

Guang-Hou Shui

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3171970/guang-hou-shui-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

201
papers

11,637
citations

57
h-index

104
g-index

220
ext. papers

14,037
ext. citations

8.1
avg, IF

6.21
L-index

#	Paper	IF	Citations
201	Dual role of 3-methyladenine in modulation of autophagy via different temporal patterns of inhibition on class I and III phosphoinositide 3-kinase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 10850-6	5.4	774
200	An investigation of antioxidant capacity of fruits in Singapore markets. <i>Food Chemistry</i> , 2002 , 76, 69-75	8.5	692
199	Mfsd2a is a transporter for the essential omega-3 fatty acid docosahexaenoic acid. <i>Nature</i> , 2014 , 509, 503-6	50.4	532
198	Lipid-induced insulin resistance mediated by the proinflammatory receptor TLR4 requires saturated fatty acid-induced ceramide biosynthesis in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 1858-70	15.9	461
197	Fld1p, a functional homologue of human seipin, regulates the size of lipid droplets in yeast. <i>Journal of Cell Biology</i> , 2008 , 180, 473-82	7.3	346
196	Comparative lipidomic analysis of mouse and human brain with Alzheimer disease. <i>Journal of Biological Chemistry</i> , 2012 , 287, 2678-88	5.4	345
195	The transcription factor STAT-1 couples macrophage synthesis of 25-hydroxycholesterol to the interferon antiviral response. <i>Immunity</i> , 2013 , 38, 106-18	32.3	258
194	A role for phosphatidic acid in the formation of "supersized" lipid droplets. <i>PLoS Genetics</i> , 2011 , 7, e1002201	20.1	235
193	Fsp27 promotes lipid droplet growth by lipid exchange and transfer at lipid droplet contact sites. <i>Journal of Cell Biology</i> , 2011 , 195, 953-63	7.3	226
192	Retroviruses human immunodeficiency virus and murine leukemia virus are enriched in phosphoinositides. <i>Journal of Virology</i> , 2008 , 82, 11228-38	6.6	219
191	Separation and determination of organic acids and phenolic compounds in fruit juices and drinks by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2002 , 977, 89-96	4.5	204
190	Omics-Driven Systems Interrogation of Metabolic Dysregulation in COVID-19 Pathogenesis. <i>Cell Metabolism</i> , 2020 , 32, 188-202.e5	24.6	199
189	Arabidopsis lipins mediate eukaryotic pathway of lipid metabolism and cope critically with phosphate starvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20978-83	11.5	193
188	Host defense against viral infection involves interferon mediated down-regulation of sterol biosynthesis. <i>PLoS Biology</i> , 2011 , 9, e1000598	9.7	181
187	Extensive characterization of human tear fluid collected using different techniques unravels the presence of novel lipid amphiphiles. <i>Journal of Lipid Research</i> , 2014 , 55, 289-98	6.3	180
186	PtdIns4P synthesis by PI4KIII β at the plasma membrane and its impact on plasma membrane identity. <i>Journal of Cell Biology</i> , 2012 , 199, 1003-16	7.3	171
185	Residue from star fruit as valuable source for functional food ingredients and antioxidant nutraceuticals. <i>Food Chemistry</i> , 2006 , 97, 277-284	8.5	160

184	Chondroitin fragments are odorants that trigger fear behavior in fish. <i>Current Biology</i> , 2012 , 22, 538-44	6.3	155
183	Inhibitory effect of dietary lipids on chaperone-mediated autophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E705-14	11.5	152
182	Extensive diversity in circadian regulation of plasma lipids and evidence for different circadian metabolic phenotypes in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 14468-73	11.5	140
181	Phospholipase d2 ablation ameliorates Alzheimer's disease-linked synaptic dysfunction and cognitive deficits. <i>Journal of Neuroscience</i> , 2010 , 30, 16419-28	6.6	140
180	Induction of autophagy by palmitic acid via protein kinase C-mediated signaling pathway independent of mTOR (mammalian target of rapamycin). <i>Journal of Biological Chemistry</i> , 2012 , 287, 14364-76	5.4	124
179	Analysis of polyphenolic antioxidants in star fruit using liquid chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2004 , 1022, 67-75	4.5	123
178	Meibum lipid composition in Asians with dry eye disease. <i>PLoS ONE</i> , 2011 , 6, e24339	3.7	118
177	Tissue-autonomous function of Drosophila seipin in preventing ectopic lipid droplet formation. <i>PLoS Genetics</i> , 2011 , 7, e1001364	6	107
176	Emodin inhibits tumor cell adhesion through disruption of the membrane lipid Raft-associated integrin signaling pathway. <i>Cancer Research</i> , 2006 , 66, 5807-15	10.1	107
175	The translocator maintenance protein Tam41 is required for mitochondrial cardiolipin biosynthesis. <i>Journal of Cell Biology</i> , 2008 , 183, 1213-21	7.3	104
174	The mitochondria-targeted antioxidant MitoQ extends lifespan and improves healthspan of a transgenic Caenorhabditis elegans model of Alzheimer disease. <i>Free Radical Biology and Medicine</i> , 2014 , 71, 390-401	7.8	103
173	Biochemical membrane lipidomics during Drosophila development. <i>Developmental Cell</i> , 2013 , 24, 98-111	10.2	103
172	Lipid pathway alterations in Parkinson's disease primary visual cortex. <i>PLoS ONE</i> , 2011 , 6, e17299	3.7	103
171	Translocation and effects of gold nanoparticles after inhalation exposure in rats. <i>Nanotoxicology</i> , 2007 , 1, 235-242	5.3	101
170	Microbiota Depletion Impairs Thermogenesis of Brown Adipose Tissue and Browning of White Adipose Tissue. <i>Cell Reports</i> , 2019 , 26, 2720-2737.e5	10.6	100
169	Triacylglycerol utilization is required for regrowth of in vitro hypoxic nonreplicating Mycobacterium bovis bacillus Calmette-Guerin. <i>Journal of Bacteriology</i> , 2009 , 191, 5037-43	3.5	100
168	The membrane stress response buffers lethal effects of lipid disequilibrium by reprogramming the protein homeostasis network. <i>Molecular Cell</i> , 2012 , 48, 16-27	17.6	97
167	Toward one step analysis of cellular lipidomes using liquid chromatography coupled with mass spectrometry: application to Saccharomyces cerevisiae and Schizosaccharomyces pombe lipidomics. <i>Molecular BioSystems</i> , 2010 , 6, 1008-17		96

