

Xianlin Han

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211
papers

16,598
citations

67
h-index

126
g-index

236
ext. papers

19,236
ext. citations

6.9
avg, IF

7.07
L-index

#	Paper	IF	Citations
211	Triglyceride accumulation protects against fatty acid-induced lipotoxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3077-82	11.5	1349
210	Shotgun lipidomics: electrospray ionization mass spectrometric analysis and quantitation of cellular lipidomes directly from crude extracts of biological samples. <i>Mass Spectrometry Reviews</i> , 2005 , 24, 367-412	11	922
209	Global analyses of cellular lipidomes directly from crude extracts of biological samples by ESI mass spectrometry: a bridge to lipidomics. <i>Journal of Lipid Research</i> , 2003 , 44, 1071-9	6.3	630
208	Substantial sulfatide deficiency and ceramide elevation in very early Alzheimer's disease: potential role in disease pathogenesis. <i>Journal of Neurochemistry</i> , 2002 , 82, 809-18	6	438
207	Lipid rafts are enriched in arachidonic acid and plasmenylethanolamine and their composition is independent of caveolin-1 expression: a quantitative electrospray ionization/mass spectrometric analysis. <i>Biochemistry</i> , 2002 , 41, 2075-88	3.2	433
206	Multi-dimensional mass spectrometry-based shotgun lipidomics and novel strategies for lipidomic analyses. <i>Mass Spectrometry Reviews</i> , 2012 , 31, 134-78	11	418
205	Cellular mechanism of insulin resistance in nonalcoholic fatty liver disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16381-5	11.5	404
204	Plasmalogen deficiency in early Alzheimer's disease subjects and in animal models: molecular characterization using electrospray ionization mass spectrometry. <i>Journal of Neurochemistry</i> , 2001 , 77, 1168-80	6	400
203	Quantitative analysis and molecular species fingerprinting of triacylglyceride molecular species directly from lipid extracts of biological samples by electrospray ionization tandem mass spectrometry. <i>Analytical Biochemistry</i> , 2001 , 295, 88-100	3.1	310
202	ABCA1 is required for normal central nervous system ApoE levels and for lipidation of astrocyte-secreted apoE. <i>Journal of Biological Chemistry</i> , 2004 , 279, 40987-93	5.4	304
201	Automated lipid identification and quantification by multidimensional mass spectrometry-based shotgun lipidomics. <i>Analytical Chemistry</i> , 2009 , 81, 4356-68	7.8	294
200	Lipidomics for studying metabolism. <i>Nature Reviews Endocrinology</i> , 2016 , 12, 668-679	15.2	290
199	Metabolomics in early Alzheimer's disease: identification of altered plasma sphingolipidome using shotgun lipidomics. <i>PLoS ONE</i> , 2011 , 6, e21643	3.7	284
198	Lipidomics: Techniques, Applications, and Outcomes Related to Biomedical Sciences. <i>Trends in Biochemical Sciences</i> , 2016 , 41, 954-969	10.3	280
197	Structural determination of picomole amounts of phospholipids via electrospray ionization tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1995 , 6, 1202-10	3.5	265
196	Circadian clocks and feeding time regulate the oscillations and levels of hepatic triglycerides. <i>Cell Metabolism</i> , 2014 , 19, 319-30	24.6	239
195	Shotgun lipidomics: multidimensional MS analysis of cellular lipidomes. <i>Expert Review of Proteomics</i> , 2005 , 2, 253-64	4.2	237

