

Harald C Käpfeler

List of Publications by Year in descending order

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84
papers

5,714
citations

101384

36
h-index

82410

72
g-index

88
all docs

88
docs citations

88
times ranked

10724
citing authors

#	ARTICLE	IF	CITATIONS
1	Shorthand notation for lipid structures derived from mass spectrometry. <i>Journal of Lipid Research</i> , 2013, 54, 1523-1530.	2.0	689
2	Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. <i>Journal of Lipid Research</i> , 2020, 61, 1539-1555.	2.0	372
3	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950 "Metabolites in Frozen Human Plasma. <i>Journal of Lipid Research</i> , 2017, 58, 2275-2288.	2.0	312
4	Lipid particles/droplets of the yeast <i>Saccharomyces cerevisiae</i> revisited: Lipidome meets Proteome. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 1165-1176.	1.2	188
5	Lipidomics from sample preparation to data analysis: a primer. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2191-2209.	1.9	180
6	Lipid Data Analyzer: unattended identification and quantitation of lipids in LC-MS data. <i>Bioinformatics</i> , 2011, 27, 572-577.	1.8	173
7	Characterisation of adipocyte-derived extracellular vesicle subtypes identifies distinct protein and lipid signatures for large and small extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1305677.	5.5	173
8	Mass Spectrometry Based Lipidomics: An Overview of Technological Platforms. <i>Metabolites</i> , 2012, 2, 19-38.	1.3	155
9	Balanced mTORC1 Activity in Oligodendrocytes Is Required for Accurate CNS Myelination. <i>Journal of Neuroscience</i> , 2014, 34, 8432-8448.	1.7	146
10	Metabolism and DNA binding studies of 4-hydroxyestradiol and estradiol-3,4-quinone in vitro and in female ACI rat mammary gland in vivo. <i>Carcinogenesis</i> , 2003, 25, 289-297.	1.3	145
11	Hif-2 α Promotes Degradation of Mammalian Peroxisomes by Selective Autophagy. <i>Cell Metabolism</i> , 2014, 20, 882-897.	7.2	131
12	A comprehensive method for lipid profiling by liquid chromatography-ion cyclotron resonance mass spectrometry. <i>Journal of Lipid Research</i> , 2011, 52, 2314-2322.	2.0	125
13	Deficiency of carboxylesterase 1/esterase-x results in obesity, hepatic steatosis, and hyperlipidemia. <i>Hepatology</i> , 2012, 56, 2188-2198.	3.6	117
14	Deciphering lipid structures based on platform-independent decision rules. <i>Nature Methods</i> , 2017, 14, 1171-1174.	9.0	116
15	HIGH RESOLUTION MASS SPECTROMETRY IN LIPIDOMICS. <i>Mass Spectrometry Reviews</i> , 2021, 40, 162-176.	2.8	112
16	High-resolution cryo-EM structures of respiratory complex I: Mechanism, assembly, and disease. <i>Science Advances</i> , 2019, 5, eaax9484.	4.7	109
17	mTORC1 Controls PNS Myelination along the mTORC1-RXR β -SREBP-Lipid Biosynthesis Axis in Schwann Cells. <i>Cell Reports</i> , 2014, 9, 646-660.	2.9	105
18	On the inter-instrument and inter-laboratory transferability of a tandem mass spectral reference library: 1. Results of an Austrian multicenter study. <i>Journal of Mass Spectrometry</i> , 2009, 44, 485-493.	0.7	96

