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	Distinct Signaling of Coreceptors Regulates Specific Metabolism Pathways and Impacts Memory Development in CAR T Cells. Immunity, 2016, 44, 380-390.	14.3	811
2	The Changing Epidemiology of Autism Spectrum Disorders. Annual Review of Public Health, 2017, 38, 81-102.	17.4	669
3	Akt-Dependent Metabolic Reprogramming Regulates Tumor Cell Histone Acetylation. Cell Metabolism, 2014, 20, 306-319.	16.2	473
4	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
5	Akt-mTORC1 signaling regulates Acly to integrate metabolic input to control of macrophage activation. ELife, 2016, 5, .	6.0	324
6	Dietary fructose feeds hepatic lipogenesis via microbiota-derived acetate. Nature, 2020, 579, 586-591.	27.8	314
7	ATP-Citrate Lyase Controls a Glucose-to-Acetate Metabolic Switch. Cell Reports, 2016, 17, 1037-1052.	6.4	282
8	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
9	Acetyl-CoA Metabolism Supports Multistep Pancreatic Tumorigenesis. Cancer Discovery, 2019, 9, 416-435.	9.4	184
10	Compartmentalised acyl-CoA metabolism and roles in chromatin regulation. Molecular Metabolism, 2020, 38, 100941.	6.5	146
11	Characterization of histone acylations links chromatin modifications with metabolism. Nature Communications, 2017, 8, 1141.	12.8	145
12	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. Cell Metabolism, 2019, 30, 174-189.e5.	16.2	141
13	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
14	Glycerol phosphate shuttle enzyme GPD2 regulates macrophage inflammatory responses. Nature Immunology, 2019, 20, 1186-1195.	14.5	126
15	The CPT1a inhibitor, etomoxir induces severe oxidative stress at commonly used concentrations. Scientific Reports, 2018, 8, 6289.	3.3	119
16	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
17	Safety, pharmacodynamics, and potential benefit of omaveloxolone in Friedreich ataxia. Annals of Clinical and Translational Neurology, 2019, 6, 15-26.	3.7	105
18	Acetyl-CoA promotes glioblastoma cell adhesion and migration through Ca²⁺â€“NFAT signaling. Genes and Development, 2018, 32, 497-511.	5.9	97

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19	mTORC2-AKT signaling to ATP-citrate lyase drives brown adipogenesis and de novo lipogenesis. Nature Communications, 2020, 11, 575.	12.8	97
20	ATM Couples Replication Stress and Metabolic Reprogramming during Cellular Senescence. Cell Reports, 2015, 11, 893-901.	6.4	94
21	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
22	Discovering Targets of Non-enzymatic Acylation by Thioester Reactivity Profiling. Cell Chemical Biology, 2017, 24, 231-242.	5.2	79
23	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
24	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
25	FluxFix: automatic isotopologue normalization for metabolic tracer analysis. BMC Bioinformatics, 2016, 17, 485.	2.6	72
26	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
27	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
28	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
29	Histone crotonylation promotes mesoendodermal commitment of human embryonic stem cells. Cell Stem Cell, 2021, 28, 748-763.e7.	11.1	59
30	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
31	Adipocyte ACLY Facilitates Dietary Carbohydrate Handling to Maintain Metabolic Homeostasis in Females. Cell Reports, 2019, 27, 2772-2784.e6.	6.4	49
32	Susceptibility to traumatic stress sensitizes the dopaminergic response to cocaine and increases motivation for cocaine. Neuropharmacology, 2017, 125, 295-307.	4.1	48
33	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
34	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
35	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
36	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

