David C Muddiman

List of Publications by Year in descending order

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Version: 2024-02-01

327 papers	13,315 citations	27035 58 h-index	49824 91 g-index
340 all docs	340 docs citations	340 times ranked	12799 citing authors

#	Article	IF	Citations
1	The development and application of matrix assisted laser desorption electrospray ionization: The teenage years. Mass Spectrometry Reviews, 2023, 42, 35-66.	2.8	40
2	Understanding the electrospray ionization response factors of per- and poly-fluoroalkyl substances (PFAS). Analytical and Bioanalytical Chemistry, 2022, 414, 1227-1234.	1.9	8
3	Utilizing liquid chromatography, ion mobility spectrometry, and mass spectrometry to assess INLIGHTâ„¢ derivatized N-linked glycans in biological samples. Analytical and Bioanalytical Chemistry, 2022, 414, 623-637.	1.9	6
4	Simultaneous Measurement of Striatal Dopamine and Hydrogen Peroxide Transients Associated with L-DOPA Induced Rotation in Hemiparkinsonian Rats. ACS Measurement Science Au, 2022, 2, 120-131.	1.9	2
5	Phosphorylation-dependent proteome of Marcks in ependyma during aging and behavioral homeostasis in the mouse forebrain. GeroScience, 2022, 44, 2077-2094.	2.1	1
6	Optimized C-Trap Timing of an Orbitrap 240 Mass Spectrometer for High-Throughput Screening and Native MS by IR-MALDESI. Journal of the American Society for Mass Spectrometry, 2022, 33, 328-334.	1.2	16
7	Development and validation of a high resolving power absolute quantitative perâ€•and polyfluoroalkyl substances method incorporating Skyline data processing. Rapid Communications in Mass Spectrometry, 2022, 36, e9295.	0.7	4
8	Mass Spectrometry Imaging of N-Linked Glycans in a Formalin-Fixed Paraffin-Embedded Human Prostate by Infrared Matrix-Assisted Laser Desorption Electrospray Ionization. Journal of Proteome Research, 2022, 21, 243-249.	1.8	13
9	Sequential paired covariance for improved visualization of mass spectrometry imaging datasets. Journal of Mass Spectrometry, 2022, 57, .	0.7	3
10	Highlighting Functional Mass Spectrometry Imaging Methods in Bioanalysis. Journal of Proteome Research, 2022, 21, 1800-1807.	1.8	9
11	Glycerate from intestinal fructose metabolism induces islet cell damage and glucose intolerance. Cell Metabolism, 2022, 34, 1042-1053.e6.	7.2	10
12	An adaptive teosintemexicanaintrogression modulates phosphatidylcholine levels and is associated with maize flowering time. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	21
13	GlycoHunter: An Open-Source Software for the Detection and Relative Quantification of INLIGHT-Labeled N-Linked Glycans. Journal of Proteome Research, 2021, 20, 1855-1863.	1.8	5
14	Three-dimensional (3D) imaging of lipids in skin tissues with infrared matrix-assisted laser desorption electrospray ionization (MALDESI) mass spectrometry. Analytical and Bioanalytical Chemistry, 2021, 413, 2793-2801.	1.9	20
15	In situ detection of fatty acid C=C positional isomers by coupling onâ€tissue mCPBA epoxidation with infrared matrixâ€assisted laser desorption electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e9119.	0.7	9
16	Investigations of Î²â€carotene radical cation formation in infrared matrixâ€assisted laser desorption electrospray ionization (IRâ€MALDESI). Rapid Communications in Mass Spectrometry, 2021, 35, e9133.	0.7	2
17	Spatially resolved metabolomic characterization of muscle invasive bladder cancer by mass spectrometry imaging. Metabolomics, 2021, 17, 70.	1.4	12
