

Stephen C Kolwicz Jr

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,106
citations

279487

23
h-index

276539

41
g-index

44
all docs

44
docs citations

44
times ranked

5246
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac Metabolism and its Interactions With Contraction, Growth, and Survival of Cardiomyocytes. <i>Circulation Research</i> , 2013, 113, 603-616.	2.0	591
2	Mitochondrial Complex I Deficiency Increases Protein Acetylation and Accelerates Heart Failure. <i>Cell Metabolism</i> , 2013, 18, 239-250.	7.2	376
3	Defective Branched-Chain Amino Acid Catabolism Disrupts Glucose Metabolism and Sensitizes the Heart to Ischemia-Reperfusion Injury. <i>Cell Metabolism</i> , 2017, 25, 374-385.	7.2	289
4	Glucose metabolism and cardiac hypertrophy. <i>Cardiovascular Research</i> , 2011, 90, 194-201.	1.8	241
5	Cardiac-Specific Deletion of Acetyl CoA Carboxylase 2 Prevents Metabolic Remodeling During Pressure-Overload Hypertrophy. <i>Circulation Research</i> , 2012, 111, 728-738.	2.0	214
6	Fatty Acids Enhance the Maturation of Cardiomyocytes Derived from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2019, 13, 657-668.	2.3	187
7	Metabolic Remodeling Promotes Cardiac Hypertrophy by Directing Glucose to Aspartate Biosynthesis. <i>Circulation Research</i> , 2020, 126, 182-196.	2.0	135
8	Glucose promotes cell growth by suppressing branched-chain amino acid degradation. <i>Nature Communications</i> , 2018, 9, 2935.	5.8	115
9	Rapamycin transiently induces mitochondrial remodeling to reprogram energy metabolism in old hearts. <i>Aging</i> , 2016, 8, 314-327.	1.4	104
10	Increasing Fatty Acid Oxidation Prevents High-Fat Diet-Induced Cardiomyopathy Through Regulating Parkin-Mediated Mitophagy. <i>Circulation</i> , 2020, 142, 983-997.	1.6	103
11	Mutation in the Î³2-Subunit of AMP-Activated Protein Kinase Stimulates Cardiomyocyte Proliferation and Hypertrophy Independent of Glycogen Storage. <i>Circulation Research</i> , 2014, 114, 966-975.	2.0	63
12	Preservation of myocardial fatty acid oxidation prevents diastolic dysfunction in mice subjected to angiotensin II infusion. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 100, 64-71.	0.9	61
13	Ketones Step to the Plate. <i>Circulation</i> , 2016, 133, 689-691.	1.6	59
14	Ketogenic Diets and Exercise Performance. <i>Nutrients</i> , 2019, 11, 2296.	1.7	48
15	Transgenic overexpression of ribonucleotide reductase improves cardiac performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6187-6192.	3.3	40
16	Increased cardiac fatty acid oxidation in a mouse model with decreased malonyl-CoA sensitivity of CPT1B. <i>Cardiovascular Research</i> , 2018, 114, 1324-1334.	1.8	37
17	Left ventricular remodeling with exercise in hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H1361-H1368.	1.5	35
18	Metabolic Therapy at the Crossroad: How to Optimize Myocardial Substrate Utilization?. <i>Trends in Cardiovascular Medicine</i> , 2009, 19, 201-207.	2.3	35

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19	Heart specific knockout of Ndufs4 ameliorates ischemia reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 123, 38-45.	0.9	35
20	Promoting PGC-1 β -driven mitochondrial biogenesis is detrimental in pressure-overloaded mouse hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H1307-H1316.	1.5	34
21	AAV6-mediated Cardiac-specific Overexpression of Ribonucleotide Reductase Enhances Myocardial Contractility. <i>Molecular Therapy</i> , 2016, 24, 240-250.	3.7	32
22	Enhancing Cardiac Triacylglycerol Metabolism Improves Recovery From Ischemic Stress. <i>Diabetes</i> , 2015, 64, 2817-2827.	0.3	30
23	An "Exercise" in Cardiac Metabolism. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 66.	1.1	30
24	Assessment of Cardiac Function and Energetics in Isolated Mouse Hearts Using ^{31}P NMR Spectroscopy. <i>Journal of Visualized Experiments</i> , 2010, . .	0.2	24
25	The effects of fatty acid composition on cardiac hypertrophy and function in mouse models of diet-induced obesity. <i>Journal of Nutritional Biochemistry</i> , 2017, 46, 137-142.	1.9	20
26	Increasing fatty acid oxidation elicits a sex-dependent response in failing mouse hearts. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 158, 1-10.	0.9	19
27	Sample preparation methodology for mouse heart metabolomics using comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry. <i>Talanta</i> , 2013, 108, 123-130.	2.9	18
28	Upregulation of mitochondrial ATPase inhibitory factor 1 (ATPIF1) mediates increased glycolysis in mouse hearts. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	17
29	Gene Therapy Rescues Cardiac Dysfunction in Duchenne Muscular Dystrophy Mice by Elevating Cardiomyocyte Deoxy-Adenosine Triphosphate. <i>JACC Basic To Translational Science</i> , 2019, 4, 778-791.	1.9	15
30	Effects of forskolin on inotropic performance and phospholamban phosphorylation in exercise-trained hypertensive myocardium. <i>Journal of Applied Physiology</i> , 2007, 102, 628-633.	1.2	14
31	Pathological hypertrophy and cardiac dysfunction are linked to aberrant endogenous unsaturated fatty acid metabolism. <i>PLoS ONE</i> , 2018, 13, e0193553.	1.1	12
32	Sex differences in endurance exercise capacity and skeletal muscle lipid metabolism in mice. <i>Physiological Reports</i> , 2022, 10, e15174.	0.7	11
33	Ketone Body Metabolism in the Ischemic Heart. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 789458.	1.1	11
34	Voluntary Wheel Running and Pacing-Induced Dysfunction in Hypertension. <i>Clinical and Experimental Hypertension</i> , 2008, 30, 565-573.	0.5	10
35	Acute exercise exacerbates ischemia-induced diastolic rigor in hypertensive myocardium. <i>SpringerPlus</i> , 2012, 1, 46.	1.2	10
36	The Effects of Fasting or Ketogenic Diet on Endurance Exercise Performance and Metabolism in Female Mice. <i>Metabolites</i> , 2021, 11, 397.	1.3	9

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37	Lipid partitioning during cardiac stress. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1472-1480.	1.2	8
38	Myocardial Dysfunction after Severe Food Restriction Is Linked to Changes in the Calcium-Handling Properties in Rats. <i>Nutrients</i> , 2019, 11, 1985.	1.7	6
39	2-deoxy-ATP Alters Myosin Structure to Enhance Cross-Bridge Cycling and Improve Cardiac Function. <i>Biophysical Journal</i> , 2013, 104, 17a.	0.2	3
40	Endurance Exercise Capacity and Substrate Metabolism in Male and Female Mice. <i>FASEB Journal</i> , 2019, 33, 698.1.	0.2	3
41	Exercise regulates cardiac metabolism: Sex does matter. <i>Journal of Sport and Health Science</i> , 2022, 11, 418-420.	3.3	2
42	Response to Comment on Kolwicz et al. Enhancing Cardiac Triacylglycerol Metabolism Improves Recovery From Ischemic Stress. <i>Diabetes</i> 2015;64:2817â€“2827. <i>Diabetes</i> , 2016, 65, e19-e20.	0.3	0
43	Male and Female Mice Respond Differently to Short-term Ketogenic Diet. <i>FASEB Journal</i> , 2022, 36, .	0.2	0