David F Stowe

List of Publications by Year
in descending order

172	5,638	76326	85541
papers	citations	40 h-index	71 g-index

175	175	175	4571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mitochondrial Reactive Oxygen Species Production in Excitable Cells: Modulators of Mitochondrial and Cell Function. Antioxidants and Redox Signaling, 2009, 11, 1373-1414.	5.4	409
2	Modulation of electron transport protects cardiac mitochondria and decreases myocardial injury during ischemia and reperfusion. American Journal of Physiology - Cell Physiology, 2007, 292, C137-C147.	4.6	238
3	Ischemic preconditioning alters real-time measure of O₂ radicals in intact hearts with ischemia and reperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H566-H574.	3.2	226
4	Cardioprotection with Volatile Anesthetics: Mechanisms and Clinical Implications. Anesthesia and Analgesia, 2005, 100, 1584-1593.	2.2	195
5	Reactive Oxygen Species as Mediators of Cardiac Injury and Protection: The Relevance to Anesthesia Practice. Anesthesia and Analgesia, 2005, 101, 1275-1287.	2.2	170
6	Potential Therapeutic Benefits of Strategies Directed to Mitochondria. Antioxidants and Redox Signaling, 2010, 13, 279-347.	5.4	162
7	Differences in Cardiotoxicity of Bupivacaine and Ropivacaine Are the Result of Physicochemical and Stereoselective Properties. Anesthesiology, 2002, 96, 1427-1434.	2.5	134
8	Mitochondrial Approaches to Protect Against Cardiac Ischemia and Reperfusion Injury. Frontiers in Physiology, 2011, 2, 13.	2.8	132
9	Cardiac mitochondrial preconditioning by Big Ca2+-sensitive K+ channel opening requires superoxide radical generation. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H434-H440.	3.2	125
10	Mitochondrial Ca2+-induced K+ influx increases respiration and enhances ROS production while maintaining membrane potential. American Journal of Physiology - Cell Physiology, 2007, 292, C148-C156.	4.6	121
11	Anesthetic preconditioning: triggering role of reactive oxygen and nitrogen species in isolated hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H44-H52.	3.2	115
12	Reactive Oxygen Species Precede the Îµ Isoform of Protein Kinase C in the Anesthetic Preconditioning Signaling Cascade. Anesthesiology, 2003, 99, 421-428.	2.5	109
13	Sevoflurane Exposure Generates Superoxide but Leads to Decreased Superoxide During Ischemia and Reperfusion in Isolated Hearts. Anesthesia and Analgesia, 2003, 96, 949-955.	2.2	108
14	Reduced reactive O2 species formation and preserved mitochondrial NADH and [Ca2+] levels during short-term 17 Â°C ischemia in intact hearts. Cardiovascular Research, 2004, 61, 580-590.	3.8	108
15	Ranolazine reduces Ca2+ overload and oxidative stress and improves mitochondrial integrity to protect against ischemia reperfusion injury in isolated hearts. Pharmacological Research, 2011, 64, 381-392.	7.1	98
16	Reverse electron flow-induced ROS production is attenuated by activation of mitochondrial Ca2+-sensitive K+ channels. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1400-H1407.	3.2	91
17	Ischemic and anesthetic preconditioning reduces cytosolic [Ca²⁺] and improves Ca²⁺responses in intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1508-H1523.	3.2	90
18	Cardiac pharmacological preconditioning with volatile anesthetics: from bench to bedside?. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1603-H1607.	3.2	89

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19	Anesthetic Preconditioning Attenuates Mitochondrial Ca2+ Overload During Ischemia in Guinea Pig Intact Hearts: Reversal by 5-Hydroxydecanoic Acid. Anesthesia and Analgesia, 2002, 95, 1540-1546.	2.2	88
20	Altered NADH and improved function by anesthetic and ischemic preconditioning in guinea pig intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H53-H60.	3.2	88
