## List of Publications by Year in descending order

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**CADY | ΡΑΤΤΙ** 

#	Article	IF	CITATIONS
1	Metabolomics: the apogee of the omics trilogy. Nature Reviews Molecular Cell Biology, 2012, 13, 263-269.	16.1	1,931
2	XCMS Online: A Web-Based Platform to Process Untargeted Metabolomic Data. Analytical Chemistry, 2012, 84, 5035-5039.	3.2	1,087
3	Exogenous Monounsaturated Fatty Acids Promote a Ferroptosis-Resistant Cell State. Cell Chemical Biology, 2019, 26, 420-432.e9.	2.5	556
4	An accelerated workflow for untargeted metabolomics using the METLIN database. Nature Biotechnology, 2012, 30, 826-828.	9.4	472
5	Metabolic oxidation regulates embryonic stem cell differentiation. Nature Chemical Biology, 2010, 6, 411-417.	3.9	454
6	Liquid chromatography quadrupole time-of-flight mass spectrometry characterization of metabolites guided by the METLIN database. Nature Protocols, 2013, 8, 451-460.	5.5	379
7	Interactive XCMS Online: Simplifying Advanced Metabolomic Data Processing and Subsequent Statistical Analyses. Analytical Chemistry, 2014, 86, 6931-6939.	3.2	332
8	Metabolism Links Bacterial Biofilms and Colon Carcinogenesis. Cell Metabolism, 2015, 21, 891-897.	7.2	288
9	Toward â€~Omic Scale Metabolite Profiling: A Dual Separation–Mass Spectrometry Approach for Coverage of Lipid and Central Carbon Metabolism. Analytical Chemistry, 2013, 85, 6876-6884.	3.2	242
10	Defining the Metabolome: Size, Flux, and Regulation. Molecular Cell, 2015, 58, 699-706.	4.5	234
11	Expanding Coverage of the Metabolome for Global Metabolite Profiling. Analytical Chemistry, 2011, 83, 2152-2161.	3.2	233
12	Lactate metabolism is associated with mammalian mitochondria. Nature Chemical Biology, 2016, 12, 937-943.	3.9	222
13	Systems-Level Annotation of a Metabolomics Data Set Reduces 25â€ <sup>−</sup> 000 Features to Fewer than 1000 Unique Metabolites. Analytical Chemistry, 2017, 89, 10397-10406.	3.2	220
14	Mitochondrial Pyruvate Import Promotes Long-Term Survival of Antibody-Secreting Plasma Cells. Immunity, 2016, 45, 60-73.	6.6	212
15	Mitochondrial fusion supports increased oxidative phosphorylation during cell proliferation. ELife, 2019, 8, .	2.8	198
16	Nicotinamide mononucleotide increases muscle insulin sensitivity in prediabetic women. Science, 2021, 372, 1224-1229.	6.0	192
17	Metabolomics implicates altered sphingolipids in chronic pain of neuropathic origin. Nature Chemical Biology, 2012, 8, 232-234.	3.9	183
18	Biomonitoring in the Era of the Exposome. Environmental Health Perspectives, 2017, 125, 502-510.	2.8	166

