

Christopher K Barlow

List of Publications by Year in descending order

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42
papers

2,743
citations

257101

24
h-index

288905

40
g-index

42
all docs

42
docs citations

42
times ranked

4166
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma lipid profiling in a large population-based cohort. <i>Journal of Lipid Research</i> , 2013, 54, 2898-2908.	2.0	304
2	Plasma Lipidomic Analysis of Stable and Unstable Coronary Artery Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2723-2732.	1.1	265
3	Plasma Lipid Profiling Shows Similar Associations with Prediabetes and Type 2 Diabetes. <i>PLoS ONE</i> , 2013, 8, e74341.	1.1	247
4	High-Throughput Plasma Lipidomics: Detailed Mapping of the Associations with Cardiometabolic Risk Factors. <i>Cell Chemical Biology</i> , 2019, 26, 71-84.e4.	2.5	219
5	Plasma Lipidomic Profiles Improve on Traditional Risk Factors for the Prediction of Cardiovascular Events in Type 2 Diabetes Mellitus. <i>Circulation</i> , 2016, 134, 1637-1650.	1.6	205
6	Lipidomics: Potential role in risk prediction and therapeutic monitoring for diabetes and cardiovascular disease. , 2014, 143, 12-23.		141
7	An Efficient Single Phase Method for the Extraction of Plasma Lipids. <i>Metabolites</i> , 2015, 5, 389-403.	1.3	136
8	Formation of Cationic Peptide Radicals by Gas-Phase Redox Reactions with Trivalent Chromium, Manganese, Iron, and Cobalt Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 6109-6115.	6.6	111
9	Large-scale plasma lipidomic profiling identifies lipids that predict cardiovascular events in secondary prevention. <i>JCI Insight</i> , 2018, 3, .	2.3	100
10	Plasma Lipidomic Profile Signature of Hypertension in Mexican American Families. <i>Hypertension</i> , 2013, 62, 621-626.	1.3	87
11	Designing copper(ii) ternary complexes to generate radical cations of peptides in the gas phase: Role of the auxiliary ligand. <i>Dalton Transactions</i> , 2004, , 3199.	1.6	76
12	Restriction of essential amino acids dictates the systemic metabolic response to dietary protein dilution. <i>Nature Communications</i> , 2020, 11, 2894.	5.8	71
13	Metal-Mediated Formation of Gas-Phase Amino Acid Radical Cations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8304-8315.	1.1	64
14	Human Plasma Lipidome Is Pleiotropically Associated With Cardiovascular Risk Factors and Death. <i>Circulation: Cardiovascular Genetics</i> , 2014, 7, 854-863.	5.1	56
15	Postprandial Plasma Phospholipids in Men Are Influenced by the Source of Dietary Fat. <i>Journal of Nutrition</i> , 2015, 145, 2012-2018.	1.3	54
16	Gas-phase regiocontrolled generation of charged amino acid and peptide radicals. <i>Chemical Communications</i> , 2006, , 4233.	2.2	52
17	Gas-phase peptide fragmentation: how understanding the fundamentals provides a springboard to developing new chemistry and novel proteomic tools. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1301-1319.	0.7	51
18	Plasmalogen modulation attenuates atherosclerosis in ApoE- and ApoE/GPx1-deficient mice. <i>Atherosclerosis</i> , 2015, 243, 598-608.	0.4	51

