Karl Mechtler

List of Publications by Year in descending order

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KADI MECHTIED

#	Article	IF	CITATIONS
1	Regulation of chromatin structure by site-specific histone H3 methyltransferases. Nature, 2000, 406, 593-599.	27.8	2,497
2	Methylation of histone H3 lysine 9 creates a binding site for HP1 proteins. Nature, 2001, 410, 116-120.	27.8	2,481
3	Loss of the Suv39h Histone Methyltransferases Impairs Mammalian Heterochromatin and Genome Stability. Cell, 2001, 107, 323-337.	28.9	1,552
4	Partitioning and Plasticity of Repressive Histone Methylation States in Mammalian Chromatin. Molecular Cell, 2003, 12, 1577-1589.	9.7	1,010
5	Reversal of H3K9me2 by a Small-Molecule Inhibitor for the G9a Histone Methyltransferase. Molecular Cell, 2007, 25, 473-481.	9.7	770
6	Universal and Confident Phosphorylation Site Localization Using phosphoRS. Journal of Proteome Research, 2011, 10, 5354-5362.	3.7	732
7	Activation of the Complement System by Synthetic DNA Complexes: A Potential Barrier for Intravenous Gene Delivery. Human Gene Therapy, 1996, 7, 1437-1446.	2.7	572
8	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. Nature Methods, 2008, 5, 409-415.	19.0	568
9	The size of DNA/transferrin-PEI complexes is an important factor for gene expression in cultured cells. Gene Therapy, 1998, 5, 1425-1433.	4.5	562
10	Wapl Controls the Dynamic Association of Cohesin with Chromatin. Cell, 2006, 127, 955-967.	28.9	550
11	The Par complex directs asymmetric cell division by phosphorylating the cytoskeletal protein Lgl. Nature, 2003, 422, 326-330.	27.8	509
12	Coupling of adenovirus to transferrin-polylysine/DNA complexes greatly enhances receptor-mediated gene delivery and expression of transfected genes Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 6099-6103.	7.1	478
13	Asymmetric Segregation of the Tumor Suppressor Brat Regulates Self-Renewal in Drosophila Neural Stem Cells. Cell, 2006, 124, 1241-1253.	28.9	473
14	Systematic Analysis of Human Protein Complexes Identifies Chromosome Segregation Proteins. Science, 2010, 328, 593-599.	12.6	465
15	A Syd-1 homologue regulates pre- and postsynaptic maturation in <i>Drosophila</i> . Journal of Cell Biology, 2010, 188, 565-579.	5.2	427
16	Protein phosphatase 2A protects centromeric sister chromatid cohesion during meiosis I. Nature, 2006, 441, 53-61.	27.8	419
17	MS Amanda, a Universal Identification Algorithm Optimized for High Accuracy Tandem Mass Spectra. Journal of Proteome Research, 2014, 13, 3679-3684.	3.7	416
18	Dissociation of Cohesin from Chromosome Arms and Loss of Arm Cohesion during Early Mitosis Depends on Phosphorylation of SA2. PLoS Biology, 2005, 3, e69.	5.6	382

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19	Phosphorylation of the Cohesin Subunit Scc1 by Polo/Cdc5 Kinase Regulates Sister Chromatid Separation in Yeast. Cell, 2001, 105, 459-472.	28.9	358
20	Recruitment of PRC1 function at the initiation of X inactivation independent of PRC2 and silencing. EMBO Journal, 2006, 25, 3110-3122.	7.8	353
21	Mitotic regulation of the human anaphase-promoting complex by phosphorylation. EMBO Journal, 2003, 22, 6598-6609.	7.8	344
22	Transferrin-polycation-mediated introduction of DNA into human leukemic cells: stimulation by agents that affect the survival of transfected DNA or modulate transferrin receptor levels Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 4033-4037.	7.1	337
23	Gene transfer into hepatocytes using asialoglycoprotein receptor mediated endocytosis of DNA complexed with an artificial tetra-antennary galactose ligand. Bioconjugate Chemistry, 1992, 3, 533-539.	3.6	334
24	Sororin Mediates Sister Chromatid Cohesion by Antagonizing Wapl. Cell, 2010, 143, 737-749.	28.9	325
