

David Fenyo

List of Publications by Year in descending order

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187
papers

18,134
citations

22132

59
h-index

16636

123
g-index

227
all docs

227
docs citations

227
times ranked

24830
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification and mutation prediction from non-small cell lung cancer histopathology images using deep learning. <i>Nature Medicine</i> , 2018, 24, 1559-1567.	15.2	1,768
2	Proteogenomics connects somatic mutations to signalling in breast cancer. <i>Nature</i> , 2016, 534, 55-62.	13.7	1,384
3	Sequence and Structural Convergence of Broad and Potent HIV Antibodies That Mimic CD4 Binding. <i>Science</i> , 2011, 333, 1633-1637.	6.0	1,046
4	Integrated Proteogenomic Characterization of Human High-Grade Serous Ovarian Cancer. <i>Cell</i> , 2016, 166, 755-765.	13.5	804
5	Proteogenomic Analysis of Human Colon Cancer Reveals New Therapeutic Opportunities. <i>Cell</i> , 2019, 177, 1035-1049.e19.	13.5	498
6	A Method for Assessing the Statistical Significance of Mass Spectrometry-Based Protein Identifications Using General Scoring Schemes. <i>Analytical Chemistry</i> , 2003, 75, 768-774.	3.2	448
7	Integrated Proteogenomic Characterization of Clear Cell Renal Cell Carcinoma. <i>Cell</i> , 2019, 179, 964-983.e31.	13.5	430
8	Proteogenomic Characterization Reveals Therapeutic Vulnerabilities in Lung Adenocarcinoma. <i>Cell</i> , 2020, 182, 200-225.e35.	13.5	410
9	A robust pipeline for rapid production of versatile nanobody repertoires. <i>Nature Methods</i> , 2014, 11, 1253-1260.	9.0	391
10	An evaluation, comparison, and accurate benchmarking of several publicly available MS/MS search algorithms: Sensitivity and specificity analysis. <i>Proteomics</i> , 2005, 5, 3475-3490.	1.3	332
11	Proteogenomic and metabolomic characterization of human glioblastoma. <i>Cancer Cell</i> , 2021, 39, 509-528.e20.	7.7	327
12	Ischemia in Tumors Induces Early and Sustained Phosphorylation Changes in Stress Kinase Pathways but Does Not Affect Global Protein Levels. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1690-1704.	2.5	323
13	Four histone variants mark the boundaries of polycistronic transcription units in <i>Trypanosoma brucei</i> . <i>Genes and Development</i> , 2009, 23, 1063-1076.	2.7	312
14	Proteogenomic Characterization of Endometrial Carcinoma. <i>Cell</i> , 2020, 180, 729-748.e26.	13.5	296
15	Using Annotated Peptide Mass Spectrum Libraries for Protein Identification. <i>Journal of Proteome Research</i> , 2006, 5, 1843-1849.	1.8	286
16	Proteogenomic Landscape of Breast Cancer Tumorigenesis and Targeted Therapy. <i>Cell</i> , 2020, 183, 1436-1456.e31.	13.5	273
17	Proteogenomic characterization of pancreatic ductal adenocarcinoma. <i>Cell</i> , 2021, 184, 5031-5052.e26.	13.5	236
18	A Systems Biology Approach Identifies FUT8 as a Driver of Melanoma Metastasis. <i>Cancer Cell</i> , 2017, 31, 804-819.e7.	7.7	233

