

Kim Ekroos

List of Publications by Year in descending order

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73
papers

7,051
citations

94269

37
h-index

91712

69
g-index

74
all docs

74
docs citations

74
times ranked

8918
citing authors

#	ARTICLE	IF	CITATIONS
1	Global analysis of the yeast lipidome by quantitative shotgun mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2136-2141.	3.3	932
2	Resistance of cell membranes to different detergents. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5795-5800.	3.3	598
3	Plasma ceramides predict cardiovascular death in patients with stable coronary artery disease and acute coronary syndromes beyond LDL-cholesterol. European Heart Journal, 2016, 37, 1967-1976.	1.0	433
4	Automated Identification and Quantification of Glycerophospholipid Molecular Species by Multiple Precursor Ion Scanning. Analytical Chemistry, 2006, 78, 6202-6214.	3.2	379
5	Quantitative Profiling of Phospholipids by Multiple Precursor Ion Scanning on a Hybrid Quadrupole Time-of-Flight Mass Spectrometer. Analytical Chemistry, 2002, 74, 941-949.	3.2	298
6	Charting molecular composition of phosphatidylcholines by fatty acid scanning and ion trap MS3 fragmentation. Journal of Lipid Research, 2003, 44, 2181-2192.	2.0	277
7	Circulating Ceramides Predict Cardiovascular Outcomes in the Population-Based FINRISK 2002 Cohort. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 2424-2430.	1.1	249
8	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. Journal of Lipid Research, 2018, 59, 2001-2017.	2.0	231
9	High-throughput shotgun lipidomics by quadrupole time-of-flight mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2664-2672.	1.2	197
10	Informatics and computational strategies for the study of lipids. Molecular BioSystems, 2008, 4, 121-127.	2.9	189
11	Molecular Lipids Identify Cardiovascular Risk and Are Efficiently Lowered by Simvastatin and PCSK9 Deficiency. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E45-E52.	1.8	180
12	Lipidomic Analysis. Analytical Chemistry, 2018, 90, 4249-4257.	3.2	174
13	Polyene-lipids: A new tool to image lipids. Nature Methods, 2005, 2, 39-45.	9.0	169
14	High throughput quantitative molecular lipidomics. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 925-934.	1.2	143
15	Analysis of Lipid Experiments (ALEX): A Software Framework for Analysis of High-Resolution Shotgun Lipidomics Data. PLoS ONE, 2013, 8, e79736.	1.1	142
16	Differential Mobility Spectrometry-Driven Shotgun Lipidomics. Analytical Chemistry, 2014, 86, 9662-9669.	3.2	136
17	The VLDL receptor promotes lipotoxicity and increases mortality in mice following an acute myocardial infarction. Journal of Clinical Investigation, 2011, 121, 2625-2640.	3.9	133
18	Plasma concentrations of molecular lipid species in relation to coronary plaque characteristics and cardiovascular outcome: Results of the ATHEROREMO-IVUS study. Atherosclerosis, 2015, 243, 560-566.	0.4	120