25	Jmjd2b antagonizes H3K9 trimethylation at pericentric heterochromatin in mammalian cells. Genes and Development, 2006, 20, 1557-1562.	5.9	321
26	Live-cell imaging RNAi screen identifies PP2A–B55α and importin-β1 as key mitotic exit regulators in human cells. Nature Cell Biology, 2010, 12, 886-893.	10.3	315
27	Building Sister Chromatid Cohesion: Smc3 Acetylation Counteracts an Antiestablishment Activity. Molecular Cell, 2009, 33, 763-774.	9.7	294
28	ATP Hydrolysis Is Required for Cohesin's Association with Chromosomes. Current Biology, 2003, 13, 1941-1953.	3.9	254
29	Aurora A phosphorylation of TACC3/maskin is required for centrosome-dependent microtubule assembly in mitosis. Journal of Cell Biology, 2005, 170, 1047-1055.	5.2	248
30	An in vivo RNAi assay identifies major genetic and cellular requirements for primary piRNA biogenesis in Drosophila. EMBO Journal, 2010, 29, 3301-3317.	7.8	242
31	Eco1 Is a Novel Acetyltransferase that Can Acetylate Proteins Involved in Cohesion. Current Biology, 2002, 12, 323-328.	3.9	228
32	Sororin Is Required for Stable Binding of Cohesin to Chromatin and for Sister Chromatid Cohesion in Interphase. Current Biology, 2007, 17, 630-636.	3.9	222
33	Mei-P26 regulates microRNAs and cell growth in the Drosophila ovarian stem cell lineage. Nature, 2008, 454, 241-245.	27.8	222
34	HSPC117 Is the Essential Subunit of a Human tRNA Splicing Ligase Complex. Science, 2011, 331, 760-764.	12.6	215
35	Quantitative Phosphoproteomics of the Ataxia Telangiectasia-Mutated (ATM) and Ataxia Telangiectasia-Mutated and Rad3-related (ATR) Dependent DNA Damage Response in Arabidopsis thaliana*. Molecular and Cellular Proteomics, 2015, 14, 556-571.	3.8	199
36	Structure of the Anaphase-Promoting Complex/Cyclosome Interacting with a Mitotic Checkpoint Complex. Science, 2009, 323, 1477-1481.	12.6	195

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37	Rec8 Phosphorylation by Casein Kinase 1 and Cdc7-Dbf4 Kinase Regulates Cohesin Cleavage by Separase during Meiosis. Developmental Cell, 2010, 18, 397-409.	7.0	192
38	Inter-Homolog Crossing-Over and Synapsis in Arabidopsis Meiosis Are Dependent on the Chromosome Axis Protein AtASY3. PLoS Genetics, 2012, 8, e1002507.	3.5	170
39	Monopolar Attachment of Sister Kinetochores at Meiosis I Requires Casein Kinase 1. Cell, 2006, 126, 1049-1064.	28.9	168
40	Peptide Labeling with Isobaric Tags Yields Higher Identification Rates Using iTRAQ 4-Plex Compared to TMT 6-Plex and iTRAQ 8-Plex on LTQ Orbitrap. Analytical Chemistry, 2010, 82, 6549-6558.	6.5	168
41	CENP-T proteins are conserved centromere receptors of the Ndc80 complex. Nature Cell Biology, 2012, 14, 604-613.	10.3	168
42	Arginine phosphorylation marks proteins for degradation by a Clp protease. Nature, 2016, 539, 48-53.	27.8	168
43	A systematic analysis of <i>Drosophila</i> TUDOR domain-containing proteins identifies Vreteno and the Tdrd12 family as essential primary piRNA pathway factors. EMBO Journal, 2011, 30, 3977-3993.	7.8	163
44	High Precision Quantitative Proteomics Using iTRAQ on an LTQ Orbitrap: A New Mass Spectrometric Method Combining the Benefits of All. Journal of Proteome Research, 2009, 8, 4743-4752.	3.7	158
45	Spatial Exclusivity Combined with Positive and Negative Selection of Phosphorylation Motifs Is the Basis for Context-Dependent Mitotic Signaling. Science Signaling, 2011, 4, ra42.	3.6	155
46	McsB Is a Protein Arginine Kinase That Phosphorylates and Inhibits the Heat-Shock Regulator CtsR. Science, 2009, 324, 1323-1327.	12.6	151
47	Charting the molecular network of the drug target Bcr-Abl. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7414-7419.	7.1	146
48	Unambiguous Phosphosite Localization using Electron-Transfer/Higher-Energy Collision Dissociation (EThcD). Journal of Proteome Research, 2013, 12, 1520-1525.	3.7	145
