

Fong-Fu Hsu

List of Publications by Year in descending order

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194
papers

16,180
citations

10389

72
h-index

17592

121
g-index

205
all docs

205
docs citations

205
times ranked

17831
citing authors

#	ARTICLE	IF	CITATIONS
1	Jasmonate perception by inositol-phosphate-potentiated COI1-JAZ co-receptor. <i>Nature</i> , 2010, 468, 400-405.	27.8	1,192
2	A novel mouse model of lipotoxic cardiomyopathy. <i>Journal of Clinical Investigation</i> , 2001, 107, 813-822.	8.2	666
3	Memory CD8+ T Cells Use Cell-Intrinsic Lipolysis to Support the Metabolic Programming Necessary for Development. <i>Immunity</i> , 2014, 41, 75-88.	14.3	650
4	Caseation of human tuberculosis granulomas correlates with elevated host lipid metabolism. <i>EMBO Molecular Medicine</i> , 2010, 2, 258-274.	6.9	417
5	Human neutrophils employ the myeloperoxidase-hydrogen peroxide-chloride system to convert hydroxy-amino acids into glycolaldehyde, 2-hydroxypropanal, and acrolein. A mechanism for the generation of highly reactive alpha-hydroxy and alpha,beta-unsaturated aldehydes by phagocytes at sites of inflammation.. <i>Journal of Clinical Investigation</i> , 1997, 99, 424-432.	8.2	349
6	Mass Spectrometric Quantification of Markers for Protein Oxidation by Tyrosyl Radical, Copper, and Hydroxyl Radical in Low Density Lipoprotein Isolated from Human Atherosclerotic Plaques. <i>Journal of Biological Chemistry</i> , 1997, 272, 3520-3526.	3.4	329
7	Matrix Metalloproteinase-9 Degrades Amyloid-Î² Fibrils in Vitro and Compact Plaques in Situ. <i>Journal of Biological Chemistry</i> , 2006, 281, 24566-24574.	3.4	315
8	Matrix Metalloproteinases Expressed by Astrocytes Mediate Extracellular Amyloid-beta Peptide Catabolism. <i>Journal of Neuroscience</i> , 2006, 26, 10939-10948.	3.6	314
9	Electrospray ionization/tandem quadrupole mass spectrometric studies on phosphatidylcholines: The fragmentation processes. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 352-363.	2.8	305
10	Electrospray ionization with low-energy collisionally activated dissociation tandem mass spectrometry of glycerophospholipids: Mechanisms of fragmentation and structural characterization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2673-2695.	2.3	299
11	The PmrA-Regulated pmrC Gene Mediates Phosphoethanolamine Modification of Lipid A and Polymyxin Resistance in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , 2004, 186, 4124-4133.	2.2	286
12	Invariant natural killer T cells recognize lipid self antigen induced by microbial danger signals. <i>Nature Immunology</i> , 2011, 12, 1202-1211.	14.5	275
13	Characterization of phosphatidylinositol, phosphatidylinositol-4-phosphate, and phosphatidylinositol-4,5-bisphosphate by electrospray ionization tandem mass spectrometry: A mechanistic study. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 986-999.	2.8	263
14	Structural characterization of triacylglycerols as lithiated adducts by electrospray ionization mass spectrometry using low-energy collisionally activated dissociation on a triple stage quadrupole instrument. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 587-599.	2.8	246
15	Human neutrophils employ chlorine gas as an oxidant during phagocytosis.. <i>Journal of Clinical Investigation</i> , 1996, 98, 1283-1289.	8.2	244
16	Innate and cytokine-driven signals, rather than microbial antigens, dominate in natural killer T cell activation during microbial infection. <i>Journal of Experimental Medicine</i> , 2011, 208, 1163-1177.	8.5	239
17	Formation of lithiated adducts of glycerophosphocholine lipids facilitates their identification by electrospray ionization tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 516-526.	2.8	210
18	Inhibiting Adipose Tissue Lipogenesis Reprograms Thermogenesis and PPARÎ³ Activation to Decrease Diet-Induced Obesity. <i>Cell Metabolism</i> , 2012, 16, 189-201.	16.2	205

