

Steven P Jones

List of Publications by Citations

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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.

99
papers

6,835
citations

47
h-index

82
g-index

109
ext. papers

7,558
ext. citations

7.4
avg, IF

5.52
L-index

#	Paper	IF	Citations
99	The MEK1-ERK1/2 signaling pathway promotes compensated cardiac hypertrophy in transgenic mice. <i>EMBO Journal</i> , 2000 , 19, 6341-50	13	585
98	Functional integration of electrically active cardiac derivatives from genetically engineered human embryonic stem cells with quiescent recipient ventricular cardiomyocytes: insights into the development of cell-based pacemakers. <i>Circulation</i> , 2005 , 111, 11-20	16.7	416
97	The ubiquitous role of nitric oxide in cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 40, 16-23	5.8	356
96	Uncoupling protein-2 overexpression inhibits mitochondrial death pathway in cardiomyocytes. <i>Circulation Research</i> , 2003 , 93, 192-200	15.7	267
95	Guidelines for experimental models of myocardial ischemia and infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H812-H838	5.2	249
94	Endothelial nitric oxide synthase overexpression attenuates congestive heart failure in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 4891-6	11.5	190
93	Cardioprotection by N-acetylglucosamine linkage to cellular proteins. <i>Circulation</i> , 2008 , 117, 1172-82	16.7	179
92	Simvastatin exerts both anti-inflammatory and cardioprotective effects in apolipoprotein E-deficient mice. <i>Circulation</i> , 2001 , 103, 2598-603	16.7	174
91	Endothelial nitric oxide synthase overexpression attenuates myocardial reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H276-82	5.2	163
90	PDGF-mediated autophagy regulates vascular smooth muscle cell phenotype and resistance to oxidative stress. <i>Biochemical Journal</i> , 2013 , 451, 375-88	3.8	147
89	O-linked N-acetylglucosamine transferase is indispensable in the failing heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17797-802	11.5	140
88	O-GlcNAc signaling entrains the circadian clock by inhibiting BMAL1/CLOCK ubiquitination. <i>Cell Metabolism</i> , 2013 , 17, 303-10	24.6	137
87	Myocardial ischemia-reperfusion injury is exacerbated in absence of endothelial cell nitric oxide synthase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H1567-73	5.2	133
86	Heart-targeted overexpression of caspase3 in mice increases infarct size and depresses cardiac function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 9977-82	11.5	132
85	Metabolomic analysis of pressure-overloaded and infarcted mouse hearts. <i>Circulation: Heart Failure</i> , 2014 , 7, 634-42	7.6	130
84	O-GlcNAc signaling in the cardiovascular system. <i>Circulation Research</i> , 2010 , 107, 171-85	15.7	125
83	Augmented O-GlcNAc signaling attenuates oxidative stress and calcium overload in cardiomyocytes. <i>Amino Acids</i> , 2011 , 40, 895-911	3.5	121

