

# Xianlin Han

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	APOE $\epsilon$ resilience for Alzheimer's disease is mediated by plasma lipid species: Analysis of three independent cohort studies.. <i>Alzheimer's and Dementia</i> , <b>2022</b> ,	1.2	2
210	Enhanced defense against ferroptosis ameliorates cognitive impairment and reduces neurodegeneration in 5xFAD mice.. <i>Free Radical Biology and Medicine</i> , <b>2022</b> , 180, 1-12	7.8	2
209	RECOGNITION AND AVOIDANCE OF ION SOURCE-GENERATED ARTIFACTS IN LIPIDOMICS ANALYSIS. <i>Mass Spectrometry Reviews</i> , <b>2022</b> , 41, 15-31	11	9
208	Acute aerobic exercise reveals FAHFAs distinguish the metabolomes of overweight and normal weight runners.. <i>JCI Insight</i> , <b>2022</b> ,	9.9	1
207	Comprehensive genetic analysis of the human lipidome identifies loci associated with lipid homeostasis with links to coronary artery disease. <i>Nature Communications</i> , <b>2022</b> , 13,	17.4	5
206	The Foundations and Development of Lipidomics.. <i>Journal of Lipid Research</i> , <b>2021</b> , 100164	6.3	5
205	Integrative metabolomics-genomics approach reveals key metabolic pathways and regulators of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2021</b> ,	1.2	3
204	A Lipidomics Atlas of Selected Sphingolipids in Multiple Mouse Nervous System Regions. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
203	Recommendations for Good Practice in Mass Spectrometry-Based Lipidomics. <i>Journal of Lipid Research</i> , <b>2021</b> , 100138	6.3	18
202	A Detergent-Free Method for Preparation of Lipid Rafts for the Shotgun Lipidomics Study. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2187, 27-35	1.4	1
201	Myeloid-Specific Deficiency of Reduces Inflammation by Remodeling Phospholipids and Reducing Production of Arachidonic Acid-Derived Proinflammatory Lipid Mediators. <i>Journal of Immunology</i> , <b>2021</b> , 207, 2744-2753	5.3	1
200	Insulin resistance is mechanistically linked to hepatic mitochondrial remodeling in non-alcoholic fatty liver disease. <i>Molecular Metabolism</i> , <b>2021</b> , 45, 101154	8.8	11
199	Phospholipids of APOE lipoproteins activate microglia in an isoform-specific manner in preclinical models of Alzheimer's disease. <i>Nature Communications</i> , <b>2021</b> , 12, 3416	17.4	12
198	Mass Spectrometry-Based Shotgun Lipidomics for Cancer Research. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1280, 39-55	3.6	0
197	Serum metabolites associated with brain amyloid beta deposition, cognition and dementia progression. <i>Brain Communications</i> , <b>2021</b> , 3, fcb139	4.5	1
196	Lipid Metabolism and Lipidomics Applications in Cancer Research. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1316, 1-24	3.6	0
195	Oxidative stress-induced aberrant lipid metabolism is an important causal factor for dysfunction of immunocytes from patients with systemic lupus erythematosus. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 163, 210-219	7.8	6

194	Lipidomics Revealed Aberrant Metabolism of Lipids Including FAHFAs in Renal Tissue in the Progression of Lupus Nephritis in a Murine Model. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	6
193	Overview of Lipidomic Analysis of Triglyceride Molecular Species in Biological Lipid Extracts. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 8895-8909	5.7	9
192	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , <b>2021</b> , 12, 4771	17.4	16
191	Excess dietary carbohydrate affects mitochondrial integrity as observed in brown adipose tissue. <i>Cell Reports</i> , <b>2021</b> , 36, 109488	10.6	1
190	Adult-onset CNS myelin sulfatide deficiency is sufficient to cause Alzheimer's disease-like neuroinflammation and cognitive impairment. <i>Molecular Neurodegeneration</i> , <b>2021</b> , 16, 64	19	6
