantitative proteomics. <i>Nature Genetics</i> , 2003, 33, 349-355.	9.4	350
41	The complete structure of the 55 <i>S</i> mammalian mitochondrial ribosome. <i>Science</i> , 2015, 348, 303-308.	6.0	344
42	Crosslinking and Mass Spectrometry: An Integrated Technology to Understand the Structure and Function of Molecular Machines. <i>Trends in Biochemical Sciences</i> , 2016, 41, 20-32.	3.7	330
43	A multicenter study benchmarks software tools for label-free proteome quantification. <i>Nature Biotechnology</i> , 2016, 34, 1130-1136.	9.4	321
44	Crucial HSP70 co-chaperone complex unlocks metazoan protein disaggregation. <i>Nature</i> , 2015, 524, 247-251.	13.7	320
45	Building high-quality assay libraries for targeted analysis of SWATH MS data. <i>Nature Protocols</i> , 2015, 10, 426-441.	5.5	319
46	A complete mass-spectrometric map of the yeast proteome applied to quantitative trait analysis. <i>Nature</i> , 2013, 494, 266-270.	13.7	307
47	Quantifying protein interaction dynamics by SWATH mass spectrometry: application to the 14-3-3 system. <i>Nature Methods</i> , 2013, 10, 1246-1253.	9.0	302
48	Quantitative variability of 342 plasma proteins in a human twin population. <i>Molecular Systems Biology</i> , 2015, 11, 786.	3.2	300
49	Large-Scale Quantitative Assessment of Different In-Solution Protein Digestion Protocols Reveals Superior Cleavage Efficiency of Tandem Lys-C/Trypsin Proteolysis over Trypsin Digestion. <i>Journal of Proteome Research</i> , 2012, 11, 5145-5156.	1.8	298
50	Human SRMATlas: A Resource of Targeted Assays to Quantify the Complete Human Proteome. <i>Cell</i> , 2016, 166, 766-778.	13.5	295
51	The Human Proteome Project: Current State and Future Direction. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009993.	2.5	294
52	Genome-wide Mapping of Transcriptional Start Sites Defines an Extensive Leaderless Transcriptome in <i>Mycobacterium tuberculosis</i> . <i>Cell Reports</i> , 2013, 5, 1121-1131.	2.9	283
53	Protein Identification False Discovery Rates for Very Large Proteomics Data Sets Generated by Tandem Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 2405-2417.	2.5	282
54	Architecture and conformational switch mechanism of the ryanodine receptor. <i>Nature</i> , 2015, 517, 39-43.	13.7	282

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55	The Chromosome-Centric Human Proteome Project for cataloging proteins encoded in the genome. <i>Nature Biotechnology</i> , 2012, 30, 221-223.	9.4	281
56	Differential stable isotope labeling of peptides for quantitation and de novo sequence derivation. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1214-1221.	0.7	277
57	Phosphoproteomic Analysis Reveals Interconnected System-Wide Responses to Perturbations of Kinases and Phosphatases in Yeast. <i>Science Signaling</i> , 2010, 3, rs4.	1.6	277
58	Mapping differential interactomes by affinity purification coupled with data-independent mass spectrometry acquisition. <i>Nature Methods</i> , 2013, 10, 1239-1245.	9.0	277
59	Early Steps in Autophagy Depend on Direct Phosphorylation of Atg9 by the Atg1 Kinase. <i>Molecular Cell</i> , 2014, 53, 471-483.	4.5	274
60	False discovery rate estimation for cross-linked peptides identified by mass spectrometry. <i>Nature Methods</i> , 2012, 9, 901-903.	9.0	273
61	Quantification of mRNA and protein and integration with protein turnover in a bacterium. <i>Molecular Systems Biology</i> , 2011, 7, 511.	3.2	267
62	Mass Spectrometry Applied to Bottom-Up Proteomics: Entering the High-Throughput Era for Hypothesis Testing. <i>Annual Review of Analytical Chemistry</i> , 2016, 9, 449-472.	2.8	266
63	Expanding the Chemical Cross-Linking Toolbox by the Use of Multiple Proteases and Enrichment by Size Exclusion Chromatography. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.014126.	2.5	264
64	The Molecular Architecture of the Eukaryotic Chaperonin TRiC/CCT. <i>Structure</i> , 2012, 20, 814-825.	1.6	261
