

Edward T Chouchani

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

9,220
citations

117453

34
h-index

174990

52
g-index

54
all docs

54
docs citations

54
times ranked

12806
citing authors

#	ARTICLE	IF	CITATIONS
1	Ischaemic accumulation of succinate controls reperfusion injury through mitochondrial ROS. Nature, 2014, 515, 431-435.	13.7	1,989
2	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. Nature, 2018, 556, 113-117.	13.7	1,115
3	A Creatine-Driven Substrate Cycle Enhances Energy Expenditure and Thermogenesis in Beige Fat. Cell, 2015, 163, 643-655.	13.5	575
4	A Unifying Mechanism for Mitochondrial Superoxide Production during Ischemia-Reperfusion Injury. Cell Metabolism, 2016, 23, 254-263.	7.2	527
5	Cardioprotection by S-nitrosation of a cysteine switch on mitochondrial complex I. Nature Medicine, 2013, 19, 753-759.	15.2	521
6	New Advances in Adaptive Thermogenesis: UCP1 and Beyond. Cell Metabolism, 2019, 29, 27-37.	7.2	451
7	Accumulation of succinate controls activation of adipose tissue thermogenesis. Nature, 2018, 560, 102-106.	13.7	380
8	Mitochondrial ROS regulate thermogenic energy expenditure and sulfenylation of UCP1. Nature, 2016, 532, 112-116.	13.7	341
9	Coupling Krebs cycle metabolites to signalling in immunity and cancer. Nature Metabolism, 2019, 1, 16-33.	5.1	260
10	Metabolic adaptation and maladaptation in adipose tissue. Nature Metabolism, 2019, 1, 189-200.	5.1	224
11	A Quantitative Tissue-Specific Landscape of Protein Redox Regulation during Aging. Cell, 2020, 180, 968-983.e24.	13.5	220
12	Genetic Depletion of Adipocyte Creatine Metabolism Inhibits Diet-Induced Thermogenesis and Drives Obesity. Cell Metabolism, 2017, 26, 660-671.e3.	7.2	187
13	H ⁺ transport is an integral function of the mitochondrial ADP/ATP carrier. Nature, 2019, 571, 515-520.	13.7	183
14	Mitochondrial Patch Clamp of Beige Adipocytes Reveals UCP1-Positive and UCP1-Negative Cells Both Exhibiting Futile Creatine Cycling. Cell Metabolism, 2017, 25, 811-822.e4.	7.2	174
15	UCP1 deficiency causes brown fat respiratory chain depletion and sensitizes mitochondria to calcium overload-induced dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7981-7986.	3.3	136
16	Identification of S-nitrosated mitochondrial proteins by S-nitrosothiol difference in gel electrophoresis (SNO-DIGE): implications for the regulation of mitochondrial function by reversible S-nitrosation. Biochemical Journal, 2010, 430, 49-59.	1.7	130
17	pH-Gated Succinate Secretion Regulates Muscle Remodeling in Response to Exercise. Cell, 2020, 183, 62-75.e17.	13.5	129
18	Glycerol phosphate shuttle enzyme GPD2 regulates macrophage inflammatory responses. Nature Immunology, 2019, 20, 1186-1195.	7.0	126

