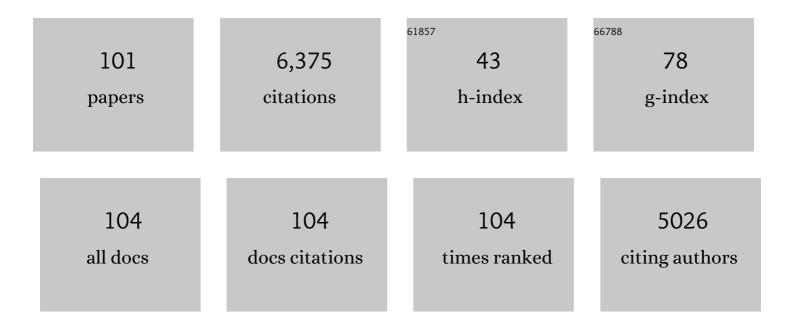
List of Publications by Year in descending order

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MADE P FMMETT

#	Article	IF	CITATIONS
1	Micro-electrospray mass spectrometry: Ultra-high-sensitivity analysis of peptides and proteins. Journal of the American Society for Mass Spectrometry, 1994, 5, 605-613.	1.2	481
2	External accumulation of ions for enhanced electrospray ionization fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 1997, 8, 970-976.	1.2	442
3	Electron Capture Dissociation and Infrared Multiphoton Dissociation MS/MS of an N-Glycosylated Tryptic Peptide To Yield Complementary Sequence Information. Analytical Chemistry, 2001, 73, 4530-4536.	3.2	362
4	KIT kinase mutants show unique mechanisms of drug resistance to imatinib and sunitinib in gastrointestinal stromal tumor patients. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1542-1547.	3.3	345
5	Reading Chemical Fine Print:  Resolution and Identification of 3000 Nitrogen-Containing Aromatic Compounds from a Single Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrum of Heavy Petroleum Crude Oil. Energy & Fuels, 2001, 15, 492-498.	2.5	310
6	Identification of Novel Interactions in HIV-1 Capsid Protein Assembly by High-resolution Mass Spectrometry. Journal of Molecular Biology, 2003, 325, 759-772.	2.0	198
7	Application of micro-electrospray liquid chromatography techniques to FT-ICR MS to enable high-sensitivity biological analysis. Journal of the American Society for Mass Spectrometry, 1998, 9, 333-340.	1.2	187
8	Key interactions in HIV-1 maturation identified by hydrogen-deuterium exchange. Nature Structural and Molecular Biology, 2004, 11, 676-677.	3.6	164
9	Inhibition of Nitric Oxide Synthase Blocks N-Methyl-D-Aspartate-, Quisqualate-, Kainate-, Harmaline-, and Pentylenetetrazole-Dependent Increases in Cerebellar Cyclic GMP In Vivo. Journal of Neurochemistry, 1990, 55, 346-348.	2.1	153
10	Micro-Electrospray: Zeptomole/attomole per microliter sensitivity for peptides. Journal of the American Society for Mass Spectrometry, 1994, 5, 867-869.	1.2	130
11	Gas-phase bovine ubiquitin cation conformations resolved by gas-phase hydrogen/deuterium exchange rate and extent. International Journal of Mass Spectrometry, 1999, 185-187, 565-575.	0.7	126
12	Determination of Aberrant O-Glycosylation in the IgA1 Hinge Region by Electron Capture Dissociation Fourier Transform-Ion Cyclotron Resonance Mass Spectrometry. Journal of Biological Chemistry, 2005, 280, 19136-19145.	1.6	125
13	Determination of post-translational modifications of proteins by high-sensitivity, high-resolution Fourier transform ion cyclotron resonance mass spectrometry. Journal of Chromatography A, 2003, 1013, 203-213.	1.8	120
14	Identification of Intact Proteins in Mixtures by Alternated Capillary Liquid Chromatography Electrospray Ionization and LC ESI Infrared Multiphoton Dissociation Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 1999, 71, 4397-4402.	3.2	115
15	Epitope Mapping of a 95 kDa Antigen in Complex with Antibody by Solution-Phase Amide Backbone Hydrogen/Deuterium Exchange Monitored by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2011, 83, 7129-7136.	3.2	112
16	In Vivo Modulation of the N-Methyl-D-Aspartate Receptor Complex by D-Serine: Potentiation of Ongoing Neuronal Activity as Evidenced by Increased Cerebellar Cyclic GMP. Journal of Neurochemistry, 1989, 53, 979-981.	2.1	98
17	Molecular characterization of petroporphyrins in crude oil by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. Canadian Journal of Chemistry, 2001, 79, 546-551.	0.6	95
18	ELECTROSPRAY IONIZATION FOURIER TRANSFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY. Annual Review of Physical Chemistry, 1999, 50, 517-536.	4.8	93

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19	Involvement of granule, basket and stellate neurons but not purkinje or Golgi cells in cerebellar cGMP increases in vivo. Life Sciences, 1994, 54, 615-620.	2.0	91