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19	Metabolic regulator LKB1 is crucial for Schwann cell–mediated axon maintenance. Nature Neuroscience, 2014, 17, 1351-1361.	7.1	163
20	Autonomous Metabolomics for Rapid Metabolite Identification in Global Profiling. Analytical Chemistry, 2015, 87, 884-891.	3.2	157
21	Ketogenesis prevents diet-induced fatty liver injury and hyperglycemia. Journal of Clinical Investigation, 2014, 124, 5175-5190.	3.9	156
22	Meta-analysis of untargeted metabolomic data from multiple profiling experiments. Nature Protocols, 2012, 7, 508-516.	5.5	154
23	X <sup>13</sup> CMS: Global Tracking of Isotopic Labels in Untargeted Metabolomics. Analytical Chemistry, 2014, 86, 1632-1639.	3.2	152
24	Nanostructure-Initiator Mass Spectrometry Metabolite Analysis and Imaging. Analytical Chemistry, 2011, 83, 2-7.	3.2	142
25	Identifying off-target effects of etomoxir reveals that carnitine palmitoyltransferase I is essential for cancer cell proliferation independent of β-oxidation. PLoS Biology, 2018, 16, e2003782.	2.6	141
26	Sorting cells alters their redox state and cellular metabolome. Redox Biology, 2018, 16, 381-387.	3.9	137
27	Variability Analysis of Human Plasma and Cerebral Spinal Fluid Reveals Statistical Significance of Changes in Mass Spectrometry-Based Metabolomics Data. Analytical Chemistry, 2009, 81, 8538-8544.	3.2	128
28	A roadmap for the XCMS family of software solutions in metabolomics. Current Opinion in Chemical Biology, 2016, 30, 87-93.	2.8	115
29	Thermal Degradation of Small Molecules: A Global Metabolomic Investigation. Analytical Chemistry, 2015, 87, 10935-10941.	3.2	112
30	Separation strategies for untargeted metabolomics. Journal of Separation Science, 2011, 34, 3460-3469.	1.3	109
31	Chemical Discovery in the Era of Metabolomics. Journal of the American Chemical Society, 2020, 142, 9097-9105.	6.6	106
32	Metabolic and Transcriptional Modules Independently Diversify Plasma Cell Lifespan and Function. Cell Reports, 2018, 24, 2479-2492.e6.	2.9	103
33	Exogenous Fatty Acids Are the Preferred Source of Membrane Lipids in Proliferating Fibroblasts. Cell Chemical Biology, 2016, 23, 483-493.	2.5	101
34	metaXCMS: Second-Order Analysis of Untargeted Metabolomics Data. Analytical Chemistry, 2011, 83, 696-700.	3.2	95
35	Detection of Carbohydrates and Steroids by Cation-Enhanced Nanostructure-Initiator Mass Spectrometry (NIMS) for Biofluid Analysis and Tissue Imaging. Analytical Chemistry, 2010, 82, 121-128.	3.2	94
36	The Disruption of <i>Celf6</i> , a Gene Identified by Translational Profiling of Serotonergic Neurons, Results in Autism-Related Behaviors. Journal of Neuroscience, 2013, 33, 2732-2753.	1.7	88

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37	Hepatocyte-Macrophage Acetoacetate Shuttle Protects against Tissue Fibrosis. Cell Metabolism, 2019, 29, 383-398.e7.	7.2	87
38	A View from Above: Cloud Plots to Visualize Global Metabolomic Data. Analytical Chemistry, 2013, 85, 798-804.	3.2	85
39	Global metabolomics reveals metabolic dysregulation in ischemic retinopathy. Metabolomics, 2016, 12, 15.	1.4	80
40	Credentialing Features: A Platform to Benchmark and Optimize Untargeted Metabolomic Methods. Analytical Chemistry, 2014, 86, 9583-9589.	3.2	79
41	Vancomycin and Oritavancin Have Different Modes of Action in Enterococcus faecium. Journal of Molecular Biology, 2009, 392, 1178-1191.	2.0	74
42	Consumption of NADPH for 2-HG Synthesis Increases Pentose Phosphate Pathway Flux and Sensitizes Cells to Oxidative Stress. Cell Reports, 2018, 22, 512-522.	2.9	74
43	Radioresistant Cervical Cancers Are Sensitive to Inhibition of Glycolysis and Redox Metabolism. Cancer Research, 2018, 78, 1392-1403.	0.4	69
44	An Untargeted Metabolomic Workflow to Improve Structural Characterization of Metabolites. Analytical Chemistry, 2013, 85, 7713-7719.	3.2	67
45	International Ring Trial of a High Resolution Targeted Metabolomics and Lipidomics Platform for Serum and Plasma Analysis. Analytical Chemistry, 2019, 91, 14407-14416.	3.2	66
46	Defining and Detecting Complex Peak Relationships in Mass Spectral Data: The Mz.unity Algorithm. Analytical Chemistry, 2016, 88, 9037-9046.	3.2	65
47	Arteriovenous Blood Metabolomics: A Readout of Intra-Tissue Metabostasis. Scientific Reports, 2015, 5, 12757.	1.6	62
48	Longitudinal metabolomics of human plasma reveals prognostic markers of COVID-19 disease severity. Cell Reports Medicine, 2021, 2, 100369.	3.3	61
49	Impaired skeletal muscle mitochondrial pyruvate uptake rewires glucose metabolism to drive whole-body leanness. ELife, 2019, 8, .	2.8	54
50	Isotope Tracing Untargeted Metabolomics Reveals Macrophage Polarization-State-Specific Metabolic Coordination across Intracellular Compartments. IScience, 2018, 9, 298-313.	1.9	53
51	Hepatic ketogenic insufficiency reprograms hepatic glycogen metabolism and the lipidome. JCI Insight, 2018, 3, .	2.3	51
52	Comprehensive bioimaging with fluorinated nanoparticles using breathable liquids. Nature Communications, 2015, 6, 5998.	5.8	50
53	Metabolomic data streaming for biology-dependent data acquisition. Nature Biotechnology, 2014, 32, 524-527.	9.4	45
54	isoMETLIN: A Database for Isotope-Based Metabolomics. Analytical Chemistry, 2014, 86, 9358-9361.	3.2	41