166	Non-targeted profiling of lipids during kainate-induced neuronal injury. <i>FASEB Journal</i> , 2006 , 20, 1152-61.	6.9	96
165	Lipidomics as a principal tool for advancing biomedical research. <i>Journal of Genetics and Genomics</i> , 2013 , 40, 375-90	4	87
164	Lipidomic analysis of human placental syncytiotrophoblast microvesicles in adverse pregnancy outcomes. <i>Placenta</i> , 2013 , 34, 436-42	3.4	87
163	Fenretinide prevents lipid-induced insulin resistance by blocking ceramide biosynthesis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 17426-17437	5.4	87
162	U18666A, an intra-cellular cholesterol transport inhibitor, inhibits dengue virus entry and replication. <i>Antiviral Research</i> , 2012 , 93, 191-8	10.8	86
161	Cdk5/p25-induced cytosolic PLA2-mediated lysophosphatidylcholine production regulates neuroinflammation and triggers neurodegeneration. <i>Journal of Neuroscience</i> , 2012 , 32, 1020-34	6.6	81
160	Sensitive profiling of chemically diverse bioactive lipids. <i>Journal of Lipid Research</i> , 2007 , 48, 1976-84	6.3	80
159	Erratum for Ang et al., AnethA-ethR-Deficient Mycobacterium bovis BCG Mutant Displays Increased Adherence to Mammalian Cells and Greater Persistence In Vivo, Which Correlate with Altered Mycolic Acid Composition. <i>Infection and Immunity</i> , 2015 , 83, 846-846	3.7	78
158	An electron transfer path connects subunits of a mycobacterial respiratory supercomplex. <i>Science</i> , 2018 , 362,	33.3	76
157	Adipose-specific knockout of SEIPIN/BSCL2 results in progressive lipodystrophy. <i>Diabetes</i> , 2014 , 63, 2320-31	3.1	74
156	PGC-1 β improves glucose homeostasis in skeletal muscle in an activity-dependent manner. <i>Diabetes</i> , 2013 , 62, 85-95	0.9	73
155	A mechanistic paradigm for broad-spectrum antivirals that target virus-cell fusion. <i>PLoS Pathogens</i> , 2013 , 9, e1003297	7.6	72
154	Cidea is an essential transcriptional coactivator regulating mammary gland secretion of milk lipids. <i>Nature Medicine</i> , 2012 , 18, 235-43	50.5	72
153	Lipidomic analysis of human tear fluid reveals structure-specific lipid alterations in dry eye syndrome. <i>Journal of Lipid Research</i> , 2014 , 55, 299-306	6.3	66
152	Molecular characterization of seipin and its mutants: implications for seipin in triacylglycerol synthesis. <i>Journal of Lipid Research</i> , 2011 , 52, 2136-2147	6.3	63
151	Brain lipidomes of subcortical ischemic vascular dementia and mixed dementia. <i>Neurobiology of Aging</i> , 2014 , 35, 2369-81	5.6	62
150	Lipid droplet-associated proteins are involved in the biosynthesis and hydrolysis of triacylglycerol in Mycobacterium bovis bacillus Calmette-Guerin. <i>Journal of Biological Chemistry</i> , 2010 , 285, 21662-70	5.4	61
149	GDSL lipases modulate immunity through lipid homeostasis in rice. <i>PLoS Pathogens</i> , 2017 , 13, e1006724	7.6	59