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19	Lipid droplet analysis in caveolin-deficient adipocytes: alterations in surface phospholipid composition and maturation defects. <i>Journal of Lipid Research</i> , 2010, 51, 945-956.	2.0	93
20	Fructose- and sucrose- but not glucose-sweetened beverages promote hepatic de novo lipogenesis: A randomized controlled trial. <i>Journal of Hepatology</i> , 2021, 75, 46-54.	1.8	92
21	Sequential Synthesis and Methylation of Phosphatidylethanolamine Promote Lipid Droplet Biosynthesis and Stability in Tissue Culture and in Vivo. <i>Journal of Biological Chemistry</i> , 2011, 286, 17338-17350.	1.6	91
22	On the inter-instrument and the inter-laboratory transferability of a tandem mass spectral reference library: 2. Optimization and characterization of the search algorithm. <i>Journal of Mass Spectrometry</i> , 2009, 44, 494-502.	0.7	90
23	Adipocyte cell size, free fatty acids and apolipoproteins are associated with non-alcoholic liver injury progression in severely obese patients. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 1542-1552.	1.5	88
24	Lipidomics by ultrahigh performance liquid chromatography-high resolution mass spectrometry and its application to complex biological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1053, 72-80.	1.2	87
25	CNS myelination and remyelination depend on fatty acid synthesis by oligodendrocytes. <i>ELife</i> , 2019, 8, .	2.8	87
26	Recommendations for good practice in MS-based lipidomics. <i>Journal of Lipid Research</i> , 2021, 62, 100138.	2.0	85
27	Phospholipid oxidation generates potent anti-inflammatory lipid mediators that mimic structurally related pro-resolving eicosanoids by activating Nrf2. <i>EMBO Molecular Medicine</i> , 2015, 7, 593-607.	3.3	81
28	Lipidomic analysis of lipid droplets from murine hepatocytes reveals distinct signatures for nutritional stress. <i>Journal of Lipid Research</i> , 2012, 53, 2141-2152.	2.0	80
29	Rhamnogalacturonan structure shows variation in the side chains monosaccharide composition and methylation status within and across different plant species. <i>Plant Journal</i> , 2013, 76, 61-72.	2.8	76
30	Effect of <i>Lactobacillus casei</i> Shirota supplementation on trimethylamine-N-oxide levels in patients with metabolic syndrome: An open-label, randomized study. <i>Atherosclerosis</i> , 2015, 242, 141-144.	0.4	63
31	Members of the endocannabinoid system are distinctly regulated in inflammatory bowel disease and colorectal cancer. <i>Scientific Reports</i> , 2019, 9, 2358.	1.6	60
32	Quantitation of phosphatidic acid and lysophosphatidic acid molecular species using hydrophilic interaction liquid chromatography coupled to electrospray ionization high resolution mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1347, 104-110.	1.8	58
33	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021, 12, 4771.	5.8	54
34	Hypochlorite modification of sphingomyelin generates chlorinated lipid species that induce apoptosis and proteome alterations in dopaminergic PC12 neurons in vitro. <i>Free Radical Biology and Medicine</i> , 2010, 48, 1588-1600.	1.3	47
35	De novo fatty acid synthesis by Schwann cells is essential for peripheral nervous system myelination. <i>Journal of Cell Biology</i> , 2018, 217, 1353-1368.	2.3	47
36	The glycerol backbone of phospholipids derives from noncarbohydrate precursors in starved lung cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6225-6230.	3.3	42