21	Preconditioning with Sevoflurane Reduces Changes in Nicotinamide Adenine Dinucleotide during Ischemiaâ€“Reperfusion in Isolated Hearts. Anesthesiology, 2003, 98, 387-395.	2.5	83
22	Changes in [Na⁺]_i, compartmental [Ca²⁺], and NADH with dysfunction after global ischemia in intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H280-H293.	3.2	82
23	Anesthetic Preconditioning Improves Adenosine Triphosphate Synthesis and Reduces Reactive Oxygen Species Formation in Mitochondria after Ischemia by a Redox Dependent Mechanism. Anesthesiology, 2003, 98, 1155-1163.	2.5	77
24	Blocking Na⁺/H⁺exchange reduces [Na⁺]_iand [Ca²⁺]_iload after ischemia and improves function in intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2398-H2409.	3.2	75
25	Hypothermia augments reactive oxygen species detected in the guinea pig isolated perfused heart. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1289-H1299.	3.2	74
26	Cardiac Preconditioning by Volatile Anesthetic Agents: A Defining Role for Altered Mitochondrial Bioenergetics. Antioxidants and Redox Signaling, 2004, 6, 439-448.	5.4	73
27	Sevoflurane before or after Ischemia Improves Contractile and Metabolic Function while Reducing Myoplasmic Ca2+Loading in Intact Hearts. Anesthesiology, 2002, 96, 125-133.	2.5	71
28	Damage to mitochondrial complex I during cardiac ischemia reperfusion injury is reduced indirectly by anti-anginal drug ranolazine. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 419-429.	1.0	71
29	Anesthetic Preconditioning: The Role of Free Radicals in Sevoflurane-Induced Attenuation of Mitochondrial Electron Transport in Guinea Pig Isolated Hearts. Anesthesia and Analgesia, 2005, 100, 46-53.	2.2	67
30	Protection against cardiac injury by small Ca2+-sensitive K+ channels identified in guinea pig cardiac inner mitochondrial membrane. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 427-442.	2.6	66
31	Ketamine Has Stereospecific Effects in the Isolated Perfused Guinea Pig Heart. Anesthesiology, 1995, 82, 1426-1437..	2.5	60
32	Attenuation of hemodynamic responses to rapid sequence induction and intubation in healthy patients with a single bolus of esmolol. Journal of Clinical Anesthesia, 1990, 2, 243-252.	1.6	57
33	Attenuation of Mitochondrial Respiration by Sevoflurane in Isolated Cardiac Mitochondria Is Mediated in Part by Reactive Oxygen Species. Anesthesiology, 2004, 100, 498-505.	2.5	57
34	Mitochondrial matrix K⁺flux independent of large-conductance Ca²⁺-activated K⁺channel opening. American Journal of Physiology - Cell Physiology, 2010, 298, C530-C541.	4.6	53
35	Reduced Cytosolic Ca ²⁺ Loading and Improved Cardiac Function After Cardioplegic Cold Storage of Guinea Pig Isolated Hearts. Circulation, 2000, 102, 1172-1177.	1.6	47
36	Dual Exposure to Sevoflurane Improves Anesthetic Preconditioning in Intact Hearts. Anesthesiology, 2004, 100, 569-574.	2.5	47

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37	KATP Channel Openers Have Opposite Effects on Mitochondrial Respiration Under Different Energetic Conditions. Journal of Cardiovascular Pharmacology, 2008, 51, 483-491.	1.9	47
38	Modulation of myocardial function and [Ca2+] sensitivity by moderate hypothermia in guinea pig isolated hearts. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H2321-H2332.	3.2	45
39	Halothane Reduces Release of Adenosine, Inosine, and Lactate with Ischemia and Reperfusion in Isolated Hearts. Anesthesia and Analgesia, 1993, 76, 54???62.	2.2	40
40	Cyclosporin A Increases Mitochondrial Buffering of Calcium: An Additional Mechanism in Delaying Mitochondrial Permeability Transition Pore Opening. Cells, 2019, 8, 1052.	4.1	38