194	Alterations in myocardial cardiolipin content and composition occur at the very earliest stages of diabetes: a shotgun lipidomics study. <i>Biochemistry</i> , 2007 , 46, 6417-28	3.2	220
193	Altered bile acid profile associates with cognitive impairment in Alzheimer's disease-An emerging role for gut microbiome. <i>Alzheimer's and Dementia</i> , 2019 , 15, 76-92	1.2	208
192	Toward fingerprinting cellular lipidomes directly from biological samples by two-dimensional electrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2004 , 330, 317-31	3.1	207
191	Metabolic network failures in Alzheimer's disease: A biochemical road map. <i>Alzheimer's and Dementia</i> , 2017 , 13, 965-984	1.2	201
190	Cardiolipin and electron transport chain abnormalities in mouse brain tumor mitochondria: lipidomic evidence supporting the Warburg theory of cancer. <i>Journal of Lipid Research</i> , 2008 , 49, 2545-56	6.3	199
189	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometric analysis of cellular glycerophospholipids enabled by multiplexed solvent dependent analyte-matrix interactions. <i>Analytical Chemistry</i> , 2008 , 80, 7576-85	7.8	182
188	Cardiolipin remodeling by ALCAT1 links oxidative stress and mitochondrial dysfunction to obesity. <i>Cell Metabolism</i> , 2010 , 12, 154-65	24.6	181
187	Novel advances in shotgun lipidomics for biology and medicine. <i>Progress in Lipid Research</i> , 2016 , 61, 83-103	10.3	170
186	Epidermal growth factor receptors are localized to lipid rafts that contain a balance of inner and outer leaflet lipids: a shotgun lipidomics study. <i>Journal of Biological Chemistry</i> , 2005 , 280, 26796-804	5.4	169
185	Shotgun lipidomics of cardiolipin molecular species in lipid extracts of biological samples. <i>Journal of Lipid Research</i> , 2006 , 47, 864-79	6.3	160
184	Characterization and direct quantitation of ceramide molecular species from lipid extracts of biological samples by electrospray ionization tandem mass spectrometry. <i>Analytical Biochemistry</i> , 2002 , 302, 199-212	3.1	160
183	Selection of internal standards for accurate quantification of complex lipid species in biological extracts by electrospray ionization mass spectrometry-What, how and why?. <i>Mass Spectrometry Reviews</i> , 2017 , 36, 693-714	11	146
182	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. <i>Journal of Lipid Research</i> , 2018 , 59, 2001-2017	6.3	146
181	Shotgun lipidomics identifies cardiolipin depletion in diabetic myocardium linking altered substrate utilization with mitochondrial dysfunction. <i>Biochemistry</i> , 2005 , 44, 16684-94	3.2	144
180	Lipid analysis 2010 ,		136
179	Lipidomics at the interface of structure and function in systems biology. <i>Chemistry and Biology</i> , 2011 , 18, 284-91		134
178	Purification and characterization of astrocyte-secreted apolipoprotein E and J-containing lipoproteins from wild-type and human apoE transgenic mice. <i>Neurochemistry International</i> , 2001 , 39, 415-25	4.4	134
177	Alterations in individual molecular species of human platelet phospholipids during thrombin stimulation: electrospray ionization mass spectrometry-facilitated identification of the boundary conditions for the magnitude and selectivity of thrombin-induced platelet phospholipid hydrolysis. <i>Biochemistry</i> , 1996 , 35, 5822-32	3.2	134

