

David M Roth

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.

55
papers

1,464
citations

20
h-index

38
g-index

59
ext. papers

1,628
ext. citations

3.9
avg, IF

3.68
L-index

#	Paper	IF	Citations
55	Impact of anesthesia on cardiac function during echocardiography in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H2134-40	5.2	237
54	Cardiac-directed adenylyl cyclase expression improves heart function in murine cardiomyopathy. <i>Circulation</i> , 1999 , 99, 3099-102	16.7	151
53	Mechanisms of cardiac protection from ischemia/reperfusion injury: a role for caveolae and caveolin-1. <i>FASEB Journal</i> , 2007 , 21, 1565-74	0.9	112
52	Cardiac-specific overexpression of caveolin-3 induces endogenous cardiac protection by mimicking ischemic preconditioning. <i>Circulation</i> , 2008 , 118, 1979-88	16.7	111
51	Management of the waiting list for cadaveric kidney transplants: report of a survey and recommendations by the Clinical Practice Guidelines Committee of the American Society of Transplantation. <i>Journal of the American Society of Nephrology: JASN</i> , 2002 , 13, 528-535	12.7	77
50	Cardiac-specific overexpression of caveolin-3 attenuates cardiac hypertrophy and increases natriuretic peptide expression and signaling. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 2273-83	15.1	76
49	Mitochondria-localized caveolin in adaptation to cellular stress and injury. <i>FASEB Journal</i> , 2012 , 26, 4637-49	4.9	72
48	Ischaemic preconditioning preferentially increases protein S-nitrosylation in subsarcolemmal mitochondria. <i>Cardiovascular Research</i> , 2015 , 106, 227-36	9.9	63
47	Focal adhesions in (myo)fibroblasts scaffold adenylyl cyclase with phosphorylated caveolin. <i>Journal of Biological Chemistry</i> , 2006 , 281, 17173-17179	5.4	59
46	Role of caveolin-3 and glucose transporter-4 in isoflurane-induced delayed cardiac protection. <i>Anesthesiology</i> , 2010 , 112, 1136-45	4.3	46
45	Efficacy of methylprednisolone in preventing lung injury following pulmonary thromboendarterectomy. <i>Chest</i> , 2012 , 141, 27-35	5.3	43
44	Caveolin-3 Overexpression Attenuates Cardiac Hypertrophy via Inhibition of T-type Ca ²⁺ Current Modulated by Protein Kinase C β in Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2015 , 290, 22085-100	5.4	39
43	Indirect intracoronary delivery of adenovirus encoding adenylyl cyclase increases left ventricular contractile function in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H172-7	5.2	35
42	Nitroprusside increases gene transfer associated with intracoronary delivery of adenovirus. <i>Human Gene Therapy</i> , 2004 , 15, 989-94	4.8	29
41	Sarcolemmal cholesterol and caveolin-3 dependence of cardiac function, ischemic tolerance, and opioidergic cardioprotection. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H895-903	5.2	28
40	Role of caveolae in cardiac protection. <i>Pediatric Cardiology</i> , 2011 , 32, 329-33	2.1	27
39	Caveolin-3 KO disrupts t-tubule structure and decreases t-tubular I density in mouse ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H1101-H1111	5.2	21

38	Long-term atorvastatin treatment leads to alterations in behavior, cognition, and hippocampal biochemistry. <i>Behavioural Brain Research</i> , 2014 , 267, 6-11	3.4	21
37	Caveolin modulates integrin function and mechanical activation in the cardiomyocyte. <i>FASEB Journal</i> , 2015 , 29, 374-84	0.9	20
36	Caveolin-3 plays a critical role in autophagy after ischemia-reperfusion. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 311, C854-C865	5.4	18
35	Caveolin-1 regulation of disrupted-in-schizophrenia-1 as a potential therapeutic target for schizophrenia. <i>Journal of Neurophysiology</i> , 2017 , 117, 436-444	3.2	16
34	The Effects of Aging on the Regulation of T-Tubular ICa by Caveolin in Mouse Ventricular Myocytes. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 711-719	6.4	12
33	Cardiac-directed expression of adenylyl cyclase and heart rate regulation. <i>Basic Research in Cardiology</i> , 2003 , 98, 380-7	11.8	12
32	Electrophysiology and metabolism of caveolin-3-overexpressing mice. <i>Basic Research in Cardiology</i> , 2016 , 111, 28	11.8	12
31	Metabolomic analysis of serum and myocardium in compensated heart failure after myocardial infarction. <i>Life Sciences</i> , 2019 , 221, 212-223	6.8	9
30	Helium-Induced Changes in Circulating Caveolin in Mice Suggest a Novel Mechanism of Cardiac Protection. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	9
29	Chronic β -adrenoceptor blockade impairs ischaemic tolerance and preconditioning in murine myocardium. <i>European Journal of Pharmacology</i> , 2016 , 789, 1-7	5.3	7
28	Modulation of caveolins, integrins and plasma membrane repair proteins in anthracycline-induced heart failure in rabbits. <i>PLoS ONE</i> , 2017 , 12, e0177660	3.7	7
27	Cardiac-specific overexpression of caveolin-3 preserves t-tubular I during heart failure in mice. <i>Experimental Physiology</i> , 2019 , 104, 654-666	2.4	6
26	Signaling epicenters: the role of caveolae and caveolins in volatile anesthetic induced cardiac protection. <i>Current Pharmaceutical Design</i> , 2014 , 20, 5681-9	3.3	5
25	Role of caveolin-3 in lymphocyte activation. <i>Life Sciences</i> , 2015 , 121, 35-9	6.8	2
24	Protective role of cardiac-specific overexpression of caveolin-3 in cirrhotic cardiomyopathy. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, G531-G541	5.1	1
23	Role of caveolin-3 and mitochondria in protecting the aged myocardium. <i>FASEB Journal</i> , 2012 , 26, 864.16	0.9	1
22	Caveolin-1 overexpression repairs neuronal degradation in the setting of traumatic brain injury. <i>FASEB Journal</i> , 2013 , 27, 693.10	0.9	1
21	Caveolin-1 knockout mice have decreased enrichment of redox-sensitive enzymes in renal caveolar fractions. <i>FASEB Journal</i> , 2007 , 21, A1424	0.9	

