

Enrique Cadenas

List of Publications by Year in descending order

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111
papers

14,149
citations

24978

57
h-index

27345

106
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111
all docs

111
docs citations

111
times ranked

16028
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox Pioneer: Professor Valerian Kagan. <i>Antioxidants and Redox Signaling</i> , 2022, , .	2.5	1
2	Publisher Notice. <i>Archives of Biochemistry and Biophysics</i> , 2022, 721, 109197.	1.4	0
3	Commentary on "Production of superoxide radicals and hydrogen peroxide by NADH-ubiquinone reductase and ubiquinol-cytochrome c reductase from beef-heart mitochondria": <i>Archives of Biochemistry and Biophysics</i> , 2022, , 109214.	1.4	0
4	Mitochondria as Target for Tumor Management of Hemangioendothelioma. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 137-153.	2.5	6
5	Dihydromyricetin improves mitochondrial outcomes in the liver of alcohol-fed mice via the AMPK/Sirt-1/PGC-1 β signaling axis. <i>Alcohol</i> , 2021, 91, 1-9.	0.8	32
6	Tobacco Smoke Exposure Impairs Brain Insulin/IGF Signaling: Potential Co-Factor Role in Neurodegeneration. <i>Advances in Alzheimer's Disease</i> , 2021, , .	0.2	17
7	Methionine restriction alleviates age-associated cognitive decline via fibroblast growth factor 21. <i>Redox Biology</i> , 2021, 41, 101940.	3.9	30
8	High-fiber diet mitigates maternal obesity-induced cognitive and social dysfunction in the offspring via gut-brain axis. <i>Cell Metabolism</i> , 2021, 33, 923-938.e6.	7.2	110
9	Inhibition of Estrogen-Related Receptor α Blocks Liver Steatosis and Steatohepatitis and Attenuates Triglyceride Biosynthesis. <i>American Journal of Pathology</i> , 2021, 191, 1240-1254.	1.9	12
10	Treadmill exercise rescues mitochondrial function and motor behavior in the CAG140 knock-in mouse model of Huntington's disease. <i>Chemico-Biological Interactions</i> , 2020, 315, 108907.	1.7	21
11	Gut microbiota mediates intermittent-fasting alleviation of diabetes-induced cognitive impairment. <i>Nature Communications</i> , 2020, 11, 855.	5.8	256
12	Brain metabolic and functional alterations in a liver-specific PTEN knockout mouse model. <i>PLoS ONE</i> , 2018, 13, e0204043.	1.1	3
13	Lethal dysregulation of energy metabolism during embryonic vitamin E deficiency. <i>Free Radical Biology and Medicine</i> , 2017, 104, 324-332.	1.3	36
14	Lipid quantitation and metabolomics data from vitamin E-deficient and -sufficient zebrafish embryos from 0 to 120 hours-post-fertilization. <i>Data in Brief</i> , 2017, 11, 432-441.	0.5	14
15	Effects of Lipoic Acid on High-Fat Diet-Induced Alteration of Synaptic Plasticity and Brain Glucose Metabolism: A PET/CT and ^{13}C -NMR Study. <i>Scientific Reports</i> , 2017, 7, 5391.	1.6	32
16	Mitochondrial remodeling in the liver following chronic alcohol feeding to rats. <i>Free Radical Biology and Medicine</i> , 2017, 102, 100-110.	1.3	35
17	Editorial: The Metabolic-Inflammatory Axis in Brain Aging and Neurodegeneration. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 209.	1.7	19
18	Tobacco Smoke Exposure Impairs Brain Insulin/IGF Signaling: Potential Co-Factor Role in Neurodegeneration. <i>Journal of Alzheimer's Disease</i> , 2016, 50, 373-386.	1.2	25