41	ROS scavenging before 27Â°C ischemia protects hearts and reduces mitochondrial ROS, Ca2+ overload, and changes in redox state. American Journal of Physiology - Cell Physiology, 2007, 292, C2021-C2031.	4.6	37
42	Dynamic buffering of mitochondrial Ca2+ during Ca2+ uptake and Na+-induced Ca2+ release. Journal of Bioenergetics and Biomembranes, 2013, 45, 189-202.	2.3	37
43	Halothane Reduces Dysrhythmias and Improves Contractile Function After Global Hypoperfusion in Isolated Hearts. Anesthesia and Analgesia, 1992, 74, 384???394.	2.2	36
44	Anesthetic Preconditioning. Anesthesiology, 2003, 99, 385-391.	2.5	35
45	Evaluation of the heart rate response to the Valsalva maneuver. American Heart Journal, 1978, 95, 707-715.	2.7	34
46	Characterization of human cardiac mitochondrial ATP-sensitive potassium channel and its regulation by phorbol ester in vitro. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1770-H1776.	3.2	34
47	Increasing Heart Size and Age Attenuate Anesthetic Preconditioning in Guinea Pig Isolated Hearts. Anesthesia and Analgesia, 2005, 101, 1572-1576.	2.2	31
48	Warm ischemic preconditioning improves mitochondrial redox balance during and after mild hypothermic ischemia in guinea pig isolated hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2620-H2627.	3.2	31
49	Enhanced Na+/H+ Exchange During Ischemia and Reperfusion Impairs Mitochondrial Bioenergetics and Myocardial Function. Journal of Cardiovascular Pharmacology, 2008, 52, 236-244.	1.9	31
50	Mitochondrial Free [Ca2+] Increases during ATP/ADP Antiport and ADP Phosphorylation: Exploration of Mechanisms. Biophysical Journal, 2010, 99, 997-1006.	0.5	30
51	Tyrosine nitration of voltage-dependent anion channels in cardiac ischemia-reperfusion: reduction by peroxynitrite scavenging. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 2049-2059.	1.0	30
52	Isoflurane modulates cardiac mitochondrial bioenergetics by selectively attenuating respiratory complexes. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 354-365.	1.0	30
53	Differential Effects of Arginine Vasopressin on Isolated Guinea Pig Heart Function During Perfusion at Constant Flow and Constant Pressure. Journal of Cardiovascular Pharmacology, 1997, 29, 1-7.	1.9	30
54	Isoflurane Activates Human Cardiac Mitochondrial Adenosine Triphosphate-Sensitive K+ Channels Reconstituted in Lipid Bilayers. Anesthesia and Analgesia, 2007, 105, 926-932.	2.2	29

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55	Modulation of Mitochondrial Bioenergetics in the Isolated Guinea Pig Beating Heart by Potassium and Lidocaine Cardioplegia: Implications for Cardioprotection. Journal of Cardiovascular Pharmacology, 2009, 54, 298-309.	1.9	28
56	Mitochondrial targets for volatile anesthetics against cardiac ischemia-reperfusion injury. Frontiers in Physiology, 2014, 5, 341.	2.8	28
57	Reversible Blockade of Complex I or Inhibition of PKCÎ² Reduces Activation and Mitochondria Translocation of p66Shc to Preserve Cardiac Function after Ischemia. PLoS ONE, 2014, 9, e113534.	2.5	26
58	Mg2+ differentially regulates two modes of mitochondrial Ca2+ uptake in isolated cardiac mitochondria: implications for mitochondrial Ca2+ sequestration. Journal of Bioenergetics and Biomembranes, 2016, 48, 175-188.	2.3	26
59	Identity and function of a cardiac mitochondrial small conductance Ca 2+ -activated K + channel splice variant. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 442-458.	1.0	26
60	Sevoflurane Preconditioning before Moderate Hypothermic Ischemia Protects against Cytosolic [Ca2+] Loading and Myocardial Damage in Part viaÂ Mitochondrial KATPChannels. Anesthesiology, 2002, 97, 912-920.	2.5	25