176	Lipid alterations in the earliest clinically recognizable stage of Alzheimer's disease: implication of the role of lipids in the pathogenesis of Alzheimer's disease. <i>Current Alzheimer Research</i> , 2005 , 2, 65-77	3	131
175	Microfluidics-based electrospray ionization enhances the intrasource separation of lipid classes and extends identification of individual molecular species through multi-dimensional mass spectrometry: development of an automated high-throughput platform for shotgun lipidomics. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 2115-24	2.2	129
174	Shotgun lipidomics of phosphoethanolamine-containing lipids in biological samples after one-step in situ derivatization. <i>Journal of Lipid Research</i> , 2005 , 46, 1548-60	6.3	125
173	The functional characterization of long noncoding RNA SPRY4-IT1 in human melanoma cells. <i>Oncotarget</i> , 2014 , 5, 8959-69	3.3	123
172	Accurate quantification of lipid species by electrospray ionization mass spectrometry - Meet a key challenge in lipidomics. <i>Metabolites</i> , 2011 , 1, 21-40	5.6	120
171	Fatty acidomics: global analysis of lipid species containing a carboxyl group with a charge-remote fragmentation-assisted approach. <i>Analytical Chemistry</i> , 2013 , 85, 9312-20	7.8	119
170	Lipidomic analysis and electron transport chain activities in C57BL/6J mouse brain mitochondria. <i>Journal of Neurochemistry</i> , 2008 , 106, 299-312	6	116
169	Plasmenylcholine and phosphatidylcholine membrane bilayers possess distinct conformational motifs. <i>Biochemistry</i> , 1990 , 29, 4992-6	3.2	116
168	Structural Determination of Lysophospholipid Regioisomers by Electrospray Ionization Tandem Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1996 , 118, 451-457	16.4	115
167	Factors influencing the electrospray intrasource separation and selective ionization of glycerophospholipids. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 264-74	3.5	113
166	Multi-dimensional mass spectrometry-based shotgun lipidomics and the altered lipids at the mild cognitive impairment stage of Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 774-83	5	110
165	Characterization and direct quantitation of cerebroside molecular species from lipid extracts by shotgun lipidomics. <i>Journal of Lipid Research</i> , 2005 , 46, 163-75	6.3	109
164	Cerebrospinal fluid sulfatide is decreased in subjects with incipient dementia. <i>Annals of Neurology</i> , 2003 , 54, 115-9	9.4	100
163	Altered bile acid profile in mild cognitive impairment and Alzheimer's disease: Relationship to neuroimaging and CSF biomarkers. <i>Alzheimer's and Dementia</i> , 2019 , 15, 232-244	1.2	95
162	Novel role for apolipoprotein E in the central nervous system. Modulation of sulfatide content. <i>Journal of Biological Chemistry</i> , 2003 , 278, 8043-51	5.4	94
161	Potential mechanisms contributing to sulfatide depletion at the earliest clinically recognizable stage of Alzheimer's disease: a tale of shotgun lipidomics. <i>Journal of Neurochemistry</i> , 2007 , 103 Suppl 1, 171-9	6	89
160	Alterations in lipid homeostasis of mouse dorsal root ganglia induced by apolipoprotein E deficiency: a shotgun lipidomics study. <i>Journal of Neurochemistry</i> , 2007 , 101, 57-76	6	89
159	Lipidomics Analyses Reveal Temporal and Spatial Lipid Organization and Uncover Daily Oscillations in Intracellular Organelles. <i>Molecular Cell</i> , 2016 , 62, 636-48	17.6	89

158	Diabetes-induced changes in specific lipid molecular species in rat myocardium. <i>Biochemical Journal</i> , 2000 , 352, 79-89	3.8	88
157	Alkaline methanolysis of lipid extracts extends shotgun lipidomics analyses to the low-abundance regime of cellular sphingolipids. <i>Analytical Biochemistry</i> , 2007 , 371, 135-45	3.1	87
156	Dysfunctional cardiac mitochondrial bioenergetic, lipidomic, and signaling in a murine model of Barth syndrome. <i>Journal of Lipid Research</i> , 2013 , 54, 1312-25	6.3	83
155	Unremodeled and remodeled cardiolipin are functionally indistinguishable in yeast. <i>Journal of Biological Chemistry</i> , 2014 , 289, 1768-78	5.4	81
154	Shotgun metabolomics approach for the analysis of negatively charged water-soluble cellular metabolites from mouse heart tissue. <i>Analytical Chemistry</i> , 2007 , 79, 6629-40	7.8	80
153	Neurolipidomics: challenges and developments. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 2601-15	2.8	80
152	ABCA7 Deficiency Accelerates Amyloid- β Generation and Alzheimer's Neuronal Pathology. <i>Journal of Neuroscience</i> , 2016 , 36, 3848-59	6.6	80
151	Caloric restriction results in phospholipid depletion, membrane remodeling, and triacylglycerol accumulation in murine myocardium. <i>Biochemistry</i> , 2004 , 43, 15584-94	3.2	79
150	Impaired mitochondrial fat oxidation induces adaptive remodeling of muscle metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3300-9	11.5	78
149	Systematic analysis of choline-containing phospholipids using multi-dimensional mass spectrometry-based shotgun lipidomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 2924-36	3.2	77
148	Characterization of oxysterols by electrospray ionization tandem mass spectrometry after one-step derivatization with dimethylglycine. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 141-52	2.2	73
147	2016,		72
146	Identification and quantitation of unsaturated fatty acid isomers by electrospray ionization tandem mass spectrometry: a shotgun lipidomics approach. <i>Analytical Chemistry</i> , 2011 , 83, 4243-50	7.8	69
145	Macrophage CGI-58 deficiency activates ROS-inflammasome pathway to promote insulin resistance in mice. <i>Cell Reports</i> , 2014 , 7, 223-35	10.6	68
144	Cardiolipin Synthesis in Brown and Beige Fat Mitochondria Is Essential for Systemic Energy Homeostasis. <i>Cell Metabolism</i> , 2018 , 28, 159-174.e11	24.6	67
143	A role for peroxisome proliferator-activated receptor β coactivator 1 (PGC-1) in the regulation of cardiac mitochondrial phospholipid biosynthesis. <i>Journal of Biological Chemistry</i> , 2014 , 289, 2250-9	5.4	66
142	Selective desorption/ionization of sulfatides by MALDI-MS facilitated using 9-aminoacridine as matrix. <i>Journal of Lipid Research</i> , 2010 , 51, 1599-609	6.3	65
141	A review of lipidomic technologies applicable to sphingolipidomics and their relevant applications. <i>European Journal of Lipid Science and Technology</i> , 2009 , 111, 39-52	3	64

