

# Amadou K S Camara

## List of Publications by Citations

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70  
papers

1,319  
citations

16  
h-index

36  
g-index

77  
ext. papers

1,552  
ext. citations

2.9  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
70	Mitochondrial reactive oxygen species production in excitable cells: modulators of mitochondrial and cell function. <i>Antioxidants and Redox Signaling</i> , <b>2009</b> , 11, 1373-414	8.4	346
69	Potential therapeutic benefits of strategies directed to mitochondria. <i>Antioxidants and Redox Signaling</i> , <b>2010</b> , 13, 279-347	8.4	139
68	Mitochondrial approaches to protect against cardiac ischemia and reperfusion injury. <i>Frontiers in Physiology</i> , <b>2011</b> , 2, 13	4.6	100
67	Reduced reactive O2 species formation and preserved mitochondrial NADH and [Ca <sup>2+</sup> ] levels during short-term 17 degrees C ischemia in intact hearts. <i>Cardiovascular Research</i> , <b>2004</b> , 61, 580-90	9.9	96
66	Sevoflurane exposure generates superoxide but leads to decreased superoxide during ischemia and reperfusion in isolated hearts. <i>Anesthesia and Analgesia</i> , <b>2003</b> , 96, 949-955	3.9	91
65	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> , <b>2002</b> , 283, H53-60	5.2	78
64	Mitochondrial Cx43 hemichannels contribute to mitochondrial calcium entry and cell death in the heart. <i>Basic Research in Cardiology</i> , <b>2017</b> , 112, 27	11.8	76
63	Hypothermia augments reactive oxygen species detected in the guinea pig isolated perfused heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 286, H1289-99	5.2	67
62	Dual exposure to sevoflurane improves anesthetic preconditioning in intact hearts. <i>Anesthesiology</i> , <b>2004</b> , 100, 569-74	4.3	41
61	ROS scavenging before 27 degrees C ischemia protects hearts and reduces mitochondrial ROS, Ca <sup>2+</sup> overload, and changes in redox state. <i>American Journal of Physiology - Cell Physiology</i> , <b>2007</b> , 292, C2021-31	5.4	33
60	Anesthetic preconditioning: effects on latency to ischemic injury in isolated hearts. <i>Anesthesiology</i> , <b>2003</b> , 99, 385-91	4.3	31
59	Comparison of cumulative planimetry versus manual dissection to assess experimental infarct size in isolated hearts. <i>Journal of Pharmacological and Toxicological Methods</i> , <b>2009</b> , 60, 275-80	1.7	21
58	Reversible blockade of complex I or inhibition of PKC $\beta$ reduces activation and mitochondria translocation of p66Shc to preserve cardiac function after ischemia. <i>PLoS ONE</i> , <b>2014</b> , 9, e113534	3.7	19
57	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> , <b>2016</b> , 48, 175-88	3.7	18
56	Cyclosporin A Increases Mitochondrial Buffering of Calcium: An Additional Mechanism in Delaying Mitochondrial Permeability Transition Pore Opening. <i>Cells</i> , <b>2019</b> , 8,	7.9	17
55	Telomerase Deficiency Predisposes to Heart Failure and Ischemia-Reperfusion Injury. <i>Frontiers in Cardiovascular Medicine</i> , <b>2019</b> , 6, 31	5.4	15
54	Modeling the detailed kinetics of mitochondrial cytochrome c oxidase: Catalytic mechanism and nitric oxide inhibition. <i>Journal of Applied Physiology</i> , <b>2016</b> , 121, 1196-1207	3.7	11