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19	ApoCIII-Enriched LDL in Type 2 Diabetes Displays Altered Lipid Composition, Increased Susceptibility for Sphingomyelinase, and Increased Binding to Biglycan. <i>Diabetes</i> , 2009, 58, 2018-2026.	0.3	116
20	Liver-directed overexpression of mitochondrial glycerol-3-phosphate acyltransferase results in hepatic steatosis, increased triacylglycerol secretion and reduced fatty acid oxidation. <i>FASEB Journal</i> , 2006, 20, 434-443.	0.2	108
21	Shotgun Lipidomics by Sequential Precursor Ion Fragmentation on a Hybrid Quadrupole Time-of-Flight Mass Spectrometer. <i>Metabolites</i> , 2012, 2, 195-213.	1.3	103
22	The Ether Lipid Precursor Hexadecylglycerol Stimulates the Release and Changes the Composition of Exosomes Derived from PC-3 Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 4225-4237.	1.6	102
23	Lipidomics: A Tool for Studies of Atherosclerosis. <i>Current Atherosclerosis Reports</i> , 2010, 12, 273-281.	2.0	94
24	Gender, Contraceptives and Individual Metabolic Predisposition Shape a Healthy Plasma Lipidome. <i>Scientific Reports</i> , 2016, 6, 27710.	1.6	91
25	Recommendations for good practice in MS-based lipidomics. <i>Journal of Lipid Research</i> , 2021, 62, 100138.	2.0	85
26	Reporting of lipidomics data should be standardized. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 747-751.	1.2	77
27	Interdigitation of long-chain sphingomyelin induces coupling of membrane leaflets in a cholesterol dependent manner. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 281-288.	1.4	76
28	Reshaping Lipid Biochemistry by Pushing Barriers in Structural Lipidomics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6492-6501.	7.2	75
29	Lipidomics: Current state of the art in a fast moving field. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2020, 12, e1466.	6.6	71
30	Long-Term Performance and Stability of Molecular Shotgun Lipidomic Analysis of Human Plasma Samples. <i>Analytical Chemistry</i> , 2013, 85, 8757-8763.	3.2	67
31	Inhibition of macrophage fatty acid β -oxidation exacerbates palmitate-induced inflammatory and endoplasmic reticulum stress responses. <i>Diabetologia</i> , 2014, 57, 1067-1077.	2.9	64
32	Development and validation of a high-throughput LC-MS/MS assay for routine measurement of molecular ceramides. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3475-3483.	1.9	61
33	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021, 12, 4771.	5.8	54
34	Modulation of atherogenic lipidome by cigarette smoke in apolipoprotein E-deficient mice. <i>Atherosclerosis</i> , 2012, 225, 328-334.	0.4	50
35	Effects of Cigarette Smoke, Cessation, and Switching to Two Heat-Not-Burn Tobacco Products on Lung Lipid Metabolism in <i>C57BL/6</i> and <i>ApoE^{0/0}</i> Mice—An Integrative Systems Toxicology Analysis. <i>Toxicological Sciences</i> , 2016, 149, 441-457.	1.4	49
36	Hepatic PGC-1 β Overexpression Induces Combined Hyperlipidemia and Modulates the Response to PPAR α Activation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 2707-2713.	1.1	43

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37	Cell density-induced changes in lipid composition and intracellular trafficking. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 1097-1116.	2.4	42
38	Proteomics and Lipidomics in Inflammatory Bowel Disease Research: From Mechanistic Insights to Biomarker Identification. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2775.	1.8	35
39	Beyond LDL-C lowering: Distinct molecular sphingolipids are good indicators of proprotein convertase subtilisin/kexin type 9 (PCSK9) deficiency. <i>Atherosclerosis</i> , 2013, 228, 380-385.	0.4	34
40	Alterations in Serum Polyunsaturated Fatty Acids and Eicosanoids in Patients with Mild to Moderate Chronic Obstructive Pulmonary Disease (COPD). <i>International Journal of Molecular Sciences</i> , 2016, 17, 1583.	1.8	34
41	Quantitative lysophospholipidomics in human plasma and skin by LC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5091-5099.	1.9	32
42	Determining the Turnover of Glycosphingolipid Species by Stable-Isotope Tracer Lipidomics. <i>Journal of Molecular Biology</i> , 2016, 428, 4856-4866.	2.0	32
43	Ximelagatran increases membrane fluidity and changes membrane lipid composition in primary human hepatocytes. <i>Toxicology in Vitro</i> , 2009, 23, 1305-1310.	1.1	30
44	Identification and Annotation of Lipid Species in Metabolomics Studies Need Improvement. <i>Clinical Chemistry</i> , 2015, 61, 1542-1544.	1.5	30
45	Long- and Medium-Chain Fatty Acids Induce Insulin Resistance to a Similar Extent in Humans Despite Marked Differences in Muscle Fat Accumulation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 208-216.	1.8	28
46	High-content screening of yeast mutant libraries by shotgun lipidomics. <i>Molecular BioSystems</i> , 2014, 10, 1364-1376.	2.9	28
47	High-defined quantitative snapshots of the ganglioside lipidome using high resolution ion mobility SLIM assisted shotgun lipidomics. <i>Analytica Chimica Acta</i> , 2021, 1146, 77-87.	2.6	28
48	The Ether Lipid Precursor Hexadecylglycerol Causes Major Changes in the Lipidome of HEp-2 Cells. <i>PLoS ONE</i> , 2013, 8, e75904.	1.1	28
49	Differences in membrane acyl phospholipid composition between an endothermic mammal and an ectothermic reptile are not limited to any phospholipid class. <i>Journal of Experimental Biology</i> , 2007, 210, 3440-3450.	0.8	27
50	Comprehensive systems biology analysis of a 7-month cigarette smoke inhalation study in C57BL/6 mice. <i>Scientific Data</i> , 2016, 3, 150077.	2.4	25
51	Development of an On-Tissue Derivatization Method for MALDI Mass Spectrometry Imaging of Bioactive Lipids Containing Phosphate Monoester Using Phos-tag. <i>Analytical Chemistry</i> , 2021, 93, 3867-3875.	3.2	23
52	Lipid-based biomarkers for CVD, COPD, and aging – A translational perspective. <i>Progress in Lipid Research</i> , 2020, 78, 101030.	5.3	22
53	Alcohol produces distinct hepatic lipidome and eicosanoid signature in lean and obese. <i>Journal of Lipid Research</i> , 2016, 57, 1017-1028.	2.0	21
54	Lipidomic profiling of patient-specific induced pluripotent stem cell-derived hepatocyte-like cells. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 1141-1153.	1.2	20