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19	Succinate metabolism: a new therapeutic target for myocardial reperfusion injury. <i>Cardiovascular Research</i> , 2016, 111, 134-141.	1.8	107
20	Ablation of adipocyte creatine transport impairs thermogenesis and causes diet-induced obesity. <i>Nature Metabolism</i> , 2019, 1, 360-370.	5.1	103
21	Proteomic approaches to the characterization of protein thiol modification. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 120-128.	2.8	90
22	Moving Forwards by Blocking Back-Flow. <i>Circulation Research</i> , 2016, 118, 898-906.	2.0	83
23	UCP1 governs liver extracellular succinate and inflammatory pathogenesis. <i>Nature Metabolism</i> , 2021, 3, 604-617.	5.1	82
24	Assessing the Mitochondrial Membrane Potential in Cells and In Vivo using Targeted Click Chemistry and Mass Spectrometry. <i>Cell Metabolism</i> , 2016, 23, 379-385.	7.2	78
25	Mitochondrial reactive oxygen species and adipose tissue thermogenesis: Bridging physiology and mechanisms. <i>Journal of Biological Chemistry</i> , 2017, 292, 16810-16816.	1.6	77
26	Sample multiplexing for targeted pathway proteomics in aging mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9723-9732.	3.3	73
27	Fragment-based covalent ligand discovery. <i>RSC Chemical Biology</i> , 2021, 2, 354-367.	2.0	65
28	Mitochondrial TNAP controls thermogenesis by hydrolysis of phosphocreatine. <i>Nature</i> , 2021, 593, 580-585.	13.7	64
29	Microglial metabolism is a pivotal factor in sexual dimorphism in Alzheimer's disease. <i>Communications Biology</i> , 2021, 4, 711.	2.0	61
30	Fasting, but Not Aging, Dramatically Alters the Redox Status of Cysteine Residues on Proteins in <i>Drosophila melanogaster</i> . <i>Cell Reports</i> , 2015, 11, 1856-1865.	2.9	54
31	Mitochondrial uncouplers induce proton leak by activating AAC and UCP1. <i>Nature</i> , 2022, 606, 180-187.	13.7	48
32	Inactivation of Pyruvate Dehydrogenase Kinase 2 by Mitochondrial Reactive Oxygen Species. <i>Journal of Biological Chemistry</i> , 2012, 287, 35153-35160.	1.6	45
33	IRF3 reduces adipose thermogenesis via ISG15-mediated reprogramming of glycolysis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	43
34	Complex I Deficiency Due to Selective Loss of Ndufs4 in the Mouse Heart Results in Severe Hypertrophic Cardiomyopathy. <i>PLoS ONE</i> , 2014, 9, e94157.	1.1	41
35	Mitochondria selective S-nitrosation by mitochondria-targeted S-nitrosothiol protects against post-infarct heart failure in mouse hearts. <i>European Journal of Heart Failure</i> , 2014, 16, 712-717.	2.9	39
36	Why succinate? Physiological regulation by a mitochondrial coenzyme Q sentinel. <i>Nature Chemical Biology</i> , 2022, 18, 461-469.	3.9	38

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37	Glycogen metabolism links glucose homeostasis to thermogenesis in adipocytes. <i>Nature</i> , 2021, 599, 296-301.	13.7	36
38	Identification and quantification of protein S-nitrosation by nitrite in the mouse heart during ischemia. <i>Journal of Biological Chemistry</i> , 2017, 292, 14486-14495.	1.6	34
39	Suppressive effects of the obese tumor microenvironment on CD8 T cell infiltration and effector function. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	33
40	Stress turns on the heat: Regulation of mitochondrial biogenesis and UCP1 by ROS in adipocytes. <i>Adipocyte</i> , 2017, 6, 56-61.	1.3	30
41	Facultative protein selenation regulates redox sensitivity, adipose tissue thermogenesis, and obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10789-10796.	3.3	30
42	Cysteine 253 of UCP1 regulates energy expenditure and sex-dependent adipose tissue inflammation. <i>Cell Metabolism</i> , 2022, 34, 140-157.e8.	7.2	27
43	Disabling Mitochondrial Peroxide Metabolism via Combinatorial Targeting of Peroxiredoxin 3 as an Effective Therapeutic Approach for Malignant Mesothelioma. <i>PLoS ONE</i> , 2015, 10, e0127310.	1.1	26
44	Multiplexed Isobaric Tagging-Based Profiling of Seven Murine Tissues Following In Vivo Nicotine Treatment Using a Minimalistic Proteomics Strategy. <i>Proteomics</i> , 2018, 18, e1700326.	1.3	22
45	Lactate fluxes mediated by the monocarboxylate transporter-1 are key determinants of the metabolic activity of beige adipocytes. <i>Journal of Biological Chemistry</i> , 2021, 296, 100137.	1.6	22
46	Glucose metabolism and pyruvate carboxylase enhance glutathione synthesis and restrict oxidative stress in pancreatic islets. <i>Cell Reports</i> , 2021, 37, 110037.	2.9	21
47	Nitrogen Trapping as a Therapeutic Strategy in Tumors with Mitochondrial Dysfunction. <i>Cancer Research</i> , 2020, 80, 3492-3506.	0.4	8
48	Measurement of Futile Creatine Cycling Using Respirometry. <i>Methods in Molecular Biology</i> , 2022, 2448, 141-153.	0.4	3
49	Logic and mechanisms of metabolite signalling. <i>Nature Reviews Endocrinology</i> , 2022, 18, 71-72.	4.3	3
50	Mechanisms of Mitochondria Assembly, Dynamics and Turnover in Health and Disease. <i>Journal of Molecular Biology</i> , 2018, 430, 4821-4822.	2.0	0
51	AIDA and UCP1 snuggle up to prevent hypothermia. <i>Nature Cell Biology</i> , 2021, 23, 216-218.	4.6	0