148	The Lipid-Modifying Enzyme SMPDL3B Negatively Regulates Innate Immunity. <i>Cell Reports</i> , 2015 , 11, 1919-28	10.6	58
147	Mitochondrial changes in ageing <i>Caenorhabditis elegans</i> --what do we learn from superoxide dismutase knockouts?. <i>PLoS ONE</i> , 2011 , 6, e19444	3.7	58
146	Metabolomics, a Powerful Tool for Agricultural Research. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	58
145	Soybean GmMYB73 promotes lipid accumulation in transgenic plants. <i>BMC Plant Biology</i> , 2014 , 14, 73	5.3	57
144	Harnessing the intracellular triacylglycerols for titer improvement of polyketides in <i>Streptomyces</i> . <i>Nature Biotechnology</i> , 2020 , 38, 76-83	44.5	57
143	Myristoleic acid produced by enterococci reduces obesity through brown adipose tissue activation. <i>Gut</i> , 2020 , 69, 1239-1247	19.2	56
142	High-Coverage Targeted Lipidomics Reveals Novel Serum Lipid Predictors and Lipid Pathway Dysregulation Antecedent to Type 2 Diabetes Onset in Normoglycemic Chinese Adults. <i>Diabetes Care</i> , 2019 , 42, 2117-2126	14.6	55
141	Salicylic acid-mediated plasmodesmal closure via Remorin-dependent lipid organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21274-21284 ^{11.5}		55
140	Structural and biological diversity of lipopolysaccharides from <i>Burkholderia pseudomallei</i> and <i>Burkholderia thailandensis</i> . <i>Vaccine Journal</i> , 2009 , 16, 1420-8		54
139	Lipidomics, en route to accurate quantitation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017 , 1862, 752-761	5	52
138	Mycolic acids as diagnostic markers for tuberculosis case detection in humans and drug efficacy in mice. <i>EMBO Molecular Medicine</i> , 2012 , 4, 27-37	12	52
137	Comparative plasma lipidome between human and cynomolgus monkey: are plasma polar lipids good biomarkers for diabetic monkeys?. <i>PLoS ONE</i> , 2011 , 6, e19731	3.7	52
136	Cholesterol biosynthesis supports the growth of hepatocarcinoma lesions depleted of fatty acid synthase in mice and humans. <i>Gut</i> , 2020 , 69, 177-186	19.2	52
135	The identification of antioxidants in dark soy sauce. <i>Free Radical Research</i> , 2007 , 41, 479-88	4	49
134	Derivatization-independent cholesterol analysis in crude lipid extracts by liquid chromatography/mass spectrometry: applications to a rabbit model for atherosclerosis. <i>Journal of Chromatography A</i> , 2011 , 1218, 4357-65	4.5	48
133	Arabidopsis AtPLC2 Is a Primary Phosphoinositide-Specific Phospholipase C in Phosphoinositide Metabolism and the Endoplasmic Reticulum Stress Response. <i>PLoS Genetics</i> , 2015 , 11, e1005511	6	47
132	Lanosterol induces mitochondrial uncoupling and protects dopaminergic neurons from cell death in a model for Parkinson's disease. <i>Cell Death and Differentiation</i> , 2012 , 19, 416-27	12.7	45
131	N-Octanoylhomoserine lactone signalling mediated by the BpsI-BpsR quorum sensing system plays a major role in biofilm formation of <i>Burkholderia pseudomallei</i> . <i>Microbiology (United Kingdom)</i> , 2011 , 157, 1176-1186	2.9	44