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55	Inaccurate quantitation of palmitate in metabolomics and isotope tracer studies due to plastics. Metabolomics, 2016, 12, 1.	1.4	40
56	After the feature presentation: technologies bridging untargeted metabolomics and biology. Current Opinion in Biotechnology, 2014, 28, 143-148.	3.3	38
57	Dietary serine-microbiota interaction enhances chemotherapeutic toxicity without altering drug conversion. Nature Communications, 2020, 11, 2587.	5.8	37
58	DecoID improves identification rates in metabolomics through database-assisted MS/MS deconvolution. Nature Methods, 2021, 18, 779-787.	9.0	34
59	Characterization of the Peptidoglycan of Vancomycin-Susceptible Enterococcus faecium. Biochemistry, 2008, 47, 8378-8385.	1.2	32
60	Trace Phosphate Improves ZIC-pHILIC Peak Shape, Sensitivity, and Coverage for Untargeted Metabolomics. Journal of Proteome Research, 2018, 17, 3537-3546.	1.8	32
61	A Practical Guide to Metabolomics Software Development. Analytical Chemistry, 2021, 93, 1912-1923.	3.2	30
62	lsotope tracing in adult zebrafish reveals alanine cycling between melanoma and liver. Cell Metabolism, 2021, 33, 1493-1504.e5.	7.2	29
63	Mechanism of High-Level Daptomycin Resistance in <i>Corynebacterium striatum</i> . MSphere, 2018, 3, .	1.3	28
64	Warpgroup: increased precision of metabolomic data processing by consensus integration bound analysis. Bioinformatics, 2016, 32, 268-275.	1.8	26
65	Systems-level analysis of isotopic labeling in untargeted metabolomic data by X13CMS. Nature Protocols, 2019, 14, 1970-1990.	5.5	26
66	Two complementary reversed-phase separations forÂcomprehensive coverage of the semipolar and nonpolar metabolome. Analytical and Bioanalytical Chemistry, 2018, 410, 1287-1297.	1.9	25
67	Glutaminase Inhibitors Induce Thiol-Mediated Oxidative Stress and Radiosensitization in Treatment-Resistant Cervical Cancers. Molecular Cancer Therapeutics, 2020, 19, 2465-2475.	1.9	25
68	Meta-analysis of global metabolomic data identifies metabolites associated with life-span extension. Metabolomics, 2014, 10, 737-743.	1.4	24
69	Targeting unique biological signals on the fly to improve MS/MS coverage and identification efficiency in metabolomics. Analytica Chimica Acta, 2021, 1149, 338210.	2.6	23
70	A Workflow to Perform Targeted Metabolomics at the Untargeted Scale on a Triple Quadrupole Mass Spectrometer. ACS Measurement Science Au, 2021, 1, 35-45.	1.9	23
71	Characterization of structural variations in the peptidoglycan of vancomycin-susceptible <i>Enterococcus faecium</i> : Understanding glycopeptide-antibiotic binding sites using mass spectrometry. Journal of the American Society for Mass Spectrometry, 2008, 19, 1467-1475.	1.2	22
72	Dose-Response Metabolomics To Understand Biochemical Mechanisms and Off-Target Drug Effects with the TOXcms Software. Analytical Chemistry, 2020, 92, 1856-1864.	3.2	22