140	Specific changes of sulfatide levels in individuals with pre-clinical Alzheimer's disease: an early event in disease pathogenesis. <i>Journal of Neurochemistry</i> , 2013 , 127, 733-8	6	63
139	Shotgun lipidomics identifies a paired rule for the presence of isomeric ether phospholipid molecular species. <i>PLoS ONE</i> , 2007 , 2, e1368	3.7	61
138	Potential Adverse Effects of Prolonged Sevoflurane Exposure on Developing Monkey Brain: From Abnormal Lipid Metabolism to Neuronal Damage. <i>Toxicological Sciences</i> , 2015 , 147, 562-72	4.4	59
137	Abundance of triacylglycerols in ganglia and their depletion in diabetic mice: implications for the role of altered triacylglycerols in diabetic neuropathy. <i>Journal of Neurochemistry</i> , 2006 , 97, 1288-300	6	58
136	Cardiolipin remodeling in diabetic heart. <i>Chemistry and Physics of Lipids</i> , 2014 , 179, 75-81	3.7	57
135	Tutorial on lipidomics. <i>Analytica Chimica Acta</i> , 2019 , 1061, 28-41	6.6	56
134	Characterization and quantification of diacylglycerol species in biological extracts after one-step derivatization: a shotgun lipidomics approach. <i>Analytical Chemistry</i> , 2014 , 86, 2146-55	7.8	55
133	Dynamic simulation of cardiolipin remodeling: greasing the wheels for an interpretative approach to lipidomics. <i>Journal of Lipid Research</i> , 2010 , 51, 2153-70	6.3	55
132	Apolipoprotein E mediates sulfatide depletion in animal models of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2010 , 31, 1188-96	5.6	55
131	Targeting DGAT1 Ameliorates Glioblastoma by Increasing Fat Catabolism and Oxidative Stress. <i>Cell Metabolism</i> , 2020 , 32, 229-242.e8	24.6	51
130	Identification of naturally occurring fatty acids of the myelin sheath that resolve neuroinflammation. <i>Science Translational Medicine</i> , 2012 , 4, 137ra73	17.5	51
129	Applications of mass spectrometry for cellular lipid analysis. <i>Molecular BioSystems</i> , 2015 , 11, 698-713		50
128	Shotgun lipidomics analysis of 4-hydroxyalkenal species directly from lipid extracts after one-step in situ derivatization. <i>Analytical Chemistry</i> , 2012 , 84, 4580-6	7.8	50
127	Functional lipidomics: the roles of specialized lipids and lipid-protein interactions in modulating neuronal function. <i>Prostaglandins and Other Lipid Mediators</i> , 2005 , 77, 52-64	3.7	50
126	Shotgun lipidomics in substantiating lipid peroxidation in redox biology: Methods and applications. <i>Redox Biology</i> , 2017 , 12, 946-955	11.3	49
125	Quantitative profiling and pattern analysis of triacylglycerol species in Arabidopsis seeds by electrospray ionization mass spectrometry. <i>Plant Journal</i> , 2014 , 77, 160-72	6.9	48
124	Semisynthesis and purification of homogeneous plasmenylcholine molecular species. <i>Analytical Biochemistry</i> , 1992 , 200, 119-24	3.1	47
123	Sex and APOE ϵ genotype modify the Alzheimer's disease serum metabolome. <i>Nature Communications</i> , 2020 , 11, 1148	17.4	46