61	Mitochondrial handling of excess Ca2+ is substrate-dependent with implications for reactive oxygen speciesgeneration. Free Radical Biology and Medicine, 2013, 56, 193-203.	2.9	25
62	Differential effects of buffer pH on Ca2+-induced ROS emission with inhibited mitochondrial complexes I and III. Frontiers in Physiology, 2015, 6, 58.	2.8	25
63	Extra-matrix Mg2+ limits Ca2+ uptake and modulates Ca2+ uptakeâ€“independent respiration and redox state in cardiac isolated mitochondria. Journal of Bioenergetics and Biomembranes, 2013, 45, 203-218.	2.3	24
64	Peroxynitrite nitrates adenine nucleotide translocase and voltage-dependent anion channel 1 and alters their interactions and association with hexokinase II in mitochondria. Mitochondrion, 2019, 46, 380-392.	3.4	24
65	Effects of 2,3-butanedione monoxime in isolated hearts: Protection during reperfusion after global ischemia. Journal of Thoracic and Cardiovascular Surgery, 1993, 105, 532-540.	0.8	23
66	Anesthetic Preconditioning Enhances Ca2+Handling and Mechanical and Metabolic Function Elicited by Na+â€“Ca2+Exchange Inhibition in Isolated Hearts. Anesthesiology, 2006, 105, 541-549.	2.5	23
67	Reversal of Hypothermia-Induced Action Potential Lengthening by the KATP Channel Agonist Bimakalim in Isolated Guinea Pig Ventricular Muscle. General Pharmacology, 1998, 31, 125-131.	0.7	22
68	Ischemic Preconditioning: Triggering Role of Nitric Oxide-Derived Oxidants in Isolated Hearts. Journal of Cardiovascular Pharmacology, 2003, 42, 593-600.	1.9	22
69	Na+/H+ Exchange Inhibition with Cardioplegia Reduces Cytosolic [Ca2+] and Myocardial Damage after Cold Ischemia. Journal of Cardiovascular Pharmacology, 2003, 41, 686-698.	1.9	22
70	A Comparison of Three Phosphodiesterase Type III Inhibitors on Mechanical and Metabolic Function in Guinea Pig Isolated Hearts. Anesthesia and Analgesia, 2006, 102, 1646-1652.	2.2	22
71	Comparison of cumulative planimetry versus manual dissection to assess experimental infarct size in isolated hearts. Journal of Pharmacological and Toxicological Methods, 2009, 60, 275-280.	0.7	22
72	Computational analysis of Ca²⁺ dynamics in isolated cardiac mitochondria predicts two distinct modes of Ca²⁺ uptake. Journal of Physiology, 2014, 592, 1917-1930.	2.9	22

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73	The Comparative Effects of Equimolar Sevoflurane and Isoflurane in Isolated Hearts. Anesthesia and Analgesia, 1995, 81, 1026-1032.	2.2	21
74	Cardiac preconditioning with 4-h, 17Â°C ischemia reduces [Ca2+]i load and damage in part via KATP channel opening. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1961-H1969.	3.2	21
75	Partial attenuation of hemodynamic responses to rapid sequence induction and intubation with labetalol. Journal of Clinical Anesthesia, 1989, 1, 444-451.	1.6	20
76	Neural and endothelial control of the peripheral circulationâ€"Implications for anesthesia: Part II, endothelium-mediated effects in the normal and diseased circulation. Journal of Cardiothoracic and Vascular Anesthesia, 1996, 10, 159-171.	1.3	18
77	Inhibition of Na+/H+ isoform-1 exchange protects hearts perfused after 6-hour cardioplegic cold storage. Journal of Heart and Lung Transplantation, 2002, 21, 374-382.	0.6	18
78	Reperfusion with Adenosine and Nitroprusside Improves Preservation of Isolated Guinea Pig Hearts After 22 Hours of Cold Perfusion with 2,3 Butanedione Monoxime. Journal of Cardiovascular Pharmacology, 1993, 21, 578-586.	1.9	17
79	One-day Hypothermic Preservation of Isolated Hearts with Halothane Improves Cardiac Function Better than Low Calcium. Anesthesiology, 1995, 83, 1065-1077.	2.5	17
80	Neural and endothelial control of the peripheral circulationâ€"Implications for anesthesia: Part I, neural control of the peripheral vasculature. Journal of Cardiothoracic and Vascular Anesthesia, 1996, 10, 147-158.	1.3	16