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19	Weight Loss and Exercise Alter the High-Density Lipoprotein Lipidome and Improve High-Density Lipoprotein Functionality in Metabolic Syndrome. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 438-447.	1.1	49
20	Lipidomic risk score independently and cost-effectively predicts risk of future type 2 diabetes: results from diverse cohorts. <i>Lipids in Health and Disease</i> , 2016, 15, 67.	1.2	44
21	Reconstituted high-density lipoprotein infusion modulates fatty acid metabolism in patients with type 2 diabetes mellitus. <i>Journal of Lipid Research</i> , 2011, 52, 572-581.	2.0	39
22	Circulating Lipids Are Associated with Alcoholic Liver Cirrhosis and Represent Potential Biomarkers for Risk Assessment. <i>PLoS ONE</i> , 2015, 10, e0130346.	1.1	33
23	Inclusion of Plasma Lipid Species Improves Classification of Individuals at Risk of Type 2 Diabetes. <i>PLoS ONE</i> , 2013, 8, e76577.	1.1	33
24	Plasma dihydroceramide species associate with waist circumference in Mexican American families. <i>Obesity</i> , 2014, 22, 950-956.	1.5	32
25	Peptide derivatization as a strategy to form fixed-charge peptide radicals. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2865-2870.	0.7	26
26	Comparative Metabolomics Reveals Key Pathways Associated With the Synergistic Killing of Colistin and Sulbactam Combination Against Multidrug-Resistant <i>Acinetobacter baumannii</i> . <i>Frontiers in Pharmacology</i> , 2019, 10, 754.	1.6	21
27	Gas-phase ion/ion reactions of transition metal complex cations with multiply charged oligodeoxynucleotide anions. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 281-293.	1.2	20
28	High density lipoprotein efficiently accepts surface but not internal oxidised lipids from oxidised low density lipoprotein. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 69-77.	1.2	16
29	Identification of Koala (<i>Phascolarctos cinereus</i>) Faecal Cortisol Metabolites Using Liquid Chromatography-Mass Spectrometry and Enzyme Immunoassays. <i>Metabolites</i> , 2021, 11, 393.	1.3	16
30	Variability in Associations of Phosphatidylcholine Molecular Species with Metabolic Syndrome in Mexican American Families. <i>Lipids</i> , 2013, 48, 497-503.	0.7	15
31	The formation and fragmentation of flavonoid radical anions. <i>International Journal of Mass Spectrometry</i> , 2011, 301, 174-183.	0.7	13
32	Changes in plasma lipids predict pravastatin efficacy in secondary prevention. <i>JCI Insight</i> , 2019, 4, .	2.3	13
33	Plasma lipidome is independently associated with variability in metabolic syndrome in Mexican American families. <i>Journal of Lipid Research</i> , 2014, 55, 939-946.	2.0	12
34	Comparative metabolomics revealed key pathways associated with the synergistic killing of multidrug-resistant <i>Klebsiella pneumoniae</i> by a bacteriophage-polymyxin combination. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 485-495.	1.9	12
35	How does acetylcholine lose trimethylamine? A density functional theory study of four competing mechanisms. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 238-246.	1.2	11
36	Molecular Basis of Unexpected Specificity of ABC Transporter-Associated Substrate-Binding Protein DppA from <i>Helicobacter pylori</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	11

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37	Genetic correlation of the plasma lipidome with type 2 diabetes, prediabetes and insulin resistance in Mexican American families. <i>BMC Genetics</i> , 2017, 18, 48.	2.7	10
38	Cellular and Structural Basis of Synthesis of the Unique Intermediate Dehydro-F ₄₂₀ -0 in Mycobacteria. <i>MSystems</i> , 2020, 5, .	1.7	9
39	Negative Ion Fragmentation of Cysteic Acid Containing Peptides: Cysteic Acid as a Fixed Negative Charge. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1622-1630.	1.2	8
40	An Integrated Multi-Omic Network Analysis Identifies Seizure-Associated Dysregulated Pathways in the GAERS Model of Absence Epilepsy. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6063.	1.8	6
41	Stable Isotopic Tracer Phospholipidomics Reveals Contributions of Key Phospholipid Biosynthetic Pathways to Low Hepatocyte Phosphatidylcholine to Phosphatidylethanolamine Ratio Induced by Free Fatty Acids. <i>Metabolites</i> , 2021, 11, 188.	1.3	4
42	DIPG-20. Copper chelation therapy targets S-adenosylmethionine (SAM) metabolism and epigenetic regulators in diffuse intrinsic pontine glioma (DIPG). <i>Neuro-Oncology</i> , 2022, 24, i22-i22.	0.6	0