

# Jeremy P Koelmel

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,323  
citations

304743

22  
h-index

223800

46  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2912  
citing authors

#	ARTICLE	IF	CITATIONS
1	A lipidome atlas in MS-DIAL 4. <i>Nature Biotechnology</i> , 2020, 38, 1159-1163.	17.5	424
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	LipidMatch: an automated workflow for rule-based lipid identification using untargeted high-resolution tandem mass spectrometry data. <i>BMC Bioinformatics</i> , 2017, 18, 331.	2.6	243
4	Expanding Lipidome Coverage Using LC-MS/MS Data-Dependent Acquisition with Automated Exclusion List Generation. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 908-917.	2.8	156
5	Lipid Annotator: Towards Accurate Annotation in Non-Targeted Liquid Chromatography High-Resolution Tandem Mass Spectrometry (LC-HRMS/MS) Lipidomics Using a Rapid and User-Friendly Software. <i>Metabolites</i> , 2020, 10, 101.	2.9	69
6	Effective Liquid Chromatographyâ€™Trapped Ion Mobility Spectrometryâ€™Mass Spectrometry Separation of Isomeric Lipid Species. <i>Analytical Chemistry</i> , 2019, 91, 5021-5027.	6.5	64
7	Toward Comprehensive Per- and Polyfluoroalkyl Substances Annotation Using FluoroMatch Software and Intelligent High-Resolution Tandem Mass Spectrometry Acquisition. <i>Analytical Chemistry</i> , 2020, 92, 11186-11194.	6.5	63
8	Common cases of improper lipid annotation using high-resolution tandem mass spectrometry data and corresponding limitations in biological interpretation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 766-770.	2.4	58
9	Optimization of Electrospray Ionization Source Parameters for Lipidomics To Reduce Misannotation of In-Source Fragments as Precursor Ions. <i>Analytical Chemistry</i> , 2018, 90, 13523-13532.	6.5	54
10	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021, 12, 4771.	12.8	54
11	Pioglitazone improves hepatic mitochondrial function in a mouse model of nonalcoholic steatohepatitis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E163-E173.	3.5	50
12	FluoroMatch 2.0â€™making automated and comprehensive non-targeted PFAS annotation a reality. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1201-1215.	3.7	48
13	LipidQC: Method Validation Tool for Visual Comparison to SRM 1950 Using NIST Interlaboratory Comparison Exercise Lipid Consensus Mean Estimate Values. <i>Analytical Chemistry</i> , 2017, 89, 13069-13073.	6.5	37
14	A Review of Efforts to Improve Lipid Stability during Sample Preparation and Standardization Efforts to Ensure Accuracy in the Reporting of Lipid Measurements. <i>Lipids</i> , 2021, 56, 3-16.	1.7	37
15	NIST lipidomics workflow questionnaire: an assessment of community-wide methodologies and perspectives. <i>Metabolomics</i> , 2018, 14, 53.	3.0	33
16	A Robust Lipidomics Workflow for Mammalian Cells, Plasma, and Tissue Using Liquid-Chromatography High-Resolution Tandem Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2017, 1609, 91-106.	0.9	31
17	The Efficient Removal of Heavy Metal Ions from Industry Effluents Using Waste Biomass as Low-Cost Adsorbent: Thermodynamic and Kinetic Models. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 527-543.	2.8	31
18	Software Comparison for Nontargeted Analysis of PFAS in AFFF-Contaminated Soil. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 840-846.	2.8	31