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19	RADARS, a bioinformatics solution that automates proteome mass spectral analysis, optimises protein identification, and archives data in a relational database. <i>Proteomics</i> , 2002, 2, 36-47.	1.3	208
20	Protein identification using mass spectrometric information. <i>Electrophoresis</i> , 1998, 19, 998-1005.	1.3	207
21	Atypical and classical memory B cells produce <i>Plasmodium falciparum</i> neutralizing antibodies. <i>Journal of Experimental Medicine</i> , 2013, 210, 389-399.	4.2	200
22	A Modular Cross-Linking Approach for Exploring Protein Interactions. <i>Journal of the American Chemical Society</i> , 2003, 125, 2416-2425.	6.6	189
23	Proteogenomic insights into the biology and treatment of HPV-negative head and neck squamous cell carcinoma. <i>Cancer Cell</i> , 2021, 39, 361-379.e16.	7.7	189
24	Synthesis, debugging, and effects of synthetic chromosome consolidation: synVI and beyond. <i>Science</i> , 2017, 355, .	6.0	184
25	Systematic Analysis of Splice-Site-Creating Mutations in Cancer. <i>Cell Reports</i> , 2018, 23, 270-281.e3.	2.9	177
26	Integrated Proteogenomic Characterization across Major Histological Types of Pediatric Brain Cancer. <i>Cell</i> , 2020, 183, 1962-1985.e31.	13.5	177
27	Sputtering by fast ions based on a sum of impulses. <i>Physical Review B</i> , 1989, 40, 49-53.	1.1	170
28	A proteogenomic portrait of lung squamous cell carcinoma. <i>Cell</i> , 2021, 184, 4348-4371.e40.	13.5	170
29	Separable roles for <i>Mycobacterium tuberculosis</i> ESX-3 effectors in iron acquisition and virulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E348-57.	3.3	166
30	The role of retrotransposable elements in ageing and age-associated diseases. <i>Nature</i> , 2021, 596, 43-53.	13.7	156
31	CPTAC Assay Portal: a repository of targeted proteomic assays. <i>Nature Methods</i> , 2014, 11, 703-704.	9.0	150
32	Interlaboratory Study Characterizing a Yeast Performance Standard for Benchmarking LC-MS Platform Performance. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 242-254.	2.5	148
33	Organization and dynamics of the nonhomologous end-joining machinery during DNA double-strand break repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2575-84.	3.3	142
34	Identifying the proteome: software tools. <i>Current Opinion in Biotechnology</i> , 2000, 11, 391-395.	3.3	134
35	Domain Organization of the <i>Escherichia coli</i> RNA Polymerase β 70 Subunit. <i>Journal of Molecular Biology</i> , 1996, 263, 637-647.	2.0	133
36	Structural and functional properties of region II-plus of the malaria circumsporozoite protein.. <i>Journal of Experimental Medicine</i> , 1994, 180, 297-306.	4.2	132

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37	Methods, Tools and Current Perspectives in Proteogenomics. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 959-981.	2.5	130
38	Phosphotyrosine Signaling Networks in Epidermal Growth Factor Receptor Overexpressing Squamous Carcinoma Cells. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 356-376.	2.5	121
39	SwePep, a Database Designed for Endogenous Peptides and Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 998-1005.	2.5	121
40	A Statistical Basis for Testing the Significance of Mass Spectrometric Protein Identification Results. <i>Analytical Chemistry</i> , 2000, 72, 999-1005.	3.2	119
41	Transcription shapes DNA replication initiation and termination in human cells. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 67-77.	3.6	118
42	GIN5 motion reveals replication fork progression is remarkably uniform throughout the yeast genome. <i>Molecular Systems Biology</i> , 2010, 6, 353.	3.2	116
43	Proteogenomic integration reveals therapeutic targets in breast cancer xenografts. <i>Nature Communications</i> , 2017, 8, 14864.	5.8	112
44	Super-resolution imaging reveals that loss of the C-terminus of connexin43 limits microtubule plus-end capture and Nav1.5 localization at the intercalated disc. <i>Cardiovascular Research</i> , 2014, 104, 371-381.	1.8	110
45	Macrophage-derived netrin-1 promotes abdominal aortic aneurysm formation by activating MMP3 in vascular smooth muscle cells. <i>Nature Communications</i> , 2018, 9, 5022.	5.8	109
46	Integration and Analysis of CPTAC Proteomics Data in the Context of Cancer Genomics in the cBioPortal. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 1893-1898.	2.5	106
47	An Analysis of the Sensitivity of Proteogenomic Mapping of Somatic Mutations and Novel Splicing Events in Cancer. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1060-1071.	2.5	104
48	Rapid sensitive analysis of cysteine rich peptide venom components. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6910-6915.	3.3	103
49	LINE-1 protein localization and functional dynamics during the cell cycle. <i>ELife</i> , 2018, 7, .	2.8	99
50	A Strategy for Rapid, High-Confidence Protein Identification. <i>Analytical Chemistry</i> , 1997, 69, 3995-4001.	3.2	98
51	Human transposon insertion profiling: Analysis, visualization and identification of somatic LINE-1 insertions in ovarian cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E733-E740.	3.3	86
52	Clinical decision support tool and rapid point-of-care platform for determining disease severity in patients with COVID-19. <i>Lab on A Chip</i> , 2020, 20, 2075-2085.	3.1	82
53	CRL4AMBRA1 is a master regulator of D-type cyclins. <i>Nature</i> , 2021, 592, 789-793.	13.7	78
54	Transcription factor profiling reveals molecular choreography and key regulators of human retrotransposon expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5526-E5535.	3.3	77