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19	Molecular Chlorine Generated by the Myeloperoxidase-Hydrogen Peroxide-Chloride System of Phagocytes Converts Low Density Lipoprotein Cholesterol into a Family of Chlorinated Sterols. <i>Journal of Biological Chemistry</i> , 1996, 271, 23080-23088.	3.4	201
20	Charge-remote and charge-driven fragmentation processes in diacyl glycerophosphoethanolamine upon low-energy collisional activation: A mechanistic proposal. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 892-899.	2.8	189
21	Identification of $\hat{\pm}$ -Chloro Fatty Aldehydes and Unsaturated Lysophosphatidylcholine Molecular Species in Human Atherosclerotic Lesions. <i>Circulation</i> , 2003, 108, 3128-3133.	1.6	185
22	<i>ap</i> ABC: a <i>Mycobacterium tuberculosis</i> complex-specific locus that modulates pH-driven adaptation to the macrophage phagosome. <i>Molecular Microbiology</i> , 2011, 80, 678-694.	2.5	176
23	Sulfated Steroids as Natural Ligands of Mouse Pheromone-Sensing Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 6407-6418.	3.6	174
24	Human Neutrophils Employ the Myeloperoxidase-Hydrogen Peroxide-Chloride System to Oxidize $\hat{\pm}$ -Amino Acids to a Family of Reactive Aldehydes. <i>Journal of Biological Chemistry</i> , 1998, 273, 4997-5005.	3.4	167
25	Structural determination of sphingomyelin by tandem mass spectrometry with electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 437-449.	2.8	155
26	Studies on phosphatidylglycerol with triple quadrupole tandem mass spectrometry with electrospray ionization: Fragmentation processes and structural characterization. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 1036-1043.	2.8	154
27	<i>Mycobacterium tuberculosis</i> is protected from NADPH oxidase and LC3-associated phagocytosis by the LCP protein CpsA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8711-E8720.	7.1	138
28	Structural determination of glycosphingolipids as lithiated adducts by electrospray ionization mass spectrometry using low-energy collisional-activated dissociation on a triple stage quadrupole instrument. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 61-79.	2.8	135
29	PhoP-regulated <i>Salmonella</i> resistance to the antimicrobial peptides magainin 2 and polymyxin B. <i>Molecular Microbiology</i> , 2004, 53, 229-241.	2.5	135
30	Studies on phosphatidylserine by tandem quadrupole and multiple stage quadrupole ion-trap mass spectrometry with electrospray ionization: Structural characterization and the fragmentation processes. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1510-1522.	2.8	133
31	Ionic-liquid matrices for improved analysis of phospholipids by MALDI-TOF mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 679-682.	2.8	132
32	Recognition of microbial and mammalian phospholipid antigens by NKT cells with diverse TCRs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1827-1832.	7.1	129
33	Human Phagocytes Employ the Myeloperoxidase-Hydrogen Peroxide System to Synthesize Dityrosine, Trityrosine, Pulcherosine, and Isodityrosine by a Tyrosyl Radical-dependent Pathway. <i>Journal of Biological Chemistry</i> , 1996, 271, 19950-19956.	3.4	126
34	Charge-driven fragmentation processes in diacyl glycerophosphatidic acids upon low-energy collisional activation. A mechanistic proposal. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 797-803.	2.8	124
35	<i>Mycobacterium abscessus</i> Glycopeptidolipids Mask Underlying Cell Wall Phosphatidyl-myo-Inositol Mannosides Blocking Induction of Human Macrophage TNF- $\hat{\pm}$ by Preventing Interaction with TLR2. <i>Journal of Immunology</i> , 2009, 183, 1997-2007.	0.8	121
36	Characterization of ceramides by low energy collisional-activated dissociation tandem mass spectrometry with negative-ion electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 558-570.	2.8	120

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37	Structural characterization of cardiolipin by tandem quadrupole and multiple-stage quadrupole ion-trap mass spectrometry with electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 491-504.	2.8	119
38	Ma-huang strikes again: Ephedrine nephrolithiasis. <i>American Journal of Kidney Diseases</i> , 1998, 32, 153-159.	1.9	117
39	Electrospray ionization multiple-stage linear ion-trap mass spectrometry for structural elucidation of triacylglycerols: Assignment of fatty acyl groups on the glycerol backbone and location of double bonds. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 657-669.	2.8	117
40	Progressive Lung Disease and Surfactant Dysfunction with a Deletion in Surfactant Protein C Gene. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2004, 30, 771-776.	2.9	114
41	Characterization of alkylacyl, alk-1-enylacyl and lyso subclasses of glycerophosphocholine by tandem quadrupole mass spectrometry with electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2003, 38, 752-763.	1.6	113
42	Electrospray ionization tandem mass spectrometric analysis of sulfatide.. <i>Lipids and Lipid Metabolism</i> , 1998, 1392, 202-216.	2.6	108
43	Redirection of sphingolipid metabolism toward de novo synthesis of ethanolamine in <i>Leishmania</i> . <i>EMBO Journal</i> , 2007, 26, 1094-1104.	7.8	108
44	Sphingolipids are essential for differentiation but not growth in <i>Leishmania</i> . <i>EMBO Journal</i> , 2003, 22, 6016-6026.	7.8	107
45	Isotope Dilution Mass Spectrometric Measurements Indicate That Arachidonyl ethanolamide, the Proposed Endogenous Ligand of the Cannabinoid Receptor, Accumulates in Rat Brain Tissue Post Mortem but Is Contained at Low Levels in or Is Absent from Fresh Tissue. <i>Journal of Biological Chemistry</i> , 1996, 271, 17287-17295.	3.4	106
46	Structural studies on ceramides as lithiated adducts by low energy collisional-activated dissociation tandem mass spectrometry with electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 680-695.	2.8	105
47	Structural characterization of unsaturated glycerophospholipids by multiple-stage linear ion-trap mass spectrometry with electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1681-1691.	2.8	104
48	Mass spectrometry-based shotgun lipidomics – a critical review from the technical point of view. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6387-6409.	3.7	103
49	Studies on sulfatides by quadrupole ion-trap mass spectrometry with electrospray ionization: Structural characterization and the fragmentation processes that include an unusual internal galactose residue loss and the classical charge-remote fragmentation. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 536-546.	2.8	102
50	Studies of the Role of Group VI Phospholipase A2 in Fatty Acid Incorporation, Phospholipid Remodeling, Lysophosphatidylcholine Generation, and Secretagogue-induced Arachidonic Acid Release in Pancreatic Islets and Insulinoma Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 13915-13927.	3.4	101
51	Distinction among isomeric unsaturated fatty acids as lithiated adducts by electrospray ionization mass spectrometry using low energy collisionally activated dissociation on a triple stage quadrupole instrument. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 600-612.	2.8	101
52	<i>Leishmania</i> salvage and remodelling of host sphingolipids in amastigote survival and acidocalcisome biogenesis. <i>Molecular Microbiology</i> , 2005, 55, 1566-1578.	2.5	101
53	p-Hydroxyphenylacetaldehyde Is the Major Product of L-Tyrosine Oxidation by Activated Human Phagocytes. <i>Journal of Biological Chemistry</i> , 1996, 271, 1861-1867.	3.4	99
54	Identification and macrophage-activating activity of glycolipids released from intracellular <i>Mycobacterium bovis</i> BCG. <i>Molecular Microbiology</i> , 2003, 48, 875-888.	2.5	99