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19	Spatial Variations in Vitreous Oxygen Consumption. PLoS ONE, 2016, 11, e0149961.	1.1	10
20	Mitochondrial function in ageing: coordination with signalling and transcriptional pathways. Journal of Physiology, 2016, 594, 2025-2042.	1.3	67
21	Cigarette Smoke-Induced Alterations in Frontal White Matter Lipid Profiles Demonstrated by MALDI-Imaging Mass Spectrometry: Relevance to Alzheimer's Disease. Journal of Alzheimer's Disease, 2016, 51, 151-163.	1.2	18
22	Antioxidants, oxidants, and redox impacts on cell function – A tribute to Helmut Sies. Archives of Biochemistry and Biophysics, 2016, 595, 94-99.	1.4	24
23	Energy metabolism and inflammation in brain aging and Alzheimer's disease. Free Radical Biology and Medicine, 2016, 100, 108-122.	1.3	344
24	Introduction to Special Issue on Mitochondrial Redox Signaling in Health and Disease. Free Radical Biology and Medicine, 2016, 100, 1-4.	1.3	9
25	Tobacco Smoke-Induced Brain White Matter Myelin Dysfunction: Potential Co-Factor Role of Smoking in Neurodegeneration. Journal of Alzheimer's Disease, 2015, 50, 133-148.	1.2	34
26	High-Fat Diet Induces Hepatic Insulin Resistance and Impairment of Synaptic Plasticity. PLoS ONE, 2015, 10, e0128274.	1.1	161
27	Perimenopause as a neurological transition state. Nature Reviews Endocrinology, 2015, 11, 393-405.	4.3	286
28	Mitochondria: The Cellular Hub of the Dynamic Coordinated Network. Antioxidants and Redox Signaling, 2015, 22, 961-964.	2.5	51
29	The perimenopausal aging transition in the female rat brain: decline in bioenergetic systems and synaptic plasticity. Neurobiology of Aging, 2015, 36, 2282-2295.	1.5	80
30	Polyphenols from green tea prevent antineurotogenic action of Nogo66A via α 7 nAChR and laminin receptor and hydrogen peroxide. Journal of Neurochemistry, 2015, 132, 70-84.	2.1	28
31	Energy-Redox Axis in Mitochondria: Interconnection of Energy-Transducing Capacity and Redox Status. Oxidative Stress and Disease, 2015, , 29-44.	0.3	1
32	Astrocytic metabolic and inflammatory changes as a function of age. Aging Cell, 2014, 13, 1059-1067.	3.0	124
33	Mitochondrial Energy Metabolism and Redox Signaling in Brain Aging and Neurodegeneration. Antioxidants and Redox Signaling, 2014, 20, 353-371.	2.5	212
34	Reversal of Metabolic Deficits by Lipoic Acid in a Triple Transgenic Mouse Model of Alzheimer's Disease: A 13 C NMR Study. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 288-296.	2.4	53
35	Hypermetabolic State in the 7-Month-Old Triple Transgenic Mouse Model of Alzheimer's Disease and the Effect of Lipoic Acid: A 13 C-NMR Study. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1749-1760.	2.4	40
36	Short-Term Cigarette Smoke Exposure Leads to Metabolic Alterations in Lung Alveolar Cells. American Journal of Respiratory Cell and Molecular Biology, 2014, 51, 284-293.	1.4	86