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55	Nanoscale visualization of functional adhesion/excitability nodes at the intercalated disc. <i>Nature Communications</i> , 2016, 7, 10342.	5.8	76
56	Cell fitness screens reveal a conflict between LINE-1 retrotransposition and DNA replication. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 168-178.	3.6	74
57	Improving the success rate of proteome analysis by modeling protein-abundance distributions and experimental designs. <i>Nature Biotechnology</i> , 2007, 25, 651-655.	9.4	71
58	Molecular-dynamics study of electronic sputtering of large organic molecules. <i>Physical Review B</i> , 1990, 42, 1895-1902.	1.1	70
59	Rapid, optimized interactomic screening. <i>Nature Methods</i> , 2015, 12, 553-560.	9.0	68
60	Integrated Bottom-Up and Top-Down Proteomics of Patient-Derived Breast Tumor Xenografts. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 45-56.	2.5	68
61	Super-resolution fluorescence microscopy of the cardiac connexome reveals plakophilin-2 inside the connexin43 plaque. <i>Cardiovascular Research</i> , 2013, 100, 231-240.	1.8	67
62	Proteogenomics from a bioinformatics angle: A growing field. <i>Mass Spectrometry Reviews</i> , 2017, 36, 584-599.	2.8	65
63	Cyclin F-Mediated Degradation of SLBP Limits H2A.X Accumulation and Apoptosis upon Genotoxic Stress in G2. <i>Molecular Cell</i> , 2016, 64, 507-519.	4.5	64
64	Dissection of affinity captured LINE-1 macromolecular complexes. <i>ELife</i> , 2018, 7, .	2.8	63
65	The ULK1-FBXW5-SEC23B nexus controls autophagy. <i>ELife</i> , 2018, 7, .	2.8	63
66	Computer experiments on molecular ejection from an amorphous solid: Comparison to an analytic continuum mechanical model. <i>Physical Review B</i> , 1992, 46, 5090-5099.	1.1	62
67	BRCA1 and S phase DNA repair pathways restrict LINE-1 retrotransposition in human cells. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 179-191.	3.6	60
68	The influence of ion flux on defect production in MeV proton-irradiated silicon. <i>Journal of Applied Physics</i> , 1991, 70, 3025-3030.	1.1	59
69	Protein Quantitation Using Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2010, 673, 211-222.	0.4	59
70	A toolbox of immunoprecipitation-grade monoclonal antibodies to human transcription factors. <i>Nature Methods</i> , 2018, 15, 330-338.	9.0	58
71	Developments in biobanking workflow standardization providing sample integrity and stability. <i>Journal of Proteomics</i> , 2013, 95, 38-45.	1.2	56
72	Mass Spectrometry-Based Proteomics Reveals Potential Roles of NEK9 and MAP2K4 in Resistance to PI3K Inhibition in Triple-Negative Breast Cancers. <i>Cancer Research</i> , 2018, 78, 2732-2746.	0.4	52