65	Systems proteomics of liver mitochondria function. <i>Science</i> , 2016, 352, aad0189.	6.0	257
66	Building consensus spectral libraries for peptide identification in proteomics. <i>Nature Methods</i> , 2008, 5, 873-875.	9.0	255
67	Multi-omic measurements of heterogeneity in HeLa cells across laboratories. <i>Nature Biotechnology</i> , 2019, 37, 314-322.	9.4	254
68	An integrated workflow for charting the human interaction proteome: insights into the PP2A system. <i>Molecular Systems Biology</i> , 2009, 5, 237.	3.2	253
69	ATM-Dependent and -Independent Dynamics of the Nuclear Phosphoproteome After DNA Damage. <i>Science Signaling</i> , 2010, 3, rs3.	1.6	245
70	Lysine-specific chemical cross-linking of protein complexes and identification of cross-linking sites using LC-MS/MS and the xQuest/xProphet software pipeline. <i>Nature Protocols</i> , 2014, 9, 120-137.	5.5	244
71	A High-Density Map for Navigating the Human Polycomb Complexome. <i>Cell Reports</i> , 2016, 17, 583-595.	2.9	234
72	The complete structure of the large subunit of the mammalian mitochondrial ribosome. <i>Nature</i> , 2014, 515, 283-286.	13.7	231

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73	Absolute Proteome Composition and Dynamics during Dormancy and Resuscitation of Mycobacterium tuberculosis. Cell Host and Microbe, 2015, 18, 96-108.	5.1	229
74	TRIM24 Is an Oncogenic Transcriptional Activator in Prostate Cancer. Cancer Cell, 2016, 29, 846-858.	7.7	228
75	Multilayered Genetic and Omics Dissection of Mitochondrial Activity in a Mouse Reference Population. Cell, 2014, 158, 1415-1430.	13.5	222
76	Chemical cross-linking/mass spectrometry targeting acidic residues in proteins and protein complexes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9455-9460.	3.3	213
77	Architecture of the large subunit of the mammalian mitochondrial ribosome. Nature, 2014, 505, 515-519.	13.7	207
78	Quantitative proteomics: challenges and opportunities in basic and applied research. Nature Protocols, 2017, 12, 1289-1294.	5.5	200
79	Molecular Architecture of the 40Sâ€¦eIF1â€¦eIF3 Translation Initiation Complex. Cell, 2014, 158, 1123-1135.	13.5	193
80	Quantitative measurements of <i>N</i> -linked glycoproteins in human plasma by SWATH-MS. Proteomics, 2013, 13, 1247-1256.	1.3	190
81	Statistical control of peptide and protein error rates in large-scale targeted data-independent acquisition analyses. Nature Methods, 2017, 14, 921-927.	9.0	189
82	Analysis of Major Histocompatibility Complex (MHC) Immunopeptidomes Using Mass Spectrometry*. Molecular and Cellular Proteomics, 2015, 14, 3105-3117.	2.5	188
83	Recommendations for the Generation, Quantification, Storage, and Handling of Peptides Used for Mass Spectrometry-Based Assays. Clinical Chemistry, 2016, 62, 48-69.	1.5	187
84	The Human Plasma Proteome Draft of 2017: Building on the Human Plasma PeptideAtlas from Mass Spectrometry and Complementary Assays. Journal of Proteome Research, 2017, 16, 4299-4310.	1.8	185
85	Generating and navigating proteome maps using mass spectrometry. Nature Reviews Molecular Cell Biology, 2010, 11, 789-801.	16.1	181
86	The Protein Interaction Landscape of the Human CMGC Kinase Group. Cell Reports, 2013, 3, 1306-1320.	2.9	178
87	Cancer genetics-guided discovery of serum biomarker signatures for diagnosis and prognosis of prostate cancer. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3342-3347.	3.3	175
88	TRIC: an automated alignment strategy for reproducible protein quantification in targeted proteomics. Nature Methods, 2016, 13, 777-783.	9.0	173
89	Structures of human PRC2 with its cofactors AEBP2 and JARID2. Science, 2018, 359, 940-944.	6.0	170
90	The Mtb Proteome Library: A Resource of Assays to Quantify the Complete Proteome of Mycobacterium tuberculosis. Cell Host and Microbe, 2013, 13, 602-612.	5.1	165