49	14-3-3 Proteins recognize a histone code at histone H3 and are required for transcriptional activation. EMBO Journal, 2008, 27, 88-99.	7.8	144
50	DNA-binding transferrin conjugates as functional gene-delivery agents: synthesis by linkage of polylysine or ethidium homodimer to the transferrin carbohydrate moiety. Bioconjugate Chemistry, 1991, 2, 226-231.	3.6	140
51	A cross-kingdom conserved ER-phagy receptor maintains endoplasmic reticulum homeostasis during stress. ELife, 2020, 9, .	6.0	139
52	Aurora B and Cdk1 mediate Wapl activation and release of acetylated cohesin from chromosomes by phosphorylating Sororin. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13404-13409.	7.1	129
53	A structural basis for kinetochore recruitment of the Ndc80 complex via two distinct centromere receptors. EMBO Journal, 2013, 32, 409-423.	7.8	128
54	Ultra-High-Pressure RPLC Hyphenated to an LTQ-Orbitrap Velos Reveals a Linear Relation between Peak Capacity and Number of Identified Peptides. Analytical Chemistry, 2011, 83, 2699-2704.	6.5	126

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55	Phosphoproteomics strategies for the functional analysis of signal transduction. Proteomics, 2006, 6, 4047-4056.	2.2	124
56	Polysialylation controls dendritic cell trafficking by regulating chemokine recognition. Science, 2016, 351, 186-190.	12.6	123
57	General Statistical Modeling of Data from Protein Relative Expression Isobaric Tags. Journal of Proteome Research, 2011, 10, 2758-2766.	3.7	120
58	Topology and Organization of the Salmonella typhimurium Type III Secretion Needle Complex Components. PLoS Pathogens, 2010, 6, e1000824.	4.7	119
59	Interplay of PDZ and protease domain of DegP ensures efficient elimination of misfolded proteins. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7702-7707.	7.1	118
60	APC15 mediates CDC20 autoubiquitylation by APC/CMCC and disassembly of the mitotic checkpoint complex. Nature Structural and Molecular Biology, 2012, 19, 1116-1123.	8.2	118
61	ESCO1 and CTCF enable formation of long chromatin loops by protecting cohesinSTAG1 from WAPL. ELife, 2020, 9, .	6.0	116
62	Receptor-Mediated Gene Transfer into Human T Lymphocytes <i>via</i> Binding of DNA/CD3 Antibody Particles to the CD3 T Cell Receptor Complex. Human Gene Therapy, 1995, 6, 753-761.	2.7	114
63	Mechanism of APC/C ^{CDC20} activation by mitotic phosphorylation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2570-8.	7.1	112
64	Comparative glycoproteomics of stem cells identifies new players in ricin toxicity. Nature, 2017, 549, 538-542.	27.8	110
65	Phosphoregulation of the budding yeast EB1 homologue Bim1p by Aurora/Ipl1p. Journal of Cell Biology, 2009, 186, 379-391.	5.2	109
66	Titanium dioxide as a chemo-affinity solid phase in offline phosphopeptide chromatography prior to HPLC-MS/MS analysis. Nature Protocols, 2007, 2, 1059-1069.	12.0	108
67	Analysis of protein mixtures from whole-cell extracts by single-run nanoLC-MS/MS using ultralong gradients. Nature Protocols, 2012, 7, 882-890.	12.0	106
68	Quantitative Phosphoproteomics Reveals the Role of Protein Arginine Phosphorylation in the Bacterial Stress Response. Molecular and Cellular Proteomics, 2014, 13, 537-550.	3.8	103
69	First Community-Wide, Comparative Cross-Linking Mass Spectrometry Study. Analytical Chemistry, 2019, 91, 6953-6961.	6.5	100
70	Spatial organization of a ubiquitous eukaryotic kinetochore protein network in Drosophila chromosomes. Chromosoma, 2007, 116, 385-402.	2.2	99
71	A cooperative mechanism drives budding yeast kinetochore assembly downstream of CENP-A. Journal of Cell Biology, 2014, 206, 509-524.	5.2	99
72	Afamin Is a Novel Human Vitamin E-Binding Glycoprotein Characterization and In Vitro Expression. Journal of Proteome Research, 2005, 4, 889-899.	3.7	97