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55	Peroxisome-derived lipids regulate adipose thermogenesis by mediating cold-induced mitochondrial fission. <i>Journal of Clinical Investigation</i> , 2019, 129, 694-711.	8.2	95
56	Apoptosis of Insulin-Secreting Cells Induced by Endoplasmic Reticulum Stress Is Amplified by Overexpression of Group VIA Calcium-Independent Phospholipase A2 (iPLA2 β) and Suppressed by Inhibition of iPLA2 β . <i>Biochemistry</i> , 2004, 43, 918-930.	2.5	93
57	Elucidation of the double-bond position of long-chain unsaturated fatty acids by multiple-stage linear ion-trap mass spectrometry with electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1673-1680.	2.8	93
58	MmpL11 Protein Transports Mycolic Acid-containing Lipids to the Mycobacterial Cell Wall and Contributes to Biofilm Formation in <i>Mycobacterium smegmatis</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 24213-24222.	3.4	93
59	Reactive Chlorinating Species Produced by Myeloperoxidase Target the Vinyl Ether Bond of Plasmalogens. <i>Journal of Biological Chemistry</i> , 2001, 276, 23733-23741.	3.4	92
60	Detecting oxidative modification of biomolecules with isotope dilution mass spectrometry: Sensitive and quantitative assays for oxidized amino acids in proteins and tissues. <i>Methods in Enzymology</i> , 1999, 300, 124-144.	1.0	91
61	Effectors of Rapid Homeostatic Responses of Endoplasmic Reticulum Cholesterol and 3-Hydroxy-3-methylglutaryl-CoA Reductase. <i>Journal of Biological Chemistry</i> , 2008, 283, 1445-1455.	3.4	91
62	<i>Mycobacterium tuberculosis</i> carrying a rifampicin drug resistance mutation reprograms macrophage metabolism through cell wall lipid changes. <i>Nature Microbiology</i> , 2018, 3, 1099-1108.	13.3	90
63	Algorithm for processing raw mass spectrometric data to identify and quantitate complex lipid molecular species in mixtures by data-dependent scanning and fragment ion database searching. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1848-1858.	2.8	89
64	Development of a bile acid-based newborn screen for Niemann-Pick disease type C. <i>Science Translational Medicine</i> , 2016, 8, 337ra63.	12.4	89
65	Reactive Chlorinating Species Produced during Neutrophil Activation Target Tissue Plasmalogens. <i>Journal of Biological Chemistry</i> , 2002, 277, 3842-3849.	3.4	87
66	Characterization of phosphatidylethanolamine as a lithiated adduct by triple quadrupole tandem mass spectrometry with electrospray ionization. , 2000, 35, 595-606.		84
67	Activation of iNKT cells by a distinct constituent of the endogenous glucosylceramide fraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13433-13438.	7.1	83
68	Developmentally regulated sphingolipid synthesis in African trypanosomes. <i>Molecular Microbiology</i> , 2008, 70, 281-296.	2.5	80
69	Electrospray Ionization Mass Spectrometric Analyses of Phospholipids from Rat and Human Pancreatic Islets and Subcellular Membranes: A Comparison to Other Tissues and Implications for Membrane Fusion in Insulin Exocytosis. <i>Biochemistry</i> , 1998, 37, 4553-4567.	2.5	79
70	p-Hydroxyphenylacetaldehyde, the Major Product of I-Tyrosine Oxidation by the Myeloperoxidase-H ₂ O ₂ -Chloride System of Phagocytes, Covalently Modifies μ -Amino Groups of Protein Lysine Residues. <i>Journal of Biological Chemistry</i> , 1997, 272, 16990-16998.	3.4	77
71	Myeloperoxidase-derived Reactive Chlorinating Species from Human Monocytes Target Plasmalogens in Low Density Lipoprotein. <i>Journal of Biological Chemistry</i> , 2003, 278, 36365-36372.	3.4	77
72	Identification of the lipopolysaccharide modifications controlled by the <i>Salmonella</i> PmrA/PmrB system mediating resistance to Fe(III) and Al(III). <i>Molecular Microbiology</i> , 2006, 61, 645-654.	2.5	76