81	Enhanced Contractile Responsiveness to Cytosolic Ca2+by Delta-2 Opioid Agonist Deltorphin in Intact Guinea Pig Hearts. Journal of Molecular and Cellular Cardiology, 2000, 32, 1647-1659.	1.9	16
82	How Inotropic Drugs Alter Dynamic and Static Indices of Cyclic Myoplasmic [Ca2+] to Contractility Relationships in Intact Hearts. Journal of Cardiovascular Pharmacology, 2003, 42, 539-553.	1.9	16
83	Improved Mitochondrial Bioenergetics by Anesthetic Preconditioning During and After 2 Hours of 27Â°C Ischemia in Isolated Hearts. Journal of Cardiovascular Pharmacology, 2005, 46, 280-287.	1.9	16
84	Ten-hour preservation of guinea pig isolated hearts perfused at low flow with air-saturated Lifor solution at 26Â°C: comparison to ViaSpan solution. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H895-H901.	3.2	16
85	Enhanced charge-independent mitochondrial free Ca2+ and attenuated ADP-induced NADH oxidation by isoflurane: Implications for cardioprotection. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 453-465.	1.0	16
86	Single-lung ventilation and oxidative stress. Current Opinion in Anaesthesiology, 2017, 30, 42-49.	2.0	16
87	Potassium Channel Openers Attenuate Atrioventricular Block by Bupivacaine in Isolated Hearts. Anesthesia and Analgesia, 1993, 76, 1259-1265.	2.2	15
88	Low-flow Perfusion of Guinea Pig Isolated Hearts With 26Â°C Air-saturated Lifor Solution for 20 Hours Preserves Function and Metabolism. Journal of Heart and Lung Transplantation, 2008, 27, 1008-1015.	0.6	15
89	Differential Increase of Mitochondrial Matrix Volume by Sevoflurane in Isolated Cardiac Mitochondria. Anesthesia and Analgesia, 2008, 106, 1049-1055.	2.2	15
90	Endogenous and Agonist-induced Opening of Mitochondrial Big Versus Small Ca2+-sensitive K+ Channels on Cardiac Cell and Mitochondrial Protection. Journal of Cardiovascular Pharmacology, 2017, 70, 314-328.	1.9	15

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91	Cross-bridge kinetics modeled from myoplasmic [Ca2+] and LV pressure at 17Â°C and after 37Â°C and 17Â°C ischemia. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1217-H1229.	3.2	14
92	Reduced mitochondrial Ca²⁺ loading and improved functional recovery after ischemia-reperfusion injury in old vs. young guinea pig hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H855-H863.	3.2	14
93	Slow Ca2+ Efflux by Ca2+/H+ Exchange in Cardiac Mitochondria Is Modulated by Ca2+ Re-uptake via MCU, Extra-Mitochondrial pH, and H+ Pumping by FOF1-ATPase. Frontiers in Physiology, 2018, 9, 1914.	2.8	14
94	Prior Preconditioning by Ischemia or Sevoflurane Improves Cardiac Work per Oxygen Use in Isolated Guinea Pig Hearts After Global Ischemia. Advances in Experimental Medicine and Biology, 1998, 454, 533-542.	1.6	14
95	Cardiotonic drugs differentially alter cytosolic [Ca2+] to left ventricular relationships before and after ischemia in isolated guinea pig hearts. Cardiovascular Research, 2003, 59, 912-925.	3.8	13
96	Total Matrix Ca2+ Modulates Ca2+ Efflux via the Ca2+/H+ Exchanger in Cardiac Mitochondria. Frontiers in Physiology, 2020, 11, 510600.	2.8	12
97	Ischemia-reperfusion injury changes the dynamics of Ca2+-contraction coupling due to inotropic drugs in isolated hearts. Journal of Applied Physiology, 2006, 100, 940-950.	2.5	11
98	Reversal of Endothelin-Induced Vasoconstriction by Endothelium-Dependent and -Independent Vasodilators in Isolated Hearts and Vascular Rings. Journal of Cardiovascular Pharmacology, 1997, 29, 747-754.	1.9	11
99	PPARÎ³-Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. Cells, 2020, 9, 252.	4.1	10