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73	Arabidopsis PCH2 Mediates Meiotic Chromosome Remodeling and Maturation of Crossovers. PLoS Genetics, 2015, 11, e1005372.	3.5	97
74	Lymphatic Microvessels in the Rat Remnant Kidney Model of Renal Fibrosis. Journal of the American Society of Nephrology: JASN, 2003, 14, 1981-1989.	6.1	93
75	Generation and Characterization of Methyl-Lysine Histone Antibodies. Methods in Enzymology, 2003, 376, 234-254.	1.0	90
76	Raman microspectroscopy reveals longâ€ŧerm extracellular activity of chlamydiae. Molecular Microbiology, 2010, 77, 687-700.	2.5	89
77	Systematic Phosphorylation Analysis of Human Mitotic Protein Complexes. Science Signaling, 2011, 4, rs12.	3.6	87
78	Drosophila CPEB Orb2A Mediates Memory Independent of Its RNA-Binding Domain. Neuron, 2012, 76, 383-395.	8.1	86
79	Identification of a Subunit of a Novel Kleisin- $\hat{1}^2$ /SMC Complex as a Potential Substrate of Protein Phosphatase 2A. Current Biology, 2003, 13, 2058-2064.	3.9	84
80	Casein kinase 1 is required for efficient removal of Rec8 during meiosis I. Cell Cycle, 2010, 9, 2657-2662.	2.6	83
81	Influence of Membrane-Active Peptides on Lipospermine/DNA Complex Mediated Gene Transfer. Bioconjugate Chemistry, 1997, 8, 213-221.	3.6	82
82	AMPK leads to phosphorylation of the transcription factor Nrf2, tuning transactivation of selected target genes. Redox Biology, 2020, 29, 101393.	9.0	80
83	Absolute quantification of cohesin, CTCF and their regulators in human cells. ELife, 2019, 8, .	6.0	79
84	Regulation of Gene Expression through a Transcriptional Repressor that Senses Acyl-Chain Length in Membrane Phospholipids. Developmental Cell, 2014, 29, 729-739.	7.0	78
85	The nascent RNA binding complex SFiNX licenses piRNA-guided heterochromatin formation. Nature Structural and Molecular Biology, 2019, 26, 720-731.	8.2	75
86	The AAA-ATPase molecular chaperone Cdc48/p97 disassembles sumoylated centromeres, decondenses heterochromatin, and activates ribosomal RNA genes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16166-16171.	7.1	74
87	Preventing Carryover of Peptides and Proteins in Nano LC-MS Separations. Analytical Chemistry, 2009, 81, 5955-5960.	6.5	73
88	Anion-Exchange Chromatography of Phosphopeptides: Weak Anion Exchange versus Strong Anion Exchange and Anion-Exchange Chromatography versus Electrostatic Repulsion–Hydrophilic Interaction Chromatography. Analytical Chemistry, 2015, 87, 4704-4711.	6.5	73
89	Isotope-labeled cross-linkers and fourier transform ion cyclotron resonance mass spectrometry for structural analysis of a protein/peptide complex. Journal of the American Society for Mass Spectrometry, 2006, 17, 1100-1113.	2.8	72
90	Chemical Cross-Linking and High-Performance Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Protein Interaction Analysis:Â Application to a Calmodulin/Target Peptide Complex. Analytical Chemistry, 2005, 77, 495-503.	6.5	70

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91	HPLC techniques for proteomics analysisa short overview of latest developments. Briefings in Functional Genomics & Proteomics, 2006, 5, 249-260.	3.8	65
92	An improved method for tracking and reducing the void volume in nano HPLC?MS with micro trapping columns. Analytical and Bioanalytical Chemistry, 2003, 376, 946-951.	3.7	64
93	Probing the Phosphoproteome of HeLa Cells Using Nanocast Metal Oxide Microspheres for Phosphopeptide Enrichment. Analytical Chemistry, 2010, 82, 2726-2733.	6.5	63
94	A synthetic peptide library for benchmarking crosslinking-mass spectrometry search engines for proteins and protein complexes. Nature Communications, 2020, 11, 742.	12.8	62
95	Quantitative Phospho-proteomics to Investigate the Polo-like Kinase 1-Dependent Phospho-proteome. Molecular and Cellular Proteomics, 2011, 10, M111.008540.	3.8	61
