

Amadou K S Camara

List of Publications by Year in descending order

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77
papers

1,758
citations

393982

19
h-index

276539

41
g-index

77
all docs

77
docs citations

77
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Reactive Oxygen Species Production in Excitable Cells: Modulators of Mitochondrial and Cell Function. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1373-1414.	2.5	409
2	Potential Therapeutic Benefits of Strategies Directed to Mitochondria. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 279-347.	2.5	162
3	Mitochondrial Approaches to Protect Against Cardiac Ischemia and Reperfusion Injury. <i>Frontiers in Physiology</i> , 2011, 2, 13.	1.3	132
4	Sevoflurane Exposure Generates Superoxide but Leads to Decreased Superoxide During Ischemia and Reperfusion in Isolated Hearts. <i>Anesthesia and Analgesia</i> , 2003, 96, 949-955.	1.1	108
5	Reduced reactive O ₂ species formation and preserved mitochondrial NADH and [Ca ²⁺] levels during short-term 17 Å°C ischemia in intact hearts. <i>Cardiovascular Research</i> , 2004, 61, 580-590.	1.8	108
6	Mitochondrial Cx43 hemichannels contribute to mitochondrial calcium entry and cell death in the heart. <i>Basic Research in Cardiology</i> , 2017, 112, 27.	2.5	98
7	Mitochondria in Health and Diseases. <i>Cells</i> , 2020, 9, 1177.	1.8	94
8	Altered NADH and improved function by anesthetic and ischemic preconditioning in guinea pig intact hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H53-H60.	1.5	88
9	Hypothermia augments reactive oxygen species detected in the guinea pig isolated perfused heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H1289-H1299.	1.5	74
10	Dual Exposure to Sevoflurane Improves Anesthetic Preconditioning in Intact Hearts. <i>Anesthesiology</i> , 2004, 100, 569-574.	1.3	47
11	Cyclosporin A Increases Mitochondrial Buffering of Calcium: An Additional Mechanism in Delaying Mitochondrial Permeability Transition Pore Opening. <i>Cells</i> , 2019, 8, 1052.	1.8	38
12	Mitochondrial respiratory supercomplexes in mammalian cells: structural versus functional role. <i>Journal of Molecular Medicine</i> , 2021, 99, 57-73.	1.7	38
13	ROS scavenging before 27Å°C ischemia protects hearts and reduces mitochondrial ROS, Ca ²⁺ overload, and changes in redox state. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C2021-C2031.	2.1	37
14	Anesthetic Preconditioning. <i>Anesthesiology</i> , 2003, 99, 385-391.	1.3	35
15	Reversible Blockade of Complex I or Inhibition of PKCÎ ² Reduces Activation and Mitochondria Translocation of p66Shc to Preserve Cardiac Function after Ischemia. <i>PLoS ONE</i> , 2014, 9, e113534.	1.1	26
16	Mg ²⁺ differentially regulates two modes of mitochondrial Ca ²⁺ uptake in isolated cardiac mitochondria: implications for mitochondrial Ca ²⁺ sequestration. <i>Journal of Bioenergetics and Biomembranes</i> , 2016, 48, 175-188.	1.0	26
17	Telomerase Deficiency Predisposes to Heart Failure and Ischemia-Reperfusion Injury. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 31.	1.1	26
18	Comparison of cumulative planimetry versus manual dissection to assess experimental infarct size in isolated hearts. <i>Journal of Pharmacological and Toxicological Methods</i> , 2009, 60, 275-280.	0.3	22