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91	Glycoproteomic Analysis of Prostate Cancer Tissues by SWATH Mass Spectrometry Discovers N-acyl ethanolamine Acid Amidase and Protein Tyrosine Kinase 7 as Signatures for Tumor Aggressiveness. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1753-1768.	2.5	165
92	Insights into autophagosome biogenesis from structural and biochemical analyses of the ATG2A-WIPI4 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9792-E9801.	3.3	159
93	Reproducible and Consistent Quantification of the <i>Saccharomyces cerevisiae</i> Proteome by SWATH-mass spectrometry *. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 739-749.	2.5	158
94	Human Proteome Project Mass Spectrometry Data Interpretation Guidelines 2.1. <i>Journal of Proteome Research</i> , 2016, 15, 3961-3970.	1.8	158
95	Proteomic and interactomic insights into the molecular basis of cell functional diversity. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 327-340.	16.1	156
96	A high-stringency blueprint of the human proteome. <i>Nature Communications</i> , 2020, 11, 5301.	5.8	152
97	A Class of Environmental and Endogenous Toxins Induces BRCA2 Haploinsufficiency and Genome Instability. <i>Cell</i> , 2017, 169, 1105-1118.e15.	13.5	149
98	RNF168 Promotes Noncanonical K27 ^{ub} Ubiquitination to Signal DNA Damage. <i>Cell Reports</i> , 2015, 10, 226-238.	2.9	147
99	An Automated Pipeline for High-Throughput Label-Free Quantitative Proteomics. <i>Journal of Proteome Research</i> , 2013, 12, 1628-1644.	1.8	146
100	Peptide-Centric Proteome Analysis: An Alternative Strategy for the Analysis of Tandem Mass Spectrometry Data. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2301-2307.	2.5	146
101	Impact of Alternative Splicing on the Human Proteome. <i>Cell Reports</i> , 2017, 20, 1229-1241.	2.9	145
102	Proteomics meets the scientific method. <i>Nature Methods</i> , 2013, 10, 24-27.	9.0	139
103	JARID2 and AEBP2 regulate PRC2 in the presence of H2AK119ub1 and other histone modifications. <i>Science</i> , 2021, 371, .	6.0	137
104	Standard Guidelines for the Chromosome-Centric Human Proteome Project. <i>Journal of Proteome Research</i> , 2012, 11, 2005-2013.	1.8	135
105	The Structural Basis of Substrate Recognition by the Eukaryotic Chaperonin TRiC/CCT. <i>Cell</i> , 2014, 159, 1042-1055.	13.5	131
106	Inference and quantification of peptidofoms in large sample cohorts by SWATH-MS. <i>Nature Biotechnology</i> , 2017, 35, 781-788.	9.4	122
107	Molecular Basis of the Rapamycin Insensitivity of Target Of Rapamycin Complex 2. <i>Molecular Cell</i> , 2015, 58, 977-988.	4.5	120
108	Quantitative proteomics analysis of signalosome dynamics in primary T cells identifies the surface receptor CD6 as a Lat adaptor ^{independent} TCR signaling hub. <i>Nature Immunology</i> , 2014, 15, 384-392.	7.0	119

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109	The SysteMHC Atlas project. <i>Nucleic Acids Research</i> , 2018, 46, D1237-D1247.	6.5	119
110	Estimation of Absolute Protein Quantities of Unlabeled Samples by Selected Reaction Monitoring Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.013987.	2.5	117
111	Systematic proteome and proteostasis profiling in human Trisomy 21 fibroblast cells. <i>Nature Communications</i> , 2017, 8, 1212.	5.8	112
112	Statistical protein quantification and significance analysis in label-free LC-MS experiments with complex designs. <i>BMC Bioinformatics</i> , 2012, 13, S6.	1.2	110
113	Assessment of a method to characterize antibody selectivity and specificity for use in immunoprecipitation. <i>Nature Methods</i> , 2015, 12, 725-731.	9.0	109
114	Complex-centric proteome profiling by <i>SEC</i> <i>SWATH</i> <i>MS</i> . <i>Molecular Systems Biology</i> , 2019, 15, e8438.	3.2	109
115	Epigenetic stress responses induce muscle stem-cell ageing by Hoxa9 developmental signals. <i>Nature</i> , 2016, 540, 428-432.	13.7	108
116	An open-source computational and data resource to analyze digital maps of immunopeptidomes. <i>ELife</i> , 2015, 4, .	2.8	107