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73	Mitochondrial pyruvate carrier inhibitors improve metabolic parameters in diet-induced obese mice. Journal of Biological Chemistry, 2022, 298, 101554.	1.6	20
74	Differential Incorporation of Glucose into Biomass during Warburg Metabolism. Biochemistry, 2014, 53, 4755-4757.	1.2	19
75	Inflammation triggers production of dimethylsphingosine from oligodendrocytes. Neuroscience, 2014, 279, 113-121.	1.1	18
76	Discriminating precursors of common fragments for large-scale metabolite profiling by triple quadrupole mass spectrometry. Bioinformatics, 2015, 31, 2017-2023.	1.8	18
77	Silencing alanine transaminase 2 in diabetic liver attenuates hyperglycemia by reducing gluconeogenesis from amino acids. Cell Reports, 2022, 39, 110733.	2.9	18
78	Knockdown of triglyceride synthesis does not enhance palmitate lipotoxicity or prevent oleate-mediated rescue in rat hepatocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1005-1014.	1.2	16
79	Perspectives on Data Analysis in Metabolomics: Points of Agreement and Disagreement from the 2018 ASMS Fall Workshop. Journal of the American Society for Mass Spectrometry, 2019, 30, 2031-2036.	1.2	16
80	A Protocol to Compare Methods for Untargeted Metabolomics. Methods in Molecular Biology, 2019, 1862, 1-15.	0.4	16
81	Deletion of Glut1 in early postnatal cartilage reprograms chondrocytes toward enhanced glutamine oxidation. Bone Research, 2021, 9, 38.	5.4	16
82	HERMES: a molecular-formula-oriented method to target the metabolome. Nature Methods, 2021, 18, 1370-1376.	9.0	16
83	Loss of SNORA73 reprograms cellular metabolism and protects against steatohepatitis. Nature Communications, 2021, 12, 5214.	5.8	14
84	Hepatic monoacylglycerol acyltransferase 1 is induced by prolonged food deprivation to modulate the hepatic fasting response. Journal of Lipid Research, 2019, 60, 528-538.	2.0	12
85	HIF11 $\pm$ is required for NK cell metabolic adaptation during virus infection. ELife, 2021, 10, .	2.8	12
86	Variability in C <sub>3</sub> -Plant Cell-Wall Biosynthesis in a High-CO <sub>2</sub> Atmosphere by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 6335-6341.	6.6	11
87	Alteration of Cellular Reduction Potential Will Change 64Cu-ATSM Signal With or Without Hypoxia. Journal of Nuclear Medicine, 2020, 61, 427-432.	2.8	11
88	Evidence that 2-hydroxyglutarate is not readily metabolized in colorectal carcinoma cells. Cancer & Metabolism, 2015, 3, 13.	2.4	10
89	Method Revealing Bacterial Cell-Wall Architecture by Time-Dependent Isotope Labeling and Quantitative Liquid Chromatography/Mass Spectrometry. Analytical Chemistry, 2009, 81, 2437-2445.	3.2	9
90	Alterations in Spinal Cord Metabolism during Treatment of Neuropathic Pain. Journal of NeuroImmune Pharmacology, 2015, 10, 396-401.	2.1	8

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91	Determining conserved metabolic biomarkers from a million database queries. Bioinformatics, 2015, 31, 3721-3724.	1.8	8
92	Ontology-based metabolomics data integration with quality control. Bioanalysis, 2019, 11, 1139-1154.	0.6	7
93	A Protocol for Untargeted Metabolomic Analysis: From Sample Preparation to Data Processing. Methods in Molecular Biology, 2021, 2276, 357-382.	0.4	7
94	Targeting fatty acid $\hat{I}^2$ -oxidation impairs monocyte differentiation and prolongs heart allograft survival. JCI Insight, 2022, 7, .	2.3	7
95	Oxygen-17 Appears Only in Protein in Water-Stressed Soybean Leaves Labeled by <sup>17</sup> O <sub>2</sub> . Journal of the American Chemical Society, 2010, 132, 10802-10807.	6.6	6
96	Transport-exclusion pharmacology to localize lactate dehydrogenase activity within cells. Cancer & Metabolism, 2018, 6, 19.	2.4	6
97	Combining Isotopologue Workflows and Simultaneous Multidimensional Separations to Detect, Identify, and Validate Metabolites in Untargeted Analyses. Analytical Chemistry, 2022, 94, 2527-2535.	3.2	6
98	Bar Coding MS <sup>2</sup> Spectra for Metabolite Identification. Analytical Chemistry, 2016, 88, 2538-2542.	3.2	4
99	Profiling cancer metabolism at the â€~omic' level: a last resort or the next frontier?. Cancer & Metabolism, 2016, 4, 2.	2.4	3
100	Leveraging insights into cancer metabolism—a symposium report. Annals of the New York Academy of Sciences, 2020, 1462, 5-13.	1.8	3
101	Meta-analysis of global metabolomics and proteomics data to link alterations with phenotype. Spectroscopy, 2011, 26, 151-154.	0.8	0
102	AVB-500, a selective inhibitor of GAS6-AXL, in combination with paclitaxel alters uterine serous cancer cell metabolism. Gynecologic Oncology, 2021, 162, S97.	0.6	0
103	Preventing ovarian cancer cell metastasis through inhibition of discoidin domain receptor 2 (DDR2) in the tumor microenvironment: a metabolomic analysis. Gynecologic Oncology, 2021, 162, S245.	0.6	0
104	Quantitative rotational-echo double resonance for Carbon-13 spin clusters. Journal of Magnetic Resonance, 2021, 330, 107043.	1.2	0
105	Metabolite Concentrations Are Unstable during Cell Sorting. FASEB Journal, 2018, 32, 658.11.	0.2	0
106	Understanding the Impact of IDH2 Mutations on the Redox Balance of Cancer Cells. FASEB Journal, 2018, 32, 811.13.	0.2	0