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37	The DALI vitamin D randomized controlled trial for gestational diabetes mellitus prevention: No major benefit shown besides vitamin D sufficiency. <i>Clinical Nutrition</i> , 2020, 39, 976-984.	2.3	42
38	Asymmetric opening of the homopentameric 5-HT _{3A} serotonin receptor in lipid bilayers. <i>Nature Communications</i> , 2021, 12, 1074.	5.8	41
39	Evidence of human milk oligosaccharides in maternal circulation already during pregnancy: a pilot study. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E347-E357.	1.8	40
40	Nonalcoholic fatty liver disease stratification by liver lipidomics. <i>Journal of Lipid Research</i> , 2021, 62, 100104.	2.0	39
41	Lipidomics: Prospects from a technological perspective. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 740-746.	1.2	38
42	An improved ¹ H NMR method for fractionation and identification of phospholipids. <i>Journal of Separation Science</i> , 2013, 36, 744-751.	1.3	36
43	The lipidome and proteome of microsomes from the methylotrophic yeast <i>Pichia pastoris</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 215-226.	1.2	34
44	Bioinformatics tools and challenges in structural analysis of lipidomics MS/MS data. <i>Briefings in Bioinformatics</i> , 2013, 14, 375-390.	3.2	32
45	Mouse brain plasmalogens are targets for hypochlorous acid-mediated modification in vitro and in vivo. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1655-1665.	1.3	31
46	Cholesterol Deficiency Causes Impaired Osmotic Stability of Cultured Red Blood Cells. <i>Frontiers in Physiology</i> , 2019, 10, 1529.	1.3	30
47	Automated Annotation of Sphingolipids Including Accurate Identification of Hydroxylation Sites Using MS/MS Data. <i>Analytical Chemistry</i> , 2020, 92, 14054-14062.	3.2	28
48	The SARS-CoV2 envelope differs from host cells, exposes procoagulant lipids, and is disrupted in vivo by oral rinses. <i>Journal of Lipid Research</i> , 2022, 63, 100208.	2.0	28
49	Exploring the role of sphingolipid machinery during the epithelial to mesenchymal transition program using an integrative approach. <i>Oncotarget</i> , 2016, 7, 22295-22323.	0.8	27
50	Correction of accurate mass measurement for target compound verification by quadrupole time-of-flight mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 406-408.	1.2	26
51	Expression and Function of mARC: Roles in Lipogenesis and Metabolic Activation of Ximelagatran. <i>PLoS ONE</i> , 2015, 10, e0138487.	1.1	25
52	Evidence of Human Milk Oligosaccharides in Cord Blood and Maternal-to-Fetal Transport across the Placenta. <i>Nutrients</i> , 2019, 11, 2640.	1.7	24
53	The association of human milk oligosaccharides with glucose metabolism in overweight and obese pregnant women. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 1335-1343.	2.2	24
54	Characteristics and origins of common chemical noise ions in negative ESI LC-MS. <i>Journal of Mass Spectrometry</i> , 2011, 46, 553-560.	0.7	22

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55	Impact of endothelial lipase on cellular lipid composition. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1003-1011.	1.2	22
56	Phospholipid content, expression and support of thrombin generation of neonatal platelets. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2009, 98, 251-255.	0.7	20
57	Analysis of Lipid Particles from Yeast. <i>Methods in Molecular Biology</i> , 2009, 579, 359-374.	0.4	19
58	Determination of Oxidized Phosphatidylcholines by Hydrophilic Interaction Liquid Chromatography Coupled to Fourier Transform Mass Spectrometry. <i>International Journal of Molecular Sciences</i> , 2015, 16, 8351-8363.	1.8	19
59	Quantitative analysis of clindamycin in human plasma by liquid chromatography/electrospray ionisation tandem mass spectrometry using d1-N-ethylclindamycin as internal standard. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 135-139.	0.7	18
60	The impact of genetic stress by ATGL deficiency on the lipidome of lipid droplets from murine hepatocytes. <i>Journal of Lipid Research</i> , 2013, 54, 2185-2194.	2.0	18
61	A Metabolomics Workflow for Analyzing Complex Biological Samples Using a Combined Method of Untargeted and Target-List Based Approaches. <i>Metabolites</i> , 2020, 10, 342.	1.3	17
62	Comprehensive identification of age-related lipidome changes in rat amygdala during normal aging. <i>PLoS ONE</i> , 2017, 12, e0180675.	1.1	17
63	Reduced expression of adipose triglyceride lipase decreases arachidonic acid release and prostacyclin secretion in human aortic endothelial cells. <i>Archives of Physiology and Biochemistry</i> , 2017, 123, 249-253.	1.0	16
64	Phospholipid dynamics in ex vivo lung cancer and normal lung explants. <i>Experimental and Molecular Medicine</i> , 2021, 53, 81-90.	3.2	16
65	Exploring the Anion-Cation Interaction in <i>m</i> -Terphenyltetrafluorosilicates by Using Multinuclear NMR Spectroscopy, X-ray Diffraction, and ICR-FT-MS. <i>Chemistry - A European Journal</i> , 2009, 15, 9521-9529.	1.7	14
66	Changes in the Cerebrospinal Fluid and Plasma Lipidome in Patients with Rett Syndrome. <i>Metabolites</i> , 2022, 12, 291.	1.3	14
67	Hippocampal lipids linked to spatial memory in the C57bl/6j mouse. <i>Neurochemistry International</i> , 2010, 57, 935-939.	1.9	13
68	Toxicity of oxidized phosphatidylcholines in cultured human melanoma cells. <i>Chemistry and Physics of Lipids</i> , 2015, 189, 39-47.	1.5	13
69	Quantitative analysis of N-acylphosphatidylethanolamine molecular species in rat brain using solid-phase extraction combined with reversed-phase chromatography and tandem mass spectrometry. <i>Journal of Separation Science</i> , 2016, 39, 2474-2480.	1.3	13
70	Roux-en-Y gastric bypass surgery reprograms enterocyte triglyceride metabolism and postprandial secretion in rats. <i>Molecular Metabolism</i> , 2019, 23, 51-59.	3.0	12
71	Inhibition of Autotaxin and Lysophosphatidic Acid Receptor 5 Attenuates Neuroinflammation in LPS-Activated BV-2 Microglia and a Mouse Endotoxemia Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8519.	1.8	12
72	Sex Dimorphism of Nonalcoholic Fatty Liver Disease (NAFLD) in Pparg-Null Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9969.	1.8	12