82	Leukocyte-endothelial cell interactions in nitric oxide synthase-deficient mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H1943-50	5.2	117
81	Direct vascular and cardioprotective effects of rosuvastatin, a new HMG-CoA reductase inhibitor. <i>Journal of the American College of Cardiology</i> , 2002 , 40, 1172-8	15.1	116
80	The NHLBI-sponsored Consortium for preclinical assessment of cardioprotective therapies (CAESAR): a new paradigm for rigorous, accurate, and reproducible evaluation of putative infarct-sparing interventions in mice, rabbits, and pigs. <i>Circulation Research</i> , 2015 , 116, 572-86	15.7	111
79	Bioenergetic function in cardiovascular cells: the importance of the reserve capacity and its biological regulation. <i>Chemico-Biological Interactions</i> , 2011 , 191, 288-95	5	111
78	Cariporide (HOE642), a selective Na ⁺ -H ⁺ exchange inhibitor, inhibits the mitochondrial death pathway. <i>Circulation</i> , 2003 , 108, 2275-81	16.7	99
77	Simvastatin attenuates oxidant-induced mitochondrial dysfunction in cardiac myocytes. <i>Circulation Research</i> , 2003 , 93, 697-9	15.7	98
76	TRO40303, a new cardioprotective compound, inhibits mitochondrial permeability transition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 333, 696-706	4.7	94
75	O-GlcNAc and the cardiovascular system. <i>Pharmacology & Therapeutics</i> , 2014 , 142, 62-71	13.9	93
74	Unique hexosaminidase reduces metabolic survival signal and sensitizes cardiac myocytes to hypoxia/reoxygenation injury. <i>Circulation Research</i> , 2009 , 104, 41-9	15.7	93
73	Non-canonical glycosyltransferase modulates post-hypoxic cardiac myocyte death and mitochondrial permeability transition. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 45, 313-25	5.8	92
72	O-GlcNAc signaling attenuates ER stress-induced cardiomyocyte death. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H1711-9	5.2	84
71	Pretreatment with simvastatin attenuates myocardial dysfunction after ischemia and chronic reperfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 2059-64	9.4	80
70	Myocardial ischemia/reperfusion injury in NADPH oxidase-deficient mice. <i>Circulation Research</i> , 2000 , 87, 812-7	15.7	79
69	O-GlcNAc signaling is essential for NFAT-mediated transcriptional reprogramming during cardiomyocyte hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H2122-30	5.2	77
68	HMG-CoA reductase inhibition protects the diabetic myocardium from ischemia-reperfusion injury. <i>FASEB Journal</i> , 2001 , 15, 1454-6	0.9	77
67	Differential actions of cardioprotective agents on the mitochondrial death pathway. <i>Circulation Research</i> , 2003 , 92, 195-202	15.7	73
66	Post-transcriptional gene silencing of KCHIP2 and Navbeta1 in neonatal rat cardiac myocytes reveals a functional association between Na and Ito currents. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 45, 336-46	5.8	64
65	Leukocyte and endothelial cell adhesion molecules in a chronic murine model of myocardial reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H2196-201	5.2	64

64	CD8(+)-T-cell depletion ameliorates circulatory shock in Plasmodium berghei-infected mice. <i>Infection and Immunity</i> , 2001 , 69, 7341-8	3.7	64
63	Exercise-Induced Changes in Glucose Metabolism Promote Physiological Cardiac Growth. <i>Circulation</i> , 2017 , 136, 2144-2157	16.7	63
62	Role of intracellular antioxidant enzymes after in vivo myocardial ischemia and reperfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H277-82	5.2	63
61	Differential response to myocardial reperfusion injury in eNOS-deficient mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H2422-6	5.2	63
60	High fat feeding in mice is insufficient to induce cardiac dysfunction and does not exacerbate heart failure. <i>PLoS ONE</i> , 2013 , 8, e83174	3.7	60
59	MicroRNA-539 is up-regulated in failing heart, and suppresses O-GlcNAcase expression. <i>Journal of Biological Chemistry</i> , 2014 , 289, 29665-76	5.4	55
58	PR-39, a potent neutrophil inhibitor, attenuates myocardial ischemia-reperfusion injury in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H2824-8	5.2	53
57	Effects of hypercholesterolemia on myocardial ischemia-reperfusion injury in LDL receptor-deficient mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999 , 19, 2776-81	9.4	53
56	Myocardial ischemia-reperfusion injury in CD18- and ICAM-1-deficient mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998 , 275, H2300-7	5.2	51
55	Reperfusion injury is not affected by blockade of P-selectin in the diabetic mouse heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H763-9	5.2	48
54	Cardiomyocyte Ogt is essential for postnatal viability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H142-53	5.2	47
53	Protein O-GlcNAcylation is a novel cytoprotective signal in cardiac stem cells. <i>Stem Cells</i> , 2013 , 31, 765-75.8		47
52	Leukocyte iNOS is required for inflammation and pathological remodeling in ischemic heart failure. <i>Basic Research in Cardiology</i> , 2017 , 112, 19	11.8	46
51	Standardized bioenergetic profiling of adult mouse cardiomyocytes. <i>Physiological Genomics</i> , 2012 , 44, 1208-13	3.6	44
50	Cardiac overexpression of 8-oxoguanine DNA glycosylase 1 protects mitochondrial DNA and reduces cardiac fibrosis following transaortic constriction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H2073-80	5.2	39
49	Coronary endothelial P-selectin in pathogenesis of myocardial ischemia-reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998 , 275, H1865-72	5.2	37
48	Recent Developments in Heart Failure. <i>Circulation Research</i> , 2015 , 117, e58-63	15.7	36
47	Integration of flux measurements to resolve changes in anabolic and catabolic metabolism in cardiac myocytes. <i>Biochemical Journal</i> , 2017 , 474, 2785-2801	3.8	36