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19	Modeling the detailed kinetics of mitochondrial cytochrome <i>c</i> oxidase: Catalytic mechanism and nitric oxide inhibition. <i>Journal of Applied Physiology</i> , 2016, 121, 1196-1207.	1.2	21
20	Structural basis of complex formation between mitochondrial anion channel VDAC1 and Hexokinase-II. <i>Communications Biology</i> , 2021, 4, 667.	2.0	20
21	Optical Metabolic Imaging for Assessment of Radiation-Induced Injury to Rat Kidney and Mitigation by Lisinopril. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1564-1574.	1.3	18
22	Integrated computational model of the bioenergetics of isolated lung mitochondria. <i>PLoS ONE</i> , 2018, 13, e0197921.	1.1	14
23	Slow Ca ²⁺ Efflux by Ca ²⁺ /H ⁺ Exchange in Cardiac Mitochondria Is Modulated by Ca ²⁺ Re-uptake via MCU, Extra-Mitochondrial pH, and H ⁺ Pumping by FOF1-ATPase. <i>Frontiers in Physiology</i> , 2018, 9, 1914.	1.3	14
24	LETM1: A Single Entity With Diverse Impact on Mitochondrial Metabolism and Cellular Signaling. <i>Frontiers in Physiology</i> , 2021, 12, 637852.	1.3	14
25	Optical metabolic imaging of irradiated rat heart exposed to ischemiaâ€“reperfusion injury. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	12
26	Total Matrix Ca ²⁺ Modulates Ca ²⁺ Efflux via the Ca ²⁺ /H ⁺ Exchanger in Cardiac Mitochondria. <i>Frontiers in Physiology</i> , 2020, 11, 510600.	1.3	12
27	Quantitative optical measurement of mitochondrial superoxide dynamics in pulmonary artery endothelial cells. <i>Journal of Innovative Optical Health Sciences</i> , 2018, 11, .	0.5	11
28	Differences in Expression of Mitochondrial Complexes Due to Genetic Variants May Alter Sensitivity to Radiation-Induced Cardiac Dysfunction. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 23.	1.1	11
29	PPAR γ ³ -Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. <i>Cells</i> , 2020, 9, 252.	1.8	10
30	Repetitive Mild Traumatic Brain Injury in Rats Impairs Cognition, Enhances Prefrontal Cortex Neuronal Activity, and Reduces Pre-synaptic Mitochondrial Function. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 689334.	1.8	9
31	Three-dimensional vascular and metabolic imaging using inverted autofluorescence. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	7
32	Stretch-induced increase in cardiac contractility is independent of myocyte Ca ²⁺ while block of stretch channels by streptomycin improves contractility after ischemic stunning. <i>Physiological Reports</i> , 2015, 3, e12486.	0.7	4
33	Knockout of VDAC1 in H9c2 Cells Promotes Oxidative Stress-Induced Cell Apoptosis through Decreased Mitochondrial Hexokinase II Binding and Enhanced Glycolytic Stress. <i>Cellular Physiology and Biochemistry</i> , 2020, 54, 853-874.	1.1	3
34	Cardiac mitochondrial Ca ²⁺ â€“dependent big K ⁺ channels are open during early reperfusion. <i>FASEB Journal</i> , 2007, 21, A1224.	0.2	2
35	Editorial: Mitochondrial Exchangers and Transporters in Cell Survival and Death. <i>Frontiers in Physiology</i> , 2021, 12, 745353.	1.3	1
36	Knockout of VDAC1 in H9c2 Cells Promotes tBHPâ€“induced Cell Apoptosis Through Decreased Mitochondrial HK II Binding and Enhanced Glycolytic Stress. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	1