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55	Three differently generated salmon protein hydrolysates reveal opposite effects on hepatic lipid metabolism in mice fed a high-fat diet. <i>Food Chemistry</i> , 2015, 183, 101-110.	4.2	19
56	Correction of Isobaric Overlap Resulting from Sodiated Ions in Lipidomics. <i>Analytical Chemistry</i> , 2020, 92, 10966-10970.	3.2	17
57	hiPSC-derived hepatocytes closely mimic the lipid profile of primary hepatocytes: A future personalised cell model for studying the lipid metabolism of the liver. <i>Journal of Cellular Physiology</i> , 2019, 234, 3744-3761.	2.0	16
58	Data including GROMACS input files for atomistic molecular dynamics simulations of mixed, asymmetric bilayers including molecular topologies, equilibrated structures, and force field for lipids compatible with OPLS-AA parameters. <i>Data in Brief</i> , 2016, 7, 1171-1174.	0.5	15
59	Clinical lipidomics – A community-driven roadmap to translate research into clinical applications. <i>Journal of Mass Spectrometry and Advances in the Clinical Lab</i> , 2022, 24, 1-4.	1.3	15
60	Untargeted lipidomic analysis to broadly characterize the effects of pathogenic and non-pathogenic staphylococci on mammalian lipids. <i>PLoS ONE</i> , 2018, 13, e0206606.	1.1	13
61	The ether lipid precursor hexadecylglycerol protects against Shiga toxins. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 4285-4300.	2.4	12
62	Reshaping Lipid Biochemistry by Pushing Barriers in Structural Lipidomics. <i>Angewandte Chemie</i> , 2019, 131, 6560-6569.	1.6	12
63	Lipidomic analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2187-2189.	1.9	11
64	Comparison of Kit-Based Metabolomics with Other Methodologies in a Large Cohort, towards Establishing Reference Values. <i>Metabolites</i> , 2021, 11, 652.	1.3	10
65	Ceramide ratios are affected by cigarette smoke but not heat-not-burn or e-vapor aerosols across four independent mouse studies. <i>Life Sciences</i> , 2020, 263, 118753.	2.0	9
66	Validation of a multiplexed and targeted lipidomics assay for accurate quantification of lipidomes. <i>Journal of Lipid Research</i> , 2022, 63, 100218.	2.0	6
67	Impact of ion suppression by sample cap liners in lipidomics. <i>Analytica Chimica Acta</i> , 2020, 1137, 136-142.	2.6	5
68	Cellular effects of fluorodeoxyglucose: Global changes in the lipidome and alteration in intracellular transport. <i>Oncotarget</i> , 2016, 7, 79885-79900.	0.8	5
69	Lipidomic profiling of patient-specific ipsc-derived hepatocyte-like cells (HLCs). <i>Atherosclerosis</i> , 2017, 263, e104.	0.4	1
70	Predicting Statin Induced Muscle Toxicity. <i>Journal of Clinical Lipidology</i> , 2011, 5, 239-240.	0.6	0
71	Lipidomics: a new asset to the clinical lipidology tool-kit. <i>Clinical Lipidology</i> , 2011, 6, 21-23.	0.4	0
72	Statin Myalgia is Detected by a Single Lipid Marker. <i>Journal of Clinical Lipidology</i> , 2012, 6, 274-275.	0.6	0

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73	Statin Intolerance Can be Monitored by Plasma Eicosanoid Assays. Journal of Clinical Lipidology, 2013, 7, 265.	0.6	0