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19	Exploring the external exposome using wearable passive samplers - The China BAPE study. <i>Environmental Pollution</i> , 2021, 270, 116228.	7.5	30
20	LipidPioneer : A Comprehensive User-Generated Exact Mass Template for Lipidomics. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 562-565.	2.8	28
21	Prevalence and Implications of Per- and Polyfluoroalkyl Substances (PFAS) in Settled Dust. <i>Current Environmental Health Reports</i> , 2021, 8, 323-335.	6.7	25
22	Tissue distribution of perfluoroalkyl acids and health status in wild Mozambique tilapia ( <i>Oreochromis mossambicus</i> ) from Loskop Dam, Mpumalanga, South Africa. <i>Journal of Environmental Sciences</i> , 2017, 61, 59-67.	6.1	24
23	Environmental lipidomics: understanding the response of organisms and ecosystems to a changing world. <i>Metabolomics</i> , 2020, 16, 56.	3.0	24
24	Bibliometric Analysis of Phytotechnologies for Remediation: Global Scenario of Research and Applications. <i>International Journal of Phytoremediation</i> , 2015, 17, 145-153.	3.1	23
25	Developmental exposure of California mice to endocrine disrupting chemicals and potential effects on the microbiome-gut-brain axis at adulthood. <i>Scientific Reports</i> , 2020, 10, 10902.	3.3	23
26	Yale School of Public Health Symposium: An overview of the challenges and opportunities associated with per- and polyfluoroalkyl substances (PFAS). <i>Science of the Total Environment</i> , 2021, 778, 146192.	8.0	22
27	Changes in Sewage Sludge Chemical Signatures During a COVID-19 Community Lockdown, Part 1: Traffic, Drugs, Mental Health, and Disinfectants. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 1179-1192.	4.3	22
28	Software tool for internal standard based normalization of lipids, and effect of data-processing strategies on resulting values. <i>BMC Bioinformatics</i> , 2019, 20, 217.	2.6	21
29	Chronic maternal cortisol excess during late gestation leads to metabolic alterations in the newborn heart. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E546-E556.	3.5	21
30	Use of Exposomic Methods Incorporating Sensors in Environmental Epidemiology. <i>Current Environmental Health Reports</i> , 2021, 8, 34-41.	6.7	21
31	Occurrence and contamination profile of legacy and emerging per- and polyfluoroalkyl substances (PFAS) in Belgian wastewater using target, suspect and non-target screening approaches. <i>Journal of Hazardous Materials</i> , 2022, 437, 129378.	12.4	21
32	Addressing the challenges of E-cigarette safety profiling by assessment of pulmonary toxicological response in bronchial and alveolar mucosa models. <i>Scientific Reports</i> , 2020, 10, 20460.	3.3	20
33	Head, Shoulders, Knees, and Toes: Placement of Wearable Passive Samplers Alters Exposure Profiles Observed. <i>Environmental Science &amp; Technology</i> , 2021, 55, 3796-3806.	10.0	19
34	Multiomics approach reveals metabolic changes in the heart at birth. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1212-E1223.	3.5	18
35	Evolution of the liver biopsy and its future. <i>Translational Gastroenterology and Hepatology</i> , 2021, 6, 20-20.	3.0	18
36	Optimization of a liquid chromatography-ion mobility-high resolution mass spectrometry platform for untargeted lipidomics and application to HepaRG cell extracts. <i>Talanta</i> , 2021, 235, 122808.	5.5	18

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37	Exploring personal chemical exposures in China with wearable air pollutant monitors: A repeated-measure study in healthy older adults in Jinan, China. <i>Environment International</i> , 2021, 156, 106709.	10.0	16
38	Assessing the External Exposome Using Wearable Passive Samplers and High-Resolution Mass Spectrometry among South African Children Participating in the VHEMBE Study. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2191-2203.	10.0	16
39	Mass Spectrometric Methodologies for Investigating the Metabolic Signatures of Parkinson's Disease: Current Progress and Future Perspectives. <i>Analytical Chemistry</i> , 2018, 90, 2979-2986.	6.5	15
40	Lipidomics for wildlife disease etiology and biomarker discovery: a case study of pansteatitis outbreak in South Africa. <i>Metabolomics</i> , 2019, 15, 38.	3.0	11
41	Re-modeling of foliar membrane lipids in a seagrass allows for growth in phosphorus-deplete conditions. <i>PLoS ONE</i> , 2019, 14, e0218690.	2.5	11
42	Examining heat treatment for stabilization of the lipidome. <i>Bioanalysis</i> , 2018, 10, 291-305.	1.5	10
43	Ultrahigh-Performance Liquid Chromatography-High-Resolution Mass Spectrometry Metabolomics and Lipidomics Study of Stool from Transgenic Parkinson's Disease Mice Following Immunotherapy. <i>Journal of Proteome Research</i> , 2020, 19, 424-431.	3.7	6
44	Lipidomics and Redox Lipidomics Indicate Early Stage Alcohol-Induced Liver Damage. <i>Hepatology Communications</i> , 2022, 6, 513-525.	4.3	6
45	A Novel Technique for Redox Lipidomics Using Mass Spectrometry: Application on Vegetable Oils Used to Fry Potatoes. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1798-1809.	2.8	5
46	Characterizing the external exposome using passive samplers' comparative assessment of chemical exposures using different wearable form factors. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2023, 33, 558-565.	3.9	4
47	A histological evaluation of pansteatitis-affected Mozambique tilapia, <i>Oreochromis mossambicus</i> (Peters 1852), from different geographical locations in South Africa. <i>Journal of Fish Diseases</i> , 2020, 43, 1185-1199.	1.9	1
48	50 chemical exposures of concern discovered using wearable passive samplers and gas chromatography high-resolution mass spectrometry in South African children. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
49	FluoroMatch: A Comprehensive Software for Non-Targeted PFAS Analysis. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
50	Personal External Exposomes from Around the World. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0