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73	Peroxisomal Lipid Synthesis Regulates Inflammation by Sustaining Neutrophil Membrane Phospholipid Composition and Viability. <i>Cell Metabolism</i> , 2015, 21, 51-64.	16.2	76
74	The <i>Bacillus anthracis</i> Protein MprF Is Required for Synthesis of Lysylphosphatidylglycerols and for Resistance to Cationic Antimicrobial Peptides. <i>Journal of Bacteriology</i> , 2009, 191, 1311-1319.	2.2	75
75	Studies of Insulin Secretory Responses and of Arachidonic Acid Incorporation into Phospholipids of Stably Transfected Insulinoma Cells That Overexpress Group VIA Phospholipase A2(iPLA2 ²) Indicate a Signaling Rather Than a Housekeeping Role for iPLA2 ² . <i>Journal of Biological Chemistry</i> , 2001, 276, 13198-13208.	3.4	74
76	Palmitic Acid-Rich High-Fat Diet Exacerbates Experimental Pulmonary Fibrosis by Modulating Endoplasmic Reticulum Stress. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 737-746.	2.9	73
77	Characterization of acylphosphatidylglycerols from salmonella typhimurium by tandem mass spectrometry with electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1-11.	2.8	70
78	Electrospray Ionization/Mass Spectrometric Analyses of Human Promonocytic U937 Cell Glycerolipids and Evidence That Differentiation Is Associated with Membrane Lipid Composition Changes That Facilitate Phospholipase A2 Activation. <i>Journal of Biological Chemistry</i> , 2000, 275, 16579-16589.	3.4	69
79	Characterization of inositol phosphorylceramides from Leishmania major by tandem mass spectrometry with electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1591-1604.	2.8	69
80	Modification of proteins and lipids by myeloperoxidase. <i>Methods in Enzymology</i> , 1999, 300, 88-105.	1.0	68
81	Liver fatty acid binding protein (L-Fabp) modulates murine stellate cell activation and diet-induced nonalcoholic fatty liver disease. <i>Hepatology</i> , 2013, 57, 2202-2212.	7.3	68
82	Differentiation of 1-O-alk-1- ϵ^2 -enyl-2-acyl and 1-O-alkyl-2-acyl Glycerophospholipids by Multiple-Stage Linear Ion-Trap Mass Spectrometry with Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2065-2073.	2.8	67
83	Degradation of Host Sphingomyelin Is Essential for Leishmania Virulence. <i>PLoS Pathogens</i> , 2009, 5, e1000692.	4.7	64
84	Characterization of cardiolipin from Escherichia coli by electrospray ionization with multiple stage quadrupole ion-trap mass spectrometric analysis of [M ⁺ 2H+Na] ⁺ ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 420-429.	2.8	63
85	Malaria Parasites Produce Volatile Mosquito Attractants. <i>MBio</i> , 2015, 6, .	4.1	61
86	Sterol Biosynthesis Is Required for Heat Resistance but Not Extracellular Survival in Leishmania. <i>PLoS Pathogens</i> , 2014, 10, e1004427.	4.7	57
87	Mass Spectrometric Evidence That Agents That Cause Loss of Ca ²⁺ from Intracellular Compartments Induce Hydrolysis of Arachidonic Acid from Pancreatic Islet Membrane Phospholipids by a Mechanism That Does Not Require a Rise in Cytosolic Ca ²⁺ Concentration**This work was supported by U.S. Public Health Service grants PO1-HL57278, P41-RR-00954, and S10-RR-11260 and by an American Diabetes Association Career Development Award (S.R.). <i>Endocrinology</i> , 1998, 133, 1673-1685.	2.8	55
88	Anionic Lipids Enriched at the ExPortal of Streptococcus pyogenes. <i>Journal of Bacteriology</i> , 2007, 189, 801-806.	2.2	55
89	Selective hepatic insulin resistance in a murine model heterozygous for a mitochondrial trifunctional protein defect. <i>Hepatology</i> , 2013, 57, 2213-2223.	7.3	55
90	A Bromoenol Lactone Suicide Substrate Inactivates Group VIA Phospholipase A ₂ by Generating a Diffusible Bromomethyl Keto Acid That Alkylates Cysteine Thiols. <i>Biochemistry</i> , 2006, 45, 1061-1073.	2.5	53