18	Enzyme Complexes of Ptr4CL and PtrHCT Modulate Co-enzyme A Ligation of Hydroxycinnamic Acids for Monolignol Biosynthesis in Populus trichocarpa. Frontiers in Plant Science, 2021, 12, 727932.	1.7	5

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19	Multiple Infusion Start Time Mass Spectrometry Imaging of Dynamic SIL-Glutathione Biosynthesis Using Infrared Matrix-Assisted Laser Desorption Electrospray Ionization. Journal of Proteome Research, 2021, , .	1.8	8
20	Enhancing Metabolomic Coverage in Positive Ionization Mode Using Dicationic Reagents by Infrared Matrix-Assisted Laser Desorption Electrospray Ionization. Metabolites, 2021, 11, 810.	1.3	1
21	Multimodal Mass Spectrometry Imaging of Rat Brain Using IR-MALDESI and NanoPOTS-LC-MS/MS. Journal of Proteome Research, 2021, , .	1.8	8
22	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. Molecular and Cellular Proteomics, 2020, 19, 11-30.	2.5	87
23	Development of a relative quantification method for infrared matrixâ€assisted laser desorption electrospray ionization mass spectrometry imaging of Arabidopsis seedlings. Rapid Communications in Mass Spectrometry, 2020, 34, e8616.	0.7	12
24	Three-Dimensional Imaging with Infrared Matrix-Assisted Laser Desorption Electrospray Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 292-297.	1.2	14
25	Determination of Optimal Electrospray Parameters for Lipidomics in Infrared-Matrix-Assisted Laser Desorption Electrospray Ionization Mass Spectrometry Imaging. Journal of the American Society for Mass Spectrometry, 2020, 31, 319-325.	1.2	14
26	Investigating host-pathogen meta-metabolic interactions of Magnaporthe oryzae infected barley using infrared matrix-assisted laser desorption electrospray ionization mass spectrometry. Analytical and Bioanalytical Chemistry, 2020, 412, 139-147.	1.9	5
27	Lipidomic profiling of single mammalian cells by infrared matrix-assisted laser desorption electrospray ionization (IR-MALDESI). Analytical and Bioanalytical Chemistry, 2020, 412, 8211-8222.	1.9	20
28	3D Imaging and metabolomic profiling reveal higher neuroactive kavalactone contents in lateral roots and crown root peels of Piper methysticum (kava). GigaScience, 2020, 9, .	3.3	9
29	Comparative Proteomic Analysis of Wild Type and Mutant Lacking an SCF E3 Ligase F-Box Protein in Magnaporthe oryzae. Journal of Proteome Research, 2020, 19, 3761-3768.	1.8	1
30	Infrared matrix-assisted laser desorption electrospray ionization (IR-MALDESI) mass spectrometry imaging analysis of endogenous metabolites in cherry tomatoes. Analyst, The, 2020, 145, 5516-5523.	1.7	18
31	Enhanced protocol for quantitative N-linked glycomics analysis using Individuality Normalization when Labeling with Isotopic Glycan Hydrazide Tags (INLIGHT)â„¢. Analytical and Bioanalytical Chemistry, 2020, 412, 7569-7579.	1.9	11
32	Metabolite Profiling Reveals Predictive Biomarkers and the Absence of Î²-Methyl Amino-<scp>l</scp>-alanine in Plasma from Individuals Diagnosed with Amyotrophic Lateral Sclerosis. Journal of Proteome Research, 2020, 19, 3276-3285.	1.8	18
33	A Versatile Platform for Mass Spectrometry Imaging of Arbitrary Spatial Patterns. Journal of the American Society for Mass Spectrometry, 2020, 31, 2547-2552.	1.2	19
34	Direct Analysis of Native N-Linked Glycans by IR-MALDESI. Journal of the American Society for Mass Spectrometry, 2020, 31, 1759-1762.	1.2	12
35	Methods for Cryosectioning and Mass Spectrometry Imaging of Whole-Body Zebrafish. Journal of the American Society for Mass Spectrometry, 2020, 31, 768-772.	1.2	19