- 20 Cardiac-Specific Overexpression of Caveolin-3 Enhances Akt Phosphorylation. *FASEB Journal*, **2007**, 21, A794 0.9
- 19 Tissue plasminogen activator blocks ISOFLURANE-mediated neuronal apoptosis in developing neurons. *FASEB Journal*, **2008**, 22, 648.24 0.9
- 18 Sex Differences in Type-2 Diabetes: Implications for Caveolin-3 Regulated Mitochondrial Function. *FASEB Journal*, **2019**, 33, 830.4 0.9
- 17 Novel Roles for Catestatin in Cardiac Metabolism and Physiology. *FASEB Journal*, **2015**, 29, 1025.12 0.9
- 16 Ischemic Tolerance and Conventional Preconditioning are Impaired by Chronic β -Blockade. *FASEB Journal*, **2015**, 29, 635.1 0.9
- 15 Increased GlcNacation and decreased caveolin-3 in cardiac myocyte caveolae during diabetes mellitus. *FASEB Journal*, **2009**, 23, 990.26 0.9
- 14 Dynamin and caveolae in cardiac ischemic preconditioning. *FASEB Journal*, **2009**, 23, LB381 0.9
- 13 Cardiac myocyte-specific caveolin-3 overexpression modulates ANP production and attenuates cardiac hypertrophy in vivo. *FASEB Journal*, **2009**, 23, 576.10 0.9
- 12 Cerebral ischemic preconditioning protects neurons from apoptosis via decoy receptors. *FASEB Journal*, **2009**, 23, 614.10 0.9
- 11 Caveolin and the aged myocardium. *FASEB Journal*, **2010**, 24, 819.2 0.9
- 10 A role for miR-471 in cardiac ischemia-reperfusion injury. *FASEB Journal*, **2010**, 24, 626.2 0.9
- 9 Regulation of mitochondrial function by caveolin-3. *FASEB Journal*, **2010**, 24, 819.1 0.9
- 8 EFFECT OF EPICATECHIN AND NALOXONE ON CARDIO-PROTECTIVE PHENOTYPE. *FASEB Journal*, **2010**, 24, 1029.8 0.9
- 7 Caveolin-3 regulates isoflurane-induced postconditioning. *FASEB Journal*, **2011**, 25, 1097.8 0.9
- 6 Effects of noble gas conditioning on Caveolin expression in the rat heart in vivo. *FASEB Journal*, **2012**, 26, 1114.17 0.9
- 5 Decreased caveolin-3 and increased GlcNacation in cardiac myocyte caveolae during diabetes mellitus. *FASEB Journal*, **2012**, 26, 1127.14 0.9
- 4 Myocardial cholesterol homeostasis is altered by age and Cav-3 knockdown. *FASEB Journal*, **2012**, 26, 1117.5 0.9
- 3 Effect of low-dose epicatechin on mitochondrial function and membrane fluidity. *FASEB Journal*, **2012**, 26, 852.1 0.9

2 AKIP1 protects against cardiac injury via enhanced mitochondrial function. *FASEB Journal*, **2013**, 27, 657.3.9

1 Angiotensin-II induced cardiac hypertrophic responses are mediated via PKC and NFAT signaling is attenuated by caveolin-3 in ventricular myocytes. *FASEB Journal*, **2013**, 27, 1197.2 0.9