46	Cardioprotective actions of acute HMG-CoA reductase inhibition in the setting of myocardial infarction. <i>Acta Physiologica Scandinavica</i> , 2001 , 173, 139-43		36
45	Cardioprotective actions of endogenous IL-10 are independent of iNOS. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H48-52	5.2	36
44	Endothelial cell overexpression of fas ligand attenuates ischemia-reperfusion injury in the heart. <i>Journal of Biological Chemistry</i> , 2003 , 278, 15185-91	5.4	33
43	Deficiency of iNOS does not attenuate severe congestive heart failure in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H365-70	5.2	33
42	High glucose induces mitochondrial dysfunction independently of protein O-GlcNAcylation. <i>Biochemical Journal</i> , 2015 , 467, 115-26	3.8	31
41	Physiological Biomimetic Culture System for Pig and Human Heart Slices. <i>Circulation Research</i> , 2019 , 125, 628-642	15.7	29
40	New insights into metabolic signaling and cell survival: the role of beta-O-linkage of N-acetylglucosamine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 327, 602-9	4.7	29
39	Low-dose simvastatin improves survival and ventricular function via eNOS in congestive heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H2743-51	5.2	28
38	Cardiac phosphatase-deficient 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase increases glycolysis, hypertrophy, and myocyte resistance to hypoxia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H2889-97	5.2	27
37	A New Method to Stabilize C-Kit Expression in Reparative Cardiac Mesenchymal Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2016 , 4, 78	5.7	27
36	The COX-2/PGI2 receptor axis plays an obligatory role in mediating the cardioprotection conferred by the late phase of ischemic preconditioning. <i>PLoS ONE</i> , 2012 , 7, e41178	3.7	26
35	Myocardial reperfusion injury in neuronal nitric oxide synthase deficient mice. <i>Coronary Artery Disease</i> , 2000 , 11, 593-7	1.4	25
34	Cardiomyocyte Ogt limits ventricular dysfunction in mice following pressure overload without affecting hypertrophy. <i>Basic Research in Cardiology</i> , 2017 , 112, 23	11.8	24
33	Responses of hypertrophied myocytes to reactive species: implications for glycolysis and electrophile metabolism. <i>Biochemical Journal</i> , 2011 , 435, 519-28	3.8	23
32	E2F1 Transcription Factor Regulates O-linked N-acetylglucosamine (O-GlcNAc) Transferase and O-GlcNAcase Expression. <i>Journal of Biological Chemistry</i> , 2015 , 290, 31013-24	5.4	22
31	Ischemic preconditioning prevents postischemic P-selectin expression in the rat small intestine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H2476-81	5.2	22
30	Endothelial dysfunction as a nexus for endothelial cell-cardiomyocyte miscommunication. <i>Frontiers in Physiology</i> , 2014 , 5, 328	4.6	21
29	E2f1 deletion attenuates infarct-induced ventricular remodeling without affecting O-GlcNAcylation. <i>Basic Research in Cardiology</i> , 2019 , 114, 28	11.8	20