36	Coupling IR-MALDESI with Drift Tube Ion Mobility-Mass Spectrometry for High-Throughput Screening and Imaging Applications. Journal of the American Society for Mass Spectrometry, 2020, 31, 642-650.	1.2	22

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37	Effects of Prenatal Exposure to a Mixture of Organophosphate Flame Retardants on Placental Gene Expression and Serotonergic Innervation in the Fetal Rat Brain. Toxicological Sciences, 2020, 176, 203-223.	1.4	37
38	Analysis of neurotransmitters in rat placenta exposed to flame retardants using IR-MALDESI mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2020, 412, 3745-3752.	1.9	12
39	Discovery and quantification of bioactive peptides in fermented cucumber by direct analysis IR-MALDESI mass spectrometry and LC-QQQ-MS. Food Chemistry, 2019, 271, 715-723.	4.2	43
40	Heterogeneous antiretroviral drug distribution and HIV/SHIV detection in the gut of three species. Science Translational Medicine, 2019, 11, .	5.8	38
41	Quantitative proteomic analysis of tomato genotypes with differential cadmium tolerance. Environmental Science and Pollution Research, 2019, 26, 26039-26051.	2.7	17
42	Internal Energy Deposition in Infrared Matrix-Assisted Laser Desorption Electrospray Ionization With and Without the Use of Ice as a Matrix. Journal of the American Society for Mass Spectrometry, 2019, 30, 2380-2391.	1.2	27
43	Systematic evaluation of repeatability of IR-MALDESI-MS and normalization strategies for correcting the analytical variation and improving image quality. Analytical and Bioanalytical Chemistry, 2019, 411, 5729-5743.	1.9	18
44	Labelâ€Free Quantitative Proteomics of Enriched Nuclei from Sugarcane (Saccharum ssp) Stems in Response to Drought Stress. Proteomics, 2019, 19, e1900004.	1.3	21
45	Artemisinin Biosynthesis in Non-glandular Trichome Cells of Artemisia annua. Molecular Plant, 2019, 12, 704-714.	3.9	62
46	Mass spectrometry imaging (MSI) of fresh bones using infrared matrix-assisted laser desorption electrospray ionization (IR-MALDESI). Analytical Methods, 2019, 11, 5929-5938.	1.3	15
47	Discriminating normal regions within cancerous hen ovarian tissue using multivariate hyperspectral image analysis. Rapid Communications in Mass Spectrometry, 2019, 33, 381-391.	0.7	4
48	<scp>CAD</scp>1 and <scp>CCR</scp>2 protein complex formation in monolignol biosynthesis in Populus trichocarpa. New Phytologist, 2019, 222, 244-260.	3.5	43
49	A novel integrated strategy for the detection and quantification of the neurotoxin Î²-N-methylamino-l-alanine in environmental samples. Analytical and Bioanalytical Chemistry, 2018, 410, 2597-2605.	1.9	12
50	Improving wood properties for wood utilization through multi-omics integration in lignin biosynthesis. Nature Communications, 2018, 9, 1579.	5.8	162
51	Characterization of a novel miniaturized burst-mode infrared laser system for IR-MALDESI mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2018, 410, 2395-2402.	1.9	25
52	Characterization of the Spectral Accuracy of an Orbitrap Mass Analyzer Using Isotope Ratio Mass Spectrometry. Analytical Chemistry, 2018, 90, 1897-1906.	3.2	30
53	Demonstration of hydrazide tagging for O-glycans and a central composite design of experiments optimization using the INLIGHTâ„¢ reagent. Analytical and Bioanalytical Chemistry, 2018, 410, 1409-1415.	1.9	4