189	Quantitative Analysis of Polyphosphoinositide, Bis(monoacylglycero)phosphate, and Phosphatidylglycerol Species by Shotgun Lipidomics After Methylation. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2306, 77-91	1.4	2
188	High-fat diet-induced upregulation of exosomal phosphatidylcholine contributes to insulin resistance. <i>Nature Communications</i> , <b>2021</b> , 12, 213	17.4	36
187	Identification of concordant plasma lipid signatures in Alzheimer's disease: Validation between two independent studies of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e042275	1.2	
186	Serum metabolome informs neuroimaging biomarkers for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e045596	1.2	
185	Genome-wide study of the human lipidome and links to Alzheimer's disease risk. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e045600	1.2	0
184	Integrative metabolomics-genomics approach reveals that pathways related to the metabolism of acylcarnitines and amines are new potential targets of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e045610	1.2	0
183	Targeting DGAT1 Ameliorates Glioblastoma by Increasing Fat Catabolism and Oxidative Stress. <i>Cell Metabolism</i> , <b>2020</b> , 32, 229-242.e8	24.6	51
182	Sex and APOE $\epsilon$ genotype modify the Alzheimer's disease serum metabolome. <i>Nature Communications</i> , <b>2020</b> , 11, 1148	17.4	46
181	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> , <b>2020</b> , 1105, 105-111	6.6	15
180	Restoring mitochondrial superoxide levels with elamipretide (MTP-131) protects mice against progression of diabetic kidney disease. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 7249-7260	5.4	12
179	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> , <b>2020</b> , 295, 7452-7469	5.4	25
178	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> , <b>2020</b> , 9, 153-169	3.2	7
177	Early disruption of nerve mitochondrial and myelin lipid homeostasis in obesity-induced diabetes. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	8

176	Leptin Receptors in RIP-Cre Neurons Mediate Anti-dyslipidemia Effects of Leptin in Insulin-Deficient Mice. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 588447	5.7	3
175	The cardiolipin-binding peptide elamipretide mitigates fragmentation of cristae networks following cardiac ischemia reperfusion in rats. <i>Communications Biology</i> , <b>2020</b> , 3, 389	6.7	16
174	Concordant peripheral lipidome signatures in two large clinical studies of Alzheimer's disease. <i>Nature Communications</i> , <b>2020</b> , 11, 5698	17.4	23
173	Analysis of monohexosyl alkyl (alkenyl)-acyl glycerol in brain samples by shotgun lipidomics. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1129, 143-149	6.6	2
172	Strategies to Improve/Eliminate the Limitations in Shotgun Lipidomics. <i>Proteomics</i> , <b>2020</b> , 20, e1900070	4.8	27
171	Phosphatidylethanolamine made in the inner mitochondrial membrane is essential for yeast cytochrome bc complex function. <i>Nature Communications</i> , <b>2019</b> , 10, 1432	17.4	40
170	Analytical challenges of shotgun lipidomics at different resolution of measurements. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 121, 115697-115697	14.6	12
169	MondoA drives muscle lipid accumulation and insulin resistance. <i>JCI Insight</i> , <b>2019</b> , 5,	9.9	14
168	Tutorial on lipidomics. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1061, 28-41	6.6	56
167	APOE2 orchestrated differences in transcriptomic and lipidomic profiles of postmortem AD brain. <i>Alzheimer's Research and Therapy</i> , <b>2019</b> , 11, 113	9	17
166	Novel strategies for enhancing shotgun lipidomics for comprehensive analysis of cellular lipidomes. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 120,	14.6	17