96	apQuant: Accurate Label-Free Quantification by Quality Filtering. Journal of Proteome Research, 2019, 18, 535-541.	3.7	61
97	MTHFD1 interaction with BRD4 links folate metabolism to transcriptional regulation. Nature Genetics, 2019, 51, 990-998.	21.4	61
98	Glycerol and Polylysine Synergize in Their Ability to Rupture Vesicular Membranes: A Mechanism for Increased Transferrin–Polylysine-Mediated Gene Transfer1. Experimental Cell Research, 1997, 232, 137-145.	2.6	58
99	CCAN Assembly Configures Composite Binding Interfaces to Promote Cross-Linking of Ndc80 Complexes at the Kinetochore. Current Biology, 2016, 26, 2370-2378.	3.9	58
100	Tandem affinity purification of functional TAP-tagged proteins from human cells. Nature Protocols, 2007, 2, 1145-1151.	12.0	57
101	A DEK Domain-Containing Protein Modulates Chromatin Structure and Function in <i>Arabidopsis</i> ÂÂ. Plant Cell, 2014, 26, 4328-4344.	6.6	57
102	CharmeRT: Boosting Peptide Identifications by Chimeric Spectra Identification and Retention Time Prediction. Journal of Proteome Research, 2018, 17, 2581-2589.	3.7	57
103	Improved Sensitivity in Low-Input Proteomics Using Micropillar Array-Based Chromatography. Analytical Chemistry, 2019, 91, 14203-14207.	6.5	57
104	Automated, on-line two-dimensional nano liquid chromatography tandem mass spectrometry for rapid analysis of complex protein digests. Proteomics, 2004, 4, 2545-2557.	2.2	56
105	Structural prediction of protein models using distance restraints derived from cross-linking mass spectrometry data. Nature Protocols, 2018, 13, 478-494.	12.0	56
106	Optimized Fragmentation Improves the Identification of Peptides Cross-Linked by MS-Cleavable Reagents. Journal of Proteome Research, 2019, 18, 1363-1370.	3.7	55
107	Cleavable Cross-Linkers and Mass Spectrometry for the Ultimate Task of Profiling Protein–Protein Interaction Networks <i>in Vivo</i> . Journal of Proteome Research, 2021, 20, 78-93.	3.7	55
108	AKIRIN2 controls the nuclear import of proteasomes in vertebrates. Nature, 2021, 599, 491-496.	27.8	55

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109	Cell-free tumor antigen peptide-based cancer vaccines. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3262-3267.	7.1	52
110	Laser microsurgery provides evidence for merotelic kinetochore attachments in fission yeast cells lacking Pcs1 or Clr4. Cell Cycle, 2010, 9, 3997-4004.	2.6	52
111	Improved Precision of iTRAQ and TMT Quantification by an Axial Extraction Field in an Orbitrap HCD Cell. Analytical Chemistry, 2011, 83, 1469-1474.	6.5	52
112	Chasing Phosphoarginine Proteins: Development of a Selective Enrichment Method Using a Phosphatase Trap. Molecular and Cellular Proteomics, 2014, 13, 1953-1964.	3.8	52
113	Transloading of tumor antigen-derived peptides into antigen-presenting cells. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3256-3261.	7.1	51
114	Affinity proteomics reveals extensive phosphorylation of the Brassica chromosome axis protein <scp>ASY</scp> 1 and a network of associated proteins at prophase I of meiosis. Plant Journal, 2018, 93, 17-33.	5.7	51
115	Autophagy mediates temporary reprogramming and dedifferentiation in plant somatic cells. EMBO Journal, 2020, 39, e103315.	7.8	51
116	Molecular basis for cytoplasmic <scp>RNA</scp> surveillance by uridylationâ€ŧriggered decay in <i>Drosophila</i> . EMBO Journal, 2016, 35, 2417-2434.	7.8	50
117	The replicative helicase MCM recruits cohesin acetyltransferase ESCO2 to mediate centromeric sister chromatid cohesion. EMBO Journal, 2018, 37, .	7.8	50
118	The biophysical, molecular, and anatomical landscape of pigeon CRY4: A candidate light-based quantal magnetosensor. Science Advances, 2020, 6, eabb9110.	10.3	50
119	Peptide Orientation Affects Selectivity in Ion-Exchange Chromatography. Analytical Chemistry, 2010, 82, 5253-5259.	6.5	49