130	Selection for a Zinc-Finger Protein Contributes to Seed Oil Increase during Soybean Domestication. <i>Plant Physiology</i> , 2017 , 173, 2208-2224	6.6	38
129	Endogenous sterol intermediates of the mevalonate pathway regulate HMGCR degradation and SREBP-2 processing. <i>Journal of Lipid Research</i> , 2019 , 60, 1765-1775	6.3	38
128	Critical role of SCD1 in autophagy regulation via lipogenesis and lipid rafts-coupled AKT-FOXO1 signaling pathway. <i>Autophagy</i> , 2014 , 10, 226-42	10.2	38
127	XBP-1-deficient plasmablasts show normal protein folding but altered glycosylation and lipid synthesis. <i>Journal of Immunology</i> , 2009 , 183, 3690-9	5.3	38
126	Rapid screening and characterisation of antioxidants of <i>Cosmos caudatus</i> using liquid chromatography coupled with mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005 , 827, 127-38	3.2	38
125	Gamma-aminobutyric Acid Enriched Rice Bran Diet Attenuates Insulin Resistance and Balances Energy Expenditure via Modification of Gut Microbiota and Short-Chain Fatty Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 881-890	5.7	37
124	Discovering and validating between-subject variations in plasma lipids in healthy subjects. <i>Scientific Reports</i> , 2016 , 6, 19139	4.9	37
123	Transcriptomic and lipidomic profiles of glycerolipids during <i>Arabidopsis</i> flower development. <i>New Phytologist</i> , 2014 , 203, 310-22	9.8	37
122	RIPK3 Orchestrates Fatty Acid Metabolism in Tumor-Associated Macrophages and Hepatocarcinogenesis. <i>Cancer Immunology Research</i> , 2020 , 8, 710-721	12.5	36
121	Caspase-dependent and -independent lipotoxic cell-death pathways in fission yeast. <i>Journal of Cell Science</i> , 2008 , 121, 2671-84	5.3	36
120	Changes in Plasma Lipids during Exposure to Total Sleep Deprivation. <i>Sleep</i> , 2015 , 38, 1683-91	1.1	35
119	Integration of lipidomics and metabolomics for in-depth understanding of cellular mechanism and disease progression. <i>Journal of Genetics and Genomics</i> , 2020 , 47, 69-83	4	34
118	Guanylate-binding protein 2 regulates Drp1-mediated mitochondrial fission to suppress breast cancer cell invasion. <i>Cell Death and Disease</i> , 2017 , 8, e3151	9.8	33
117	Longitudinal changes in tear fluid lipidome brought about by eyelid-warming treatment in a cohort of meibomian gland dysfunction. <i>Journal of Lipid Research</i> , 2014 , 55, 1959-69	6.3	33
116	Lipidomics and genomics of <i>Mycobacterium tuberculosis</i> reveal lineage-specific trends in mycolic acid biosynthesis. <i>MicrobiologyOpen</i> , 2014 , 3, 823-35	3.4	33
115	Docosapentaenoic acid (DPA) is a critical determinant of cubic membrane formation in amoeba <i>Chaos</i> mitochondria. <i>FASEB Journal</i> , 2009 , 23, 2866-71	0.9	33
114	Seipin regulates lipid homeostasis by ensuring calcium-dependent mitochondrial metabolism. <i>EMBO Journal</i> , 2018 , 37,	13	32
113	Dietary fatty acids promote lipid droplet diversity through seipin enrichment in an ER subdomain. <i>Nature Communications</i> , 2019 , 10, 2902	17.4	32

112	CDP-diacylglycerol synthetase coordinates cell growth and fat storage through phosphatidylinositol metabolism and the insulin pathway. <i>PLoS Genetics</i> , 2014 , 10, e1004172	6	32
111	The size and phospholipid composition of lipid droplets can influence their proteome. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 415, 455-62	3.4	32
110	Characterization of substrate preference for Slc1p and Cst26p in <i>Saccharomyces cerevisiae</i> using lipidomic approaches and an LPAAT activity assay. <i>PLoS ONE</i> , 2010 , 5, e11956	3.7	32
109	Screening and identification of antioxidants in biological samples using high-performance liquid chromatography-mass spectrometry and its application on <i>Salacca edulis</i> Reinw. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 880-6	5.7	31
108	Plasma Phospholipid and Sphingolipid Alterations in Presenilin1 Mutation Carriers: A Pilot Study. <i>Journal of Alzheimeris Disease</i> , 2016 , 50, 887-94	4.3	29
107	Characterization of antioxidants and change of antioxidant levels during storage of <i>Manilkara zapota</i> L. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 7834-41	5.7	29
106	An improved method for the analysis of major antioxidants of <i>Hibiscus esculentus</i> Linn. <i>Journal of Chromatography A</i> , 2004 , 1048, 17-24	4.5	29
105	Sequestration of polyunsaturated fatty acids in membrane phospholipids of <i>Caenorhabditis elegans</i> dauer larva attenuates eicosanoid biosynthesis for prolonged survival. <i>Redox Biology</i> , 2017 , 12, 967-977	11.3	28
104	A model of flux regulation in the cholesterol biosynthesis pathway: Immune mediated graduated flux reduction versus statin-like led stepped flux reduction. <i>Biochimie</i> , 2013 , 95, 613-21	4.6	28
103	Lipidomic analyses of the mouse brain after antidepressant treatment: evidence for endogenous release of long-chain fatty acids?. <i>International Journal of Neuropsychopharmacology</i> , 2009 , 12, 953-64	5.8	28
102	Tip60-mediated lipin 1 acetylation and ER translocation determine triacylglycerol synthesis rate. <i>Nature Communications</i> , 2018 , 9, 1916	17.4	28
101	Ablation of dihydroceramide desaturase confers resistance to etoposide-induced apoptosis in vitro. <i>PLoS ONE</i> , 2012 , 7, e44042	3.7	27
100	Cyanidin-3-O-glucoside improves non-alcoholic fatty liver disease by promoting PINK1-mediated mitophagy in mice. <i>British Journal of Pharmacology</i> , 2020 , 177, 3591-3607	8.6	26
99	Neonatal overnutrition in mice exacerbates high-fat diet-induced metabolic perturbations. <i>Journal of Endocrinology</i> , 2013 , 219, 131-43	4.7	26
98	Profiling brain and plasma lipids in human APOE epsilon2, epsilon3, and epsilon4 knock-in mice using electrospray ionization mass spectrometry. <i>Journal of Alzheimeris Disease</i> , 2010 , 20, 105-11	4.3	25
97	Phosphatidylinositol-hydrolyzing phospholipase C4 modulates rice response to salt and drought. <i>Plant, Cell and Environment</i> , 2019 , 42, 536-548	8.4	25
96	Cidea control of lipid storage and secretion in mouse and human sebaceous glands. <i>Molecular and Cellular Biology</i> , 2014 , 34, 1827-38	4.8	24
95	A multi-omics investigation of the composition and function of extracellular vesicles along the temporal trajectory of COVID-19. <i>Nature Metabolism</i> , 2021 , 3, 909-922	14.6	24