100	Effects of l -Arginine and N Ï‰ -Nitro- l -Arginine Methyl Ester on Cardiac Perfusion and Function After 1-Day Cold Preservation of Isolated Hearts. Circulation, 1997, 95, 1623-1634.	1.6	9
101	Adding ROS Quenchers to Cold K⁺Cardioplegia Reduces Superoxide Emission During 2-Hour Global Cold Cardiac Ischemia. Journal of Cardiovascular Pharmacology and Therapeutics, 2012, 17, 93-101.	2.0	8
102	Safety and Efficacy of Ranolazine for the Treatment of Chronic Angina Pectoris. Clinical Medicine Insights Therapeutics, 2013, 5, CMT.S7824.	0.4	8
103	Coronary Flow Response to Vasodilators in Isolated Hearts Cold Perfused for One Day with Butanedione Monoxime. Endothelium: Journal of Endothelial Cell Research, 1994, 2, 87-98.	1.7	7
104	Direct Effects of Halothane and Isoflurane in Infant Rabbit Hearts with Right Ventricular Hypertrophy Secondary to Chronic Hypoxemia. Anesthesia and Analgesia, 1995, 80, 1122-1128.	2.2	7
105	Modulation of peroxynitrite produced via mitochondrial nitric oxide synthesis during Ca2+ and succinate-induced oxidative stress in cardiac isolated mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148290.	1.0	7
106	Reactive Oxygen Species and Cardiac Preconditioning: Many Questions Remain. Cardiovascular Drugs and Therapy, 2004, 18, 87-90.	2.6	6
107	Genetically determined mitochondrial preservation and cardioprotection against myocardial ischemia-reperfusion injury in a consomic rat model. Physiological Genomics, 2014, 46, 169-176.	2.3	6
108	Negative inotropic drugs alter indexes of cytosolic [Ca2+]-left ventricular pressure relationships after ischemia. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H667-H680.	3.2	5

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109	Excitation--Contraction Uncoupling and Vasodilators for Long-Term Cold Preservation of Isolated Hearts. Advances in Pharmacology, 1994, 31, 39-61.	2.0	4
110	Effect of low [CaCl2] and high [MgCl2] cardioplegia and moderate hypothermic ischemia on myoplasmic [Ca2+] and cardiac function in intact hearts. European Journal of Cardio-thoracic Surgery, 2003, 24, 974-985.	1.4	4
111	Stretch-induced increase in cardiac contractility is independent of myocyte Ca²⁺while block of stretch channels by streptomycin improves contractility after ischemic stunning. Physiological Reports, 2015, 3, e12486.	1.7	4
112	Effects of Subnormothermic Regulated Hepatic Reperfusion on Mitochondrial and Transcriptomic Profiles in a Porcine Model. Annals of Surgery, 2023, 277, e366-e375.	4.2	4
113	Cardiac cell action potential duration is dependent upon induced changes in free Ca2+ activity during pH changes in vitro. Journal of Electrocardiology, 1986, 19, 143-154.	0.9	3
114	Improvement in functional recovery of the isolated guinea pig heart after hyperkalemic reperfusion with adenosine. Journal of Thoracic and Cardiovascular Surgery, 1996, 111, 74-84.	0.8	3
115	Understanding the temporal relationship of ATP loss, calcium loading, and rigor contracture during anoxia, and hypercontracture after anoxia in cardiac myocytes. Cardiovascular Research, 1999, 43, 285-287.	3.8	3
116	Ischemia reperfusion dysfunction changes model-estimated kinetics of myofilament interaction due to inotropic drugs in isolated hearts. BioMedical Engineering OnLine, 2006, 5, 16.	2.7	3
117	Knockout of VDAC1 in H9c2 Cells Promotes Oxidative Stress-Induced Cell Apoptosis through Decreased Mitochondrial Hexokinase II Binding and Enhanced Glycolytic Stress. Cellular Physiology and Biochemistry, 2020, 54, 853-874.	1.6	3
118	Human heart conjugate cooling simulation: Unsteady thermoâ€fluidâ€stress analysis. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1372-1386.	2.1	2
119	Reactive Oxygen Species (ROS) and Cardiac Ischemia and Reperfusion Injury. , 2014, , 889-949.		2