165	Altered bile acid profile associates with cognitive impairment in Alzheimer's disease-An emerging role for gut microbiome. <i>Alzheimer's and Dementia</i> , <b>2019</b> , 15, 76-92	1.2	208
164	Altered bile acid profile in mild cognitive impairment and Alzheimer's disease: Relationship to neuroimaging and CSF biomarkers. <i>Alzheimer's and Dementia</i> , <b>2019</b> , 15, 232-244	1.2	95
163	A role for long-chain acyl-CoA synthetase-4 (ACSL4) in diet-induced phospholipid remodeling and obesity-associated adipocyte dysfunction. <i>Molecular Metabolism</i> , <b>2018</b> , 9, 43-56	8.8	35
162	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> , <b>2018</b> , 73, 1313-1322	6.4	22
161	Lipidomic analysis reveals significant lipogenesis and accumulation of lipotoxic components in ob/ob mouse organs. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2018</b> , 136, 161-169	2.8	9
160	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> , <b>2018</b> , 1000, 155-162	6.6	26
159	Lipidomics Profiling of Myelin. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1791, 37-50	1.4	8

158	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 2001-2017	6.3	146
157	Lipidomics Reveals Changes in Metabolism, Indicative of Anesthetic-Induced Neurotoxicity in Developing Brains. <i>Chemical Research in Toxicology</i> , <b>2018</b> , 31, 825-835	4	1
156	Reversible deficits in apical transporter trafficking associated with deficiency in diacylglycerol acyltransferase. <i>Traffic</i> , <b>2018</b> , 19, 879-892	5.7	7
155	Lipidomics reveals a systemic energy deficient state that precedes neurotoxicity in neonatal monkeys after sevoflurane exposure. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1037, 87-96	6.6	11
154	F3-02-01: ALTERED BILE ACID METABOLITES IN MILD COGNITIVE IMPAIRMENT AND ALZHEIMER'S DISEASE: RELATION TO NEUROIMAGING AND CSF BIOMARKERS <b>2018</b> , 14, P997-P997		
153	Shotgun Lipidomics Revealed Altered Profiles of Serum Lipids in Systemic Lupus Erythematosus Closely Associated with Disease Activity. <i>Biomolecules</i> , <b>2018</b> , 8,	5.9	23
152	Deep Multi-OMICs and Multi-Tissue Characterization in a Pre- and Postprandial State in Human Volunteers: The GEMM Family Study Research Design. <i>Genes</i> , <b>2018</b> , 9,	4.2	4
151	Hepatic ketogenic insufficiency reprograms hepatic glycogen metabolism and the lipidome. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	26
150	Cardiolipin Synthesis in Brown and Beige Fat Mitochondria Is Essential for Systemic Energy Homeostasis. <i>Cell Metabolism</i> , <b>2018</b> , 28, 159-174.e11	24.6	67
149	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> , <b>2017</b> , 36, 693-714	11	146
148	Lipidomics for precision medicine and metabolism: A personal view. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2017</b> , 1862, 804-807	5	11
147	MicroRNA-211 Regulates Oxidative Phosphorylation and Energy Metabolism in Human Vitiligo. <i>Journal of Investigative Dermatology</i> , <b>2017</b> , 137, 1965-1974	4.3	39
146	Shotgun lipidomics in substantiating lipid peroxidation in redox biology: Methods and applications. <i>Redox Biology</i> , <b>2017</b> , 12, 946-955	11.3	49
145	Metabolic network failures in Alzheimer's disease: A biochemical road map. <i>Alzheimer's and Dementia</i> , <b>2017</b> , 13, 965-984	1.2	201
144	High-Throughput Lipidomic and Transcriptomic Analysis To Compare SP2/0, CHO, and HEK-293 Mammalian Cell Lines. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1477-1485	7.8	24
143	Targeted metabolomics and medication classification data from participants in the ADNI1 cohort. <i>Scientific Data</i> , <b>2017</b> , 4, 170140	8.2	26
142	Furan fatty acids - Beneficial or harmful to health?. <i>Progress in Lipid Research</i> , <b>2017</b> , 68, 119-137	14.3	36
141	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> , <b>2017</b> , 5, 56	7.3	16