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91	Structural characterization of phosphatidyl-myo-inositol mannosides from <i>Mycobacterium bovis</i> bacillus calmette guérin by multiple-stage quadrupole ion-trap mass spectrometry with electrospray ionization. II. Monoacyl- and diacyl-PIMs. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 479-492.	2.8	52
92	Characterization of cardiolipin as the sodiated ions by positive-ion electrospray ionization with multiple stage quadrupole ion-trap mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1146-1157.	2.8	51
93	Immunologic Glycosphingolipidomics and NKT Cell Development in Mouse Thymus. <i>Journal of Proteome Research</i> , 2009, 8, 2740-2751.	3.7	51
94	Electrospray ionization mass spectrometry analyses of nuclear membrane phospholipid loss after reperfusion of ischemic myocardium. <i>Journal of Lipid Research</i> , 2000, 41, 1585-1595.	4.2	50
95	Structural characterization of phosphatidyl-myo-inositol mannosides from <i>Mycobacterium bovis</i> bacillus calmette guérin by multiple-stage quadrupole ion-trap mass spectrometry with electrospray ionization. I. PIMs and lyso-PIMs. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 466-478.	2.8	48
96	Electrospray ionization multiple stage quadrupole ion-trap and tandem quadrupole mass spectrometric studies on phosphatidylglycerol from arabidopsis leaves. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 783-790.	2.8	47
97	Studies of phospholipid metabolism, proliferation, and secretion of stably transfected insulinoma cells that overexpress group VIA phospholipase A2. <i>Lipids</i> , 2001, 36, 689-700.	1.7	46
98	Wnt Protein Signaling Reduces Nuclear Acetyl-CoA Levels to Suppress Gene Expression during Osteoblast Differentiation. <i>Journal of Biological Chemistry</i> , 2016, 291, 13028-13039.	3.4	43
99	Complete structural characterization of ceramides as $[M+H]^+$ ions by multiple-stage linear ion trap mass spectrometry. <i>Biochimie</i> , 2016, 130, 63-75.	2.6	43
100	Identification of a Potent Microbial Lipid Antigen for Diverse NKT Cells. <i>Journal of Immunology</i> , 2015, 195, 2540-2551.	0.8	40
101	Sterol methyltransferase is required for optimal mitochondrial function and virulence in <i>Leishmania major</i> . <i>Molecular Microbiology</i> , 2019, 111, 65-81.	2.5	39
102	Electrospray ionization mass spectrometric analyses of phospholipids from INS-1 insulinoma cells: comparison to pancreatic islets and effects of fatty acid supplementation on phospholipid composition and insulin secretion. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2000, 1484, 251-266.	2.4	38
103	Pancreatic Islets and Insulinoma Cells Express a Novel Isoform of Group VIA Phospholipase A2 (iPLA2 ²) that Participates in Glucose-Stimulated Insulin Secretion and Is Not Produced by Alternate Splicing of the iPLA2 ² Transcript. <i>Biochemistry</i> , 2003, 42, 13929-13940.	2.5	38
104	Cell-free Synthesis and Functional Characterization of Sphingolipid Synthases from Parasitic Trypanosomatid Protozoa. <i>Journal of Biological Chemistry</i> , 2010, 285, 20580-20587.	3.4	37
105	Characterization of mycolic acids from the pathogen <i>Rhodococcus equi</i> by tandem mass spectrometry with electrospray ionization. <i>Analytical Biochemistry</i> , 2011, 409, 112-122.	2.4	37
106	Direct binding of phosphatidylglycerol at specific sites modulates desensitization of a ligand-gated ion channel. <i>ELife</i> , 2019, 8, .	6.0	34
107	Confirmation of a dopamine metabolite in parkinsonian brain tissue by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 1993, 614, 205-212.	1.7	32
108	The PmrAB System-inducing Conditions Control Both Lipid A Remodeling and O-antigen Length Distribution, Influencing the <i>Salmonella</i> Typhimurium-Host Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 38778-38789.	3.4	32

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109	PexRAP Inhibits PRDM16-Mediated Thermogenic Gene Expression. <i>Cell Reports</i> , 2017, 20, 2766-2774.	6.4	32
110	Selective plasmalogen oxidation by hypochlorous acid: formation of lysophosphatidylcholine chlorohydrins. <i>Chemistry and Physics of Lipids</i> , 2006, 144, 34-44.	3.2	31
111	Ncb5or Deficiency Increases Fatty Acid Catabolism and Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2011, 286, 11141-11154.	3.4	31
112	Requirement of Fatty Acid Transport Protein 4 for Development, Maturation, and Function of Sebaceous Glands in a Mouse Model of Ichthyosis Prematurity Syndrome. <i>Journal of Biological Chemistry</i> , 2013, 288, 3964-3976.	3.4	31
113	N-acyl-O-phosphocholineserines: structures of a novel class of lipids that are biomarkers for Niemann-Pick C1 disease. <i>Journal of Lipid Research</i> , 2019, 60, 1410-1424.	4.2	31
114	Electrospray ionization mass spectrometric analyses of changes in tissue phospholipid molecular species during the evolution of hyperlipidemia and hyperglycemia in Zucker diabetic fatty rats. <i>Lipids</i> , 2000, 35, 839-852.	1.7	30
115	Structural elucidation of diglycosyl diacylglycerol and monoglycosyl diacylglycerol from <i>Streptococcus pneumoniae</i> by multiple-stage linear ion-trap mass spectrometry with electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2012, 47, 115-123.	1.6	30
116	Loss of lipin 1-mediated phosphatidic acid phosphohydrolase activity in muscle leads to skeletal myopathy in mice. <i>FASEB Journal</i> , 2019, 33, 652-667.	0.5	30
117	Myeloperoxidase-derived 2-chlorohexadecanal forms Schiff bases with primary amines of ethanolamine glycerophospholipids and lysine. <i>Chemistry and Physics of Lipids</i> , 2006, 139, 157-170.	3.2	29
118	Isolation and identification of two novel SDS-resistant secreted chitinases from <i>Aeromonas schubertii</i> . <i>Biotechnology Progress</i> , 2009, 25, 124-131.	2.6	29
119	Characterization of Sulfolipids of <i>Mycobacterium tuberculosis</i> H37Rv by Multiple-Stage Linear Ion-Trap High-Resolution Mass Spectrometry with Electrospray Ionization Reveals That the Family of Sulfolipid II Predominates. <i>Biochemistry</i> , 2011, 50, 9135-9147.	2.5	29
120	Reactive Brominating Species Produced by Myeloperoxidase Target the Vinyl Ether Bond of Plasmalogens. <i>Journal of Biological Chemistry</i> , 2002, 277, 4694-4703.	3.4	28
121	Exogenous cardiolipin localizes to mitochondria and prevents TAZ knockdown-induced apoptosis in myeloid progenitor cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 580-585.	2.1	28
122	Mechanism of High-Level Daptomycin Resistance in <i>Corynebacterium striatum</i> . <i>MSphere</i> , 2018, 3, .	2.9	28
123	Quantification of Cholesterol Tracers by Gas Chromatography-Negative Ion Chemical Ionization Mass Spectrometry. , 1996, 31, 1291-1296.		26
124	Development and validation of LC-MS/MS method for determination of very long acyl chain (C22:0 and) Tj ETQq0 0.0,rgBT /Overlock 10	3.7	26
125	Characterization of polar lipids of <i>Listeria monocytogenes</i> by HCD and low-energy CAD linear ion-trap mass spectrometry with electrospray ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2519-2528.	3.7	26
126	Islet Complex Lipids: Involvement in the Actions of Group VIA Calcium-Independent Phospholipase A2 in β -Cells. <i>Diabetes</i> , 2004, 53, S179-S185.	0.6	25

