Nathaniel Snyder

List of Publications by Year
in descending order

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93 papers	7,070 citations	94433 37 h-index	64796 79 g-index
114 all docs	114 docs citations	114 times ranked	11741 citing authors

#	Article	IF	Citations
1	Examining associations between prenatal biomarkers of oxidative stress and ASD-related outcomes using quantile regression. Journal of Autism and Developmental Disorders, 2023, 53, 2975-2985.	2.7	3
2	Quantitative subcellular acyl-CoA analysis reveals distinct nuclear metabolism and isoleucine-dependent histone propionylation. Molecular Cell, 2022, 82, 447-462.e6.	9.7	45
3	Integrated -omics approach reveals persistent DNA damage rewires lipid metabolism and histone hyperacetylation via MYS-1/Tip60. Science Advances, 2022, 8, eabl6083.	10.3	10
4	O-GlcNAc transferase regulates glioblastoma acetate metabolism via regulation of CDK5-dependent ACSS2 phosphorylation. Oncogene, 2022, 41, 2122-2136.	5.9	29
5	Myocardial GRK2 Reduces Fatty Acid Metabolism and Î²-Adrenergic Receptor-Mediated Mitochondrial Responses. International Journal of Molecular Sciences, 2022, 23, 2777.	4.1	5
6	Glucocorticoid Receptor Overexpression in the Dorsal Hippocampus Attenuates Spatial Learning and Synaptic Plasticity Deficits after Pediatric Traumatic Brain Injury. Journal of Neurotrauma, 2022, 39, 979-998.	3.4	7
7	Cumulus cell acetyl-CoA metabolism from acetate is associated with maternal age but only partially with oocyte maturity. Systems Biology in Reproductive Medicine, 2022, 68, 36-43.	2.1	1
8	Direct anabolic metabolism of three-carbon propionate to a six-carbon metabolite occurs inÂvivo across tissues and species. Journal of Lipid Research, 2022, 63, 100224.	4.2	1
9	Association Between Midpregnancy Polyunsaturated Fatty Acid Levels and Offspring Autism Spectrum Disorder in a California Population-Based Case-Control Study. American Journal of Epidemiology, 2021, 190, 265-276.	3.4	6
10	Messenger RNA 5â€² NAD+ Capping Is a Dynamic Regulatory Epitranscriptome Mark That Is Required for Proper Response to Abscisic Acid in Arabidopsis. Developmental Cell, 2021, 56, 125-140.e6.	7.0	40
11	Immunological Feature and Transcriptional Signaling of Ly6C Monocyte Subsets From Transcriptome Analysis in Control and Hyperhomocysteinemic Mice. Frontiers in Immunology, 2021, 12, 632333.	4.8	11
12	Histone crotonylation promotes mesoendodermal commitment of human embryonic stem cells. Cell Stem Cell, 2021, 28, 748-763.e7.	11.1	59
13	The deacylase SIRT5 supports melanoma viability by influencing chromatin dynamics. Journal of Clinical Investigation, 2021, 131, .	8.2	23
14	CAR T-Cells Depend on the Coupling of NADH Oxidation with ATP Production. Cells, 2021, 10, 2334.	4.1	7
15	Prenatal phthalate exposure measurement: A comparison of metabolites quantified in prenatal maternal urine and newborn's meconium. Science of the Total Environment, 2021, 796, 148898.	8.0	6
16	Primary saturation of Î±, Î²-unsaturated carbonyl containing fatty acids does not abolish electrophilicity. Chemico-Biological Interactions, 2021, 350, 109689.	4.0	1
17	Malateâ€“aspartate shuttle promotes <scp>l</scp>â€lactate oxidation in mitochondria. Journal of Cellular Physiology, 2020, 235, 2569-2581.	4.1	17
18	Meconium androgens are correlated with ASD-related phenotypic traits in early childhood in a familial enriched risk cohort. Molecular Autism, 2020, 11, 93.	4.9	7