54	Quantitative mass spectrometry imaging of glutathione in healthy and cancerous hen ovarian tissue sections by infrared matrix-assisted laser desorption electrospray ionization (IR-MALDESI). Analyst, The, 2018, 143, 654-661.	1.7	36

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55	MSiReader v1.0: Evolving Open-Source Mass Spectrometry Imaging Software for Targeted and Untargeted Analyses. Journal of the American Society for Mass Spectrometry, 2018, 29, 8-16.	1.2	193
56	IR-MALDESI method optimization based on time-resolved measurement of ion yields. Analytical and Bioanalytical Chemistry, 2018, 410, 963-970.	1.9	12
57	Direct analysis of terpenes from biological buffer systems using SESI and IR-MALDESI. Analytical and Bioanalytical Chemistry, 2018, 410, 953-962.	1.9	8
58	IR-MALDESI mass spectrometry imaging of underivatized neurotransmitters in brain tissue of rats exposed to tetrabromobisphenol A. Analytical and Bioanalytical Chemistry, 2018, 410, 7979-7986.	1.9	19
59	Evaluation of Digital Image Recognition Methods for Mass Spectrometry Imaging Data Analysis. Journal of the American Society for Mass Spectrometry, 2018, 29, 2467-2470.	1.2	18
60	Xylose Migration During Tandem Mass Spectrometry of N-Linked Glycans. Journal of the American Society for Mass Spectrometry, 2017, 28, 729-732.	1.2	19
61	The PeptideAtlas of the Domestic Laying Hen. Journal of Proteome Research, 2017, 16, 1352-1363.	1.8	9
62	Recent advances in glycomics, glycoproteomics and allied topics. Analytical and Bioanalytical Chemistry, 2017, 409, 355-357.	1.9	22
63	Direct screening of enzyme activity using infrared matrixâ€assisted laser desorption electrospray ionization. Rapid Communications in Mass Spectrometry, 2017, 31, 1868-1874.	0.7	21
64	IR-MALDESI Mass Spectrometry Imaging at 50 Micron Spatial Resolution. Journal of the American Society for Mass Spectrometry, 2017, 28, 2099-2107.	1.2	28
65	Perfluorinated alcohol induced coacervates as extraction media for proteomic analysis. Journal of Chromatography A, 2017, 1523, 293-299.	1.8	12
66	DRILL: An Electrospray Ionization-Mass Spectrometry Interface for Improved Sensitivity via Inertial Droplet Sorting and Electrohydrodynamic Focusing in a Swirling Flow. Analytical Chemistry, 2017, 89, 8981-8987.	3.2	18
67	Direct Analysis of Triterpenes from High-Salt Fermented Cucumbers Using Infrared Matrix-Assisted Laser Desorption Electrospray Ionization (IR-MALDESI). Journal of the American Society for Mass Spectrometry, 2017, 28, 370-375.	1.2	26
68	N-linked glycosite profiling and use of Skyline as a platform for characterization and relative quantification of glycans in differentiating xylem of Populus trichocarpa. Analytical and Bioanalytical Chemistry, 2017, 409, 487-497.	1.9	23
69	Mass spectrometric detection of chlorophyll a and the tetrapyrrole secondary metabolite tolyporphin A in the filamentous cyanobacterium HT-58-2. Approaches to high-throughput screening of intact cyanobacteria. Journal of Porphyrins and Phthalocyanines, 2017, 21, 759-768.	0.4	9
70	Comparative proteomic analysis between nitrogen supplemented and starved conditions in Magnaporthe oryzae. Proteome Science, 2017, 15, 20.	0.7	18
71	Identification of Epigenetic Factor Proteins Expressed in Human Embryonic Stem Cell-Derived Trophoblasts and in Human Placental Trophoblasts. Journal of Proteome Research, 2016, 15, 2433-2444.	1.8	9
72	A cell wall-bound anionic peroxidase, PtrPO21, is involved in lignin polymerization in Populus trichocarpa. Tree Genetics and Genomes, 2016, 12, 1.	0.6	24