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37	Green tea catechins potentiate the neuritogenic action of brain-derived neurotrophic factor: Role of 67-kDa laminin receptor and hydrogen peroxide. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 218-224.	1.0	60
38	Neurovascular coupling in hippocampus is mediated via diffusion by neuronal-derived nitric oxide. <i>Free Radical Biology and Medicine</i> , 2014, 73, 421-429.	1.3	80
39	Phosphatase and Tensin Homolog Deleted on Chromosome 10 (PTEN) Signaling Regulates Mitochondrial Biogenesis and Respiration via Estrogen-related Receptor 1 \pm (ERR1 \pm). <i>Journal of Biological Chemistry</i> , 2013, 288, 25007-25024.	1.6	51
40	PI3K/AKT signaling regulates bioenergetics in immortalized hepatocytes. <i>Free Radical Biology and Medicine</i> , 2013, 60, 29-40.	1.3	60
41	Metabolic triad in brain aging: mitochondria, insulin/IGF-1 signalling and JNK signalling. <i>Biochemical Society Transactions</i> , 2013, 41, 101-105.	1.6	59
42	Metabolic shift in lung alveolar cell mitochondria following acrolein exposure. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 305, L764-L773.	1.3	30
43	Lipoic acid restores age-associated impairment of brain energy metabolism through the modulation of Akt signaling and $\text{PGC}\alpha$ transcriptional pathway. <i>Aging Cell</i> , 2013, 12, 1021-1031.	3.0	55
44	Age-Dependent Modulation of Synaptic Plasticity and Insulin Mimetic Effect of Lipoic Acid on a Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2013, 8, e69830.	1.1	80
45	Short-term cigarette smoke exposure induces reversible changes in energy metabolism and cellular redox status independent of inflammatory responses in mouse lungs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012, 303, L889-L898.	1.3	67
46	Dynamic Adaptation of Liver Mitochondria to Chronic Alcohol Feeding in Mice. <i>Journal of Biological Chemistry</i> , 2012, 287, 42165-42179.	1.6	69
47	Mitochondrial Thiols in the Regulation of Cell Death Pathways. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1714-1727.	2.5	102
48	Silencing of nicotinamide nucleotide transhydrogenase impairs cellular redox homeostasis and energy metabolism in PC12 cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 401-409.	0.5	73
49	Models of Mitochondrial Oxidative Stress. , 2011, , 545-562.		0
50	2-Deoxy-D-Glucose Treatment Induces Ketogenesis, Sustains Mitochondrial Function, and Reduces Pathology in Female Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2011, 6, e21788.	1.1	149
51	Regulation of Mitochondrial Glutathione Redox Status and Protein Glutathionylation by Respiratory Substrates. <i>Journal of Biological Chemistry</i> , 2010, 285, 39646-39654.	1.6	160
52	Role of nitric oxide-mediated glutathionylation in neuronal function: potential regulation of energy utilization. <i>Biochemical Journal</i> , 2010, 428, 85-93.	1.7	32
53	Determination of GSH, GSSG, and GSNO Using HPLC with Electrochemical Detection. <i>Methods in Enzymology</i> , 2010, 473, 137-147.	0.4	48
54	Lipoic acid: energy metabolism and redox regulation of transcription and cell signaling. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2010, 48, 26-32.	0.6	142

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55	Activation of c-Jun N-terminal kinase and decline of mitochondrial pyruvate dehydrogenase activity during brain aging. FEBS Letters, 2009, 583, 1132-1140.	1.3	83
56	The energy "redox axis in aging and age-related neurodegeneration". Advanced Drug Delivery Reviews, 2009, 61, 1283-1298.	6.6	48
57	Elevated neuronal nitric oxide synthase expression during ageing and mitochondrial energy production. Free Radical Research, 2009, 43, 431-439.	1.5	46
58	c-Jun N-terminal kinase regulates mitochondrial bioenergetics by modulating pyruvate dehydrogenase activity in primary cortical neurons. Journal of Neurochemistry, 2008, 104, 325-335.	2.1	110
59	Mitochondrial medicine and mitochondrion-based therapeutics. Advanced Drug Delivery Reviews, 2008, 60, 1437-1438.	6.6	7
60	Progesterone and Estrogen Regulate Oxidative Metabolism in Brain Mitochondria. Endocrinology, 2008, 149, 3167-3175.	1.4	233
61	Compromised proteasome degradation elevates neuronal nitric oxide synthase levels and induces apoptotic cell death. Archives of Biochemistry and Biophysics, 2008, 478, 181-186.	1.4	10
62	Hippocampal mitochondrial dysfunction in rat aging. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R501-R509.	0.9	86
63	On the Biologic Role of the Reaction of NO with Oxidized Cytochrome c Oxidase. Antioxidants and Redox Signaling, 2007, 9, 1569-1580.	2.5	56
64	Oxidants and antioxidants revisited. New concepts of oxidative stress. Free Radical Research, 2007, 41, 951-952.	1.5	66
65	Modified LDL activates JNK phosphorylation and colocalization with mitochondria. FASEB Journal, 2007, 21, A853.	0.2	0
66	LDL nitration induced protein unfolding. FASEB Journal, 2007, 21, A853.	0.2	0
67	Redox activation of mitochondrial intermembrane space Cu,Zn-superoxide dismutase. Biochemical Journal, 2005, 387, 203-209.	1.7	56
68	Sites and Mechanisms of Aconitase Inactivation by Peroxynitrite: Modulation by Citrate and Glutathione. Biochemistry, 2005, 44, 11986-11996.	1.2	146
69	Mitochondrial nitric oxide synthase. Trends in Pharmacological Sciences, 2005, 26, 190-195.	4.0	356
70	On the mechanism and biology of cytochrome oxidase inhibition by nitric oxide. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16774-16779.	3.3	169
71	Mitochondrial free radical production and cell signaling. Molecular Aspects of Medicine, 2004, 25, 17-26.	2.7	388
72	Voltage-dependent Anion Channels Control the Release of the Superoxide Anion from Mitochondria to Cytosol. Journal of Biological Chemistry, 2003, 278, 5557-5563.	1.6	611

