

# Martin Trützschler

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

3,082  
citations

304743

22  
h-index

377865

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

7452  
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.	4.2	689
2	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950â€“Metabolites in Frozen Human Plasma. <i>Journal of Lipid Research</i> , 2017, 58, 2275-2288.	4.2	312
3	Lipidomics from sample preparation to data analysis: a primer. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2191-2209.	3.7	180
4	Lipid Data Analyzer: unattended identification and quantitation of lipids in LC-MS data. <i>Bioinformatics</i> , 2011, 27, 572-577.	4.1	173
5	Characterisation of adipocyteâ€“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.	12.2	173
6	Mass Spectrometry Based Lipidomics: An Overview of Technological Platforms. <i>Metabolites</i> , 2012, 2, 19-38.	2.9	155
7	Balanced mTORC1 Activity in Oligodendrocytes Is Required for Accurate CNS Myelination. <i>Journal of Neuroscience</i> , 2014, 34, 8432-8448.	3.6	146
8	Hif-2 $\beta$ Promotes Degradation of Mammalian Peroxisomes by Selective Autophagy. <i>Cell Metabolism</i> , 2014, 20, 882-897.	16.2	131
9	A comprehensive method for lipid profiling by liquid chromatography-ion cyclotron resonance mass spectrometry. <i>Journal of Lipid Research</i> , 2011, 52, 2314-2322.	4.2	125
10	Deciphering lipid structures based on platform-independent decision rules. <i>Nature Methods</i> , 2017, 14, 1171-1174.	19.0	116
11	mTORC1 Controls PNS Myelination along the mTORC1-RXR $\beta$ -SREBP-Lipid Biosynthesis Axis in Schwann Cells. <i>Cell Reports</i> , 2014, 9, 646-660.	6.4	105
12	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.	2.3	87
13	CNS myelination and remyelination depend on fatty acid synthesis by oligodendrocytes. <i>ELife</i> , 2019, 8, .	6.0	87
14	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.	6.9	81
15	Lipidomic analysis of lipid droplets from murine hepatocytes reveals distinct signatures for nutritional stress. <i>Journal of Lipid Research</i> , 2012, 53, 2141-2152.	4.2	80
16	Members of the endocannabinoid system are distinctly regulated in inflammatory bowel disease and colorectal cancer. <i>Scientific Reports</i> , 2019, 9, 2358.	3.3	60
17	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.	3.7	58
18	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.	7.1	42

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19	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.	5.0	42
20	Lipidomics: Prospects from a technological perspective. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 740-746.	2.4	38
21	Cholesterol Deficiency Causes Impaired Osmotic Stability of Cultured Red Blood Cells. <i>Frontiers in Physiology</i> , 2019, 10, 1529.	2.8	30
22	Automated Annotation of Sphingolipids Including Accurate Identification of Hydroxylation Sites Using MS/MS Data. <i>Analytical Chemistry</i> , 2020, 92, 14054-14062.	6.5	28
23	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.	4.1	19
24	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.	4.2	18
25	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.	2.9	17
26	Changes in the Cerebrospinal Fluid and Plasma Lipidome in Patients with Rett Syndrome. <i>Metabolites</i> , 2022, 12, 291.	2.9	14
27	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.	2.5	13
28	Sex Dimorphism of Nonalcoholic Fatty Liver Disease (NAFLD) in Pparg-Null Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9969.	4.1	12
29	Determination of the Isotopic Enrichment of <sup>13</sup> C- and <sup>2</sup> 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.	6.5	11
30	Assessment of lipidomic species in hepatocyte lipid droplets from stressed mouse models. <i>Scientific Data</i> , 2014, 1, 140051.	5.3	10
31	±-Linolenic acid and product octadecanoids in Styrian pumpkin seeds and oils: How processing impacts lipidomes of fatty acid, triacylglycerol and oxylipin molecular structures. <i>Food Chemistry</i> , 2022, 371, 131194.	8.2	10
32	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.	2.4	8
33	Human Milk Oligosaccharides Are Present in Amniotic Fluid and Show Specific Patterns Dependent on Gestational Age. <i>Nutrients</i> , 2022, 14, 2065.	4.1	6
34	Global Lipidomics Profiling by a High Resolution LC-MS Platform. <i>Methods in Molecular Biology</i> , 2021, 2306, 39-51.	0.9	2