20	Specific molecular mass detection of endogenously released neuropeptides using in vivo microdialysis/mass spectrometry. Journal of Neuroscience Methods, 1995, 62, 141-147.	1.3	90
21	Analysis of O-glycan heterogeneity in IgA1 myeloma proteins by Fourier transform ion cyclotron resonance mass spectrometry: implications for IgA nephropathy. Analytical and Bioanalytical Chemistry, 2007, 389, 1397-1407.	1.9	85
22	Enhanced Digestion Efficiency, Peptide Ionization Efficiency, and Sequence Resolution for Protein Hydrogen/Deuterium Exchange Monitored by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2008, 80, 9034-9041.	3.2	84
23	Protein kinase A phosphorylation characterized by tandem Fourier transform ion cyclotron resonance mass spectrometry. Proteomics, 2004, 4, 970-981.	1.3	79
24	Theoretical and Experimental Prospects for Protein Identification Based Solely on Accurate Mass Measurement. Journal of Proteome Research, 2004, 3, 61-67.	1.8	76
25	High-Sensitivity Electron Capture Dissociation Tandem FTICR Mass Spectrometry of Microelectrosprayed Peptides. Analytical Chemistry, 2001, 73, 3605-3610.	3.2	73
26	Conformational and Dynamic Changes of Yersinia Protein Tyrosine Phosphatase Induced by Ligand Binding and Active Site Mutation and Revealed by H/D Exchange and Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Biochemistry, 1998, 37, 15289-15299.	1.2	72
27	New Reagents for Enhanced Liquid Chromatographic Separation and Charging of Intact Protein Ions for Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2010, 82, 7515-7519.	3.2	68
28	Fast reversed-phase liquid chromatography to reduce back exchange and increase throughput in H/D exchange monitored by FT-ICR mass spectrometry. Journal of the American Society for Mass Spectrometry, 2009, 20, 520-524.	1.2	67
29	High Sensitivity Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Biological Analysis with Nano-LC and Microelectrospray Ionization. Analytical Chemistry, 2001, 73, 1721-1725.	3.2	66
30	Identification and analysis of phosphopeptides. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 803, 111-120.	1.2	65
31	Method for Lipidomic Analysis:  p53 Expression Modulation of Sulfatide, Canglioside, and Phospholipid Composition of U87 MG Glioblastoma Cells. Analytical Chemistry, 2007, 79, 8423-8430.	3.2	65
32	Ion Activation in Electron Capture Dissociation To Distinguish between N-Terminal and C-Terminal Product Ions. Analytical Chemistry, 2007, 79, 7596-7602.	3.2	64
33	Overexpression of ST6GalNAcV, a ganglioside-specific α2,6-sialyltransferase, inhibits glioma growth in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12646-12651.	3.3	60
34	High-field fourier transform ion cyclotron resonance mass spectrometry for simultaneous trapping and gas-phase hydrogen/deuterium exchange of peptide ions. Journal of the American Society for Mass Spectrometry, 1998, 9, 1012-1019.	1.2	57
35	Functional visualization of viral molecular motor by hydrogen-deuterium exchange reveals transient states. Nature Structural and Molecular Biology, 2005, 12, 460-466.	3.6	57
36	Automated data reduction for hydrogen/deuterium exchange experiments, enabled by high-resolution fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2010, 21, 550-558.	1.2	57

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37	Quantitative Proteomics Reveals Protein–Protein Interactions with Fibroblast Growth Factor 12 as a Component of the Voltage-Gated Sodium Channel 1.2 (Nav1.2) Macromolecular Complex in Mammalian Brain*. Molecular and Cellular Proteomics, 2015, 14, 1288-1300.	2.5	52
38	Role of miR-2392 in driving SARS-CoV-2 infection. Cell Reports, 2021, 37, 109839.	2.9	52
39	Simultaneous Reduction and Digestion of Proteins with Disulfide Bonds for Hydrogen/Deuterium Exchange Monitored by Mass Spectrometry. Analytical Chemistry, 2010, 82, 1450-1454.	3.2	51