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19	Quantification of lactoyl-CoA (lactyl-CoA) by liquid chromatography mass spectrometry in mammalian cells and tissues. Open Biology, 2020, 10, 200187.	3.6	38
20	Dietary fructose feeds hepatic lipogenesis via microbiota-derived acetate. Nature, 2020, 579, 586-591.	27.8	314
21	Compartmentalised acyl-CoA metabolism and roles in chromatin regulation. Molecular Metabolism, 2020, 38, 100941.	6.5	146
22	mTORC2-AKT signaling to ATP-citrate lyase drives brown adipogenesis and de novo lipogenesis. Nature Communications, 2020, 11, 575.	12.8	97
23	Glycerol phosphate shuttle enzyme GPD2 regulates macrophage inflammatory responses. Nature Immunology, 2019, 20, 1186-1195.	14.5	126
24	Suppression of p16 Induces mTORC1-Mediated Nucleotide Metabolic Reprogramming. Cell Reports, 2019, 28, 1971-1980.e8.	6.4	42
25	Association of serum androgens and coronary artery calcium scores in women. Fertility and Sterility, 2019, 112, 586-593.	1.0	10
26	Regulation of nuclear epigenome by mitochondrial DNA heteroplasmy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16028-16035.	7.1	108
27	Subcellular metabolic pathway kinetics are revealed by correcting for artifactual post harvest metabolism. Molecular Metabolism, 2019, 30, 61-71.	6.5	24
28	Crosstalk between cellular metabolism and histone acetylation. Methods in Enzymology, 2019, 626, 1-21.	1.0	14
29	Metabolic rewiring of macrophages by CpG potentiates clearance of cancer cells and overcomes tumor-expressed CD47â˜'mediated â€˜donâ€™t-eat-meâ€™ signal. Nature Immunology, 2019, 20, 265-275.	14.5	193
30	Adipocyte ACLY Facilitates Dietary Carbohydrate Handling to Maintain Metabolic Homeostasis in Females. Cell Reports, 2019, 27, 2772-2784.e6.	6.4	49
31	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. Cell Metabolism, 2019, 30, 174-189.e5.	16.2	141
32	Targeting IDH1 as a Prosenescent Therapy in High-grade Serous Ovarian Cancer. Molecular Cancer Research, 2019, 17, 1710-1720.	3.4	36
33	Preliminary results of identification and quantification of paclitaxel and its metabolites in human meconium from newborns with gestational chemotherapeutic exposure. PLoS ONE, 2019, 14, e0211821.	2.5	9
34	Should we consider subcellular compartmentalization of metabolites, and if so, how do we measure them?. Current Opinion in Clinical Nutrition and Metabolic Care, 2019, 22, 347-354.	2.5	40
35	Safety, pharmacodynamics, and potential benefit of omaveloxolone in Friedreich ataxia. Annals of Clinical and Translational Neurology, 2019, 6, 15-26.	3.7	105
36	Acetyl-CoA Metabolism Supports Multistep Pancreatic Tumorigenesis. Cancer Discovery, 2019, 9, 416-435.	9.4	184

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37	Simultaneous isotope dilution quantification and metabolic tracing of deoxyribonucleotides by liquid chromatography high resolution mass spectrometry. Analytical Biochemistry, 2019, 568, 65-72.	2.4	14
38	N-acetylaspartate pathway is nutrient responsive and coordinates lipid and energy metabolism in brown adipocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 337-348.	4.1	37
39	Lipid Synthesis Is Required to Resolve Endoplasmic Reticulum Stress and Limit Fibrotic Responses in the Lung. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 225-236.	2.9	48
40	Acetyl-CoA promotes glioblastoma cell adhesion and migration through Ca²⁺â€“NFAT signaling. Genes and Development, 2018, 32, 497-511.	5.9	97
41	The CPT1a inhibitor, etomoxir induces severe oxidative stress at commonly used concentrations. Scientific Reports, 2018, 8, 6289.	3.3	119
42	Defining Metabolic and Nonmetabolic Regulation of Histone Acetylation by NSAID Chemotypes. Molecular Pharmaceutics, 2018, 15, 729-736.	4.6	4
43	Bioorthogonal pro-metabolites for profiling short chain fatty acylation. Chemical Science, 2018, 9, 1236-1241.	7.4	12
44	Gestational Diabetes Alters the Metabolomic Profile in 2nd Trimester Amniotic Fluid in a Sex-Specific Manner. International Journal of Molecular Sciences, 2018, 19, 2696.	4.1	38
45	Mice exposed to bisphenol A exhibit depressive-like behavior with neurotransmitter and neuroactive steroid dysfunction. Hormones and Behavior, 2018, 102, 93-104.	2.1	46
46	Artefactual formation of pyruvate from inâ€source conversion of lactate. Rapid Communications in Mass Spectrometry, 2018, 32, 1163-1168.	1.5	6
47	Oral nitrite restores age-dependent phenotypes in eNOS-null mice. JCI Insight, 2018, 3, .	5.0	9
48	Low apolipoprotein A-I levels in Friedreichâ€™s ataxia and in frataxin-deficient cells: Implications for therapy. PLoS ONE, 2018, 13, e0192779.	2.5	13
49	Differences in testosterone and its precursors by sex of the offspring in meconium. Journal of Steroid Biochemistry and Molecular Biology, 2017, 167, 78-85.	2.5	11
50	Impact of a High-fat Diet on Tissue Acyl-CoA and Histone Acetylation Levels. Journal of Biological Chemistry, 2017, 292, 3312-3322.	3.4	128
51	Discovering Targets of Non-enzymatic Acylation by Thioester Reactivity Profiling. Cell Chemical Biology, 2017, 24, 231-242.	5.2	79
52	Coenzyme A thioester formation of 11- and 15-oxo-eicosatetraenoic acid. Prostaglandins and Other Lipid Mediators, 2017, 130, 1-7.	1.9	0
53	The Changing Epidemiology of Autism Spectrum Disorders. Annual Review of Public Health, 2017, 38, 81-102.	17.4	669
54	Stable isotope labeling by essential nutrients in cell culture (SILEC) for accurate measurement of nicotinamide adenine dinucleotide metabolism. Analyst, The, 2017, 142, 4431-4437.	3.5	9