94	Effects of a high-fat, high-cholesterol diet on brain lipid profiles in apolipoprotein E β and η knock-in mice. <i>Neurobiology of Aging</i> , 2013 , 34, 2217-24	5.6	23
93	Mea6 controls VLDL transport through the coordinated regulation of COPII assembly. <i>Cell Research</i> , 2016 , 26, 787-804	24.7	21
92	Rapid and sensitive profiling of tear wax ester species using high performance liquid chromatography coupled with tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013 , 1308, 166-71	4.5	21
91	Biological relevance of fatty acyl heterogeneity to the neural membrane dynamics of rhesus macaques during normative aging. <i>Oncotarget</i> , 2016 , 7, 55970-55989	3.3	21
90	Polar lipid derangements in type 2 diabetes mellitus: potential pathological relevance of fatty acyl heterogeneity in sphingolipids. <i>Metabolomics</i> , 2013 , 9, 786-799	4.7	20
89	Drosophila TRF2 and TAF9 regulate lipid droplet size and phospholipid fatty acid composition. <i>PLoS Genetics</i> , 2017 , 13, e1006664	6	19
88	Neonatal Respiratory Failure with Retarded Perinatal Lung Maturation in Mice Caused by Reticulocalbin 3 Disruption. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016 , 54, 410-23	5.7	18
87	Evaluation of dietary effects on hepatic lipids in high fat and placebo diet fed rats by in vivo MRS and LC-MS techniques. <i>PLoS ONE</i> , 2014 , 9, e91436	3.7	18
86	Comprehensive analysis of lipid composition in crude palm oil using multiple lipidomic approaches. <i>Journal of Genetics and Genomics</i> , 2014 , 41, 293-304	4	18
85	Nuclear Factor E2-Related Factor 2 Mediates Oxidative Stress-Induced Lipid Accumulation in Adipocytes by Increasing Adipogenesis and Decreasing Lipolysis. <i>Antioxidants and Redox Signaling</i> , 2020 , 32, 173-192	8.4	18
84	Metabolomics through the lens of precision cardiovascular medicine. <i>Journal of Genetics and Genomics</i> , 2017 , 44, 127-138	4	17
83	The effect of APOE genotype on brain levels of oxysterols in young and old human APOE epsilon2, epsilon3 and epsilon4 knock-in mice. <i>Neuroscience</i> , 2010 , 169, 109-15	3.9	17
82	HDAC6 Suppresses Age-Dependent Ectopic Fat Accumulation by Maintaining the Proteostasis of PLIN2 in Drosophila. <i>Developmental Cell</i> , 2017 , 43, 99-111.e5	10.2	16
81	High-coverage lipidomics for functional lipid and pathway analyses. <i>Analytica Chimica Acta</i> , 2021 , 1147, 199-210	6.6	16
80	Convergent genomic signatures of flight loss in birds suggest a switch of main fuel. <i>Nature Communications</i> , 2019 , 10, 2756	17.4	15
79	Abc3-mediated efflux of an endogenous digoxin-like steroidal glycoside by <i>Magnaporthe oryzae</i> is necessary for host invasion during blast disease. <i>PLoS Pathogens</i> , 2012 , 8, e1002888	7.6	15
78	Sex-dependent effects of ambient PM pollution on insulin sensitivity and hepatic lipid metabolism in mice. <i>Particle and Fibre Toxicology</i> , 2020 , 17, 14	8.4	15
77	What can lipidomics tell us about the pathogenesis of Alzheimer disease?. <i>Biological Chemistry</i> , 2015 , 396, 1281-91	4.5	14