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73	LINE-1 ORF2p expression is nearly imperceptible in human cancers. <i>Mobile DNA</i> , 2020, 11, 1.	1.3	51
74	Evaluation of the Variation in Sample Preparation for Comparative Proteomics Using Stable Isotope Labeling by Amino Acids in Cell Culture. <i>Journal of Proteome Research</i> , 2009, 8, 1285-1292.	1.8	50
75	Predicting endometrial cancer subtypes and molecular features from histopathology images using multi-resolution deep learning models. <i>Cell Reports Medicine</i> , 2021, 2, 100400.	3.3	50
76	Mass Spectrometric Protein Identification Using the Global Proteome Machine. <i>Methods in Molecular Biology</i> , 2010, 673, 189-202.	0.4	50
77	Probioty: A Protein Identification Algorithm with Accurate Assignment of the Statistical Significance of the Results. <i>Journal of Proteome Research</i> , 2004, 3, 32-36.	1.8	49
78	HIV host interactome revealed directly from infected cells. <i>Nature Microbiology</i> , 2016, 1, 16068.	5.9	49
79	Neuropeptidomics Strategies for Specific and Sensitive Identification of Endogenous Peptides. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 1188-1197.	2.5	47
80	Spatiotemporal dynamics of homologous recombination repair at single collapsed replication forks. <i>Nature Communications</i> , 2018, 9, 3882.	5.8	46
81	RADARS, a bioinformatics solution that automates proteome mass spectral analysis, optimises protein identification, and archives data in a relational database. <i>Proteomics</i> , 2002, 2, 36-47.	1.3	44
82	Formation of fullerenes in MeV ion track plasmas. <i>Chemical Physics Letters</i> , 1992, 191, 345-350.	1.2	42
83	Formation of fullerenes in MeV-ion sputtering from organic solids. <i>Physical Review B</i> , 1993, 47, 7560-7567.	1.1	42
84	Crystallization of Proliferating Cell Nuclear Antigen (PCNA) from <i>Saccharomyces cerevisiae</i> . <i>Journal of Molecular Biology</i> , 1994, 241, 265-268.	2.0	40
85	Peer Reviewed: Internet-Based Analytical Chemistry Resources: A Model Project. <i>Analytical Chemistry</i> , 1996, 68, 721A-726A.	3.2	40
86	Determinants for <i>Escherichia coli</i> RNA polymerase assembly within the β^2 subunit. <i>Journal of Molecular Biology</i> , 1997, 270, 648-662.	2.0	36
87	Highly synergistic combinations of nanobodies that target SARS-CoV-2 and are resistant to escape. <i>ELife</i> , 2021, 10, .	2.8	36
88	LINE-1 expression in cancer correlates with p53 mutation, copy number alteration, and S phase checkpoint. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	36
89	A model of random mass-matching and its use for automated significance testing in mass spectrometric proteome analysis. <i>Proteomics</i> , 2002, 2, 262.	1.3	35
90	A Chromosome-centric Human Proteome Project (C-HPP) to Characterize the Sets of Proteins Encoded in Chromosome 17. <i>Journal of Proteome Research</i> , 2013, 12, 45-57.	1.8	35