140	Sphingolipid Metabolic Pathway Impacts Thiazide Diuretics Blood Pressure Response: Insights From Genomics, Metabolomics, and Lipidomics. <i>Journal of the American Heart Association</i> , <b>2017</b> , 7,	6	10
139	Strategy for Quantitative Analysis of Isomeric Bis(monoacylglycero)phosphate and Phosphatidylglycerol Species by Shotgun Lipidomics after One-Step Methylation. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8490-8495	7.8	26
138	A Soluble Fluorescent Binding Assay Reveals PIP Antagonism of TREK-1 Channels. <i>Cell Reports</i> , <b>2017</b> , 20, 1287-1294	10.6	39
137	Effect of high fat diet on phenotype, brain transcriptome and lipidome in Alzheimer's model mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 4307	4.9	45
136	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> , <b>2017</b> , 8, 25005-25020	3.3	41
135	<b>2016</b> ,		72
134	Sample Preparation <b>2016</b> , 281-304		
133	Novel molecular insights into the critical role of sulfatide in myelin maintenance/function. <i>Journal of Neurochemistry</i> , <b>2016</b> , 139, 40-54	6	24
132	Lipids and Lipidomics <b>2016</b> , 1-20		2
131	Lipidomics for Health and Disease <b>2016</b> , 377-404		
130	Oxidative stress leads to reduction of plasmalogen serving as a novel biomarker for systemic lupus erythematosus. <i>Free Radical Biology and Medicine</i> , <b>2016</b> , 101, 475-481	7.8	35
129	Wiley Series on Mass Spectrometry <b>2016</b> , 1-2		1
128	Improved Butanol-Methanol (BUME) Method by Replacing Acetic Acid for Lipid Extraction of Biological Samples. <i>Lipids</i> , <b>2016</b> , 51, 887-96	1.6	29
127	Discovering a critical transition state from nonalcoholic hepatosteatosis to nonalcoholic steatohepatitis by lipidomics and dynamical network biomarkers. <i>Journal of Molecular Cell Biology</i> , <b>2016</b> , 8, 195-206	6.3	24
126	Profiling and relative quantification of phosphatidylethanolamine based on acetone stable isotope derivatization. <i>Analytica Chimica Acta</i> , <b>2016</b> , 902, 142-153	6.6	18
125	Novel advances in shotgun lipidomics for biology and medicine. <i>Progress in Lipid Research</i> , <b>2016</b> , 61, 83-103	14.3	170
124	MondoA coordinately regulates skeletal myocyte lipid homeostasis and insulin signaling. <i>Journal of Clinical Investigation</i> , <b>2016</b> , 126, 3567-79	15.9	36
123	Cytochrome reductase and the control of lipid metabolism and healthspan. <i>Npj Aging and Mechanisms of Disease</i> , <b>2016</b> , 2, 16006	5.5	38

122	Comprehensive and Quantitative Analysis of Polyphosphoinositide Species by Shotgun Lipidomics Revealed Their Alterations in db/db Mouse Brain. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 12137-12144	7.8	28
121	P3-157: Indices of Plasmalogen Biosynthesis in ADNI-1 Baseline Serum Samples: Association with Progression to Dementia in Subjects with Mild Cognitive Impairment <b>2016</b> , 12, P879-P880		1
120	F1-02-01: The Alzheimer's Metabolome: Relationship to Pathological Markers and Cognitive Decline in the Alzheimer's Disease Neuroimaging Initiative (ADNI) <b>2016</b> , 12, P164-P164		
119	F1-02-02: Genetic Influence on Levels of Targeted Metabolites Associated with Alzheimer's Disease <b>2016</b> , 12, P164-P165		
118	ABCA7 Deficiency Accelerates Amyloid- $\beta$ Generation and Alzheimer's Neuronal Pathology. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 3848-59	6.6	80
117	Lipidomics Analyses Reveal Temporal and Spatial Lipid Organization and Uncover Daily Oscillations in Intracellular Organelles. <i>Molecular Cell</i> , <b>2016</b> , 62, 636-48	17.6	89
116	Fragmentation Patterns of Fatty Acids and Modified Fatty Acids <b>2016</b> , 229-242		1
115	FRAGMENTATION PATTERNS OF OTHER BIOACTIVE LIPID METABOLITES <b>2016</b> , 243-258		
114	Quantification of Individual Lipid Species in Lipidomics <b>2016</b> , 305-334		1