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127	Structural Distinction of Diacyl-, Alkylacyl, and Alk-1-Enylacyl Glycerophosphocholines as [M + 15] ⁺ Ions by Multiple-Stage Linear Ion-Trap Mass Spectrometry with Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1412-1420.	2.8	25
128	Lipidomics Analysis of Outer Membrane Vesicles and Elucidation of the Inositol Phosphoceramide Biosynthetic Pathway in <i>Bacteroides thetaiotaomicron</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0063421.	3.0	24
129	Structural Characterization of Sulfated Steroids That Activate Mouse Pheromone-Sensing Neurons. <i>Biochemistry</i> , 2008, 47, 14009-14019.	2.5	23
130	Multiple-stage linear ion-trap with high resolution mass spectrometry towards complete structural characterization of phosphatidylethanolamines containing cyclopropane fatty acyl chain in <i>Leishmania infantum</i> . <i>Journal of Mass Spectrometry</i> , 2014, 49, 201-209.	1.6	23
131	Lipid metabolism of phenol-tolerant <i>Rhodococcus opacus</i> strains for lignin bioconversion. <i>Biotechnology for Biofuels</i> , 2018, 11, 339.	6.2	23
132	Structural distinction among inositol phosphate isomers using high-energy and low-energy collisional-activated dissociation tandem mass spectrometry with electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2003, 38, 447-457.	1.6	21
133	Diversion of phagosome trafficking by pathogenic <i>Rhodococcus equi</i> depends on mycolic acid chain length. <i>Cellular Microbiology</i> , 2013, 15, 458-473.	2.1	21
134	Synthesis, Isolation, and Characterization of the Adduct Formed in the Reaction of p-Hydroxyphenyl-acetaldehyde with the Amino Headgroup of Phosphatidylethanolamine and Phosphatidylserine. <i>Chemical Research in Toxicology</i> , 1999, 12, 19-27.	3.3	19
135	Characterization of phthiocerol and phthiodiolone dimycocerosate esters of <i>M. tuberculosis</i> by multiple-stage linear ion-trap MS. <i>Journal of Lipid Research</i> , 2016, 57, 142-155.	4.2	19
136	Characterization of Long-Chain Fatty Acid as N-(4-Aminomethylphenyl) Pyridinium Derivative by MALDI LIFT-TOF/TOF Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1688-1699.	2.8	19
137	Δ^6 -Stearoyl CoA, and Δ^5 -desaturase enzymes are expressed in Δ^2 -cells and are altered by increases in exogenous PUFA concentrations. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2002, 1580, 40-56.	2.4	18
138	Novel carbonyl and nitrile products from reactive chlorinating species attack of lysosphingolipid. <i>Chemistry and Physics of Lipids</i> , 2007, 145, 72-84.	3.2	18
139	Deletion of UDP-glucose pyrophosphorylase reveals a UDP-glucose independent UDP-galactose salvage pathway in <i>Leishmania major</i> . <i>Glycobiology</i> , 2010, 20, 872-882.	2.5	18
140	Aldehyde adducts inhibit 3,4-dihydroxyphenylacetaldehyde-induced α -synuclein aggregation and toxicity: Implication for Parkinson neuroprotective therapy. <i>European Journal of Pharmacology</i> , 2019, 845, 65-73.	3.5	18
141	Retinal de novo lipogenesis coordinates neurotrophic signaling to maintain vision. <i>JCI Insight</i> , 2018, 3, .	5.0	18
142	Structural Definition of Trehalose 6-Monomycolates and Trehalose 6,6'-Dimycolates from the Pathogen <i>Rhodococcus equi</i> by Multiple-Stage Linear Ion-Trap Mass Spectrometry with Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 2160-2170.	2.8	17
143	Characterization of Hydroxyphthioceranoic and Phthioceranoic Acids by Charge-Switch Derivatization and CID Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 622-632.	2.8	17
144	Fatty acid transport protein 4 is required for incorporation of saturated ultralong-chain fatty acids into epidermal ceramides and monoacylglycerols. <i>Scientific Reports</i> , 2019, 9, 13254.	3.3	17