117	Quantitative Interactomics in Primary T Cells Provides a Rationale for Concomitant PD-1 and BTLA Coinhibitor Blockade in Cancer Immunotherapy. <i>Cell Reports</i> , 2019, 27, 3315-3330.e7.	2.9	106
118	A mass spectrometric journey into protein and proteome research. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 685-695.	1.2	105
119	The Calcineurin Signaling Network Evolves via Conserved Kinase-Phosphatase Modules that Transcend Substrate Identity. <i>Molecular Cell</i> , 2014, 55, 422-435.	4.5	102
120	The Biology/Disease-driven Human Proteome Project (B/D-HPP): Enabling Protein Research for the Life Sciences Community. <i>Journal of Proteome Research</i> , 2013, 12, 23-27.	1.8	100
121	High-throughput proteomic analysis of <i>FFPE</i> tissue samples facilitates tumor stratification. <i>Molecular Oncology</i> , 2019, 13, 2305-2328.	2.1	100
122	First Community-Wide, Comparative Cross-Linking Mass Spectrometry Study. <i>Analytical Chemistry</i> , 2019, 91, 6953-6961.	3.2	100
123	The Chaperonin TRiC/CCT Associates with Prefoldin through a Conserved Electrostatic Interface Essential for Cellular Proteostasis. <i>Cell</i> , 2019, 177, 751-765.e15.	13.5	98
124	Insertion of the Biogenesis Factor Rei1 Probes the Ribosomal Tunnel during 60S Maturation. <i>Cell</i> , 2016, 164, 91-102.	13.5	97
125	Conserved Peptide Fragmentation as a Benchmarking Tool for Mass Spectrometers and a Discriminating Feature for Targeted Proteomics. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2056-2071.	2.5	96
126	Structural basis of AAUAAA polyadenylation signal recognition by the human CPSF complex. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 135-138.	3.6	96

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127	ChromID identifies the protein interactome at chromatin marks. <i>Nature Biotechnology</i> , 2020, 38, 728-736.	9.4	90
128	A Conserved Mito-Cytosolic Translational Balance Links Two Longevity Pathways. <i>Cell Metabolism</i> , 2020, 31, 549-563.e7.	7.2	87
129	A Case for a Human Immuno-Peptidome Project Consortium. <i>Immunity</i> , 2017, 47, 203-208.	6.6	84
130	From coarse to fine: the absolute <i>Escherichia coli</i> proteome under diverse growth conditions. <i>Molecular Systems Biology</i> , 2021, 17, e9536.	3.2	82
131	Prediction of colorectal cancer diagnosis based on circulating plasma proteins. <i>EMBO Molecular Medicine</i> , 2015, 7, 1166-1178.	3.3	80
132	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.	2.5	76
133	Structure of a human cap-dependent 48S translation pre-initiation complex. <i>Nucleic Acids Research</i> , 2018, 46, 2678-2689.	6.5	76
134	Strategies to enable large-scale proteomics for reproducible research. <i>Nature Communications</i> , 2020, 11, 3793.	5.8	75
135	Kinase Interaction Network Expands Functional and Disease Roles of Human Kinases. <i>Molecular Cell</i> , 2020, 79, 504-520.e9.	4.5	74
136	Target of Rapamycin Complex 2 Regulates Actin Polarization and Endocytosis via Multiple Pathways. <i>Journal of Biological Chemistry</i> , 2015, 290, 14963-14978.	1.6	72
137	Advancing translational research and precision medicine with targeted proteomics. <i>Journal of Proteomics</i> , 2018, 189, 1-10.	1.2	72
138	Breast Cancer Classification Based on Proteotypes Obtained by SWATH Mass Spectrometry. <i>Cell Reports</i> , 2019, 28, 832-843.e7.	2.9	72
139	Structural insights into the assembly and polyA signal recognition mechanism of the human CPSF complex. <i>ELife</i> , 2017, 6, .	2.8	71
140	Epigenetics and Proteomics Join Transcriptomics in the Quest for Tuberculosis Biomarkers. <i>MBio</i> , 2015, 6, e01187-15.	1.8	70
141	The interactome of <i>KRAB</i> zinc finger proteins reveals the evolutionary history of their functional diversification. <i>EMBO Journal</i> , 2019, 38, e101220.	3.5	67