53	Optical Metabolic Imaging for Assessment of Radiation-Induced Injury to Rat Kidney and Mitigation by Lisinopril. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 1564-1574	4.7	10
52	Slow Ca Efflux by Ca/H Exchange in Cardiac Mitochondria Is Modulated by Ca Re-uptake via MCU, Extra-Mitochondrial pH, and H Pumping by FF-ATPase. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1914	4.6	9
51	Integrated computational model of the bioenergetics of isolated lung mitochondria. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197921	3.7	9
50	Optical metabolic imaging of irradiated rat heart exposed to ischemia-reperfusion injury. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-9	3.5	9
49	Mitochondrial respiratory supercomplexes in mammalian cells: structural versus functional role. <i>Journal of Molecular Medicine</i> , <b>2021</b> , 99, 57-73	5.5	9
48	Quantitative optical measurement of mitochondrial superoxide dynamics in pulmonary artery endothelial cells. <i>Journal of Innovative Optical Health Sciences</i> , <b>2018</b> , 11,	1.2	7
47	Differences in Expression of Mitochondrial Complexes Due to Genetic Variants May Alter Sensitivity to Radiation-Induced Cardiac Dysfunction. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 23	5.4	5
46	Total Matrix Ca Modulates Ca Efflux via the Ca/H Exchanger in Cardiac Mitochondria. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 510600	4.6	5
45	PPAR $\gamma$ -Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. <i>Cells</i> , <b>2020</b> , 9,	7.9	4
44	Stretch-induced increase in cardiac contractility is independent of myocyte Ca <sup>2+</sup> while block of stretch channels by streptomycin improves contractility after ischemic stunning. <i>Physiological Reports</i> , <b>2015</b> , 3, e12486	2.6	4
43	Structural basis of complex formation between mitochondrial anion channel VDAC1 and Hexokinase-II. <i>Communications Biology</i> , <b>2021</b> , 4, 667	6.7	4
42	LETM1: A Single Entity With Diverse Impact on Mitochondrial Metabolism and Cellular Signaling. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 637852	4.6	3
41	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> , <b>2020</b> , 54, 853-874	3.9	2
40	Cardiac mitochondrial Ca <sup>2+</sup> -dependent big K <sup>+</sup> channels are open during early reperfusion. <i>FASEB Journal</i> , <b>2007</b> , 21, A1224	0.9	2
39	Activation of Mitochondrial Ca <sup>2+</sup> Sensitive Potassium Channels Enhances Mitochondrial Reactive Oxygen Species Production. <i>FASEB Journal</i> , <b>2006</b> , 20, A315	0.9	1
38	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. <i>FASEB Journal</i> , <b>2007</b> , 21, A1352	0.9	1
37	Knockout of VDAC1 in H9c2 Cells Promotes tBHP-induced Cell Apoptosis Through Decreased Mitochondrial HK II Binding and Enhanced Glycolytic Stress. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	1
36	Resveratrol or 32°C hypothermia applied during reperfusion after cardiac ischemia reduces mitochondrial translocation of p66shc. <i>FASEB Journal</i> , <b>2012</b> , 26, 678.18	0.9	1

35	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> , <b>2021</b> , 15, 689334	6.1	1
34	Exercise-induced Increase in Hexokinase II-mitochondria Association Reduces Cardiac Ischemia-Reperfusion Injury in Rats. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
33	Transfer entropy is a better indicator of changes in AV coupling than standard measures of AV conduction. <i>FASEB Journal</i> , <b>2006</b> , 20, A321	0.9	
32	Acidotic perfusion protects against ischemic injury by improving mitochondrial redox balance. <i>FASEB Journal</i> , <b>2006</b> , 20, A742	0.9	
31	Improved return of left ventricular function and myoplasmic [Ca <sup>2+</sup> ] after ischemia reperfusion injury in hearts from old vs. young guinea pigs. <i>FASEB Journal</i> , <b>2006</b> , 20, A384	0.9	
30	Ten hour preservation of guinea pig isolated hearts perfused at low flow with air-saturated Lifer <sup>1</sup> solution at room temperature. <i>FASEB Journal</i> , <b>2007</b> , 21, A1255	0.9	
29	Improved mitochondrial Ca <sup>2+</sup> handling and functional recovery after ischemia reperfusion injury in hearts from old vs. young guinea pigs. <i>FASEB Journal</i> , <b>2007</b> , 21, A1223	0.9	
28	Na <sup>+</sup> /H <sup>+</sup> exchange inhibition protects against ischemic injury by preserving mitochondrial redox state, and by reducing mitochondrial Ca <sup>2+</sup> overload and ROS production. <i>FASEB Journal</i> , <b>2007</b> , 21, A1221 <sup>0.9</sup>	0.9	
27	Blocking mitochondrial Ca <sup>2+</sup> uniport activity during activated Na <sup>+</sup> /H <sup>+</sup> exchange reduces mCa <sup>2+</sup> loading but does little to better protect function on reperfusion. <i>FASEB Journal</i> , <b>2008</b> , 22, 730.24	0.9	
26	Regulation of mitochondrial free Ca <sup>2+</sup> by metabolite and pH-dependent Ca <sup>2+</sup> buffering in the matrix: analysis by a computational model of mitochondrial Ca <sup>2+</sup> handling. <i>FASEB Journal</i> , <b>2008</b> , 22, 756.7 <sup>0.9</sup>	0.9	
25	Subnormothermic Regulated Hepatic Reperfusion Preserves Mitochondrial Function in Swine Liver Procured after Cardiac Death. <i>FASEB Journal</i> , <b>2018</b> , 32, lb161	0.9	
24	Dissociation of Hexokinase II Binding to VDAC Increases State 3 Respiration and Reduces Membrane Potential Repolarization Time in Mitochondria Isolated From Brain and Heart. <i>FASEB Journal</i> , <b>2018</b> , 32, 618.5	0.9	
23	K <sup>+</sup> influx triggers slow K <sup>+</sup> /H <sup>+</sup> exchange detected by biphasic changes in matrix pH in Guinea pig cardiomyocyte mitochondria. <i>FASEB Journal</i> , <b>2019</b> , 33, 660.7	0.9	
22	Cyclosporine-A Enhances Mitochondrial Calcium Buffering to Delay mPTP Opening. <i>FASEB Journal</i> , <b>2019</b> , 33, 660.9	0.9	
21	Prevention of mitochondrial pH gradient dissipation: a novel role for cyclosporin A on inhibiting calcium-hydrogen exchange activity in cardiac isolated mitochondria. <i>FASEB Journal</i> , <b>2019</b> , 33, 660.12	0.9	
20	PPAR $\alpha$ Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. <i>FASEB Journal</i> , <b>2015</b> , 29, 979.2	0.9	
19	Differential Effects of Buffer pH, CaCl <sub>2</sub> , and Superoxide Dismutase on Ca <sup>2+</sup> -Induced H <sub>2</sub> O <sub>2</sub> Release from Mitochondrial Complexes I and III. <i>FASEB Journal</i> , <b>2015</b> , 29, 979.1	0.9	
18	Preventing Nitration of Specific Tyrosine Sites in Adenine Nucleotide Translocase Differentially Protects Against Cell Oxidative Stress Injury. <i>FASEB Journal</i> , <b>2015</b> , 29, 635.5	0.9	