120	Jagunal homolog 1 is a critical regulator of neutrophil function in fungal host defense. Nature Genetics, 2014, 46, 1028-1033.	21.4	49
121	H3S28 phosphorylation is a hallmark of the transcriptional response to cellular stress. Genome Research, 2014, 24, 1808-1820.	5.5	49
122	Ultrasensitive NanoLC-MS of Subnanogram Protein Samples Using Second Generation Micropillar Array LC Technology with Orbitrap Exploris 480 and FAIMS PRO. Analytical Chemistry, 2021, 93, 8704-8710.	6.5	49
123	Differential cofactor dependencies define distinct types of human enhancers. Nature, 2022, 606, 406-413.	27.8	49
124	A Dam1-based artificial kinetochore is sufficient to promote chromosome segregation in budding yeast. Nature Cell Biology, 2009, 11, 1109-1115.	10.3	48
125	N-terminal Î ² -strand underpins biochemical specialization of an ATG8 isoform. PLoS Biology, 2019, 17, e3000373.	5.6	47
126	The 20S proteasome isolated from Alzheimer?s disease brain shows post-translational modifications but unchanged proteolytic activity. Journal of Neurochemistry, 2007, 101, 1483-1490.	3.9	46

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127	Stoichiometry Determination of the MP1â^'p14 Complex Using a Novel and Cost-Efficient Method To Produce an Equimolar Mixture of Standard Peptides. Analytical Chemistry, 2009, 81, 10254-10261.	6.5	46
128	SIMPATIQCO: A Server-Based Software Suite Which Facilitates Monitoring the Time Course of LC–MS Performance Metrics on Orbitrap Instruments. Journal of Proteome Research, 2012, 11, 5540-5547.	3.7	45
129	Casein Kinase 1 and Phosphorylation of Cohesin Subunit Rec11 (SA3) Promote Meiotic Recombination through Linear Element Formation. PLoS Genetics, 2015, 11, e1005225.	3.5	45
130	Phosphoproteomics with Activated Ion Electron Transfer Dissociation. Analytical Chemistry, 2017, 89, 6367-6376.	6.5	44
131	Carbohydrate receptor-mediated gene transfer to human T leukaemic cells. Glycobiology, 1994, 4, 429-435.	2.5	43
132	qcML: An Exchange Format for Quality Control Metrics from Mass Spectrometry Experiments. Molecular and Cellular Proteomics, 2014, 13, 1905-1913.	3.8	42
133	The rise of singleâ€cell proteomics. Analytical Science Advances, 2021, 2, 84-94.	2.8	41
134	<scp>LSD</scp> 1 inhibition induces differentiation and cell death in Merkel cell carcinoma. EMBO Molecular Medicine, 2020, 12, e12525.	6.9	41
135	Transcriptome and proteome quantification of a tumor model provides novel insights into postâ€transcriptional gene regulation. Genome Biology, 2013, 14, r133.	9.6	40
136	Annexin A2/P11 interaction: New insights into annexin A2 tetramer structure by chemical crosslinking, highâ€resolution mass spectrometry, and computational modeling. Proteins: Structure, Function and Bioinformatics, 2007, 69, 254-269.	2.6	39
137	Optimized Nonlinear Gradients for Reversed-Phase Liquid Chromatography in Shotgun Proteomics. Analytical Chemistry, 2013, 85, 7777-7785.	6.5	39
138	The linear ubiquitin chain assembly complex (LUBAC) generates heterotypic ubiquitin chains. ELife, 2021, 10, .	6.0	38
139	MASPECTRAS: a platform for management and analysis of proteomics LC-MS/MS data. BMC Bioinformatics, 2007, 8, 197.	2.6	37
140	Enhanced detection and identification of multiply phosphorylated peptides using TiO ₂ enrichment in combination with MALDI TOF/TOF MS. Proteomics, 2008, 8, 4577-4592.	2.2	37
141	The H3 histone chaperone NASP ^{SIM3} escorts CenH3 in Arabidopsis. Plant Journal, 2020, 101, 71-86.	5.7	37
142	Studying the fragmentation behavior of peptides with arginine phosphorylation and its influence on phosphoâ€site localization. Proteomics, 2013, 13, 945-954.	2.2	36
143	Comprehensive Cross-Linking Mass Spectrometry Reveals Parallel Orientation and Flexible Conformations of Plant HOP2–MND1. Journal of Proteome Research, 2015, 14, 5048-5062. 	3.7	36