142	Antigenic Characterization of the HCMV gH/gL/gO and Pentamer Cell Entry Complexes Reveals Binding Sites for Potently Neutralizing Human Antibodies. <i>PLoS Pathogens</i> , 2015, 11, e1005230.	2.1	65
143	Systematic Analysis of Human Protein Phosphatase Interactions and Dynamics. <i>Cell Systems</i> , 2017, 4, 430-444.e5.	2.9	65
144	Dynamic phosphoproteomics reveals TORC1-dependent regulation of yeast nucleotide and amino acid biosynthesis. <i>Science Signaling</i> , 2015, 8, rs4.	1.6	64

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145	Proteome-wide selected reaction monitoring assays for the human pathogen <i>Streptococcus pyogenes</i> . <i>Nature Communications</i> , 2012, 3, 1301.	5.8	63
146	aLFQ: an R-package for estimating absolute protein quantities from label-free LC-MS/MS proteomics data. <i>Bioinformatics</i> , 2014, 30, 2511-2513.	1.8	63
147	Mass spectrometry-driven phosphoproteomics: patterning the systems biology mosaic. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2014, 3, 83-112.	5.9	63
148	Phosphoproteomic analyses reveal novel cross-modulation mechanisms between two signaling pathways in yeast. <i>Molecular Systems Biology</i> , 2014, 10, 767.	3.2	58
149	Diagnostics and correction of batch effects in large-scale proteomic studies: a tutorial. <i>Molecular Systems Biology</i> , 2021, 17, e10240.	3.2	57
150	A Global Screen for Assembly State Changes of the Mitotic Proteome by SEC-SWATH-MS. <i>Cell Systems</i> , 2020, 10, 133-155.e6.	2.9	57
151	Comparative 'omics analyses differentiate <i>Mycobacterium tuberculosis</i> and <i>Mycobacterium bovis</i> and reveal distinct macrophage responses to infection with the human and bovine tubercle bacilli. <i>Microbial Genomics</i> , 2018, 4, .	1.0	57
152	Identification of <i>Cdk</i> targets that control cytokinesis. <i>EMBO Journal</i> , 2015, 34, 81-96.	3.5	56
153	Updated Reference Genome Sequence and Annotation of <i>Mycobacterium bovis</i> AF2122/97. <i>Genome Announcements</i> , 2017, 5, .	0.8	55
154	Quantitative Proteome Landscape of the NCI-60 Cancer Cell Lines. <i>IScience</i> , 2019, 21, 664-680.	1.9	52
155	Huntingtin's spherical solenoid structure enables polyglutamine tract-dependent modulation of its structure and function. <i>ELife</i> , 2016, 5, e11184.	2.8	52
156	Phosphoproteomic analysis identifies proteins involved in transcription-coupled mRNA decay as targets of Snf1 signaling. <i>Science Signaling</i> , 2014, 7, ra64.	1.6	51
157	Multi-region proteome analysis quantifies spatial heterogeneity of prostate tissue biomarkers. <i>Life Science Alliance</i> , 2018, 1, e201800042.	1.3	51
158	DPHL: A DIA Pan-human Protein Mass Spectrometry Library for Robust Biomarker Discovery. <i>Genomics, Proteomics and Bioinformatics</i> , 2020, 18, 104-119.	3.0	51
159	Attenuation of pattern recognition receptor signaling is mediated by a <i>MAP</i> kinase kinase. <i>EMBO Reports</i> , 2016, 17, 441-454.	2.0	50
160	Applications and Developments in Targeted Proteomics: From SRM to DIA/SWATH. <i>Proteomics</i> , 2016, 16, 2065-2067.	1.3	50
161	Quantifying and Localizing the Mitochondrial Proteome Across Five Tissues in A Mouse Population. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 1766-1777.	2.5	50
162	Non-invasive prognostic protein biomarker signatures associated with colorectal cancer. <i>EMBO Molecular Medicine</i> , 2015, 7, 1153-1165.	3.3	49

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163	Inferring causal metabolic signals that regulate the dynamic <scp>TORC</scp> 1â€dependent transcriptome. <i>Molecular Systems Biology</i> , 2015, 11, 802.	3.2	49
164	Quantitative Proteome Analysis: Methods and Applications. <i>Journal of Infectious Diseases</i> , 2003, 187, S315-S320.	1.9	48
165	Systems-level Proteomics of Two Ubiquitous Leaf Commensals Reveals Complementary Adaptive Traits for Phyllosphere Colonization. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3256-3269.	2.5	48
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