

David F Stowe

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

167 papers	4,845 citations	40 h-index	65 g-index
175 ext. papers	5,269 ext. citations	3.5 avg, IF	5.34 L-index

#	Paper	IF	Citations
167	Mitochondrial reactive oxygen species production in excitable cells: modulators of mitochondrial and cell function. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1373-414	8.4	346
166	Modulation of electron transport protects cardiac mitochondria and decreases myocardial injury during ischemia and reperfusion. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 292, C137-47	5.4	212
165	Ischemic preconditioning alters real-time measure of O ₂ radicals in intact hearts with ischemia and reperfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H566-74	5.2	195
164	Cardioprotection with volatile anesthetics: mechanisms and clinical implications. <i>Anesthesia and Analgesia</i> , 2005 , 100, 1584-1593	3.9	160
163	Reactive oxygen species as mediators of cardiac injury and protection: the relevance to anesthesia practice. <i>Anesthesia and Analgesia</i> , 2005 , 101, 1275-1287	3.9	145
162	Potential therapeutic benefits of strategies directed to mitochondria. <i>Antioxidants and Redox Signaling</i> , 2010 , 13, 279-347	8.4	139
161	Cardiac mitochondrial preconditioning by Big Ca ²⁺ -sensitive K ⁺ channel opening requires superoxide radical generation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H434-40	5.2	111
160	Mitochondrial Ca ²⁺ -induced K ⁺ influx increases respiration and enhances ROS production while maintaining membrane potential. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 292, C148-56	5.4	103
159	Mitochondrial approaches to protect against cardiac ischemia and reperfusion injury. <i>Frontiers in Physiology</i> , 2011 , 2, 13	4.6	100
158	Differences in cardiotoxicity of bupivacaine and ropivacaine are the result of physicochemical and stereoselective properties. <i>Anesthesiology</i> , 2002 , 96, 1427-34	4.3	100
157	Anesthetic preconditioning: triggering role of reactive oxygen and nitrogen species in isolated hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H44-52	5.2	99
156	Reactive oxygen species precede the epsilon isoform of protein kinase C in the anesthetic preconditioning signaling cascade. <i>Anesthesiology</i> , 2003 , 99, 421-8	4.3	98
155	Reduced reactive O ₂ species formation and preserved mitochondrial NADH and [Ca ²⁺] levels during short-term 17 degrees C ischemia in intact hearts. <i>Cardiovascular Research</i> , 2004 , 61, 580-90	9.9	96
154	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	3.9	91
153	Ranolazine reduces Ca ²⁺ overload and oxidative stress and improves mitochondrial integrity to protect against ischemia reperfusion injury in isolated hearts. <i>Pharmacological Research</i> , 2011 , 64, 381-92	10.2	87
152	Anesthetic preconditioning attenuates mitochondrial Ca ²⁺ overload during ischemia in Guinea pig intact hearts: reversal by 5-hydroxydecanoic acid. <i>Anesthesia and Analgesia</i> , 2002 , 95, 1540-6, table of contents	3.9	84
151	Ischemic and anesthetic preconditioning reduces cytosolic [Ca ²⁺] and improves Ca(2+) responses in intact hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H1508-23	5.2	82