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73	Analysis of Antiretrovirals in Single Hair Strands for Evaluation of Drug Adherence with Infrared-Matrix-Assisted Laser Desorption Electrospray Ionization Mass Spectrometry Imaging. Analytical Chemistry, 2016, 88, 1336-1344.	3.2	40
74	Infrared matrix-assisted laser desorption electrospray ionization mass spectrometry imaging analysis of biospecimens. Analyst, The, 2016, 141, 5236-5245.	1.7	50
75	Enhanced Lipidome Coverage in Shotgun Analyses by using Gas-Phase Fractionation. Journal of the American Society for Mass Spectrometry, 2016, 27, 1735-1744.	1.2	17
76	Examining ubiquitinated peptide enrichment efficiency through anÂepitope labeled protein. Analytical Biochemistry, 2016, 512, 114-119.	1.1	0
77	Whole-body Mass Spectrometry Imaging by Infrared Matrix-assisted Laser Desorption Electrospray Ionization (IR-MALDESI). Journal of Visualized Experiments, 2016, , e53942.	0.2	13
78	A Quantitative Glycomics and Proteomics Combined Purification Strategy. Journal of Visualized Experiments, 2016, , .	0.2	11
79	What if you could only publish 50 papers your entire career?. Analytical and Bioanalytical Chemistry, 2016, 408, 663-664.	1.9	1
80	Composition of Rosenthal Fibers, the Protein Aggregate Hallmark of Alexander Disease. Journal of Proteome Research, 2016, 15, 2265-2282.	1.8	34
81	TransOmic analysis of forebrain sections in Sp2 conditional knockout embryonic mice using IR-MALDESI imaging of lipids and LC-MS/MS label-free proteomics. Analytical and Bioanalytical Chemistry, 2016, 408, 3453-3474.	1.9	14
82	Optimizing Mass Spectrometry Analyses: A Tailored Review on the Utility of Design of Experiments. Journal of the American Society for Mass Spectrometry, 2016, 27, 767-785.	1.2	56
83	MALDESI: Fundamentals, Direct Analysis, and MS Imaging. , 2016, , 169-182.		4
84	Wall modified photonic crystal fibre capillaries as porous layer open tubular columns for in-capillary micro-extraction and capillary chromatography. Analytica Chimica Acta, 2016, 905, 1-7.	2.6	23
85	Polarity switching mass spectrometry imaging of healthy and cancerous hen ovarian tissue sections by infrared matrix-assisted laser desorption electrospray ionization (IR-MALDESI). Analyst, The, 2016, 141, 595-605.	1.7	43
86	Influence of C-Trap Ion Accumulation Time on the Detectability of Analytes in IR-MALDESI MSI. Analytical Chemistry, 2015, 87, 10483-10490.	3.2	17
87	Machine learning reveals sexâ€specific 17Î²â€estradiolâ€responsive expression patterns in white perch (Morone americana) plasma proteins. Proteomics, 2015, 15, 2678-2690.	1.3	13
88	Mass Spectrometry Imaging Reveals Heterogeneous Efavirenz Distribution within Putative HIV Reservoirs. Antimicrobial Agents and Chemotherapy, 2015, 59, 2944-2948.	1.4	67
89	4-Coumaroyl and Caffeoyl Shikimic Acids Inhibit 4-Coumaric Acid:Coenzyme A Ligases and Modulate Metabolic Flux for 3-Hydroxylation in Monolignol Biosynthesis of Populus trichocarpa. Molecular Plant, 2015, 8, 176-187.	3.9	50
90	Analysis of trace fibers by IR-MALDESI imaging coupled with high resolving power MS. Analytical and Bioanalytical Chemistry, 2015, 407, 813-820.	1.9	20

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91	Cellular-level mass spectrometry imaging using infrared matrix-assisted laser desorption electrospray ionization (IR-MALDESI) by oversampling. Analytical and Bioanalytical Chemistry, 2015, 407, 2265-2271.	1.9	39