28	Regulates Igf2bp2 Translation in Cardiomyocytes. <i>Circulation Research</i> , 2018 , 122, 1347-1353	15.7	17
27	RNA Editing: Unexplored Opportunities in the Cardiovascular System. <i>Circulation Research</i> , 2018 , 122, 399-401	15.7	17
26	Reduced cardiac fructose 2,6 bisphosphate increases hypertrophy and decreases glycolysis following aortic constriction. <i>PLoS ONE</i> , 2013 , 8, e53951	3.7	16
25	Deficiency of aldose reductase exacerbates early pressure overload-induced cardiac dysfunction and autophagy in mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 118, 183-192	5.8	15
24	A bittersweet modification: O-GlcNAc and cardiac dysfunction. <i>Circulation Research</i> , 2005 , 96, 925-6	15.7	13
23	Induction of activating transcription factor 3 limits survival following infarct-induced heart failure in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H1326-35	5.2	12
22	Acute exposure to a high cholesterol diet attenuates myocardial ischemia-reperfusion injury in cholesteryl ester transfer protein mice. <i>Coronary Artery Disease</i> , 2001 , 12, 37-44	1.4	12
21	TNF receptor signaling inhibits cardiomyogenic differentiation of cardiac stem cells and promotes a neuroadrenergic-like fate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H1189-H1201	5.2	9
20	Using gene-targeted mice to investigate the pathophysiology of myocardial reperfusion injury. <i>Basic Research in Cardiology</i> , 2000 , 95, 499-502	11.8	8
19	Cardiac-specific overexpression of aldehyde dehydrogenase 2 exacerbates cardiac remodeling in response to pressure overload. <i>Redox Biology</i> , 2018 , 17, 440-449	11.3	7
18	Metabolic regulation of Kv channels and cardiac repolarization by Kv β subunits. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 137, 93-106	5.8	7
17	Guidelines for in vivo mouse models of myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 321, H1056-H1073	5.2	7
16	Myocardial Reperfusion Injury: Insights Gained from Gene-Targeted Mice. <i>Physiology</i> , 2000 , 15, 303-308	9.8	6
15	RDH10 function is necessary for spontaneous fetal mouth movement that facilitates palate shelf elevation. <i>DMM Disease Models and Mechanisms</i> , 2019 , 12,	4.1	6
14	O-GlcNAcylation Negatively Regulates Cardiomyogenic Fate in Adult Mouse Cardiac Mesenchymal Stromal Cells. <i>PLoS ONE</i> , 2015 , 10, e0142939	3.7	4
13	Cardiac mesenchymal cells from failing and nonfailing hearts limit ventricular dilation when administered late after infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H109-H122	5.2	2
12	Cardiomyocyte Oga haploinsufficiency increases O-GlcNAcylation but hastens ventricular dysfunction following myocardial infarction. <i>PLoS ONE</i> , 2020 , 15, e0242250	3.7	2
11	Loss of O-GlcNAc transferase activity sensitizes cardiac myocytes to post-hypoxic death. <i>FASEB Journal</i> , 2008 , 22, 750.10	0.9	2

10	O-GlcNAc signaling attenuates mitochondrial permeability transition. <i>FASEB Journal</i> , 2008 , 22,	0.9	2
9	Protein O-GlcNAcylation A Novel Cell Survival Signal in Cardiac Stem Cells. <i>FASEB Journal</i> , 2012 , 26, 693.1	0.9	1
8	Cardiac PANK1 deletion exacerbates ventricular dysfunction during pressure overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 321, H784-H797	5.2	0
7	Leukocyte-Endothelial Interactions Following Myocardial Ischemia 2003 , 427-438		
6	O-GlcNAcase Exacerbates Post-Hypoxic Cardiac Myocyte Death. <i>FASEB Journal</i> , 2007 , 21, A1376	0.9	
5	O-GlcNAc Transferase is a Pro-Survival Enzyme in Post-Hypoxic Cardiac Myocytes. <i>FASEB Journal</i> , 2007 , 21, A800	0.9	
4	Hexosamine signaling reduces ER stress-induced cardiomyocyte death. <i>FASEB Journal</i> , 2009 , 23, 991.7	0.9	
3	TRO40303 attenuates oxidant-induced mitochondrial dysfunction in cardiac myocytes. <i>FASEB Journal</i> , 2009 , 23, LB71	0.9	
2	Protein O-GlcNAcylation Exerts Mitogenic Effects in Cardiac Progenitor Cells. <i>FASEB Journal</i> , 2011 , 25, 1043.16	0.9	
1	Protein O-GlcNAcylation Promotes Post-hypoxic Survival of Cardiac Progenitor Cells. <i>FASEB Journal</i> , 2011 , 25, 861.12	0.9	