76	An ethA-ethR-deficient Mycobacterium bovis BCG mutant displays increased adherence to mammalian cells and greater persistence in vivo, which correlate with altered mycolic acid composition. <i>Infection and Immunity</i> , 2014 , 82, 1850-9	3.7	14
75	Liver ChREBP Protects Against Fructose-Induced Glycogenic Hepatotoxicity by Regulating L-Type Pyruvate Kinase. <i>Diabetes</i> , 2020 , 69, 591-602	0.9	13
74	An integrated method for direct interrogation of sphingolipid homeostasis in the heart and brain tissues of mice through postnatal development up to reproductive senescence. <i>Analytica Chimica Acta</i> , 2018 , 1037, 152-158	6.6	13
73	Serine metabolism antagonizes antiviral innate immunity by preventing ATP6V0d2-mediated YAP lysosomal degradation. <i>Cell Metabolism</i> , 2021 , 33, 971-987.e6	24.6	13
72	cTAGE5/MEA6 plays a critical role in neuronal cellular components trafficking and brain development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E9449-E9458	11.5	13
71	Structural basis for activity of TRIC counter-ion channels in calcium release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4238-4243	11.5	12
70	Role of tetanus neurotoxin insensitive vesicle-associated membrane protein in membrane domains transport and homeostasis. <i>Cellular Logistics</i> , 2015 , 5, e1025182		12
69	ACBD3 is required for FAPP2 transferring glucosylceramide through maintaining the Golgi integrity. <i>Journal of Molecular Cell Biology</i> , 2019 , 11, 107-117	6.3	12
68	Lipid anti-lipid antibody responses correlate with disease activity in systemic lupus erythematosus. <i>PLoS ONE</i> , 2013 , 8, e55639	3.7	12
67	Role of prefrontal cortical calcium independent phospholipase A ₂ in antidepressant-like effect of maprotiline. <i>International Journal of Neuropsychopharmacology</i> , 2012 , 15, 1087-98	5.8	11
66	A robust, integrated platform for comprehensive analyses of acyl-coenzyme As and acyl-carnitines revealed chain length-dependent disparity in fatty acyl metabolic fates across Drosophila development. <i>Science Bulletin</i> , 2020 , 65, 1840-1848	10.6	10
65	Targeted lipidomics and transcriptomics profiling reveal the heterogeneity of visceral and subcutaneous white adipose tissue. <i>Life Sciences</i> , 2020 , 245, 117352	6.8	10
64	Constant Light Exposure Alters Gut Microbiota and Promotes the Progression of Steatohepatitis in High Fat Diet Rats. <i>Frontiers in Microbiology</i> , 2020 , 11, 1975	5.7	10
63	The GDSL Lipase MHZ11 Modulates Ethylene Signaling in Rice Roots. <i>Plant Cell</i> , 2020 , 32, 1626-1643	11.6	9
62	Lipidomics insight into chronic exposure to ambient air pollution in mice. <i>Environmental Pollution</i> , 2020 , 262, 114668	9.3	9
61	TPS1 drug design for rice blast disease in magnaporthe oryzae. <i>SpringerPlus</i> , 2014 , 3, 18		9
60	Role of VAMP7-Dependent Secretion of Reticulon 3 in Neurite Growth. <i>Cell Reports</i> , 2020 , 33, 108536	10.6	9
59	Discovery of broad-spectrum fungicides that block septin-dependent infection processes of pathogenic fungi. <i>Nature Microbiology</i> , 2020 , 5, 1565-1575	26.6	9