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145	Phosphatidylcholine synthesis through cholinephosphate cytidyltransferase is dispensable in <i>Leishmania major</i> . <i>Scientific Reports</i> , 2019, 9, 7602.	3.3	17
146	Toward total structural analysis of cardiolipins: multiple-stage linear ion-trap mass spectrometry on the $[M + 2H + 3Li]^+$ ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1863-1869.	2.8	16
147	Characterization of mycobacterial triacylglycerols and monomeromycetyl diacylglycerols from <i>Mycobacterium smegmatis</i> biofilm by electrospray ionization multiple-stage and high-resolution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7415-7426.	3.7	16
148	Plasmenylethanolamine synthesis in <i>Leishmania major</i> . <i>Molecular Microbiology</i> , 2016, 101, 238-249.	2.5	16
149	De Novo Synthesis of Phosphatidylcholine Is Essential for the Promastigote But Not Amastigote Stage in <i>Leishmania major</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 647870.	3.9	16
150	Characterization of N-terminal processing of group VIA phospholipase A2 and of potential cleavage sites of amyloid precursor protein constructs by automated identification of signature peptides in LC/MS/MS analyses of proteolytic digests. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1780-1793.	2.8	15
151	Evaluation of cardiolipin nanodisks as lipid replacement therapy for Barth syndrome. <i>Journal of Biomedical Research</i> , 2018, 32, 107-112.	1.6	14
152	Thermospray liquid chromatographic/mass spectrometric studies with inositol phosphates. <i>Biological Mass Spectrometry</i> , 1990, 19, 597-600.	0.5	13
153	Structural determination of glycopeptidolipids of <i>Mycobacterium smegmatis</i> by high-resolution multiple-stage linear ion-trap mass spectrometry with electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2012, 47, 1269-1281.	1.6	13
154	Diabetes adversely affects phospholipid profiles in human carotid artery endarterectomy plaques. <i>Journal of Lipid Research</i> , 2018, 59, 730-738.	4.2	13
155	Alpha-crystallin mutations alter lens metabolites in mouse models of human cataracts. <i>PLoS ONE</i> , 2020, 15, e0238081.	2.5	12
156	Characterization of peroxidative oxidation products of dopamine by mass spectrometry. <i>Biomedical Applications</i> , 1994, 658, 21-30.	1.7	11
157	Linear ion-trap MSn with high-resolution MS reveals structural diversity of 1-O-acylceramide family in mouse epidermis. <i>Journal of Lipid Research</i> , 2017, 58, 772-782.	4.2	11
158	Cyclopropane fatty acid synthesis affects cell shape and acid resistance in <i>Leishmania mexicana</i> . <i>International Journal for Parasitology</i> , 2018, 48, 245-256.	3.1	11
159	CEPT1-Mediated Phospholipogenesis Regulates Endothelial Cell Function and Ischemia-Induced Angiogenesis Through PPAR α . <i>Diabetes</i> , 2021, 70, 549-561.	0.6	11
160	Studies on the permethylation/dephosphorylation of inositol polyphosphates: An approach to a more sensitive assay. <i>Biological Mass Spectrometry</i> , 1990, 19, 771-776.	0.5	9
161	Sphingosine kinase A is a pleiotropic and essential enzyme for <i>Leishmania</i> survival and virulence. <i>Molecular Microbiology</i> , 2013, 90, 489-501.	2.5	9
162	Electrospray ionization with higher-energy collision dissociation tandem mass spectrometry toward characterization of ceramides as $[M + Li]^+$ ions: Mechanisms of fragmentation and structural identification. <i>Analytica Chimica Acta</i> , 2021, 1142, 221-234.	5.4	9