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91	Using the CPTAC Assay Portal to Identify and Implement Highly Characterized Targeted Proteomics Assays. <i>Methods in Molecular Biology</i> , 2016, 1410, 223-236.	0.4	33
92	Managing COVID-19 With a Clinical Decision Support Tool in a Community Health Network: Algorithm Development and Validation. <i>Journal of Medical Internet Research</i> , 2020, 22, e22033.	2.1	33
93	Informatics and data management in proteomics. <i>Trends in Biotechnology</i> , 2002, 20, s35-s38.	4.9	31
94	L1EM: a tool for accurate locus specific LINE-1 RNA quantification. <i>Bioinformatics</i> , 2020, 36, 1167-1173.	1.8	31
95	Dissecting the Structural Dynamics of the Nuclear Pore Complex. <i>Molecular Cell</i> , 2021, 81, 153-165.e7.	4.5	31
96	A Complex Systems Approach to Causal Discovery in Psychiatry. <i>PLoS ONE</i> , 2016, 11, e0151174.	1.1	29
97	Validation of Endogenous Peptide Identifications Using a Database of Tandem Mass Spectra. <i>Journal of Proteome Research</i> , 2008, 7, 3049-3053.	1.8	28
98	A Method for Quantifying Molecular Interactions Using Stochastic Modelling and Super-Resolution Microscopy. <i>Scientific Reports</i> , 2017, 7, 14882.	1.6	28
99	Reproducibility of LC-MS-based protein identification. <i>Journal of Experimental Botany</i> , 2006, 57, 1509-1514.	2.4	27
100	Integrated Chromosome 19 Transcriptomic and Proteomic Data Sets Derived from Glioma Cancer Stem-Cell Lines. <i>Journal of Proteome Research</i> , 2014, 13, 191-199.	1.8	27
101	Human Memory B Cells Targeting <i>Staphylococcus aureus</i> Exotoxins Are Prevalent with Skin and Soft Tissue Infection. <i>MBio</i> , 2018, 9, .	1.8	27
102	Screening for EphB Signaling Effectors Using SILAC with a Linear Ion Trap-Orbitrap Mass Spectrometer. <i>Journal of Proteome Research</i> , 2008, 7, 4715-4726.	1.8	26
103	The Asia Oceania Human Proteome Organisation Membrane Proteomics Initiative. Preparation and characterisation of the carbonate-washed membrane standard. <i>Proteomics</i> , 2010, 10, 4142-4148.	1.3	26
104	Low escape-rate genome safeguards with minimal molecular perturbation of <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1470-E1479.	3.3	26
105	The GPMDB REST interface. <i>Bioinformatics</i> , 2015, 31, 2056-2058.	1.8	25
106	Breast tumors educate the proteome of stromal tissue in an individualized but coordinated manner. <i>Science Signaling</i> , 2017, 10, .	1.6	25
107	Protein Identification in Complex Mixtures. <i>Journal of Proteome Research</i> , 2005, 4, 387-393.	1.8	24
108	Blue Native PAGE and Mass Spectrometry Analysis of Ephrin Stimulation-Dependent Protein-Protein Interactions in NG108-EphB2 Cells. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2008, , 3-22.	0.5	23

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109	The Statistical Significance of Protein Identification Results as a Function of the Number of Protein Sequences Searched. <i>Journal of Proteome Research</i> , 2004, 3, 979-982.	1.8	22
110	Detection of artifacts and peptide modifications in liquid chromatography/mass spectrometry data using two-dimensional signal intensity map data visualization. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1558-1562.	0.7	22
111	Pathway analysis and transcriptomics improve protein identification by shotgun proteomics from samples comprising small number of cells - a benchmarking study. <i>BMC Genomics</i> , 2014, 15, S1.	1.2	22
112	Transposon insertion profiling by sequencing (TIPseq) for mapping LINE-1 insertions in the human genome. <i>Mobile DNA</i> , 2019, 10, 8.	1.3	22
113	Comprehensive Scanning Mutagenesis of Human Retrotransposon LINE-1 Identifies Motifs Essential for Function. <i>Genetics</i> , 2019, 213, 1401-1414.	1.2	22
114	Laser desorption mass spectrometry of synthetic multiporphyrin arrays. <i>Journal of Porphyrins and Phthalocyanines</i> , 1997, 1, 93-99.	0.4	22
115	Deep Learning and Pathomics Analyses Reveal Cell Nuclei as Important Features for Mutation Prediction of BRAF-Mutated Melanomas. <i>Journal of Investigative Dermatology</i> , 2022, 142, 1650-1658.e6.	0.3	22
116	MALDI Sample Preparation: the Ultra Thin Layer Method. <i>Journal of Visualized Experiments</i> , 2007, , 192.	0.2	21
117	The proBAM and proBed standard formats: enabling a seamless integration of genomics and proteomics data. <i>Genome Biology</i> , 2018, 19, 12.	3.8	21
118	PGx: Putting Peptides to BED. <i>Journal of Proteome Research</i> , 2016, 15, 795-799.	1.8	20
119	RIP-seq reveals LINE-1 ORF1p association with p-body enriched mRNAs. <i>Mobile DNA</i> , 2021, 12, 5.	1.3	20
120	The Human Melanoma Proteome Atlas—Complementing the melanoma transcriptome. <i>Clinical and Translational Medicine</i> , 2021, 11, e451.	1.7	20
121	An Automated Method for Scanning LC-MS Data Sets for Significant Peptides and Proteins, Including Quantitative Profiling and Interactive Confirmation. <i>Journal of Proteome Research</i> , 2007, 6, 2888-2895.	1.8	19
122	Community Assessment of the Predictability of Cancer Protein and Phosphoprotein Levels from Genomics and Transcriptomics. <i>Cell Systems</i> , 2020, 11, 186-195.e9.	2.9	19
123	Optimizing search conditions for the mass fingerprint-based identification of proteins. <i>Proteomics</i> , 2006, 6, 2079-2085.	1.3	18
124	Intraarticular injection of liposomal adenosine reduces cartilage damage in established murine and rat models of osteoarthritis. <i>Scientific Reports</i> , 2020, 10, 13477.	1.6	18
125	Affinity proteomic dissection of the human nuclear cap-binding complex interactome. <i>Nucleic Acids Research</i> , 2020, 48, 10456-10469.	6.5	18
126	Use of ENCODE Resources to Characterize Novel Proteoforms and Missing Proteins in the Human Proteome. <i>Journal of Proteome Research</i> , 2015, 14, 603-608.	1.8	17