113	Factors Affecting Accurate Quantification of Lipids <b>2016</b> , 335-352		1
112	Data Quality Control and Interpretation <b>2016</b> , 353-376		
111	Plant Lipidomics <b>2016</b> , 405-426		0
110	Lipidomics on Yeast and Mycobacterium Tuberculosis <b>2016</b> , 427-442		
109	Mass Spectrometry for Lipidomics <b>2016</b> , 21-52		0
108	Lipidomics on Cell Organelle and Subcellular Membranes <b>2016</b> , 443-458		
107	Mass Spectrometry-Based Lipidomics Approaches <b>2016</b> , 53-88		2
106	Variables in Mass Spectrometry for Lipidomics <b>2016</b> , 89-120		
105	Bioinformatics in Lipidomics <b>2016</b> , 121-150		1

104	Fragmentation Patterns Of Glycerophospholipids <b>2016</b> , 173-200		
103	Fragmentation Patterns of Sphingolipids <b>2016</b> , 201-216		
102	Fragmentation Patterns of Glycerolipids <b>2016</b> , 217-228		1
101	Lipidomics: Techniques, Applications, and Outcomes Related to Biomedical Sciences. <i>Trends in Biochemical Sciences</i> , <b>2016</b> , 41, 954-969	10.3	280
100	Imaging Mass Spectrometry of Lipids <b>2016</b> , 259-280		
99	Lipid profile of platelets and platelet-derived microparticles in ovarian cancer. <i>BBA Clinical</i> , <b>2016</b> , 6, 76-81		23
98	Lipidomics for studying metabolism. <i>Nature Reviews Endocrinology</i> , <b>2016</b> , 12, 668-679	15.2	290
97	Applications of mass spectrometry for cellular lipid analysis. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 698-713		50
96	Lipidomics revealed idiopathic pulmonary fibrosis-induced hepatic lipid disorders corrected with treatment of baicalin in a murine model. <i>AAPS Journal</i> , <b>2015</b> , 17, 711-22	3.7	25
95	Comprehensive and quantitative analysis of lysophospholipid molecular species present in obese mouse liver by shotgun lipidomics. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4879-87	7.8	41
94	Bis(monoacylglycero)phosphate: a secondary storage lipid in the gangliosidoses. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 1006-13	6.3	34
93	Bendavia restores mitochondrial energy metabolism gene expression and suppresses cardiac fibrosis in the border zone of the infarcted heart. <i>Life Sciences</i> , <b>2015</b> , 141, 170-8	6.8	38
92	Potential Adverse Effects of Prolonged Sevoflurane Exposure on Developing Monkey Brain: From Abnormal Lipid Metabolism to Neuronal Damage. <i>Toxicological Sciences</i> , <b>2015</b> , 147, 562-72	4.4	59
91	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> , <b>2015</b> , 112, E3300-9	11.5	78
90	O4-12-06: The Alzheimer's metabolome: Identification of novel markers and treatment targets <b>2015</b> , 11, P301-P302		
89	Characterization and quantification of diacylglycerol species in biological extracts after one-step derivatization: a shotgun lipidomics approach. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2146-55	7.8	55
88	Macrophage CGI-58 deficiency activates ROS-inflammasome pathway to promote insulin resistance in mice. <i>Cell Reports</i> , <b>2014</b> , 7, 223-35	10.6	68
87	Synthesis and biological evaluation of antimetastatic agents predicated upon dihydromotuporamine C and its carbocyclic derivatives. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 4023-34	8.3	17



86	P4-237: WHOLE GENE-BASED ASSOCIATION OF BASELINE PLASMA HOMOCYSTEINE IN THE ADNI-1 COHORT <b>2014</b> , 10, P873-P874		
85	Mitochondria-targeted antioxidant prevents cardiac dysfunction induced by tafazzin gene knockdown in cardiac myocytes. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2014</b> , 2014, 654198	6.7	36
84	The functional characterization of long noncoding RNA SPRY4-IT1 in human melanoma cells. <i>Oncotarget</i> , <b>2014</b> , 5, 8959-69	3.3	123
83	Unremodeled and remodeled cardiolipin are functionally indistinguishable in yeast. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 1768-78	5.4	81