150	Inhibited mitochondrial respiration by amobarbital during cardiac ischaemia improves redox state and reduces matrix Ca ²⁺ overload and ROS release. <i>Cardiovascular Research</i> , 2008 , 77, 406-15	9.9	81
149	Reverse electron flow-induced ROS production is attenuated by activation of mitochondrial Ca ²⁺ -sensitive K ⁺ channels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H1400-7	5.2	78
148	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, H53-60	5.2	78
147	Anesthetic preconditioning improves adenosine triphosphate synthesis and reduces reactive oxygen species formation in mitochondria after ischemia by a redox dependent mechanism. <i>Anesthesiology</i> , 2003 , 98, 1155-63	4.3	75
146	Cardiac pharmacological preconditioning with volatile anesthetics: from bench to bedside?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H1603-7	5.2	71
145	Preconditioning with sevoflurane reduces changes in nicotinamide adenine dinucleotide during ischemia-reperfusion in isolated hearts: reversal by 5-hydroxydecanoic acid. <i>Anesthesiology</i> , 2003 , 98, 387-95	4.3	67
144	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, H1289-99	5.2	67
143	Cardiac preconditioning by volatile anesthetic agents: a defining role for altered mitochondrial bioenergetics. <i>Antioxidants and Redox Signaling</i> , 2004 , 6, 439-48	8.4	66
142	Blocking Na ⁽⁺⁾ /H ⁽⁺⁾ exchange reduces [Na ⁽⁺⁾] _i and [Ca ⁽²⁺⁾] _i load after ischemia and improves function in intact hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H2398-409	5.2	66
141	Sevoflurane before or after ischemia improves contractile and metabolic function while reducing myoplasmic Ca ⁽²⁺⁾ loading in intact hearts. <i>Anesthesiology</i> , 2002 , 96, 125-33	4.3	65
140	Changes in [Na ⁽⁺⁾] _i , compartmental [Ca ⁽²⁺⁾], and NADH with dysfunction after global ischemia in intact hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H280-93	5.2	65
139	Damage to mitochondrial complex I during cardiac ischemia reperfusion injury is reduced indirectly by anti-anginal drug ranolazine. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 419-29	4.6	61
138	Anesthetic preconditioning: the role of free radicals in sevoflurane-induced attenuation of mitochondrial electron transport in Guinea pig isolated hearts. <i>Anesthesia and Analgesia</i> , 2005 , 100, 46-53	3.9	60
137	Attenuation of mitochondrial respiration by sevoflurane in isolated cardiac mitochondria is mediated in part by reactive oxygen species. <i>Anesthesiology</i> , 2004 , 100, 498-505	4.3	50
136	Protection against cardiac injury by small Ca ⁽²⁺⁾ -sensitive K ⁽⁺⁾ channels identified in guinea pig cardiac inner mitochondrial membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 427-42	3.8	48
135	Mitochondrial matrix K ⁺ flux independent of large-conductance Ca ²⁺ -activated K ⁺ channel opening. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 298, C530-41	5.4	47
134	Attenuation of hemodynamic responses to rapid sequence induction and intubation in healthy patients with a single bolus of esmolol. <i>Journal of Clinical Anesthesia</i> , 1990 , 2, 243-52	1.9	46
133	Reduced cytosolic Ca ⁽²⁺⁾ loading and improved cardiac function after cardioplegic cold storage of guinea pig isolated hearts. <i>Circulation</i> , 2000 , 102, 1172-7	16.7	45

132	Ketamine has stereospecific effects in the isolated perfused guinea pig heart. <i>Anesthesiology</i> , 1995 , 82, 1426-37; discussion 25A	4.3	43
131	Dual exposure to sevoflurane improves anesthetic preconditioning in intact hearts. <i>Anesthesiology</i> , 2004 , 100, 569-74	4.3	41
130	KATP channel openers have opposite effects on mitochondrial respiration under different energetic conditions. <i>Journal of Cardiovascular Pharmacology</i> , 2008 , 51, 483-91	3.1	40
129	Modulation of myocardial function and [Ca ²⁺] sensitivity by moderate hypothermia in guinea pig isolated hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H2321-32	5.2	40
128	ROS scavenging before 27 degrees 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, C2021-31	5.4	33
127	Anesthetic preconditioning: effects on latency to ischemic injury in isolated hearts. <i>Anesthesiology</i> , 2003 , 99, 385-91	4.3	31
126	Warm ischemic preconditioning improves mitochondrial redox balance during and after mild hypothermic ischemia in guinea pig isolated hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H2620-7	5.2	30
125	Evaluation of the heart rate response to the Valsalva maneuver. <i>American Heart Journal</i> , 1978 , 95, 707-15	4.9	30
124	Enhanced Na ⁺ /H ⁺ exchange during ischemia and reperfusion impairs mitochondrial bioenergetics and myocardial function. <i>Journal of Cardiovascular Pharmacology</i> , 2008 , 52, 236-44	3.1	29
123	Characterization of human cardiac mitochondrial ATP-sensitive potassium channel and its regulation by phorbol ester in vitro. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H1770-6	5.2	29
122	Tyrosine nitration of voltage-dependent anion channels in cardiac ischemia-reperfusion: reduction by peroxynitrite scavenging. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 2049-59	4.6	28
121	Increasing heart size and age attenuate anesthetic preconditioning in guinea pig isolated hearts. <i>Anesthesia and Analgesia</i> , 2005 , 101, 1572-1576	3.9	28
120	Isoflurane modulates cardiac mitochondrial bioenergetics by selectively attenuating respiratory complexes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 354-65	4.6	27
119	Mitochondrial free [Ca ²⁺] increases during ATP/ADP antiport and ADP phosphorylation: exploration of mechanisms. <i>Biophysical Journal</i> , 2010 , 99, 997-1006	2.9	26
118	Isoflurane activates human cardiac mitochondrial adenosine triphosphate-sensitive K ⁺ channels reconstituted in lipid bilayers. <i>Anesthesia and Analgesia</i> , 2007 , 105, 926-32, table of contents	3.9	26
117	Differential effects of arginine vasopressin on isolated guinea pig heart function during perfusion at constant flow and constant pressure. <i>Journal of Cardiovascular Pharmacology</i> , 1997 , 29, 1-7	3.1	26
116	Mitochondrial targets for volatile anesthetics against cardiac ischemia-reperfusion injury. <i>Frontiers in Physiology</i> , 2014 , 5, 341	4.6	25
115	Halothane reduces dysrhythmias and improves contractile function after global hypoperfusion in isolated hearts. <i>Anesthesia and Analgesia</i> , 1992 , 74, 384-94	3.9	24