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127	Somatic retrotransposition is infrequent in glioblastomas. <i>Mobile DNA</i> , 2016, 7, 22.	1.3	17
128	Optimizing selection of large animals for antibody production by screening immune response to standard vaccines. <i>Journal of Immunological Methods</i> , 2016, 430, 56-60.	0.6	17
129	Informatics development: Challenges and solutions for MALDI mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2008, 27, 1-19.	2.8	16
130	Chromosome 19 Annotations with Disease Speciation: A First Report from the Global Research Consortium. <i>Journal of Proteome Research</i> , 2013, 12, 135-150.	1.8	16
131	Comparative proteomic analysis of the ATP -sensitive K^+ channel complex in different tissue types. <i>Proteomics</i> , 2013, 13, 368-378.	1.3	16
132	The Hidden Story of Heterogeneous B-raf V600E Mutation Quantitative Protein Expression in Metastatic Melanoma—Association with Clinical Outcome and Tumor Phenotypes. <i>Cancers</i> , 2019, 11, 1981.	1.7	16
133	Efficient Identification of Phosphorylation by Mass Spectrometric Phosphopeptide Fingerprinting. <i>Analytical Chemistry</i> , 2008, 80, 2419-2425.	3.2	15
134	GenomeVIP: a cloud platform for genomic variant discovery and interpretation. <i>Genome Research</i> , 2017, 27, 1450-1459.	2.4	15
135	Extracting Pathway-level Signatures from Proteogenomic Data in Breast Cancer Using Independent Component Analysis. <i>Molecular and Cellular Proteomics</i> , 2019, 18, S169-S182.	2.5	15
136	Quantitative Mass Spectrometry to Interrogate Proteomic Heterogeneity in Metastatic Lung Adenocarcinoma and Validate a Novel Somatic Mutation CDK12-G879V. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 622-641.	2.5	15
137	Structural and Functional Characterization of a Na^+ 1.5-Mitochondrial Couplon. <i>Circulation Research</i> , 2021, 128, 419-432.	2.0	15
138	USP1-trapping lesions as a source of DNA replication stress and genomic instability. <i>Nature Communications</i> , 2022, 13, 1740.	5.8	15
139	Rapid Isolation and Identification of Bacteriophage T4-Encoded Modifications of <i>Escherichia coli</i> RNA Polymerase: A Generic Method to Study Bacteriophage/Host Interactions. <i>Journal of Proteome Research</i> , 2008, 7, 1244-1250.	1.8	14
140	Regulated Phosphosignaling Associated with Breast Cancer Subtypes and Druggability*. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 1630-1650.	2.5	14
141	The human melanoma proteome atlas—Defining the molecular pathology. <i>Clinical and Translational Medicine</i> , 2021, 11, e473.	1.7	14
142	Predictive Modeling of Morbidity and Mortality in Patients Hospitalized With COVID-19 and its Clinical Implications: Algorithm Development and Interpretation. <i>Journal of Medical Internet Research</i> , 2021, 23, e29514.	2.1	14
143	Discovery of Protein Modifications Using Differential Tandem Mass Spectrometry Proteomics. <i>Journal of Proteome Research</i> , 2021, 20, 1835-1848.	1.8	13
144	Determining the Overall Merit of Protein Identification Data Sets: ρ -Diagrams and ρ -Scores. <i>Journal of Proteome Research</i> , 2007, 6, 1997-2004.	1.8	12