92	Quantitative mass spectrometry imaging of emtricitabine in cervical tissue model using infrared matrix-assisted laser desorption electrospray ionization. Analytical and Bioanalytical Chemistry, 2015, 407, 2073-2084.	1.9	66
93	Definitive Screening Design Optimization of Mass Spectrometry Parameters for Sensitive Comparison of Filter and Solid Phase Extraction Purified, INLIGHT Plasma N-Glycans. Analytical Chemistry, 2015, 87, 7305-7312.	3.2	35
94	In-depth LC-MS/MS analysis of the chicken ovarian cancer proteome reveals conserved and novel differentially regulated proteins in humans. Analytical and Bioanalytical Chemistry, 2015, 407, 6851-6863.	1.9	10
95	Phosphorylation is an on/off switch for 5-hydroxyconiferaldehyde O -methyltransferase activity in poplar monolignol biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8481-8486.	3.3	60
96	Michael Gross: 25 Years of Dedication and Leadership of JASMS (1990â€“2015). Journal of the American Society for Mass Spectrometry, 2015, 26, 1-4.	1.2	4
97	Influence of Desorption Conditions on Analyte Sensitivity and Internal Energy in Discrete Tissue or Whole Body Imaging by IR-MALDESI. Journal of the American Society for Mass Spectrometry, 2015, 26, 899-910.	1.2	22
98	Phosphoproteome Analysis Links Protein Phosphorylation to Cellular Remodeling and Metabolic Adaptation during Magnaporthe oryzae Appressorium Development. Journal of Proteome Research, 2015, 14, 2408-2424.	1.8	42
99	Activin/Nodal Signaling Switches the Terminal Fate of Human Embryonic Stem Cell-derived Trophoblasts. Journal of Biological Chemistry, 2015, 290, 8834-8848.	1.6	23
100	Global Proteomic Analysis of Functional Compartments in Immature Avian Follicles Using Laser Microdissection Coupled to LC-MS/MS. Journal of Proteome Research, 2015, 14, 3912-3923.	1.8	8
101	Elucidation of Xylem-Specific Transcription Factors and Absolute Quantification of Enzymes Regulating Cellulose Biosynthesis in Populus trichocarpa. Journal of Proteome Research, 2015, 14, 4158-4168.	1.8	14
102	Relative Quantification and Higher-Order Modeling of the Plasma Glycan Cancer Burden Ratio in Ovarian Cancer Case-Control Samples. Journal of Proteome Research, 2015, 14, 4394-4401.	1.8	18
103	Assessing drug and metabolite detection in liver tissue by UV-MALDI and IR-MALDESI mass spectrometry imaging coupled to FT-ICR MS. International Journal of Mass Spectrometry, 2015, 377, 448-455.	0.7	50
104	Mechanisms of Egg Yolk Formation and Implications on Early Life History of White Perch (Morone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.1	30
105	Focus on Advancing High Performance Mass Spectrometry, Honoring Dr. Richard D. Smith, Recipient of the 2013 Award for a Distinguished Contribution in Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 1997-1999.	1.2	0
106	C/EBPÎ± regulates CRL4^{Cdt2}-mediated degradation of p21 in response to UVB-induced DNA damage to control the G₁/S checkpoint. Cell Cycle, 2014, 13, 3602-3610.	1.3	19
107	Evaluating nonpolar surface area and liquid chromatography/mass spectrometry response: an application for site occupancy measurements for enzyme intermediates in polyketide biosynthesis. Rapid Communications in Mass Spectrometry, 2014, 28, 2511-2522.	0.7	4
108	Hierarchical Selfâ€Assembly of Supramolecular Hydrophobic Metallacycles into Ordered Nanostructures. Chemistry - an Asian Journal, 2014, 9, 2928-2936.	1.7	23

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109	Silver dopants for targeted and untargeted direct analysis of unsaturated lipids via infrared matrixâ€assisted laser desorption electrospray ionization (IRâ€MALDESI). Rapid Communications in Mass Spectrometry, 2014, 28, 2461-2470.	0.7	21