58	Acs1, the Drosophila ortholog of intellectual-disability-related ACSL4, inhibits synaptic growth by altered lipids. <i>Journal of Cell Science</i> , 2016 , 129, 4034-4045	5.3	9
57	Lipid Profiling Reveals Browning Heterogeneity of White Adipose Tissue by β -Adrenergic Stimulation. <i>Biomolecules</i> , 2019 , 9,	5.9	8
56	Distribution of secretory phospholipase A2 X11A in the brain and its role in lipid metabolism and cognition. <i>Molecular Neurobiology</i> , 2014 , 50, 60-75	6.2	8
55	Untargeted LCMS Data Preprocessing in Metabolomics. <i>Journal of Analysis and Testing</i> , 2017 , 1, 187-192	3.2	8
54	A multi-tissue multi-omics analysis reveals distinct kinetics in entrainment of diurnal transcriptomes by inverted feeding. <i>iScience</i> , 2021 , 24, 102335	6.1	8
53	NCP2/RHD4/SAC7, SAC6 and SAC8 phosphoinositide phosphatases are required for PtdIns4P and PtdIns(4,5)P2 homeostasis and Arabidopsis development. <i>New Phytologist</i> , 2021 , 231, 713-725	9.8	8
52	Phosphatidylserine synthase regulates cellular homeostasis through distinct metabolic mechanisms. <i>PLoS Genetics</i> , 2019 , 15, e1008548	6	8
51	Requirement of cytosolic phospholipase A2 gamma in lipid droplet formation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017 , 1862, 692-705	5	7
50	Disturbance of Fatty Acid Desaturation Mediated by FADS2 in Mesenteric Adipocytes Contributes to Chronic Inflammation of Crohn's Disease. <i>Journal of Crohn's and Colitis</i> , 2020 , 14, 1581-1599	1.5	7
49	Comprehensive Lipidome Profiling of the Kidney in Early-Stage Diabetic Nephropathy. <i>Frontiers in Endocrinology</i> , 2020 , 11, 359	5.7	7
48	Extensive Profiling of Polyphenols from two Species Using a Combination of Untargeted and Targeted Approaches. <i>Metabolites</i> , 2020 , 10,	5.6	7
47	Adipose lipidomics and RNA-Seq analysis revealed the enhanced mitochondrial function in UCP1 knock-in pigs. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019 , 1864, 1375-1383	5	7
46	Lipid-gene regulatory network reveals core regulations of triacylglycerol with phosphatidylinositol/lysophosphatidylinositol and with hexosyl-ceramide. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019 , 1864, 168-180	5	7
45	Rebaudioside A Enhances Resistance to Oxidative Stress and Extends Lifespan and Healthspan in. <i>Antioxidants</i> , 2021 , 10,	7.1	7
44	AP2/ERF and R2R3-MYB family transcription factors: potential associations between temperature stress and lipid metabolism in <i>Auxenochlorella protothecoides</i> . <i>Biotechnology for Biofuels</i> , 2021 , 14, 22	7.8	7
43	A harlequin ichthyosis pig model with a novel ABCA12 mutation can be rescued by acitretin treatment. <i>Journal of Molecular Cell Biology</i> , 2019 , 11, 1029-1041	6.3	6
42	Cryo-EM structure of trimeric Mycobacterium smegmatis succinate dehydrogenase with a membrane-anchor SdhF. <i>Nature Communications</i> , 2020 , 11, 4245	17.4	6
41	Localized increases in CEPT1 and ATGL elevate plasmalogen phosphatidylcholines in HDLs contributing to atheroprotective lipid profiles in hyperglycemic GCK-MODY. <i>Redox Biology</i> , 2021 , 40, 101855	11.3	6

40	Brain lipid changes after repetitive transcranial magnetic stimulation: potential links to therapeutic effects?. <i>Metabolomics</i> , 2012 , 8, 19-33	4.7	5
39	The Attenuation of Diabetic Nephropathy by Annexin A1 via Regulation of Lipid Metabolism Through the AMPK/PPAR α /CPT1b Pathway. <i>Diabetes</i> , 2021 , 70, 2192-2203	0.9	5
38	Effects of constant light exposure on sphingolipidomics and progression of NASH in high-fat-fed rats. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2020 , 35, 1978-1989	4	4
37	Neuronal lipolysis participates in PUFA-mediated neural function and neurodegeneration. <i>EMBO Reports</i> , 2020 , 21, e50214	6.5	4
36	AGPAT2 interaction with CDP-diacylglycerol synthases promotes the flux of fatty acids through the CDP-diacylglycerol pathway. <i>Nature Communications</i> , 2021 , 12, 6877	17.4	4
35	RICE ACYL-COA-BINDING PROTEIN6 Affects Acyl-CoA Homeostasis and Growth in Rice. <i>Rice</i> , 2020 , 13, 75	5.8	4
34	Identification and Validation of Plasma Metabolomic Signatures in Precancerous Gastric Lesions That Progress to Cancer. <i>JAMA Network Open</i> , 2021 , 4, e2114186	10.4	4
33	The role of glutathione-mediated triacylglycerol synthesis in the response to ultra-high cadmium stress in <i>Auxenochlorella protothecoides</i> . <i>Journal of Environmental Sciences</i> , 2021 , 108, 58-69	6.4	4
32	Multifaceted role of nitric oxide in an in vitro mouse neuronal injury model: transcriptomic profiling defines the temporal recruitment of death signalling cascades. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 41-58	5.6	3
31	Comprehensive lipidomics in apoM mice reveals an overall state of metabolic distress and attenuated hepatic lipid secretion into the circulation. <i>Journal of Genetics and Genomics</i> , 2020 , 47, 523-534	4.4	3
30	Stepwise selection of natural variations at CTB2 and CTB4a improves cold adaptation during domestication of japonica rice. <i>New Phytologist</i> , 2021 , 231, 1056-1072	9.8	3
29	β -Aminobutyric Acid Attenuates High-Fat Diet-Induced Cerebral Oxidative Impairment via Enhanced Synthesis of Hippocampal Sulfatides. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 1081-1091	5.7	3
28	Rnf20 deficiency in adipocyte impairs adipose tissue development and thermogenesis. <i>Protein and Cell</i> , 2021 , 12, 475-492	7.2	3
27	Time to eat reveals the hierarchy of peripheral clocks. <i>Trends in Cell Biology</i> , 2021 , 31, 869-872	18.3	3
26	Lipid storage regulator CdsA is essential for <i>Drosophila</i> metamorphosis. <i>Journal of Genetics and Genomics</i> , 2019 , 46, 231-234	4	2
25	Altered Expression Profile of Phosphatidylinositols in Erythrocytes of Alzheimer's Disease and Amnesic Mild Cognitive Impairment Patients. <i>Journal of Alzheimer's Disease</i> , 2020 , 73, 811-818	4.3	2
24	GM130 regulates pulmonary surfactant protein secretion in alveolar type II cells. <i>Science China Life Sciences</i> , 2021 , 1	8.5	2
23	Systematic Discovery and Pathway Analyses of Metabolic Disturbance in COVID-19. <i>Infectious Diseases & Immunity</i> , 2021 , 1, 74-85		2