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163	Targeting a Radiosensitizing Antibody–Drug Conjugate to a Radiation-Inducible Antigen. <i>Clinical Cancer Research</i> , 2021, 27, 3224-3233.	7.0	9
164	Structural studies on archaeal phytanyl-ether lipids isolated from membranes of extreme halophiles by linear ion-trap multiple-stage tandem mass spectrometry with electrospray ionization. <i>Analytica Chimica Acta</i> , 2013, 771, 73-85.	5.4	8
165	Structural characterization of phospholipids and sphingolipids by in-source fragmentation MALDI/TOF mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2089-2102.	3.7	8
166	PrfA activation in <i>Listeria monocytogenes</i> increases the sensitivity to class IIa bacteriocins despite impaired expression of the bacteriocin receptor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1283-1291.	2.4	7
167	Multiple-stage Precursor Ion Separation and High Resolution Mass Spectrometry toward Structural Characterization of 2,3-Diacyltrehalose Family from <i>Mycobacterium tuberculosis</i> . <i>Separations</i> , 2019, 6, 4.	2.4	7
168	Lathosterol Oxidase (Sterol C-5 Desaturase) Deletion Confers Resistance to Amphotericin B and Sensitivity to Acidic Stress in <i>Leishmania major</i> . <i>MSphere</i> , 2020, 5, .	2.9	7
169	Type I Phosphatidylinositol 4-Phosphate 5-Kinase β Regulates Osteoclasts in a Bifunctional Manner*. <i>Journal of Biological Chemistry</i> , 2013, 288, 5268-5277.	3.4	6
170	Performing high salt concentration gradient elution ion-exchange separations using thermospray mass spectrometry. <i>Journal of Chromatography A</i> , 1989, 479, 437-440.	3.7	5
171	Thermospray high performance liquid chromatography/mass spectrometric identification of a bladder carcinogen metabolite isolated from guinea pig urine. <i>Biological Mass Spectrometry</i> , 1990, 19, 601-608.	0.5	5
172	Unveiling the biodiversity of lipid species in <i>Corynebacteria</i> - characterization of the uncommon lipid families in <i>C. glutamicum</i> and pathogen <i>C. striatum</i> by mass spectrometry. <i>Biochimie</i> , 2020, 178, 158-169.	2.6	5
173	Endothelial ether lipids link the vasculature to blood pressure, behavior, and neurodegeneration. <i>Journal of Lipid Research</i> , 2021, 62, 100079.	4.2	5
174	Glucose-mediated de novo lipogenesis in photoreceptors drives early diabetic retinopathy. <i>Journal of Biological Chemistry</i> , 2021, 297, 101104.	3.4	5
175	Complete Characterization of Polyacyltrehaloses from <i>Mycobacterium tuberculosis</i> H37Rv Biofilm Cultures by Multiple-Stage Linear Ion-Trap Mass Spectrometry Reveals a New Tetraacyltrehalose Family. <i>Biochemistry</i> , 2021, 60, 381-397.	2.5	5
176	Revelation of Acyl Double Bond Positions on Fatty Acyl Coenzyme A Esters by MALDI/TOF Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1047-1057.	2.8	4
177	Preparative high-performance liquid chromatography using detection by thermospray mass spectrometry. <i>Journal of Chromatography A</i> , 1989, 478, 429-432.	3.7	3
178	Identification of New 2-Amino-3-methylimidazo[4,5- <i>f</i>]quinoline Urinary Metabolites from β -Naphthoflavone-Treated Mice. <i>Drug Metabolism and Disposition</i> , 2009, 37, 1690-1697.	3.3	3
179	Immunologic mapping of glycomes: implications for cancer diagnosis and therapy. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 1520.	2.1	3
180	Accumulation of long-chain bases in yeast promotes their conversion to a long-chain base vinyl ether. <i>Journal of Lipid Research</i> , 2016, 57, 2040-2050.	4.2	3

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181	Structural Determination of a New Peptidolipid Family from <i>Rhodococcus opacus</i> and the Pathogen <i>Rhodococcus equi</i> by Multiple Stage Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 611-623.	2.8	3
182	Shotgun Lipidomic Analysis of Leishmania Cells. Methods in Molecular Biology, 2021, 2306, 215-225.	0.9	3
183	Characterization of <i>Mycobacterium tuberculosis</i> Mycolic Acids by Multiple-Stage Linear Ion-Trap Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2022, 33, 149-159.	2.8	3
184	Characterization of new metabolites from <i>in vivo</i> biotransformation of 2-aminomethylimidazo[4,5-f]quinoline in mouse by mass spectrometry. Journal of Mass Spectrometry, 2009, 44, 1359-1368.	1.6	2
185	Mass Spectrometry-Based Lipidomics: An Overview. Methods in Molecular Biology, 2021, 2306, 1-10.	0.9	2
186	Characterization of the Uncommon Lipid Families in <i>Corynebacterium glutamicum</i> by Mass Spectrometry. Methods in Molecular Biology, 2021, 2306, 227-238.	0.9	2
187	Water as a useful calibrant for thermospray mass spectrometry. Biological Mass Spectrometry, 1992, 21, 363-364.	0.5	1
188	Measurement of Inositol Trisphosphate by Gas Chromatography/Mass Spectrometry: Femtomole Sensitivity Provided by Negative-Ion Chemical Ionization Mass Spectrometry in Submilligram Quantities of Tissue. Methods in Neurosciences, 1993, , 201-212.	0.5	1
189	Mass Spectrometry-Based Shotgun Lipidomics Using Charge-Switch Derivatization for Analysis of Complex Long-Chain Fatty Acids. Methods in Molecular Biology, 2021, 2306, 93-103.	0.9	1
190	Ceramide Analysis by Multiple Linked-Scan Mass Spectrometry Using a Tandem Quadrupole Instrument. Methods in Molecular Biology, 2021, 2306, 123-137.	0.9	1
191	Characterization of phosphatidylethanolamine as a lithiated adduct by triple quadrupole tandem mass spectrometry with electrospray ionization. Journal of Mass Spectrometry, 2000, 35, 595.	1.6	1
192	Readily synthesized calibration compounds for quadrupole and magnetic instruments for use over the mass range to 2000 daltons. Biological Mass Spectrometry, 1991, 20, 339-344.	0.5	0
193	Electrospray Ionization with Low-Energy Collisionally Activated Dissociation Tandem Mass Spectrometry of Complex Lipids. , 2005, , .		0
194	Comprehensive Mouse Skin Ceramide Analysis on a Solid-Phase and TLC Separation with High-Resolution Mass Spectrometry Platform. Methods in Molecular Biology, 2021, 2306, 139-155.	0.9	0