

Kuo-Chu Chang

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

312
citations

840119

11
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887659

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32
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docs citations

32
times ranked

373
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Acute effects of nitric oxide blockade with L-NAME on arterial haemodynamics in the rat. <i>British Journal of Pharmacology</i> , 1997, 122, 1237-1243. | 2.7 | 57 |
| 2 | Aminoguanidine prevents arterial stiffening and cardiac hypertrophy in streptozotocin-induced diabetes in rats. <i>British Journal of Pharmacology</i> , 2006, 147, 944-950. | 2.7 | 31 |
| 3 | Prevention of arterial stiffening by pyridoxamine in diabetes is associated with inhibition of the pathogenic glycation on aortic collagen. <i>British Journal of Pharmacology</i> , 2009, 157, 1419-1426. | 2.7 | 30 |
| 4 | Pyridoxamine prevents age-related aortic stiffening and vascular resistance in association with reduced collagen glycation. <i>Experimental Gerontology</i> , 2011, 46, 482-488. | 1.2 | 16 |
| 5 | Single-beat Estimation of the Ventricular Pumping Mechanics in Terms of the Systolic Elastance and Resistance. <i>Journal of Theoretical Biology</i> , 1997, 189, 89-95. | 0.8 | 15 |
| 6 | Effects of Diabetes and Gender on Mechanical Properties of the Arterial System in Rats: Aortic Impedance Analysis. <i>Experimental Biology and Medicine</i> , 2003, 228, 70-78. | 1.1 | 15 |
| 7 | Prevention of Arterial Stiffening by Using Low-Dose Atorvastatin in Diabetes Is Associated with Decreased Malondialdehyde. <i>PLoS ONE</i> , 2014, 9, e90471. | 1.1 | 13 |
| 8 | Aminoguanidine prevents age-related aortic stiffening in Fisher 344 rats: aortic impedance analysis. <i>British Journal of Pharmacology</i> , 2003, 140, 107-114. | 2.7 | 12 |
| 9 | Aminoguanidine prevents age-related deterioration in left ventricular-arterial coupling in Fisher 344 rats. <i>British Journal of Pharmacology</i> , 2004, 142, 1099-1104. | 2.7 | 12 |
| 10 | Early return of augmented wave reflection impairs left ventricular relaxation in aged Fisher 344 rats. <i>Experimental Gerontology</i> , 2012, 47, 680-686. | 1.2 | 12 |
| 11 | ENHANCED EXPRESSION OF CARDIAC NERVE GROWTH FACTOR AND NERVE SPROUTING MARKERS IN RATS FOLLOWING GASTRIC PERFORATION. <i>Shock</i> , 2010, 33, 170-178. | 1.0 | 11 |
| 12 | Mechanical effects of liriodenine on the left ventricular-arterial coupling in Wistar rats: pressure-stroke volume analysis. <i>British Journal of Pharmacology</i> , 2001, 133, 29-36. | 2.7 | 10 |
| 13 | Systolic Elastance and Resistance in the Regulation of Cardiac Pumping Function in Early Streptozotocin-Diabetic Rats. <i>Experimental Biology and Medicine</i> , 2002, 227, 251-259. | 1.1 | 10 |
| 14 | Pyridoxamine protects against mechanical defects in cardiac ageing in rats: studies on load dependence of myocardial relaxation. <i>Experimental Physiology</i> , 2014, 99, 1488-1498. | 0.9 | 8 |
| 15 | Exponentially Tapered T-tube Model in the Characterization of Arterial Non-uniformity. <i>Journal of Theoretical Biology</i> , 1996, 183, 35-46. | 0.8 | 7 |
| 16 | Effects of acetyl-L-carnitine and oxfenicine on aorta stiffness in diabetic rats. <i>European Journal of Clinical Investigation</i> , 2010, 40, 1002-1010. | 1.7 | 7 |
| 17 | Methylprednisolone Stiffens Aortas in Lipopolysaccharide-Induced Chronic Inflammation in Rats. <i>PLoS ONE</i> , 2013, 8, e69636. | 1.1 | 7 |
| 18 | Impaired Vascular Dynamics in Normotensive Diabetic Rats Induced by Streptozotocin: Tapered T-tube Model Analysis. <i>Journal of Theoretical Biology</i> , 2000, 204, 371-380. | 0.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Determining arterial wave transit time from a single aortic pressure pulse in rats: vascular impulse response analysis. <i>Scientific Reports</i> , 2017, 7, 40998. | 1.6 | 5 |
| 20 | Enhanced Aortic Nerve Growth Factor Expression and Nerve Sprouting in Rats Following Gastric Perforation. <i>Journal of Surgical Research</i> , 2011, 171, 205-211. | 0.8 | 4 |
| 21 | Defects in Vascular Mechanics Due to Aging in Rats: Studies on Arterial Wave Properties from a Single Aortic Pressure Pulse. <i>Frontiers in Physiology</i> , 2017, 8, 503. | 1.3 | 4 |
| 22 | Hypertensive effects of methoxamine on arterial mechanics in rats: analysis based on exponentially tapered T-tube model. <i>European Journal of Pharmacology</i> , 1998, 350, 195-202. | 1.7 | 3 |
| 23 | Systolic aortic pressure-time area is a useful index describing arterial wave properties in rats with diabetes. <i>Scientific Reports</i> , 2015, 5, 17293. | 1.6 | 3 |
| 24 | Reply to Professor Burattini's comments on "Exponentially tapered t-tube model of systemic arterial system in dogs". <i>Medical Engineering and Physics</i> , 1996, 18, 336-338. | 0.8 | 2 |
| 25 | Acute effects of methoxamine on left ventricular-arterial coupling in streptozotocin-diabetic rats: a pressure-volume analysis. <i>Canadian Journal of Physiology and Pharmacology</i> , 2000, 78, 415-422. | 0.7 | 2 |
| 26 | Hypotensive effects of captopril on physical properties of the arterial system in young and adult rats. <i>Biogerontology</i> , 2001, 2, 45-54. | 2.0 | 2 |
| 27 | Acetyl-L-Carnitine and Oxfenicine on Cardiac Pumping Mechanics in Streptozotocin-Induced Diabetes in Male Wistar Rats. <i>PLoS ONE</i> , 2013, 8, e69977. | 1.1 | 2 |
| 28 | Quantification of contractile mechanics in the rat heart from ventricular pressure alone. <i>Oncotarget</i> , 2017, 8, 96161-96170. | 0.8 | 2 |
| 29 | Research update for articles published in EJCI in 2008. <i>European Journal of Clinical Investigation</i> , 2010, 40, 770-789. | 1.7 | 1 |
| 30 | Research update for articles published in EJCI in 2010. <i>European Journal of Clinical Investigation</i> , 2012, 42, 1149-1164. | 1.7 | 1 |
| 31 | Methylprednisolone Protects Cardiac Pumping Mechanics from Deteriorating in Lipopolysaccharide-Treated Rats. <i>Frontiers in Physiology</i> , 2015, 6, 348. | 1.3 | 1 |
| 32 | Quantification of cardiac pumping mechanics in rats by using the elastance-resistance model based solely on the measured left ventricular pressure and cardiac output. <i>Pflugers Archiv European Journal of Physiology</i> , 2019, 471, 935-947. | 1.3 | 1 |