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73	c-Jun N-terminal kinase (JNK)-mediated modulation of brain mitochondria function: new target proteins for JNK signalling in mitochondrion-dependent apoptosis. <i>Biochemical Journal</i> , 2003, 372, 359-369.	1.7	157
74	Nitric Oxide and Cell Signaling Pathways in Mitochondrial-Dependent Apoptosis. <i>Biological Chemistry</i> , 2002, 383, 411-23.	1.2	147
75	Mitochondrial superoxide anion production and release into intermembrane space. <i>Methods in Enzymology</i> , 2002, 349, 271-280.	0.4	26
76	Mitochondrial damage by nitric oxide is potentiated by dopamine in PC12 cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1556, 233-238.	0.5	34
77	The Modulation of Mitochondrial Nitric-oxide Synthase Activity in Rat Brain Development. <i>Journal of Biological Chemistry</i> , 2002, 277, 42447-42455.	1.6	93
78	Pathways of dopamine oxidation mediated by nitric oxide. <i>Free Radical Biology and Medicine</i> , 2002, 33, 685-690.	1.3	15
79	Relative contributions of heart mitochondria glutathione peroxidase and catalase to H ₂ O ₂ detoxification in in vivo conditions. <i>Free Radical Biology and Medicine</i> , 2002, 33, 1260-1267.	1.3	136
80	Mitochondrial respiratory chain-dependent generation of superoxide anion and its release into the intermembrane space. <i>Biochemical Journal</i> , 2001, 353, 411.	1.7	330
81	Nitric oxide inhibits mitochondrial NADH:ubiquinone reductase activity through peroxynitrite formation. <i>Biochemical Journal</i> , 2001, 359, 139.	1.7	181
82	Mitochondrial respiratory chain-dependent generation of superoxide anion and its release into the intermembrane space. <i>Biochemical Journal</i> , 2001, 353, 411-416.	1.7	464
83	Nitric oxide inhibits mitochondrial NADH:ubiquinone reductase activity through peroxynitrite formation. <i>Biochemical Journal</i> , 2001, 359, 139-145.	1.7	229
84	Cellular titration of apoptosis with steady state concentrations of H ₂ O ₂ : submicromolar levels of H ₂ O ₂ induce apoptosis through fenton chemistry independent of the cellular thiol state. <i>Free Radical Biology and Medicine</i> , 2001, 30, 1008-1018.	1.3	217
85	Oxidation of ubiquinol by peroxynitrite: implications for protection of mitochondria against nitrosative damage. <i>Biochemical Journal</i> , 2000, 349, 35.	1.7	49
86	Oxidation of ubiquinol by peroxynitrite: implications for protection of mitochondria against nitrosative damage. <i>Biochemical Journal</i> , 2000, 349, 35-42.	1.7	74
87	Mitochondrial free radical generation, oxidative stress, and aging This article is dedicated to the memory of our dear friend, colleague, and mentor Lars Ernster (1920-1998), in gratitude for all he gave to us.. <i>Free Radical Biology and Medicine</i> , 2000, 29, 222-230.	1.3	2,556
88	Mitochondrial oxidative stress: A self-propagating process with implications for signaling cascades. <i>BioFactors</i> , 2000, 11, 43-45.	2.6	17
89	Mitochondrial Production of Hydrogen Peroxide Regulation by Nitric Oxide and the Role of Ubisemiquinone. <i>IUBMB Life</i> , 2000, 50, 245-250.	1.5	123
90	Estimation of H ₂ O ₂ gradients across biomembranes. <i>FEBS Letters</i> , 2000, 475, 121-126.	1.3	438