114	Differential effects of buffer pH on Ca ²⁺ -induced ROS emission with inhibited mitochondrial complexes I and III. <i>Frontiers in Physiology</i> , 2015 , 6, 58	4.6	23
113	Dynamic buffering of mitochondrial Ca ²⁺ during Ca ²⁺ uptake and Na ⁺ -induced Ca ²⁺ release. <i>Journal of Bioenergetics and Biomembranes</i> , 2013 , 45, 189-202	3.7	22
112	Mitochondrial handling of excess Ca ²⁺ is substrate-dependent with implications for reactive oxygen species generation. <i>Free Radical Biology and Medicine</i> , 2013 , 56, 193-203	7.8	22
111	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, 275-80	1.7	21
110	Modulation of mitochondrial bioenergetics in the isolated Guinea pig beating heart by potassium and lidocaine cardioplegia: implications for cardioprotection. <i>Journal of Cardiovascular Pharmacology</i> , 2009 , 54, 298-309	3.1	21
109	Na ⁺ /H ⁺ exchange inhibition with cardioplegia reduces cytosolic [Ca ²⁺] and myocardial damage after cold ischemia. <i>Journal of Cardiovascular Pharmacology</i> , 2003 , 41, 686-98	3.1	21
108	Sevoflurane preconditioning before moderate hypothermic ischemia protects against cytosolic [Ca ²⁺] loading and myocardial damage in part via mitochondrial K(ATP) channels. <i>Anesthesiology</i> , 2002 , 97, 912-20	4.3	21
107	Halothane reduces release of adenosine, inosine, and lactate with ischemia and reperfusion in isolated hearts. <i>Anesthesia and Analgesia</i> , 1993 , 76, 54-62	3.9	21
106	Extra-matrix Mg ²⁺ limits Ca ²⁺ uptake and modulates Ca ²⁺ uptake-independent respiration and redox state in cardiac isolated mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2013 , 45, 203-18	3.7	20
105	Reversal of hypothermia-induced action potential lengthening by the KATP channel agonist bimakalim in isolated guinea pig ventricular muscle. <i>General Pharmacology</i> , 1998 , 31, 125-31		20
104	Anesthetic preconditioning enhances Ca ²⁺ handling and mechanical and metabolic function elicited by Na ⁺ -Ca ²⁺ exchange inhibition in isolated hearts. <i>Anesthesiology</i> , 2006 , 105, 541-9	4.3	20
103	A comparison of three phosphodiesterase type III inhibitors on mechanical and metabolic function in guinea pig isolated hearts. <i>Anesthesia and Analgesia</i> , 2006 , 102, 1646-52	3.9	20
102	Effects of 2,3-butanedione monoxime in isolated hearts: Protection during reperfusion after global ischemia. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1993 , 105, 532-540	1.5	20
101	Reversible blockade of complex I or inhibition of PKC reduces activation and mitochondria translocation of p66Shc to preserve cardiac function after ischemia. <i>PLoS ONE</i> , 2014 , 9, e113534	3.7	19
100	The comparative effects of equimolar sevoflurane and isoflurane in isolated hearts. <i>Anesthesia and Analgesia</i> , 1995 , 81, 1026-32	3.9	19
99	Peroxynitrite nitrates adenine nucleotide translocase and voltage-dependent anion channel 1 and alters their interactions and association with hexokinase II in mitochondria. <i>Mitochondrion</i> , 2019 , 46, 380-392	4.9	19
98	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, 175-88	3.7	18
97	Cardiac preconditioning with 4-h, 17 degrees C ischemia reduces [Ca(2+)](i) load and damage in part via K(ATP) channel opening. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H1961-9	5.2	18