110	Reply to the Comment on: â€œUtilizing Artificial Neural Networks in MATLAB to Achieve Parts-Per-Billion Mass Measurement Accuracy with a Fourier Transform Ion Cyclotron Resonance Mass Spectrometerâ€• by D. Keith Williams Jr., Alexander L. Kovach, David C. Muddiman, and Kenneth W. Hanck. J. Am. Soc. Mass Spectrom. 20, 1303â€“1310 (2009). Journal of the American Society for Mass Spectrometry, 2014, 25, 697-697.	1.2	0
111	Are Presentations at ASMS Conferences Publications?. Journal of the American Society for Mass Spectrometry, 2014, 25, 301-302.	1.2	0
112	Accurate Identification of Deamidated Peptides in Global Proteomics Using a Quadrupole Orbitrap Mass Spectrometer. Journal of Proteome Research, 2014, 13, 777-785.	1.8	31
113	4-Coumaroyl and Caffeoyl Shikimic Acids Inhibit 4-Coumaric Acid: Coenzyme A Ligases and Modulate Metabolic Flux for 3-Hydroxylation in Monolignol Biosynthesis of Populus trichocarpa. Molecular Plant, 2014, , .	3.9	0
114	Establishing ion ratio thresholds based on absolute peak area for absolute protein quantification using protein cleavage isotope dilution mass spectrometry. Analyst, The, 2014, 139, 5439-5450.	1.7	9
115	Systems Biology of Lignin Biosynthesis in Populus trichocarpa: Heteromeric 4-Coumaric Acid:Coenzyme A Ligase Protein Complex Formation, Regulation, and Numerical Modeling. Plant Cell, 2014, 26, 876-893.	3.1	75
116	Mass Spectrometry Imaging of Hair Strands Allows for Evaluation of Long Term Antiretroviral Adherence. AIDS Research and Human Retroviruses, 2014, 30, A69-A69.	0.5	2
117	Compartment Proteomics Analysis of White Perch (Morone americana) Ovary Using Support Vector Machines. Journal of Proteome Research, 2014, 13, 1515-1526.	1.8	20
118	Complete Proteomic-Based Enzyme Reaction and Inhibition Kinetics Reveal How Monolignol Biosynthetic Enzyme Families Affect Metabolic Flux and Lignin in Populus trichocarpa. Plant Cell, 2014, 26, 894-914.	3.1	136
119	IR-MALDESI Mass Spectrometry Imaging of Biological Tissue Sections Using Ice as a Matrix. Journal of the American Society for Mass Spectrometry, 2014, 25, 319-328.	1.2	119
120	Mapping Antiretroviral Drugs in Tissue by IR-MALDESI MSI Coupled to the Q Exactive and Comparison with LC-MS/MS SRM Assay. Journal of the American Society for Mass Spectrometry, 2014, 25, 2038-2047.	1.2	44
121	Individuality Normalization when Labeling with Isotopic Glycan Hydrazide Tags (INLIGHT): A Novel Glycan-Relative Quantification Strategy. Journal of the American Society for Mass Spectrometry, 2013, 24, 1376-1384.	1.2	44
122	Mass Recalibration of FT-ICR Mass Spectrometry Imaging Data Using the Average Frequency Shift of Ambient Ions. Journal of the American Society for Mass Spectrometry, 2013, 24, 1137-1145.	1.2	21
123	MSiReader: An Open-Source Interface to View and Analyze High Resolving Power MS Imaging Files on Matlab Platform. Journal of the American Society for Mass Spectrometry, 2013, 24, 718-721.	1.2	339
124	Regulation of phenylalanine ammonia-lyase (PAL) gene family in wood forming tissue of Populus trichocarpa. Planta, 2013, 238, 487-497.	1.6	53
125	Multi-peptide nLC-PC-IDMS-SRM-based Assay for the quantification of biomarkers in the chicken ovarian cancer model. Methods, 2013, 61, 323-330.	1.9	13
126	Infrared Matrix-Assisted Laser Desorption Electrospray Ionization (IR-MALDESI) Imaging Source Coupled to a FT-ICR Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2013, 24, 92-100.	1.2	106