17	Modeling Regulation of Mitochondrial Free Ca <sup>2+</sup> by Metabolite Dependent Ca <sup>2+</sup> Buffering. <i>FASEB Journal</i> , <b>2009</b> , 23, 994.2	0.9
16	Isoflurane Enhances Mitochondrial Free Ca <sup>2+</sup> in Response to Ca <sup>2+</sup> but not ADP: Possible Role of Isoflurane in Activating Mitochondrial Ca <sup>2+</sup> Uniporter. <i>FASEB Journal</i> , <b>2010</b> , 24, 1048.7	0.9
15	Isoflurane Increases Mitochondrial Free Ca <sup>2+</sup> by Attenuating the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger Activity. <i>FASEB Journal</i> , <b>2012</b> , 26, 888.4	0.9
14	Mitochondrial handling of excess Ca <sup>2+</sup> is substrate-dependent with implications on ROS generation. <i>FASEB Journal</i> , <b>2012</b> , 26, 678.17	0.9
13	Tyrosine nitration of voltage dependent anion channels induced by peroxynitrite alters protein structure and function in vitro. <i>FASEB Journal</i> , <b>2012</b> , 26, 678.19	0.9
12	Identification, localization, and electrophysiologic characterization of small Ca <sup>2+</sup> -sensitive K <sup>+</sup> channels in cardiac mitochondria. <i>FASEB Journal</i> , <b>2012</b> , 26, 695.8	0.9
11	Modeling Dynamic Regulation of Mitochondrial free Ca <sup>2+</sup> : Effects of Ca <sup>2+</sup> Sequestration and Precipitation. <i>FASEB Journal</i> , <b>2012</b> , 26, 585.4	0.9
10	Characterization of Different Modes of Ca <sup>2+</sup> Uptake under Physiological Conditions in Heart Mitochondria. <i>FASEB Journal</i> , <b>2013</b> , 27, 1209.20	0.9
9	Acute Administration of PPAR $\alpha$ Agonist Rosiglitazone in Isolated Hearts Differentially Aggravates Cardiac Ischemia Reperfusion Injury in a Consomic Rat Model. <i>FASEB Journal</i> , <b>2013</b> , 27, 917.4	0.9
8	Attenuating complex I activity decreases p66shc phosphorylation and translocation to mitochondria during cardiac ischemia reperfusion injury. <i>FASEB Journal</i> , <b>2013</b> , 27, 1144.2	0.9
7	Ca <sup>2+</sup> -induced mitochondrial permeability transition pore opening is substrate-dependent. <i>FASEB Journal</i> , <b>2013</b> , 27, 1209.1	0.9
6	Putative small conductance Ca <sup>2+</sup> -sensitive K <sup>+</sup> channels isoforms and splice variants in mitochondria of guinea pig cardiac ventricular myocytes. <i>FASEB Journal</i> , <b>2013</b> , 27, 1209.12	0.9
5	Resistance of guinea pig cardiac cytochrome c oxidase (complex IV) to extended ischemic time during global ischemia and reperfusion. <i>FASEB Journal</i> , <b>2013</b> , 27, 1b438	0.9
4	Post-translationally modified cardiac mitochondrial VDAC1 gating kinetics analyzed using continuous-time MCMC model. <i>FASEB Journal</i> , <b>2013</b> , 27, 1209.15	0.9
3	Substrate -dependent Action of Isoflurane on Electron Transport Chain Complexes. <i>FASEB Journal</i> , <b>2013</b> , 27, 1209.9	0.9
2	Differential effects of small and big Ca <sup>2+</sup> -sensitive K <sup>+</sup> channel agonists and antagonists during cardiac ischemia and reperfusion injury (648.10). <i>FASEB Journal</i> , <b>2014</b> , 28, 648.10	0.9
1	3D Optical Cryo-Imaging Method: A Novel Approach to Quantify Renal Mitochondrial Bioenergetics Dysfunction. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2276, 259-270	1.4