40	Proteomic Investigation of Glioblastoma Cell Lines Treated with Wild-Type p53 and Cytotoxic Chemotherapy Demonstrates an Association between Galectin-1 and p53 Expression. Journal of Proteome Research, 2007, 6, 869-875.	1.8	48
41	Mapping of protein:protein contact surfaces by hydrogen/deuterium exchange, followed by on-line high-performance liquid chromatography–electrospray ionization fourier-transform ion-cyclotron-resonance mass analysis. Journal of Chromatography A, 2002, 982, 85-95.	1.8	46
42	De Novo Sequencing and Disulfide Mapping of a Bromotryptophan-Containing Conotoxin by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2006, 78, 8082-8088.	3.2	46
43	Detection, Number, and Sequence Location of Sulfur-Containing Amino Acids and Disulfide Bridges in Peptides by Ultrahigh-Resolution MALDI FTICR Mass Spectrometry. Analytical Chemistry, 1997, 69, 1163-1168.	3.2	45
44	Liquid Chromatographyâ^'Fourier Transform Ion Cyclotron Resonance Mass Spectrometric Characterization of Protein Kinase C Phosphorylation. Journal of Proteome Research, 2003, 2, 373-382.	1.8	44
45	Periodic sequence distribution of product ion abundances in electron capture dissociation of amphipathic peptides and proteins. Journal of the American Society for Mass Spectrometry, 2009, 20, 1182-1192.	1.2	44
46	ESI–MS/MS and MALDI-IMS Localization Reveal Alterations in Phosphatidic Acid, Diacylglycerol, and DHA in Glioma Stem Cell Xenografts. Journal of Proteome Research, 2015, 14, 2511-2519.	1.8	43
47	Computing H/D-Exchange rates of single residues from data of proteolytic fragments. BMC Bioinformatics, 2010, 11, 424.	1.2	41
48	Mapping of the Allosteric Network in the Regulation of α-Isopropylmalate Synthase from <i>Mycobacterium tuberculosis</i> by the Feedback Inhibitor <scp>I</scp> -Leucine: Solution-Phase H/D Exchange Monitored by FT-ICR Mass Spectrometry. Biochemistry, 2009, 48, 7457-7464.	1.2	40
49	Supercritical Fluid Chromatography Reduction of Hydrogen/Deuterium Back Exchange in Solution-Phase Hydrogen/Deuterium Exchange with Mass Spectrometric Analysis. Analytical Chemistry, 2006, 78, 7058-7060.	3.2	38
50	Structural characterization of an unusually stable cyclic peptide, kalata B2 from Oldenlandia affinis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1568-1576.	1.1	36
51	Structural Analysis of 2D-Gel-Separated Glycoproteins from Human Cerebrospinal Fluid by Tandem High-Resolution Mass Spectrometry. Journal of Proteome Research, 2003, 2, 581-588.	1.8	34
52	Glycomic and Transcriptomic Response of GSC11 Glioblastoma Stem Cells to STAT3 Phosphorylation Inhibition and Serum-Induced Differentiation. Journal of Proteome Research, 2010, 9, 2098-2108.	1.8	34
53	Effects of sigma ligands on mouse cerebellar cyclic guanosine monophosphate (cGMP) levels in vivo: further evidence for a functional modulation ofN-methyl-d-aspartate (NMDA) receptor complex-mediated events by sigma ligands. Brain Research, 1991, 561, 43-50.	1.1	33
54	Neurochemical Interactions of Competitive N-Methyl-D-Aspartate Antagonists with Dopaminergic Neurotransmission and the Cerebellar Cyclic GMP System: Functional Evidence for a Phasic Glutamatergic Control of the Nigrostriatal Dopaminergic Pathway. Journal of Neurochemistry, 1991, 56, 907-913.	2.1	32

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55	Fourier transform ion cyclotron resonance mass spectrometric detection of small Ca2+-induced conformational changes in the regulatory domain of human cardiac troponin C. Journal of the American Society for Mass Spectrometry, 1999, 10, 703-710.	1.2	32
56	Charge location directs electron capture dissociation of peptide dications. Journal of the American Society for Mass Spectrometry, 2006, 17, 1704-1711.	1.2	32
57	Interaction of packaging motor with the polymerase complex of dsRNA bacteriophage. Virology, 2006, 351, 73-79.	1.1	31
58	Blood-brain barrier penetration of 3-aminopropyl-n-butylphosphinic acid (CGP 36742) in rat brain by microdialysis/mass spectrometry. , 1998, 33, 281-287.		28