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127	Direct Analysis of Textile Fabrics and Dyes Using Infrared Matrix-Assisted Laser Desorption Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2013, 85, 831-836.	3.2	46
128	Comparative Proteomic Analysis and IgE Binding Properties of Peanut Seed and Testa (Skin). Journal of Agricultural and Food Chemistry, 2013, 61, 3957-3968.	2.4	23
129	Factorial Experimental Designs Elucidate Significant Variables Affecting Data Acquisition on a Quadrupole Orbitrap Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2013, 24, 1501-1512.	1.2	27
130	Poly Specific trans-Acyltransferase Machinery Revealed via Engineered Acyl-CoA Synthetases. ACS Chemical Biology, 2013, 8, 200-208.	1.6	60
131	Understanding the Role of Proteolytic Digestion on Discovery and Targeted Proteomic Measurements Using Liquid Chromatography Tandem Mass Spectrometry and Design of Experiments. Journal of Proteome Research, 2013, 12, 5820-5829.	1.8	44
132	Monolignol Pathway 4-Coumaric Acid:Coenzyme A Ligases in Populus. trichocarpa: Novel Specificity, Metabolic Regulation, and Simulation of Coenzyme A Ligation Fluxes Â. Plant Physiology, 2013, 161, 1501-1516.	2.3	54
133	Temporal Analysis of the Magnaporthe Oryzae Proteome During Conidial Germination and Cyclic AMP (cAMP)-mediated Appressorium Formation. Molecular and Cellular Proteomics, 2013, 12, 2249-2265.	2.5	39
134	The use of a xylosylated plant glycoprotein as an internal standard accounting for Nâ€linked glycan cleavage and sample preparation variability. Rapid Communications in Mass Spectrometry, 2013, 27, 1354-1358.	0.7	6
135	Targeted Proteomics of the Secretory Pathway Reveals the Secretome of Mouse Embryonic Fibroblasts and Human Embryonic Stem Cells. Molecular and Cellular Proteomics, 2012, 11, 1829-1839.	2.5	31
136	Peptide Production and Decay Rates Affect the Quantitative Accuracy of Protein Cleavage Isotope Dilution Mass Spectrometry (PC-IDMS). Molecular and Cellular Proteomics, 2012, 11, 814-823.	2.5	69
137	Functional redundancy of the two 5-hydroxylases in monolignol biosynthesis of Populus trichocarpa: LCâ€“MS/MS based protein quantification and metabolic flux analysis. Planta, 2012, 236, 795-808.	1.6	19
138	Systematic Comparison of Reverse Phase and Hydrophilic Interaction Liquid Chromatography Platforms for the Analysis of N-Linked Glycans. Analytical Chemistry, 2012, 84, 8198-8206.	3.2	23
139	Evidence for Complex Molecular Architectures for Solvent-Extracted Lignins. ACS Macro Letters, 2012, 1, 568-573.	2.3	33
140	Coordination-Driven Self-Assembly of Charged and Neutral Dendritic Tetrakis(ferrocenyl) Rhomboids. Organometallics, 2012, 31, 7241-7247.	1.1	36
141	Analytical strategies for the global quantification of intact proteins. Amino Acids, 2012, 43, 1109-1117.	1.2	28
142	Comprehensive Quantification of Monolignol-Pathway Enzymes in Populus trichocarpa by Protein Cleavage Isotope Dilution Mass Spectrometry. Journal of Proteome Research, 2012, 11, 3390-3404.	1.8	42
143	In-Depth Analysis of the Magnaporthe oryzae Conidial Proteome. Journal of Proteome Research, 2012, 11, 5827-5835.	1.8	30
144	The subcellular proteome of undifferentiated human embryonic stem cells. Proteomics, 2012, 12, 421-430.	1.3	16

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145	High-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 403, 1201-1202.	1.9	4
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