122	Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver. <i>Journal of Lipid Research</i> , 2014 , 55, 2458-70	6.3	46
121	Dramatic accumulation of triglycerides and precipitation of cardiac hemodynamic dysfunction during brief caloric restriction in transgenic myocardium expressing human calcium-independent phospholipase A2gamma. <i>Journal of Biological Chemistry</i> , 2007 , 282, 9216-27	5.4	46
120	Sequential ordered fatty acid alpha oxidation and Delta9 desaturation are major determinants of lipid storage and utilization in differentiating adipocytes. <i>Biochemistry</i> , 2004 , 43, 5033-44	3.2	46
119	Effect of high fat diet on phenotype, brain transcriptome and lipidome in Alzheimer's model mice. <i>Scientific Reports</i> , 2017 , 7, 4307	4.9	45
118	Multidimensional mass spectrometry-based shotgun lipidomics. <i>Methods in Molecular Biology</i> , 2014 , 1198, 203-20	1.4	45
117	Comprehensive and quantitative analysis of lysophospholipid molecular species present in obese mouse liver by shotgun lipidomics. <i>Analytical Chemistry</i> , 2015 , 87, 4879-87	7.8	41
116	MiR-124 acts as a tumor suppressor by inhibiting the expression of sphingosine kinase 1 and its downstream signaling in head and neck squamous cell carcinoma. <i>Oncotarget</i> , 2017 , 8, 25005-25020	3.3	41
115	Phosphatidylethanolamine made in the inner mitochondrial membrane is essential for yeast cytochrome bc complex function. <i>Nature Communications</i> , 2019 , 10, 1432	17.4	40
114	Accumulation of unsaturated acylcarnitine molecular species during acute myocardial ischemia: metabolic compartmentalization of products of fatty acyl chain elongation in the acylcarnitine pool. <i>Biochemistry</i> , 1996 , 35, 7903-9	3.2	40
113	MicroRNA-211 Regulates Oxidative Phosphorylation and Energy Metabolism in Human Vitiligo. <i>Journal of Investigative Dermatology</i> , 2017 , 137, 1965-1974	4.3	39
112	A Soluble Fluorescent Binding Assay Reveals PIP Antagonism of TREK-1 Channels. <i>Cell Reports</i> , 2017 , 20, 1287-1294	10.6	39
111	Bendavia restores mitochondrial energy metabolism gene expression and suppresses cardiac fibrosis in the border zone of the infarcted heart. <i>Life Sciences</i> , 2015 , 141, 170-8	6.8	38
110	Cytochrome reductase and the control of lipid metabolism and healthspan. <i>Npj Aging and Mechanisms of Disease</i> , 2016 , 2, 16006	5.5	38
109	Furan fatty acids - Beneficial or harmful to health?. <i>Progress in Lipid Research</i> , 2017 , 68, 119-137	14.3	36
108	Mitochondria-targeted antioxidant prevents cardiac dysfunction induced by tafazzin gene knockdown in cardiac myocytes. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 654198	6.7	36
107	Simulation of triacylglycerol ion profiles: bioinformatics for interpretation of triacylglycerol biosynthesis. <i>Journal of Lipid Research</i> , 2013 , 54, 1023-32	6.3	36
106	MondoA coordinately regulates skeletal myocyte lipid homeostasis and insulin signaling. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3567-79	15.9	36
105	High-fat diet-induced upregulation of exosomal phosphatidylcholine contributes to insulin resistance. <i>Nature Communications</i> , 2021 , 12, 213	17.4	36