120	Amobarbital, high K + and lidocaine protect hearts against ischemia reperfusion injury by differential changes in mitochondrial bioenergetics. FASEB Journal, 2006, 20, A319.	0.5	2
121	Cardiac mitochondrial Ca ²⁺ â€dependent big K ⁺ channels are open during early reperfusion. FASEB Journal, 2007, 21, A1224.	0.5	2
122	Quantitative Analysis of Mitochondrial Membrane Potential Measurements with JCâ€1. FASEB Journal, 2007, 21, A1351.	0.5	2
123	ADP/ATP Antiport and ADP Phosphorylation Increase Mitochondrial Free Ca2+. Biophysical Journal, 2009, 96, 244a.	0.5	1
124	Ranolazine Preserves the Integrity of Mitochondrial Supercomplexes. Biophysical Journal, 2010, 98, 56a.	0.5	1
125	Human heart preservation analyses using convective cooling. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1426-1443.	2.8	1
126	Knockout of VDAC1 in H9c2 Cells Promotes tBHPâ€induced Cell Apoptosis Through Decreased Mitochondrial HK II Binding and Enhanced Glycolytic Stress. FASEB Journal, 2020, 34, 1-1.	0.5	1

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127	Phosphodiesterase Type 5 Inhibition Enhances Vasorelaxation Caused by Nitroprusside in Guinea Pig Intact Heart and Isolated Aorta. Journal of Cardiovascular Pharmacology, 2000, 36, 162-168.	1.9	1
128	Transfer entropy is a better indicator of changes in AV coupling than standard measures of AV conduction. FASEB Journal, 2006, 20, A321.	0.5	1
129	Activation of Mitochondrial Ca ²⁺ Sensitive Potassium Channels Enhances Mitochondrial Reactive Oxygen Species Production. FASEB Journal, 2006, 20, A315.	0.5	1
130	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.	0.5	1
131	Ranolazine, a late sodium current inhibitor, reduces ischemiaâ€induced superoxide emission and improves functional recovery in guinea pig isolated hearts. FASEB Journal, 2009, 23, .	0.5	1
132	Characterizing the Cardioprotective Phenotype of Brown Norway Rats: Importance of Optimal Ischemia Duration. FASEB Journal, 2010, 24, .	0.5	1
133	Resveratrol or 32Â°C hypothermia applied during reperfusion after cardiac ischemia reduces mitochondrial translocation of p66shc. FASEB Journal, 2012, 26, 678.18.	0.5	1
134	Cyclosporineâ€A Enhances Mitochondrial Calcium Buffering to Delay mPTP Opening. FASEB Journal, 2019, 33, 660.9.	0.5	1
135	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.	4.0	1
136	Editorial: Genetic Modification of Cardiac Tissue. Frontiers in Cardiovascular Medicine, 2019, 6, 93.	2.4	0
137	Cardiovascular pharmacology. , 2006, , 499-509.		0
138	Cardiac protection by volatile anesthetics with Na + /Ca 2+ exchanger inhibitors in isolated guinea pig hearts. FASEB Journal, 2006, 20, A319.	0.5	0
139	Acidotic perfusion protects against ischemic injury by improving mitochondrial redox balance. FASEB Journal, 2006, 20, A742.	0.5	0
140	Mitochondrial Ca ²⁺ â€Đependent Big K ⁺ Channels in Postconditioning of Guinea Pig Isolated Hearts. FASEB Journal, 2006, 20, A1154.	0.5	0
141	Modulatory effects of endogenous nitric oxide on the bioenergetics of BK _{Ca} channels in guinea pig isolated cardiac mitochondria. FASEB Journal, 2006, 20, A893.	0.5	0
142	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.	0.5	0
143	Ten hour preservation of guinea pig isolated hearts perfused at low flow with airâ€saturated LiforÂ® solution at room temperature. FASEB Journal, 2007, 21, A1255.	0.5	0
144	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.	0.5	0

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145	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.	0.5	0
146	Î²-Blockade Abolishes Anesthetic Preconditioning: Impact on Clinical Applicability. Anesthesiology, 2007, 106, 1061-1062.	2.5	0
147	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.	0.5	0
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