96	Inhibition of Na(+)/H(+) isoform-1 exchange protects hearts perfused after 6-hour cardioplegic cold storage. <i>Journal of Heart and Lung Transplantation</i> , 2002 , 21, 374-82	5.8	18
95	Cyclosporin A Increases Mitochondrial Buffering of Calcium: An Additional Mechanism in Delaying Mitochondrial Permeability Transition Pore Opening. <i>Cells</i> , 2019 , 8,	7.9	17
94	Partial attenuation of hemodynamic responses to rapid sequence induction and intubation with labetalol. <i>Journal of Clinical Anesthesia</i> , 1989 , 1, 444-51	1.9	17
93	Ten-hour preservation of guinea pig isolated hearts perfused at low flow with air-saturated Lifer solution at 26[degrees]C: comparison to ViaSpan solution. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H895-901	5.2	16
92	Neural and endothelial control of the peripheral circulation--implications for anesthesia: Part II, Endothelium-mediated effects in the normal and diseased circulation. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 1996 , 10, 159-71	2.1	16
91	One-day hypothermic preservation of isolated hearts with halothane improves cardiac function better than low calcium. <i>Anesthesiology</i> , 1995 , 83, 1065-77	4.3	16
90	Identity and function of a cardiac mitochondrial small conductance Ca-activated K channel splice variant. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017 , 1858, 442-458	4.6	15
89	Low-flow perfusion of guinea pig isolated hearts with 26 degrees C air-saturated Lifer solution for 20 hours preserves function and metabolism. <i>Journal of Heart and Lung Transplantation</i> , 2008 , 27, 1008-15	5.8	15
88	Ischemic preconditioning: triggering role of nitric oxide-derived oxidants in isolated hearts. <i>Journal of Cardiovascular Pharmacology</i> , 2003 , 42, 593-600	3.1	15
87	How inotropic drugs alter dynamic and static indices of cyclic myoplasmic [Ca2+] to contractility relationships in intact hearts. <i>Journal of Cardiovascular Pharmacology</i> , 2003 , 42, 539-53	3.1	15
86	Improved mitochondrial bioenergetics by anesthetic preconditioning during and after 2 hours of 27 degrees C ischemia in isolated hearts. <i>Journal of Cardiovascular Pharmacology</i> , 2005 , 46, 280-7	3.1	15
85	Enhanced charge-independent mitochondrial free Ca(2+) and attenuated ADP-induced NADH oxidation by isoflurane: Implications for cardioprotection. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 453-65	4.6	14
84	Computational analysis of Ca2+ dynamics in isolated cardiac mitochondria predicts two distinct modes of Ca2+ uptake. <i>Journal of Physiology</i> , 2014 , 592, 1917-30	3.9	14
83	Enhanced contractile responsiveness to cytosolic Ca(2+) by delta-2 opioid agonist deltorphin in intact guinea pig hearts. <i>Journal of Molecular and Cellular Cardiology</i> , 2000 , 32, 1647-59	5.8	14
82	Prior preconditioning by ischemia or sevoflurane improves cardiac work per oxygen use in isolated guinea pig hearts after global ischemia. <i>Advances in Experimental Medicine and Biology</i> , 1998 , 454, 533-42	3.6	14
81	Reduced mitochondrial Ca2+ loading and improved functional recovery after ischemia-reperfusion injury in old vs. young guinea pig hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H855-63	5.2	13
80	Differential increase of mitochondrial matrix volume by sevoflurane in isolated cardiac mitochondria. <i>Anesthesia and Analgesia</i> , 2008 , 106, 1049-55, table of contents	3.9	13
79	Cross-bridge kinetics modeled from myoplasmic [Ca2+] and LV pressure at 17 degrees C and after 37 degrees C and 17 degrees C ischemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H1217-29	5.2	13