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55	Metabolic tracing analysis reveals substrateâ€specific metabolic deficits in platelet storage lesion. Transfusion, 2017, 57, 2683-2689.	1.6	4
56	Comparison of statistical methods for detection of serum lipid biomarkers for mesothelioma and asbestos exposure. Biomarkers in Medicine, 2017, 11, 547-556.	1.4	1
57	Relationship of SULT1A1 copy number variation with estrogen metabolism and human health. Journal of Steroid Biochemistry and Molecular Biology, 2017, 174, 169-175.	2.5	10
58	Susceptibility to traumatic stress sensitizes the dopaminergic response to cocaine and increases motivation for cocaine. Neuropharmacology, 2017, 125, 295-307.	4.1	48
59	Adrenocortical carcinoma and succinate dehydrogenase gene mutations: an observational case series. European Journal of Endocrinology, 2017, 177, 439-444.	3.7	23
60	Characterization of histone acylations links chromatin modifications with metabolism. Nature Communications, 2017, 8, 1141.	12.8	145
61	Second trimester amniotic fluid bisphenol A concentration is associated with decreased birth weight in term infants. Reproductive Toxicology, 2017, 67, 1-9.	2.9	62
62	Akt-mTORC1 signaling regulates Acly to integrate metabolic input to control of macrophage activation. ELife, 2016, 5, .	6.0	324
63	AMPK Activation and Metabolic Reprogramming by Tamoxifen through Estrogen Receptorâ€“Independent Mechanisms Suggests New Uses for This Therapeutic Modality in Cancer Treatment. Cancer Research, 2016, 76, 3295-3306.	0.9	69
64	Diisopropylethylamine/hexafluoroisopropanol-mediated ion-pairing ultra-high-performance liquid chromatography/mass spectrometry for phosphate and carboxylate metabolite analysis: utility for studying cellular metabolism. Rapid Communications in Mass Spectrometry, 2016, 30, 1835-1845.	1.5	45
65	Validation of highly sensitive simultaneous targeted and untargeted analysis of keto-steroids by Girard P derivatization and stable isotope dilution-liquid chromatography-high resolution mass spectrometry. Steroids, 2016, 116, 60-66.	1.8	26
66	ATP-Citrate Lyase Controls a Glucose-to-Acetate Metabolic Switch. Cell Reports, 2016, 17, 1037-1052.	6.4	282
67	FluxFix: automatic isotopologue normalization for metabolic tracer analysis. BMC Bioinformatics, 2016, 17, 485.	2.6	72
68	LC-MS Analysis of Human Platelets as a Platform for Studying Mitochondrial Metabolism. Journal of Visualized Experiments, 2016, , e53941.	0.3	6
69	Distinct Signaling of Coreceptors Regulates Specific Metabolism Pathways and Impacts Memory Development in CAR T Cells. Immunity, 2016, 44, 380-390.	14.3	811
70	Evidence for Intramyocardial Disruption of Lipid Metabolism and Increased Myocardial Ketone Utilization in Advanced Human Heart Failure. Circulation, 2016, 133, 706-716.	1.6	448
71	LC-quadrupole/Orbitrap high-resolution mass spectrometry enables stable isotope-resolved simultaneous quantification and 13C-isotopic labeling of acyl-coenzyme A thioesters. Analytical and Bioanalytical Chemistry, 2016, 408, 3651-3658.	3.7	77
72	Programmed death ligand-1 expression on donor T cells drives graft-versus-host disease lethality. Journal of Clinical Investigation, 2016, 126, 2642-2660.	8.2	81