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37	Transfer entropy is a better indicator of changes in AV coupling than standard measures of AV conduction. FASEB Journal, 2006, 20, A321.	0.2	1
38	Activation of Mitochondrial Ca ²⁺ Sensitive Potassium Channels Enhances Mitochondrial Reactive Oxygen Species Production. FASEB Journal, 2006, 20, A315.	0.2	1
39	Modeling the roles of Ca uniporter, Na/Ca exchanger and Na/H exchanger in regulating Ca, Na and pH flux in cardiac mitochondria using in vitro spectrofluorometry. FASEB Journal, 2007, 21, A1352.	0.2	1
40	Resveratrol or 32°C hypothermia applied during reperfusion after cardiac ischemia reduces mitochondrial translocation of p66shc. FASEB Journal, 2012, 26, 678.18.	0.2	1
41	Cyclosporine ϵ Enhances Mitochondrial Calcium Buffering to Delay mPTP Opening. FASEB Journal, 2019, 33, 660.9.	0.2	1
42	Hypothermia Prevents Cardiac Dysfunction during Acute Ischemia Reperfusion by Maintaining Mitochondrial Bioenergetics and by Promoting Hexokinase II Binding to Mitochondria. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-19.	1.9	1
43	Editorial: Genetic Modification of Cardiac Tissue. Frontiers in Cardiovascular Medicine, 2019, 6, 93.	1.1	0
44	3D Optical Method: A Novel Approach to Quantify Renal Mitochondrial Dysfunction. Methods in Molecular Biology, 2021, 2276, 259-270.	0.4	0
45	Acidotic perfusion protects against ischemic injury by improving mitochondrial redox balance. FASEB Journal, 2006, 20, A742.	0.2	0
46	Improved return of left ventricular function and myoplasmic [Ca ²⁺] after ischemia reperfusion injury in hearts from old vs. young guinea pigs. FASEB Journal, 2006, 20, A384.	0.2	0
47	Ten hour preservation of guinea pig isolated hearts perfused at low flow with air ϵ saturated Lifer \hat{A} solution at room temperature. FASEB Journal, 2007, 21, A1255.	0.2	0
48	Improved mitochondrial Ca ²⁺ handling and functional recovery after ischemia reperfusion injury in hearts from old vs. young guinea pigs. FASEB Journal, 2007, 21, A1223.	0.2	0
49	Na + /H + exchange inhibition protects against ischemic injury by preserving mitochondrial redox state, and by reducing mitochondrial Ca ²⁺ overload and ROS production. FASEB Journal, 2007, 21, A1221.	0.2	0
50	Blocking mitochondrial Ca ²⁺ uniport activity during activated Na + /H + exchange reduces mCa ²⁺ loading but does little to better protect function on reperfusion. FASEB Journal, 2008, 22, 730.24.	0.2	0
51	Regulation of mitochondrial free Ca ²⁺ by metabolite and pH ϵ dependent Ca ²⁺ buffering in the matrix: analysis by a computational model of mitochondrial Ca ²⁺ handling. FASEB Journal, 2008, 22, 756.7.	0.2	0
52	Modeling Regulation of Mitochondrial Free Ca ²⁺ by Metabolite Dependent Ca ²⁺ Buffering. FASEB Journal, 2009, 23, 994.2.	0.2	0
53	Isoflurane Enhances Mitochondrial Free Ca ²⁺ in Response to Ca ²⁺ but not ADP: Possible Role of Isoflurane in Activating Mitochondrial Ca ²⁺ Uniporter. FASEB Journal, 2010, 24, 1048.7.	0.2	0
54	Isoflurane Increases Mitochondrial Free Ca ²⁺ by Attenuating the Na + /Ca ²⁺ Exchanger Activity. FASEB Journal, 2012, 26, 888.4.	0.2	0