104	A role for long-chain acyl-CoA synthetase-4 (ACSL4) in diet-induced phospholipid remodeling and obesity-associated adipocyte dysfunction. <i>Molecular Metabolism</i> , 2018 , 9, 43-56	8.8	35
103	Oxidative stress leads to reduction of plasmalogen serving as a novel biomarker for systemic lupus erythematosus. <i>Free Radical Biology and Medicine</i> , 2016 , 101, 475-481	7.8	35
102	Bis(monoacylglycero)phosphate: a secondary storage lipid in the gangliosidoses. <i>Journal of Lipid Research</i> , 2015 , 56, 1006-13	6.3	34
101	Endosomes and lysosomes play distinct roles in sulfatide-induced neuroblastoma apoptosis: potential mechanisms contributing to abnormal sulfatide metabolism in related neuronal diseases. <i>Biochemical Journal</i> , 2008 , 410, 81-92	3.8	34
100	Improved Butanol-Methanol (BUME) Method by Replacing Acetic Acid for Lipid Extraction of Biological Samples. <i>Lipids</i> , 2016 , 51, 887-96	1.6	29
99	Accurate mass searching of individual lipid species candidates from high-resolution mass spectra for shotgun lipidomics. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 2201-10	2.2	29
98	The pathogenic implication of abnormal interaction between apolipoprotein E isoforms, amyloid-beta peptides, and sulfatides in Alzheimer's disease. <i>Molecular Neurobiology</i> , 2010 , 41, 97-106	6.2	28
97	Comprehensive and Quantitative Analysis of Polyphosphoinositide Species by Shotgun Lipidomics Revealed Their Alterations in db/db Mouse Brain. <i>Analytical Chemistry</i> , 2016 , 88, 12137-12144	7.8	28
96	Strategies to Improve/Eliminate the Limitations in Shotgun Lipidomics. <i>Proteomics</i> , 2020 , 20, e1900070	4.8	27
95	Targeted metabolomics and medication classification data from participants in the ADNI1 cohort. <i>Scientific Data</i> , 2017 , 4, 170140	8.2	26
94	Enhanced coverage of lipid analysis and imaging by matrix-assisted laser desorption/ionization mass spectrometry via a strategy with an optimized mixture of matrices. <i>Analytica Chimica Acta</i> , 2018 , 1000, 155-162	6.6	26
93	Strategy for Quantitative Analysis of Isomeric Bis(monoacylglycero)phosphate and Phosphatidylglycerol Species by Shotgun Lipidomics after One-Step Methylation. <i>Analytical Chemistry</i> , 2017 , 89, 8490-8495	7.8	26
92	Hepatic ketogenic insufficiency reprograms hepatic glycogen metabolism and the lipidome. <i>JCI Insight</i> , 2018 , 3,	9.9	26
91	Lipidomics revealed idiopathic pulmonary fibrosis-induced hepatic lipid disorders corrected with treatment of baicalin in a murine model. <i>AAPS Journal</i> , 2015 , 17, 711-22	3.7	25
90	The mitochondria-targeted peptide SS-31 binds lipid bilayers and modulates surface electrostatics as a key component of its mechanism of action. <i>Journal of Biological Chemistry</i> , 2020 , 295, 7452-7469	5.4	25
89	High-Throughput Lipidomic and Transcriptomic Analysis To Compare SP2/0, CHO, and HEK-293 Mammalian Cell Lines. <i>Analytical Chemistry</i> , 2017 , 89, 1477-1485	7.8	24
88	Novel molecular insights into the critical role of sulfatide in myelin maintenance/function. <i>Journal of Neurochemistry</i> , 2016 , 139, 40-54	6	24
87	Discovering a critical transition state from nonalcoholic hepatosteatosis to nonalcoholic steatohepatitis by lipidomics and dynamical network biomarkers. <i>Journal of Molecular Cell Biology</i> , 2016 , 8, 195-206	6.3	24