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73	Untargeted plasma metabolomics identifies broad metabolic perturbations in glycogen storage disease type I. <i>Journal of Inherited Metabolic Disease</i> , 2022, 45, 235-247.	1.7	12
74	Effect of cytochrome P-450 inhibitors econazole, bifonazole and clotrimazole on prostanoid formation. <i>British Journal of Pharmacology</i> , 2000, 130, 1241-1246.	2.7	11
75	Determination of the Isotopic Enrichment of ¹³ C- and ² H-Labeled Tracers of Glucose Using High-Resolution Mass Spectrometry: Application to Dual- and Triple-Tracer Studies. <i>Analytical Chemistry</i> , 2017, 89, 12252-12260.	3.2	11
76	Identification and quantitation of benzo[a]pyrene-derived DNA adducts formed at low adduction level in mice lung tissue. <i>Analytical Biochemistry</i> , 2004, 334, 390-400.	1.1	10
77	Assessment of lipidomic species in hepatocyte lipid droplets from stressed mouse models. <i>Scientific Data</i> , 2014, 1, 140051.	2.4	10
78	Reduced LDL-Cholesterol and Reduced Total Cholesterol as Potential Indicators of Early Cancer in Male Treatment-Naïve Cancer Patients With Pre-cachexia and Cachexia. <i>Frontiers in Oncology</i> , 2020, 10, 1262.	1.3	10
79	Differences in Hypothalamic Lipid Profiles of Young and Aged Male Rats With Impaired and Unimpaired Spatial Cognitive Abilities and Memory. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 204.	1.7	9
80	A phosphoglycolate phosphatase/AUM-dependent link between triacylglycerol turnover and epidermal growth factor signaling. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 584-594.	1.2	8
81	Human Milk Oligosaccharides Are Present in Amniotic Fluid and Show Specific Patterns Dependent on Gestational Age. <i>Nutrients</i> , 2022, 14, 2065.	1.7	6
82	Human Milk Oligosaccharides in Cord Blood Are Altered in Gestational Diabetes and Stimulate Feto-Placental Angiogenesis In Vitro. <i>Nutrients</i> , 2021, 13, 4257.	1.7	4
83	Global Lipidomics Profiling by a High Resolution LC-MS Platform. <i>Methods in Molecular Biology</i> , 2021, 2306, 39-51.	0.4	2
84	Lipidomics, Mass Spectrometry, and Bioinformatics. , 2012, , 93-109.		0