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73	Serum apolipoprotein A-1 quantification by LCâ€“MS with a SILAC internal standard reveals reduced levels in smokers. Bioanalysis, 2015, 7, 2895-2911.	1.5	28
74	ATM Couples Replication Stress and Metabolic Reprogramming during Cellular Senescence. Cell Reports, 2015, 11, 893-901.	6.4	94
75	Metabolism of propionic acid to a novel acyl-coenzyme A thioester by mammalian cell lines and platelets. Journal of Lipid Research, 2015, 56, 142-150.	4.2	16
76	Ultrasensitive quantification of serum estrogens in postmenopausal women and older men by liquid chromatographyâ€“tandem mass spectrometry. Steroids, 2015, 96, 140-152.	1.8	47
77	Production of stable isotope-labeled acyl-coenzyme A thioesters by yeast stable isotope labeling by essential nutrients in cell culture. Analytical Biochemistry, 2015, 474, 59-65.	2.4	51
78	Rotenone Stereospecifically Increases (S)-2-Hydroxyglutarate in SH-SY5Y Neuronal Cells. Chemical Research in Toxicology, 2015, 28, 948-954.	3.3	11
79	15-Oxoeicosatetraenoic acid is a 15-hydroxyprostaglandin dehydrogenase-derived electrophilic mediator of inflammatory signaling pathways. Chemico-Biological Interactions, 2015, 234, 144-153.	4.0	31
80	Bioanalytical techniques for detecting biomarkers of response to human asbestos exposure. Bioanalysis, 2015, 7, 1157-1173.	1.5	15
81	Biosynthesis and actions of 5-oxoeicosatetraenoic acid (5-oxo-ETE) on feline granulocytes. Biochemical Pharmacology, 2015, 96, 247-255.	4.4	14
82	Translational metabolomics in cancer research. Biomarkers in Medicine, 2015, 9, 821-834.	1.4	18
83	Stable isotopes and LCâ€“MS for monitoring metabolic disturbances in Friedreich's ataxia platelets. Bioanalysis, 2015, 7, 1843-1855.	1.5	26
84	Stable isotope dilution liquid chromatography/mass spectrometry analysis of cellular and tissue medium- and long-chain acyl-coenzyme A thioesters. Rapid Communications in Mass Spectrometry, 2014, 28, 1840-1848.	1.5	27
85	Crystal Structures of the Toll/Interleukin-1 Receptor (TIR) Domains from the Brucella Protein TcpB and Host Adaptor TIRAP Reveal Mechanisms of Molecular Mimicry. Journal of Biological Chemistry, 2014, 289, 669-679.	3.4	66
86	Inhibition of Neuronal Cell Mitochondrial Complex I with Rotenone Increases Lipid Î²-Oxidation, Supporting Acetyl-Coenzyme A Levels. Journal of Biological Chemistry, 2014, 289, 26895-26903.	3.4	42
87	Akt-Dependent Metabolic Reprogramming Regulates Tumor Cell Histone Acetylation. Cell Metabolism, 2014, 20, 306-319.	16.2	473
88	Molecular mechanisms for the subversion of MyD88 signaling by TcpC from virulent uropathogenic Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6985-6990.	7.1	77
89	Cellular uptake and antiproliferative effects of 11-oxo-eicosatetraenoic acid. Journal of Lipid Research, 2013, 54, 3070-3077.	4.2	12
90	Untargeted Metabolomics from Biological Sources Using Ultraperformance Liquid Chromatography-High Resolution Mass Spectrometry (UPLC-HRMS). Journal of Visualized Experiments, 2013, , e50433.	0.3	23

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91	11-Oxoeicosatetraenoic Acid Is a Cyclooxygenase-2/15-Hydroxyprostaglandin Dehydrogenase-Derived Antiproliferative Eicosanoid. Chemical Research in Toxicology, 2011, 24, 2227-2236.	3.3	23
92	Adipocyte ACLY Facilitates Dietary Carbohydrate Handling and Protects Against Insulin Resistance in Females. SSRN Electronic Journal, 0, , .	0.4	0
93	UCP2 modulates cardiomyocyte cell cycle activity, acetyl-CoA and histone acetylation in response to moderate hypoxia. JCI Insight, 0, , .	5.0	8