59	Gas-phase cleavage of PTC-derivatized electrosprayed tryptic peptides in an FT-ICR trapped-ion cell: Mass-based protein identification without liquid chromatographic separation. Journal of the American Society for Mass Spectrometry, 2001, 12, 288-295.	1.2	28
60	Dephosphorylation of Major Sperm Protein (MSP) Fiber Protein 3 by Protein Phosphatase 2A during Cell Body Retraction in the MSP-based Amoeboid Motility of Ascaris Sperm. Molecular Biology of the Cell, 2009, 20, 3200-3208.	0.9	28
61	Liquid Chromatography Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometric Characterization of <i>N</i> -Linked Glycans and Glycopeptides. Analytical Chemistry, 2010, 82, 6542-6548.	3.2	28
62	Conformational States of Human Purine Nucleoside Phosphorylase at Rest, at Work, and with Transition State Analogues. Biochemistry, 2010, 49, 2058-2067.	1.2	28
63	Glycoproteomics of cerebrospinal fluid in neurodegenerative disease. International Journal of Mass Spectrometry, 2004, 234, 145-152.	0.7	27
64	Efficacy of Bacterial Bioremediation:Â Demonstration of Complete Incorporation of Hydrocarbons into Membrane Phospholipids fromRhodococcusHydrocarbon Degrading Bacteria by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Environmental Science & Technology, 2000, 34, 535-540.	4.6	26
65	Characterization of the Capsid Protein Glycosylation of Adeno-Associated Virus Type 2 by High-Resolution Mass Spectrometry. Journal of Virology, 2006, 80, 6171-6176.	1.5	26
66	Drug binding and resistance mechanism of KIT tyrosine kinase revealed by hydrogen/deuterium exchange FTICR mass spectrometry. Protein Science, 2010, 19, 703-715.	3.1	26
67	Determining and interpreting correlations in lipidomic networks found in glioblastoma cells. BMC Systems Biology, 2010, 4, 126.	3.0	25
68	Polar Aprotic Modifiers for Chromatographic Separation and Back-Exchange Reduction for Protein Hydrogen/Deuterium Exchange Monitored by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2012, 23, 699-707.	1.2	23
69	The polyamines, spermine and spermidine, negatively modulate N-methyl-d-aspartate (NMDA) and quisqualate receptor mediated responses in vivo: Cerebellar cyclic GMP measurements. Neurochemistry International, 1990, 16, 199-206.	1.9	22
70	Advantages of Isotopic Depletion of Proteins for Hydrogen/Deuterium Exchange Experiments Monitored by Mass Spectrometry. Analytical Chemistry, 2010, 82, 3293-3299.	3.2	20
71	d-Glucose and d-mannose-based metabolic probes. Part 3: Synthesis of specifically deuterated d-glucose, d-mannose, and 2-deoxy-d-glucose. Carbohydrate Research, 2013, 368, 111-119.	1.1	19
72	An antibiotic linked to peptides and proteins is released by electron capture dissociation fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2003, 14, 302-310.	1.2	18

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73	Identifying bryostatins and potential precursors from the bryozoan Bugula neritina. Natural Product Research, 2005, 19, 467-491.	1.0	17
74	Integrative Biological Analysis For Neuropsychopharmacology. Neuropsychopharmacology, 2014, 39, 5-23.	2.8	17
75	Use of ENCODE Resources to Characterize Novel Proteoforms and Missing Proteins in the Human Proteome. Journal of Proteome Research, 2015, 14, 603-608.	1.8	17
76	Computing H/D-exchange speeds of single residues from data of peptic fragments. , 2008, , .		14
77	Measurement of 2-hydroxyglutarate enantiomers in serum by chiral gas chromatography-tandem mass spectrometry and its application as a biomarker for IDH mutant gliomas. Clinical Mass Spectrometry, 2020, 15, 16-24.	1.9	14
78	Polar lipid remodeling and increased sulfatide expression are associated with the glioma therapeutic candidates, wild type p53 elevation and the topoisomerase-1 inhibitor, Irinotecan. Glycoconjugate Journal, 2010, 27, 27-38.	1.4	13
79	Characterization of the Phosphoproteome in Androgen-Repressed Human Prostate Cancer Cells by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of Proteome Research, 2011, 10, 3920-3928.	1.8	12