82	Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 2458-70	6.3	46
81	Quantitative profiling and pattern analysis of triacylglycerol species in Arabidopsis seeds by electrospray ionization mass spectrometry. <i>Plant Journal</i> , <b>2014</b> , 77, 160-72	6.9	48
80	Accurate mass searching of individual lipid species candidates from high-resolution mass spectra for shotgun lipidomics. <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 2201-10	2.2	29
79	A role for peroxisome proliferator-activated receptor $\alpha$ coactivator 1 (PGC-1) in the regulation of cardiac mitochondrial phospholipid biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 2250-9	5.4	66
78	Circadian clocks and feeding time regulate the oscillations and levels of hepatic triglycerides. <i>Cell Metabolism</i> , <b>2014</b> , 19, 319-30	24.6	239
77	Cardiolipin remodeling in diabetic heart. <i>Chemistry and Physics of Lipids</i> , <b>2014</b> , 179, 75-81	3.7	57
76	Multidimensional mass spectrometry-based shotgun lipidomics. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1198, 203-20	1.4	45
75	Fatty acidomics: global analysis of lipid species containing a carboxyl group with a charge-remote fragmentation-assisted approach. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 9312-20	7.8	119
74	Dysfunctional cardiac mitochondrial bioenergetic, lipidomic, and signaling in a murine model of Barth syndrome. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 1312-25	6.3	83
73	Specific changes of sulfatide levels in individuals with pre-clinical Alzheimer's disease: an early event in disease pathogenesis. <i>Journal of Neurochemistry</i> , <b>2013</b> , 127, 733-8	6	63
72	Simulation of triacylglycerol ion profiles: bioinformatics for interpretation of triacylglycerol biosynthesis. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 1023-32	6.3	36
71	Multi-dimensional mass spectrometry-based shotgun lipidomics and novel strategies for lipidomic analyses. <i>Mass Spectrometry Reviews</i> , <b>2012</b> , 31, 134-78	11	418
70	Multidimensional Mass Spectrometry-Based Shotgun Lipidomics <b>2012</b> , 53-71		1
69	The Tumor Mitochondrial Lipidome and Respiratory Bioenergetic Insufficiency <b>2012</b> , 297-317		

68	Shotgun lipidomics analysis of 4-hydroxyalkenal species directly from lipid extracts after one-step in situ derivatization. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4580-6	7.8	50
67	Identification of naturally occurring fatty acids of the myelin sheath that resolve neuroinflammation. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 137ra73	17.5	51
66	Accurate quantification of lipid species by electrospray ionization mass spectrometry - Meet a key challenge in lipidomics. <i>Metabolites</i> , <b>2011</b> , 1, 21-40	5.6	120
65	Identification and quantitation of unsaturated fatty acid isomers by electrospray ionization tandem mass spectrometry: a shotgun lipidomics approach. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 4243-50	7.8	69
64	A practical approach for determination of mass spectral baselines. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 2090-9	3.5	18
63	Lipidomics at the interface of structure and function in systems biology. <i>Chemistry and Biology</i> , <b>2011</b> , 18, 284-91		134
62	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> , <b>2011</b> , 108, 16381-5	11.5	404
61	Metabolomics in early Alzheimer's disease: identification of altered plasma sphingolipidome using shotgun lipidomics. <i>PLoS ONE</i> , <b>2011</b> , 6, e21643	3.7	284
60	Dynamic simulation of cardiolipin remodeling: greasing the wheels for an interpretative approach to lipidomics. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 2153-70	6.3	55
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