78	Neural and endothelial control of the peripheral circulation—implications for anesthesia: Part I. Neural control of the peripheral vasculature. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 1996 , 10, 147-58	2.1	13
77	Reperfusion with adenosine and nitroprusside improves preservation of isolated guinea pig hearts after 22 hours of cold perfusion with 2,3 butanedione monoxime. <i>Journal of Cardiovascular Pharmacology</i> , 1993 , 21, 578-86	3.1	13
76	Cardiotonic drugs differentially alter cytosolic [Ca ²⁺] to left ventricular relationships before and after ischemia in isolated guinea pig hearts. <i>Cardiovascular Research</i> , 2003 , 59, 912-25	9.9	12
75	Endogenous and Agonist-induced Opening of Mitochondrial Big Versus Small Ca ²⁺ -sensitive K ⁺ Channels on Cardiac Cell and Mitochondrial Protection. <i>Journal of Cardiovascular Pharmacology</i> , 2017 , 70, 314-328	3.1	10
74	Ischemia-reperfusion injury changes the dynamics of Ca ²⁺ -contraction coupling due to inotropic drugs in isolated hearts. <i>Journal of Applied Physiology</i> , 2006 , 100, 940-50	3.7	10
73	Potassium channel openers attenuate atrioventricular block by bupivacaine in isolated hearts. <i>Anesthesia and Analgesia</i> , 1993 , 76, 1259-65	3.9	10
72	Reversal of endothelin-induced vasoconstriction by endothelium-dependent and -independent vasodilators in isolated hearts and vascular rings. <i>Journal of Cardiovascular Pharmacology</i> , 1997 , 29, 747-54	3.1	10
71	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> , 2018 , 9, 1914	4.6	9
70	Effects of L-arginine and N omega-nitro-L-arginine methyl ester on cardiac perfusion and function after 1-day cold preservation of isolated hearts. <i>Circulation</i> , 1997 , 95, 1623-34	16.7	8
69	Single-lung ventilation and oxidative stress: a different perspective on a common practice. <i>Current Opinion in Anaesthesiology</i> , 2017 , 30, 42-49	2.9	7
68	Safety and Efficacy of Ranolazine for the Treatment of Chronic Angina Pectoris. <i>Clinical Medicine Insights Therapeutics</i> , 2013 , 2013, 1-14	0	7
67	Adding ROS quenchers to cold K ⁺ cardioplegia reduces superoxide emission during 2-hour global cold cardiac ischemia. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2012 , 17, 93-101	2.6	6
66	Reactive oxygen species and cardiac preconditioning: many questions remain. <i>Cardiovascular Drugs and Therapy</i> , 2004 , 18, 87-90	3.9	6
65	Direct effects of halothane and isoflurane in infant rabbit hearts with right ventricular hypertrophy secondary to chronic hypoxemia. <i>Anesthesia and Analgesia</i> , 1995 , 80, 1122-8	3.9	6
64	Genetically determined mitochondrial preservation and cardioprotection against myocardial ischemia-reperfusion injury in a consomic rat model. <i>Physiological Genomics</i> , 2014 , 46, 169-76	3.6	5
63	Total Matrix Ca Modulates Ca Efflux via the Ca/H Exchanger in Cardiac Mitochondria. <i>Frontiers in Physiology</i> , 2020 , 11, 510600	4.6	5
62	PPAR γ -Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. <i>Cells</i> , 2020 , 9,	7.9	4
61	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	2.6	4