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55	Mitochondrial handling of excess Ca ²⁺ is substrateâ€dependent with implications on ROS generation. FASEB Journal, 2012, 26, 678.17.	0.2	0
56	Tyrosine nitration of voltage dependent anion channels induced by peroxynitrite alters protein structure and function in vitro. FASEB Journal, 2012, 26, 678.19.	0.2	0
57	Identification, localization, and electrophysiologic characterization of small Ca ²⁺ â€sensitive K ⁺ channels in cardiac mitochondria. FASEB Journal, 2012, 26, 695.8.	0.2	0
58	Modeling Dynamic Regulation of Mitochondrial free Ca ²⁺ : Effects of Ca ²⁺ Sequestration and Precipitation. FASEB Journal, 2012, 26, 585.4.	0.2	0
59	Differential effects of low pH on Ca ²⁺ â€induced ROS emission from mitochondrial complexes I and III. FASEB Journal, 2013, 27, .	0.2	0
60	Characterization of Different Modes of Ca ²⁺ Uptake under Physiological Conditions in Heart Mitochondria. FASEB Journal, 2013, 27, 1209.20.	0.2	0
61	Acute Administration of PPARÎ³ Agonist Rosiglitazone in Isolated Hearts Differentially Aggravates Cardiac Ischemia Reperfusion Injury in a Consomic Rat Model. FASEB Journal, 2013, 27, 917.4.	0.2	0
62	Attenuating complex I activity decreases p66 shc phosphorylation and translocation to mitochondria during cardiac ischemia reperfusion injury. FASEB Journal, 2013, 27, 1144.2.	0.2	0
63	Ca ²⁺ â€induced mitochondrial permeability transition pore opening is substrateâ€dependent. FASEB Journal, 2013, 27, 1209.1.	0.2	0
64	Putative small conductance Ca ²⁺ â€sensitive K ⁺ channels isoforms and splice variants in mitochondria of guinea pig cardiac ventricular myocytes. FASEB Journal, 2013, 27, 1209.12.	0.2	0
65	Resistance of guinea pig cardiac cytochrome c oxidase (complex IV) to extended ischemic time during global ischemia and reperfusion. FASEB Journal, 2013, 27, lb438.	0.2	0
66	Postâ€translationally modified cardiac mitochondrial VDAC1 gating kinetics analyzed using continuousâ€time MCMC model. FASEB Journal, 2013, 27, 1209.15.	0.2	0
67	Substrate â€dependent Action of Isoflurane on Electron Transport Chain Complexes. FASEB Journal, 2013, 27, 1209.9.	0.2	0
68	Differential effects of small and big Ca ²⁺ â€sensitive K ⁺ channel agonists and antagonists during cardiac ischemia and reperfusion injury (648.10). FASEB Journal, 2014, 28, 648.10.	0.2	0
69	PPARÎ³â€Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. FASEB Journal, 2015, 29, 979.2.	0.2	0
70	Differential Effects of Buffer pH, CaCl ₂ , and Superoxide Dismutase on Ca ²⁺ â€induced H ₂ O ₂ Release from Mitochondrial Complexes I and III. FASEB Journal, 2015, 29, 979.1.	0.2	0
71	Preventing Nitration of Specific Tyrosine Sites in Adenine Nucleotide Translocase Differentially Protects Against Cell Oxidative Stress Injury. FASEB Journal, 2015, 29, 635.5.	0.2	0
72	Subnormothermic Regulated Hepatic Reperfusion Preserves Mitochondrial Function in Swine Liver Procured after Cardiac Death. FASEB Journal, 2018, 32, lb161.	0.2	0

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73	Dissociation of Hexokinase II Binding to VDAC Increases State 3 Respiration and Reduces Membrane Potential Repolarization Time in Mitochondria Isolated From Brain and Heart. FASEB Journal, 2018, 32, 618.5.	0.2	0
74	Calcium Regulation of Mitochondrial Respiration is Substrate Dependent and Tissue Specific. FASEB Journal, 2018, 32, .	0.2	0
75	K ⁺ influx triggers slow K ⁺ / H ⁺ exchange detected by biphasic changes in matrix pH in Guinea pig cardiomyocyte mitochondria. FASEB Journal, 2019, 33, 660.7.	0.2	0
76	Prevention of mitochondrial pH gradient dissipation: a novel role for cyclosporin A on inhibiting calcium-hydrogen exchange activity in cardiac isolated mitochondria. FASEB Journal, 2019, 33, 660.12.	0.2	0
77	Exercise-induced Increase in Hexokinase II-mitochondria Association Reduces Cardiac Ischemia-reperfusion Injury in Rats. FASEB Journal, 2020, 34, 1-1.	0.2	0