144	Structure of McsB, a protein kinase for regulated arginine phosphorylation. Nature Chemical Biology, 2019, 15, 510-518.	8.0	36

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145	Cleaning of raw peptide MS/MS spectra: Improved protein identification following deconvolution of multiply charged peaks, isotope clusters, and removal of background noise. Proteomics, 2006, 6, 5117-5131.	2.2	35
146	Quality control in LCâ€MS/MS. Proteomics, 2011, 11, 1026-1030.	2.2	35
147	A Chemical Proteomics Approach to Phosphatidylinositol 3-Kinase Signaling in Macrophages. Molecular and Cellular Proteomics, 2007, 6, 1829-1841.	3.8	34
148	Linear ubiquitination by <scp>LUBEL</scp> has a role in <i>Drosophila</i> heat stress response. EMBO Reports, 2016, 17, 1624-1640.	4.5	34
149	An improved strategy for tandem affinity purificationâ€ŧagging of <i>Schizosaccharomyces pombe</i> genes. Proteomics, 2009, 9, 4825-4828.	2.2	33
150	SIRT2 regulates nuclear envelope reassembly via ANKLE2 deacetylation. Journal of Cell Science, 2016, 129, 4607-4621.	2.0	32
151	A novel non-canonical PIP-box mediates PARG interaction with PCNA. Nucleic Acids Research, 2017, 45, 9741-9759.	14.5	30
152	Mutations in Vps15 perturb neuronal migration in mice and are associated with neurodevelopmental disease in humans. Nature Neuroscience, 2018, 21, 207-217.	14.8	30
153	Interlaboratory studies and initiatives developing standards for proteomics. Proteomics, 2013, 13, 904-909.	2.2	29
154	Yeast Protein Phosphatase 2A-Cdc55 Regulates the Transcriptional Response to Hyperosmolarity Stress by Regulating Msn2 and Msn4 Chromatin Recruitment. Molecular and Cellular Biology, 2013, 33, 1057-1072.	2.3	28
155	MSX2 safeguards syncytiotrophoblast fate of human trophoblast stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
156	A new acid mix enhances phosphopeptide enrichment on titanium- and zirconium dioxide for mapping of phosphorylation sites on protein complexes. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 515-524.	2.3	27
157	QIKS â€" Quantitative identification of kinase substrates. Proteomics, 2010, 10, 2015-2025.	2.2	26
158	MS Annika: A New Cross-Linking Search Engine. Journal of Proteome Research, 2021, 20, 2560-2569.	3.7	26
159	Rio1 promotes rDNA stability and downregulates RNA polymerase I to ensure rDNA segregation. Nature Communications, 2015, 6, 6643.	12.8	25
160	Spatiotemporal Regulation of Ipl1/Aurora Activity by Direct Cdk1 Phosphorylation. Current Biology, 2012, 22, 787-793.	3.9	24
161	Development and performance evaluation of an ultralow flow nanoliquid chromatographyâ€ŧandem mass spectrometry setâ€up. Proteomics, 2014, 14, 1999-2007.	2.2	24
162	Quantitative Accuracy and Precision in Multiplexed Single-Cell Proteomics. Analytical Chemistry, 2022, 94, 2434-2443.	6.5	24

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163	An Innovative Method To Study Target Proteinâ^'Drug Interactions by Mass Spectrometry. Journal of Medicinal Chemistry, 2009, 52, 2875-2879.	6.4	23
164	Lesson from the Stoichiometry Determination of the Cohesin Complex: A Short Protease Mediated Elution Increases the Recovery from Cross-Linked Antibody-Conjugated Beads. Journal of Proteome Research, 2011, 10, 780-789.	3.7	23
165	ANGEL2 is a member of the CCR4 family of deadenylases with 2′,3′-cyclic phosphatase activity. Science, 2020, 369, 524-530.	12.6	23
166	Fast and Highly Efficient Affinity Enrichment of Azide-A-DSBSO Cross-Linked Peptides. Journal of Proteome Research, 2020, 19, 2071-2079.	3.7	23
167	Molecular principles of Piwi-mediated cotranscriptional silencing through the dimeric SFiNX complex. Genes and Development, 2021, 35, 392-409.	5.9	23
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