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91	Analysis of the pathways of nitric oxide utilization in mitochondria. Free Radical Research, 2000, 33, 747-756.	1.5	60
92	Mitochondrial Production of Hydrogen Peroxide Regulation by Nitric Oxide and the Role of Ubisemiquinone. IUBMB Life, 2000, 50, 245-250.	1.5	70
93	Regulation of Mitochondrial Respiration by Oxygen and Nitric Oxide. Annals of the New York Academy of Sciences, 2000, 899, 121-135.	1.8	132
94	Redox Cycles of Caffeic Acid, alpha-Tocopherol, and Ascorbate: Implications for Protection of Low-Density Lipoproteins Against Oxidation. IUBMB Life, 1999, 48, 57-65.	1.5	59
95	The Regulation of Mitochondrial Oxygen Uptake by Redox Reactions Involving Nitric Oxide and Ubiquinol. Journal of Biological Chemistry, 1999, 274, 37709-37716.	1.6	158
96	Role of p53 in aziridinylbenzoquinone-induced p21waf1 expression. Oncogene, 1998, 17, 357-365.	2.6	8
97	The Lag Phase. Free Radical Research, 1998, 28, 601-609.	1.5	96
98	Basic mechanisms of antioxidant activity. BioFactors, 1997, 6, 391-397.	2.6	149
99	The Metabolism of Tyramine by Monoamine Oxidase A/B Causes Oxidative Damage to Mitochondrial DNA. Archives of Biochemistry and Biophysics, 1996, 335, 295-304.	1.4	208
100	The reaction of ascorbic acid with different heme iron redox states of myoglobin. FEBS Letters, 1993, 332, 287-290.	1.3	102
101	Low level chemiluminescence of alveolar macrophages. FEBS Letters, 1981, 123, 225-228.	1.3	28
102	Low-level chemiluminescence of bovine heart submitochondrial particles. Biochemical Journal, 1980, 186, 659-667.	1.7	87
103	Low-level chemiluminescence of hydroperoxide-supplemented cytochrome c. Biochemical Journal, 1980, 187, 131-140.	1.7	97
104	Enhancement of hydrogen peroxide formation by protophores and ionophores in antimycin-supplemented mitochondria. Biochemical Journal, 1980, 188, 31-37.	1.7	249
105	Spectral analysis of the low level chemiluminescence of H ₂ O ₂ -supplemented ferricytochrome c. FEBS Letters, 1980, 112, 285-288.	1.3	24
106	Spontaneous chemiluminescence of soybean seeds. FEBS Letters, 1980, 113, 29-32.	1.3	16
107	Low level chemiluminescence of the cytochrome c-catalyzed decomposition of hydrogen peroxide. FEBS Letters, 1980, 113, 141-144.	1.3	23
108	Partial spectral analysis of the hydroperoxide-induced chemiluminescence of the perfused lung. FEBS Letters, 1980, 111, 413-418.	1.3	47

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109	Low level chemiluminescence of intact polymorphonuclear leukocytes. FEBS Letters, 1979, 102, 38-42.	1.3	28
110	Production of superoxide radicals and hydrogen peroxide by NADH-ubiquinone reductase and ubiquinol-cytochrome c reductase from beef-heart mitochondria. Archives of Biochemistry and Biophysics, 1977, 180, 248-257.	1.4	803
111	Mitochondrial production of superoxide anions and its relationship to the antimycin insensitive respiration. FEBS Letters, 1975, 54, 311-314.	1.3	354