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145	Large Scale Identification of Variant Proteins in Glioma Stem Cells. ACS Chemical Neuroscience, 2018, 9, 73-79.	1.7	12
146	Spatially interacting phosphorylation sites and mutations in cancer. Nature Communications, 2021, 12, 2313.	5.8	12
147	Phylogenetic debugging of a complete human biosynthetic pathway transplanted into yeast. Nucleic Acids Research, 2020, 48, 486-499.	6.5	11
148	Finding Protein Sequences Using PROWL. Current Protocols in Bioinformatics, 2004, 7, Unit 13.2.	25.8	9
149	Use of DNA Ladders for Reproducible Protein Fractionation by Sodium Dodecyl Sulfate~Polyacrylamide Gel Electrophoresis (SDS~PAGE) for Quantitative Proteomics. Journal of Proteome Research, 2008, 7, 678-686.	1.8	7
150	Strategy for Identifying Dendritic Cell-Processed CD4+ T Cell Epitopes from the HIV Gag p24 Protein. PLoS ONE, 2012, 7, e41897.	1.1	7
151	Abstract 6580: Proteogenomic characterization of endometrial carcinoma. Cancer Research, 2020, 80, 6580-6580.	0.4	7
152	Deep Learning and Its Applications in Computational Pathology. BioMedInformatics, 2022, 2, 159-168.	1.0	7
153	Next Generation Sequencing Data and Proteogenomics. Advances in Experimental Medicine and Biology, 2016, 926, 11-19.	0.8	6
154	Fluorescence ImmunoPrecipitation (FLIP): a Novel Assay for High-Throughput IP. Biological Procedures Online, 2016, 18, 16.	1.4	6
155	Adaptive Multiview Nonnegative Matrix Factorization Algorithm for Integration of Multimodal Biomedical Data. Cancer Informatics, 2017, 16, 117693511772572.	0.9	6
156	Human transposon insertion profiling by sequencing (TIPseq) to map LINE-1 insertions in single cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190335.	1.8	6
157	Diversity of Functionally Distinct Clonal Sets of Human Conventional Memory B Cells That Bind Staphylococcal Protein A. Frontiers in Immunology, 2021, 12, 662782.	2.2	6
158	BlackSheep: A Bioconductor and Bioconda Package for Differential Extreme Value Analysis. Journal of Proteome Research, 2021, 20, 3767-3773.	1.8	6
159	Modeling Experimental Design for Proteomics. Methods in Molecular Biology, 2010, 673, 223-230.	0.4	6
160	Breast Cancer Prognostics Using Multi-Omics Data. AMIA Summits on Translational Science Proceedings, 2016, 2016, 52-9.	0.4	6
161	High-capacity ion trap coupled to a time-of-flight mass spectrometer for comprehensive linked scans with no scanning losses. International Journal of Mass Spectrometry, 2011, 301, 211-219.	0.7	5
162	g2pDB: A Database Mapping Protein Post-Translational Modifications to Genomic Coordinates. Journal of Proteome Research, 2016, 15, 983-990.	1.8	5

#	ARTICLE	IF	CITATIONS
163	LXT is required for spermatogenesis in mice. PLoS ONE, 2018, 13, e0195747.	1.1	5
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