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37	Quantitative subcellular acyl-CoA analysis reveals distinct nuclear metabolism and isoleucine-dependent histone propionylation. Molecular Cell, 2022, 82, 447-462.e6.	9.7	45
38	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
39	Suppression of p16 Induces mTORC1-Mediated Nucleotide Metabolic Reprogramming. Cell Reports, 2019, 28, 1971-1980.e8.	6.4	42
40	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
41	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
42	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
43	Quantification of lactoyl-CoA (lactyl-CoA) by liquid chromatography mass spectrometry in mammalian cells and tissues. Open Biology, 2020, 10, 200187.	3.6	38
44	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
45	Targeting IDH1 as a Prosenescent Therapy in High-grade Serous Ovarian Cancer. Molecular Cancer Research, 2019, 17, 1710-1720.	3.4	36
46	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
47	O-GlcNAc transferase regulates glioblastoma acetate metabolism via regulation of CDK5-dependent ACSS2 phosphorylation. Oncogene, 2022, 41, 2122-2136.	5.9	29
48	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
49	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
50	Stable isotopes and LCâ€“MS for monitoring metabolic disturbances in Friedreich's ataxia platelets. Bioanalysis, 2015, 7, 1843-1855.	1.5	26
51	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
52	Subcellular metabolic pathway kinetics are revealed by correcting for artifactual post harvest metabolism. Molecular Metabolism, 2019, 30, 61-71.	6.5	24
53	11-Oxoeicosatetraenoic Acid Is a Cyclooxygenase-2/15-Hydroxyprostaglandin Dehydrogenase-Derived Antiproliferative Eicosanoid. Chemical Research in Toxicology, 2011, 24, 2227-2236.	3.3	23
54	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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55	Adrenocortical carcinoma and succinate dehydrogenase gene mutations: an observational case series. European Journal of Endocrinology, 2017, 177, 439-444.	3.7	23
56	The deacylase SIRT5 supports melanoma viability by influencing chromatin dynamics. Journal of Clinical Investigation, 2021, 131, .	8.2	23
57	Translational metabolomics in cancer research. Biomarkers in Medicine, 2015, 9, 821-834.	1.4	18
58	Malateâ€“aspartate shuttle promotes <scp>l</scp>â€lactate oxidation in mitochondria. Journal of Cellular Physiology, 2020, 235, 2569-2581.	4.1	17
59	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
60	Bioanalytical techniques for detecting biomarkers of response to human asbestos exposure. Bioanalysis, 2015, 7, 1157-1173.	1.5	15
61	Biosynthesis and actions of 5-oxoeicosatetraenoic acid (5-oxo-ETE) on feline granulocytes. Biochemical Pharmacology, 2015, 96, 247-255.	4.4	14
62	Crosstalk between cellular metabolism and histone acetylation. Methods in Enzymology, 2019, 626, 1-21.	1.0	14
63	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
64	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
65	Cellular uptake and antiproliferative effects of 11-oxo-eicosatetraenoic acid. Journal of Lipid Research, 2013, 54, 3070-3077.	4.2	12
66	Bioorthogonal pro-metabolites for profiling short chain fatty acylation. Chemical Science, 2018, 9, 1236-1241.	7.4	12
67	Rotenone Stereospecifically Increases (S)-2-Hydroxyglutarate in SH-SY5Y Neuronal Cells. Chemical Research in Toxicology, 2015, 28, 948-954.	3.3	11
68	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
69	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
70	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
71	Association of serum androgens and coronary artery calcium scores in women. Fertility and Sterility, 2019, 112, 586-593.	1.0	10
72	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

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73	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
74	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
75	Oral nitrite restores age-dependent phenotypes in eNOS-null mice. JCI Insight, 2018, 3, .	5.0	9
76	UCP2 modulates cardiomyocyte cell cycle activity, acetyl-CoA and histone acetylation in response to moderate hypoxia. JCI Insight, 0, , .	5.0	8
77	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
78	CAR T-Cells Depend on the Coupling of NADH Oxidation with ATP Production. Cells, 2021, 10, 2334.	4.1	7
79	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
80	LC-MS Analysis of Human Platelets as a Platform for Studying Mitochondrial Metabolism. Journal of Visualized Experiments, 2016, , e53941.	0.3	6
81	Artefactual formation of pyruvate from inâ€source conversion of lactate. Rapid Communications in Mass Spectrometry, 2018, 32, 1163-1168.	1.5	6
82	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
83	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
84	Myocardial GRK2 Reduces Fatty Acid Metabolism and Î²-Adrenergic Receptor-Mediated Mitochondrial Responses. International Journal of Molecular Sciences, 2022, 23, 2777.	4.1	5
85	Metabolic tracing analysis reveals substrateâ€specific metabolic deficits in platelet storage lesion. Transfusion, 2017, 57, 2683-2689.	1.6	4
86	Defining Metabolic and Nonmetabolic Regulation of Histone Acetylation by NSAID Chemotypes. Molecular Pharmaceutics, 2018, 15, 729-736.	4.6	4
87	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
88	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
89	Primary saturation of Î±, Î²-unsaturated carbonyl containing fatty acids does not abolish electrophilicity. Chemico-Biological Interactions, 2021, 350, 109689.	4.0	1
90	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

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91	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
92	Coenzyme A thioester formation of 11- and 15-oxo-eicosatetraenoic acid. Prostaglandins and Other Lipid Mediators, 2017, 130, 1-7.	1.9	0
93	Adipocyte ACLY Facilitates Dietary Carbohydrate Handling and Protects Against Insulin Resistance in Females. SSRN Electronic Journal, 0, , .	0.4	0