60	Effect of low [CaCl ₂] and high [MgCl ₂] cardioplegia and moderate hypothermic ischemia on myoplasmic [Ca ²⁺] and cardiac function in intact hearts. <i>European Journal of Cardio-thoracic Surgery</i> , 2003 , 24, 974-85	3	4
59	Negative inotropic drugs alter indexes of cytosolic [Ca ²⁺]-left ventricular pressure relationships after ischemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H667-80	5.2	4
58	Coronary Flow Response to Vasodilators in Isolated Hearts Cold Perfused for One Day with Butanedione Monoxime. <i>Endothelium: Journal of Endothelial Cell Research</i> , 1994 , 2, 87-98		4
57	Ischemia reperfusion dysfunction changes model-estimated kinetics of myofilament interaction due to inotropic drugs in isolated hearts. <i>BioMedical Engineering OnLine</i> , 2006 , 5, 16	4.1	3
56	Understanding the temporal relationship of ATP loss, calcium loading, and rigor contracture during anoxia, and hypercontracture after anoxia in cardiac myocytes. <i>Cardiovascular Research</i> , 1999 , 43, 285-7	9.9	3
55	Cardiac cell action potential duration is dependent upon induced changes in free Ca ²⁺ activity during pH changes in vitro. <i>Journal of Electrocardiology</i> , 1986 , 19, 143-54	1.4	3
54	Excitation-contraction uncoupling and vasodilators for long-term cold preservation of isolated hearts. <i>Advances in Pharmacology</i> , 1994 , 31, 39-61	5.7	2
53	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	3.9	2
52	Amobarbital, high K ⁺ and lidocaine protect hearts against ischemia reperfusion injury by differential changes in mitochondrial bioenergetics. <i>FASEB Journal</i> , 2006 , 20, A319	0.9	2
51	Cardiac mitochondrial Ca ²⁺ -dependent big K ⁺ channels are open during early reperfusion. <i>FASEB Journal</i> , 2007 , 21, A1224	0.9	2
50	Quantitative Analysis of Mitochondrial Membrane Potential Measurements with JC-1. <i>FASEB Journal</i> , 2007 , 21, A1351	0.9	2
49	Effects of Subnormothermic Regulated Hepatic Reperfusion on Mitochondrial and Transcriptomic Profiles in a Porcine Model. <i>Annals of Surgery</i> , 2021 ,	7.8	2
48	Human heart conjugate cooling simulation: unsteady thermo-fluid-stress analysis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014 , 30, 1372-86	2.6	1
47	Human heart preservation analyses using convective cooling. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2015 , 25, 1426-1443	4.5	1
46	Improvement in functional recovery of the isolated guinea pig heart after hyperkalemic reperfusion with adenosine. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1996 , 111, 74-84	1.5	1
45	Activation of Mitochondrial Ca ²⁺ Sensitive Potassium Channels Enhances Mitochondrial Reactive Oxygen Species Production. <i>FASEB Journal</i> , 2006 , 20, A315	0.9	1
44	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> , 2007 , 21, A1352	0.9	1
43	Reactive Oxygen Species (ROS) and Cardiac Ischemia and Reperfusion Injury 2014 , 889-949		1

42	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> , 2020 , 34, 1-1	0.9	1
41	Phosphodiesterase type 5 inhibition enhances vasorelaxation caused by nitroprusside in guinea pig intact heart and isolated aorta. <i>Journal of Cardiovascular Pharmacology</i> , 2000 , 36, 162-8	3.1	1
40	Characterizing the Cardioprotective Phenotype of Brown Norway Rats: Importance of Optimal Ischemia Duration. <i>FASEB Journal</i> , 2010 , 24,	0.9	1
39	Resveratrol or 32°C hypothermia applied during reperfusion after cardiac ischemia reduces mitochondrial translocation of p66shc. <i>FASEB Journal</i> , 2012 , 26, 678.18	0.9	1
38	Modulation of peroxynitrite produced via mitochondrial nitric oxide synthesis during Ca and succinate-induced oxidative stress in cardiac isolated mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020 , 1861, 148290	4.6	1
37	Cardiovascular pharmacology 2006 , 499-509		
36	Cardiac protection by volatile anesthetics with Na ⁺ /Ca ²⁺ exchanger inhibitors in isolated guinea pig hearts. <i>FASEB Journal</i> , 2006 , 20, A319	0.9	
35	Transfer entropy is a better indicator of changes in AV coupling than standard measures of AV conduction. <i>FASEB Journal</i> , 2006 , 20, A321	0.9	
34	Acidotic perfusion protects against ischemic injury by improving mitochondrial redox balance. <i>FASEB Journal</i> , 2006 , 20, A742	0.9	
33	Mitochondrial Ca ²⁺ -Dependent Big K ⁺ Channels in Postconditioning of Guinea Pig Isolated Hearts. <i>FASEB Journal</i> , 2006 , 20, A1154	0.9	
32	Modulatory effects of endogenous nitric oxide on the bioenergetics of BKCa channels in guinea pig isolated cardiac mitochondria. <i>FASEB Journal</i> , 2006 , 20, A893	0.9	
31	Improved return of left ventricular function and myoplasmic [Ca ²⁺] after ischemia reperfusion injury in hearts from old vs. young guinea pigs. <i>FASEB Journal</i> , 2006 , 20, A384	0.9	
30	Ten hour preservation of guinea pig isolated hearts perfused at low flow with air-saturated Lifor [®] solution at room temperature. <i>FASEB Journal</i> , 2007 , 21, A1255	0.9	
29	Improved mitochondrial Ca ²⁺ handling and functional recovery after ischemia reperfusion injury in hearts from old vs. young guinea pigs. <i>FASEB Journal</i> , 2007 , 21, A1223	0.9	
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27	beta-Blockade abolishes anesthetic preconditioning: impact on clinical applicability. <i>Anesthesiology</i> , 2007 , 106, 1061-2; author reply 1062	4.3	
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