22	Lipidomics reveals the difference of membrane lipid catabolism between chilling injury sensitive and non-sensitive green bell pepper in response to chilling. <i>Postharvest Biology and Technology</i> , 2021 , 182, 111714	6.2	2
21	Plasma lipidomic profiling in murine mutants of Hermansky-Pudlak syndrome reveals differential changes in pro- and anti-atherosclerotic lipids. <i>Bioscience Reports</i> , 2019 , 39,	4.1	1
20	Lipid Metabolism in Neurodegenerative Diseases 2012 , 269-296		1
19	BLOS1 mediates kinesin switch during endosomal recycling of LDL receptor. <i>ELife</i> , 2020 , 9,	8.9	1
18	The specific glycerolipid composition is responsible for maintaining the membrane stability of <i>Physcomitrella patens</i> under dehydration stress.. <i>Journal of Plant Physiology</i> , 2022 , 268, 153590	3.6	1
17	Targeted lipidomics reveals associations between serum sphingolipids and insulin sensitivity measured by the hyperinsulinemic-euglycemic clamp. <i>Diabetes Research and Clinical Practice</i> , 2021 , 173, 108699	7.4	1
16	Architecture of the mycobacterial succinate dehydrogenase with a membrane-embedded Rieske FeS cluster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
15	Untargeted metabolomics and transcriptomics identified glutathione metabolism disturbance and PCS and TMAO as potential biomarkers for ER stress in lung. <i>Scientific Reports</i> , 2021 , 11, 14680	4.9	1
14	Higher Serum Lysophosphatidic Acids Predict Left Ventricular Reverse Remodeling in Pediatric Dilated Cardiomyopathy. <i>Frontiers in Pediatrics</i> , 2021 , 9, 710720	3.4	1
13	ZmCTLP1 is required for the maintenance of lipid homeostasis and the basal endosperm transfer layer in maize kernels. <i>New Phytologist</i> , 2021 , 232, 2384-2399	9.8	1
12	Activity-dependent PI4P synthesis by PI4KIIIβ regulates long-term synaptic potentiation.. <i>Cell Reports</i> , 2022 , 38, 110452	10.6	1
11	Metabolic Basis of Cognitive Improvement Associated With Active B Vitamin Supplementation in Cognitively Impaired Elderly Subjects - A Metabolomics Study.. <i>Frontiers in Medicine</i> , 2022 , 9, 864152	4.9	1
10	GBA1-dependent membrane glucosylceramide reprogramming promotes liver cancer metastasis via activation of the Wnt/βcatenin signalling pathway. <i>Cell Death and Disease</i> , 2022 , 13,	9.8	1
9	Hepatic loss of CerS2 induces cell division defects via a mad2-mediated pathway.. <i>Clinical and Translational Medicine</i> , 2022 , 12, e712	5.7	0
8	Metabolomics-Based Frailty Biomarkers in Older Chinese Adults.. <i>Frontiers in Medicine</i> , 2021 , 8, 830723	4.9	0
7	Targeted lipidomics reveals plasmalogen phosphatidylethanolamines and storage triacylglycerols as the major systemic lipid aberrations in Bietti crystalline corneoretinal dystrophy. <i>Journal of Genetics and Genomics</i> , 2021 ,	4	0
6	Dogs lacking Apolipoprotein E show advanced atherosclerosis leading to apparent clinical complications. <i>Science China Life Sciences</i> , 2021 , 1	8.5	0
5	Integration of Metabolomics and Transcriptomics Reveals Ketone Body and Lipid Metabolism Disturbance Related to ER Stress in the Liver. <i>Journal of Proteome Research</i> , 2021 , 20, 3875-3888	5.6	0

- 4 A collective statement in support of saving pangolins.. *Science of the Total Environment*, **2022**, 153666 10.2 ○
- 3 Precise Metabolomics Reveals a Diversity of Aging-Associated Metabolic Features.. *Small Methods*, **2022**, e2200130 12.8 ○
- 2 Systems level analysis of lipidome. *Frontiers in Biology*, **2011**, 6, 183-189
- 1 Hepatic CDP-diacylglycerol synthase 2 deficiency causes mitochondrial dysfunction and promotes rapid progression of NASH and fibrosis. *Science Bulletin*, **2021**, 67, 299-299 10.6