86	Concordant peripheral lipidome signatures in two large clinical studies of Alzheimer's disease. <i>Nature Communications</i> , 2020 , 11, 5698	17.4	23
85	Lipid profile of platelets and platelet-derived microparticles in ovarian cancer. <i>BBA Clinical</i> , 2016 , 6, 76-81		23
84	Shotgun Lipidomics Revealed Altered Profiles of Serum Lipids in Systemic Lupus Erythematosus Closely Associated with Disease Activity. <i>Biomolecules</i> , 2018 , 8,	5.9	23
83	Impaired Mitochondrial Energetics Characterize Poor Early Recovery of Muscle Mass Following Hind Limb Unloading in Old Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 1313-1322	6.4	22
82	Chemical and magnetic inequivalence of glycerol protons in individual subclasses of choline glycerophospholipids: implications for subclass-specific changes in membrane conformational states. <i>Journal of the American Chemical Society</i> , 1991 , 113, 7104-7109	16.4	22
81	Profiling and relative quantification of phosphatidylethanolamine based on acetone stable isotope derivatization. <i>Analytica Chimica Acta</i> , 2016 , 902, 142-153	6.6	18
80	A practical approach for determination of mass spectral baselines. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 2090-9	3.5	18
79	Recommendations for Good Practice in Mass Spectrometry-Based Lipidomics. <i>Journal of Lipid Research</i> , 2021 , 100138	6.3	18
78	Synthesis and biological evaluation of antimetastatic agents predicated upon dihydromotuporamine C and its carbocyclic derivatives. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 4023-34	8.3	17
77	APOE2 orchestrated differences in transcriptomic and lipidomic profiles of postmortem AD brain. <i>Alzheimer's Research and Therapy</i> , 2019 , 11, 113	9	17
76	Novel strategies for enhancing shotgun lipidomics for comprehensive analysis of cellular lipidomes. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 120,	14.6	17
75	Oligomeric amyloid-beta induces MAPK-mediated activation of brain cytosolic and calcium-independent phospholipase A in a spatial-specific manner. <i>Acta Neuropathologica Communications</i> , 2017 , 5, 56	7.3	16
74	The cardiolipin-binding peptide elamipretide mitigates fragmentation of cristae networks following cardiac ischemia reperfusion in rats. <i>Communications Biology</i> , 2020 , 3, 389	6.7	16
73	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021 , 12, 4771	17.4	16
72	Sensitive analysis of fatty acid esters of hydroxy fatty acids in biological lipid extracts by shotgun lipidomics after one-step derivatization. <i>Analytica Chimica Acta</i> , 2020 , 1105, 105-111	6.6	15
71	MondoA drives muscle lipid accumulation and insulin resistance. <i>JCI Insight</i> , 2019 , 5,	9.9	14
70	An update on lipidomics: progress and application in biomarker and drug development. <i>Current Opinion in Molecular Therapeutics</i> , 2007 , 9, 586-91		13
69	Restoring mitochondrial superoxide levels with elamipretide (MTP-131) protects mice against progression of diabetic kidney disease. <i>Journal of Biological Chemistry</i> , 2020 , 295, 7249-7260	5.4	12

68	Analytical challenges of shotgun lipidomics at different resolution of measurements. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 121, 115697-115697	14.6	12
67	Phospholipids of APOE lipoproteins activate microglia in an isoform-specific manner in preclinical models of Alzheimer's disease. <i>Nature Communications</i> , 2021 , 12, 3416	17.4	12
66	Lipidomics for precision medicine and metabolism: A personal view. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017 , 1862, 804-807	5	11
65	Lipidomics reveals a systemic energy deficient state that precedes neurotoxicity in neonatal monkeys after sevoflurane exposure. <i>Analytica Chimica Acta</i> , 2018 , 1037, 87-96	6.6	11
64	Insulin resistance is mechanistically linked to hepatic mitochondrial remodeling in non-alcoholic fatty liver disease. <i>Molecular Metabolism</i> , 2021 , 45, 101154	8.8	11
63	Sphingolipid Metabolic Pathway Impacts Thiazide Diuretics Blood Pressure Response: Insights From Genomics, Metabolomics, and Lipidomics. <i>Journal of the American Heart Association</i> , 2017 , 7,	6	10
62	Lipidomic analysis reveals significant lipogenesis and accumulation of lipotoxic components in ob/ob mouse organs. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2018 , 136, 161-169	2.8	9
61	RECOGNITION AND AVOIDANCE OF ION SOURCE-GENERATED ARTIFACTS IN LIPIDOMICS ANALYSIS. <i>Mass Spectrometry Reviews</i> , 2022 , 41, 15-31	11	9
60	Overview of Lipidomic Analysis of Triglyceride Molecular Species in Biological Lipid Extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 8895-8909	5.7	9
59	Lipidomics Profiling of Myelin. <i>Methods in Molecular Biology</i> , 2018 , 1791, 37-50	1.4	8
58	Early disruption of nerve mitochondrial and myelin lipid homeostasis in obesity-induced diabetes. <i>JCI Insight</i> , 2020 , 5,	9.9	8
57	Towards precision medicine: defining and characterizing adipose tissue dysfunction to identify early immunometabolic risk in symptom-free adults from the GEMM family study. <i>Adipocyte</i> , 2020 , 9, 153-169	3.2	7
56	Reversible deficits in apical transporter trafficking associated with deficiency in diacylglycerol acyltransferase. <i>Traffic</i> , 2018 , 19, 879-892	5.7	7
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