Kuo-Chu Chang

List of Publications by Year
in descending order

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32	312	840776 11	888059 17
papers	citations	h-index	g-index

32	32	32	373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acute effects of nitric oxide blockade with L -NAME on arterial haemodynamics in the rat. British Journal of Pharmacology, 1997, 122, 1237-1243.	5.4	57
2	Aminoguanidine prevents arterial stiffening and cardiac hypertrophy in streptozotocin-induced diabetes in rats. British Journal of Pharmacology, 2006, 147, 944-950.	5.4	31
3	Prevention of arterial stiffening by pyridoxamine in diabetes is associated with inhibition of the pathogenic glycation on aortic collagen. British Journal of Pharmacology, 2009, 157, 1419-1426.	5.4	30
4	Pyridoxamine prevents age-related aortic stiffening and vascular resistance in association with reduced collagen glycation. Experimental Gerontology, 2011, 46, 482-488.	2.8	16
5	Single-beat Estimation of the Ventricular Pumping Mechanics in Terms of the Systolic Elastance and Resistance. Journal of Theoretical Biology, 1997, 189, 89-95.	1.7	15
6	Effects of Diabetes and Gender on Mechanical Properties of the Arterial System in Rats: Aortic Impedance Analysis¹. Experimental Biology and Medicine, 2003, 228, 70-78.	2.4	15
7	Prevention of Arterial Stiffening by Using Low-Dose Atorvastatin in Diabetes Is Associated with Decreased Malondialdehyde. PLoS ONE, 2014, 9, e90471.	2.5	13
8	Aminoguanidine prevents age-related aortic stiffening in Fisher 344 rats: aortic impedance analysis. British Journal of Pharmacology, 2003, 140, 107-114.	5.4	12
9	Aminoguanidine prevents age-related deterioration in left ventricular-arterial coupling in Fisher 344 rats. British Journal of Pharmacology, 2004, 142, 1099-1104.	5.4	12
10	Early return of augmented wave reflection impairs left ventricular relaxation in aged Fisher 344 rats. Experimental Gerontology, 2012, 47, 680-686.	2.8	12
11	ENHANCED EXPRESSION OF CARDIAC NERVE GROWTH FACTOR AND NERVE SPROUTING MARKERS IN RATS FOLLOWING GASTRIC PERFORATION. Shock, 2010, 33, 170-178.	2.1	11
12	Mechanical effects of liriodenine on the left ventricular-arterial coupling in Wistar rats: pressure-stroke volume analysis. British Journal of Pharmacology, 2001, 133, 29-36.	5.4	10
13	Systolic Elastance and Resistance in the Regulation of Cardiac Pumping Function in Early Streptozotocin-Diabetic Rats. Experimental Biology and Medicine, 2002, 227, 251-259.	2.4	10
14	Pyridoxamine protects against mechanical defects in cardiac ageing in rats: studies on load dependence of myocardial relaxation. Experimental Physiology, 2014, 99, 1488-1498.	2.0	8
15	Exponentially Tapered T-tube Model in the Characterization of Arterial Non-uniformity. Journal of Theoretical Biology, 1996, 183, 35-46.	1.7	7
16	Effects of acetylâ€Lâ€carnitine and oxfenicine on aorta stiffness in diabetic rats. European Journal of Clinical Investigation, 2010, 40, 1002-1010.	3.4	7
17	Methylprednisolone Stiffens Aortas in Lipopolysaccharide-Induced Chronic Inflammation in Rats. PLoS ONE, 2013, 8, e69636.	2.5	7
18	Impaired Vascular Dynamics in Normotensive Diabetic Rats Induced by Streptozotocin: Tapered T-tube Model Analysis. Journal of Theoretical Biology, 2000, 204, 371-380.	1.7	6

#	Article	IF	Citations
19	Determining arterial wave transit time from a single aortic pressure pulse in rats: vascular impulse response analysis. Scientific Reports, 2017, 7, 40998.	3.3	5
20	Enhanced Aortic Nerve Growth Factor Expression and Nerve Sprouting in Rats Following Gastric Perforation. Journal of Surgical Research, 2011, 171, 205-211.	1.6	4
21	Defects in Vascular Mechanics Due to Aging in Rats: Studies on Arterial Wave Properties from a Single Aortic Pressure Pulse. Frontiers in Physiology, 2017, 8, 503.	2.8	4
22	Hypertensive effects of methoxamine on arterial mechanics in rats: analysis based on exponentially tapered T-tube model. European Journal of Pharmacology, 1998, 350, 195-202.	3.5	3
23	Systolic aortic pressure-time area is a useful index describing arterial wave properties in rats with diabetes. Scientific Reports, 2015, 5, 17293.	3.3	3
24	Reply to Professor Burattini's comments on â€œExponentially tapered t-tube model of systemic arterial system in dogsâ€• Medical Engineering and Physics, 1996, 18, 336-338.	1.7	2
25	Acute effects of methoxamine on left ventricular-arterial coupling in streptozotocin-diabetic rats: a pressure-volume analysis. Canadian Journal of Physiology and Pharmacology, 2000, 78, 415-422.	1.4	2
26	Hypotensive effects of captopril on physical properties of the arterial system in young and adult rats. Biogerontology, 2001, 2, 45-54.	3.9	2
27	Acetyl-l-Carnitine and Oxfenicine on Cardiac Pumping Mechanics in Streptozotocin-Induced Diabetes in Male Wistar Rats. PLoS ONE, 2013, 8, e69977.	2.5	2
28	Quantification of contractile mechanics in the rat heart from ventricular pressure alone. Oncotarget, 2017, 8, 96161-96170.	1.8	2
29	Research update for articles published in EJCI in 2008. European Journal of Clinical Investigation, 2010, 40, 770-789.	3.4	1
30	Research update for articles published in EJCI in 2010. European Journal of Clinical Investigation, 2012, 42, 1149-1164.	3.4	1
31	Methylprednisolone Protects Cardiac Pumping Mechanics from Deteriorating in Lipopolysaccharide-Treated Rats. Frontiers in Physiology, 2015, 6, 348.	2.8	1
32	Quantification of cardiac pumping mechanics in rats by using the elastanceâ€“resistance model based solely on the measured left ventricular pressure and cardiac output. Pflugers Archiv European Journal of Physiology, 2019, 471, 935-947.	2.8	1