80	High mass accuracy and resolution facilitate identification of glycosphingolipids and phospholipids. International Journal of Mass Spectrometry, 2011, 305, 116-119.	0.7	12
81	Effects of Low Dose Space Radiation Exposures on the Splenic Metabolome. International Journal of Molecular Sciences, 2021, 22, 3070.	1.8	12
82	Chemical cross-linking of the urease complex from Helicobacter pylori and analysis by Fourier transform ion cyclotron resonance mass spectrometry and molecular modeling. International Journal of Mass Spectrometry, 2004, 234, 137-144.	0.7	10
83	Global stability analysis and robust design of multi-time-scale biological networks under parametric uncertainties. Neural Networks, 2009, 22, 658-663.	3.3	9
84	Sequential Proteolysis and High-Field FTICR MS To Determine Disulfide Connectivity and 4-Maleimide TEMPO Spin-Label Location in L126C GM2 Activator Protein. Analytical Chemistry, 2009, 81, 7611-7617.	3.2	9
85	Efficient identification of multiple pathways: RNA-Seq analysis of livers from 56Fe ion irradiated mice. BMC Bioinformatics, 2020, 21, 118.	1.2	9
86	Complexation and calcium-induced conformational changes in the cardiac troponin complex monitored by hydrogen/deuterium exchange and FT-ICR mass spectrometry. International Journal of Mass Spectrometry, 2011, 302, 116-124.	0.7	7
87	Measurement of Postreplicative DNA Metabolism and Damage in the Rodent Brain. Chemical Research in Toxicology, 2015, 28, 2352-2363.	1.7	7
88	Associations between lipids in selected brain regions, plasma miRNA, and behavioral and cognitive measures following 28Si ion irradiation. Scientific Reports, 2021, 11, 14899.	1.6	7
89	Comparative RNA-Seq transcriptome analyses reveal dynamic time-dependent effects of 56Fe, 16O, and 28Si irradiation on the induction of murine hepatocellular carcinoma. BMC Genomics, 2020, 21, 453.	1.2	5
90	Mitochondrial Effects in the Liver of C57BL/6 Mice by Low Dose, High Energy, High Charge Irradiation. International Journal of Molecular Sciences, 2021, 22, 11806.	1.8	5

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91	Expression, purification, and characterization of avian Thy-1 from Lec1 mammalian and Tn5 insect cells. Protein Expression and Purification, 2004, 33, 274-287.	0.6	4
92	Sites and extent of selenomethionine incorporation into recombinant Cas6 protein by top-down and bottom-up proteomics with 14.5 T Fourier transform ion cyclotron resonance mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 2386-2392.	0.7	4
93	Post-translational Modifications in the Human Proteome. Translational Bioinformatics, 2014, , 101-136.	0.0	2
94	Differentiation of 2â€hydroxyglutarate enantiomers and its lactones by gas chromatography/electron ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2019, 33, 1401-1409.	0.7	2
95	Isotopic Amplification, H/D Exchange, and Other Mass Spectrometric Strategies for Characterization of Biomacromolecular Topology and Binding Sites. , 2000, , 31-52.		2
96	Graph clustering techniques applied to the glycomic response in glioblastoma cells to treatments with STAT3 phosphorylation inhibition and fetal bovine serum. Proceedings of SPIE, 2011, , .	0.8	1
97	Ultrahigh-Resolution Lipid Analysis with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Neuromethods, 2017, , 21-43.	0.2	1
98	<sup>137</sup> Cs γ Ray and <sup>28</sup> Si Irradiation Induced Murine Hepatocellular Carcinoma Lipid Changes in Liver Assessed by MALDI-MSI Combined with Spatial Shrunken Centroid Clustering Algorithm: A Pilot Study. ACS Omega, 2020, 5, 25164-25174.	1.6	1
99	Novel insights into the lipidome of glioblastoma cells based on a combined PLSR and DD-HDS computational analysis. , 2009, , .		0
100	Computational techniques to the topology and dynamics of lipidomic networks found in glioblastoma cells. , 2010, , .		0
101	Visual analysis and dynamical control of phosphoproteomic networks. Proceedings of SPIE, 2013, , .	0.8	0