Zhe Sun

List of Publications by Year
in descending order

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44 papers	1,867 citations	361413 20 h-index	315739 38 g-index
45 all docs	45 docs citations	45 times ranked	2239 citing authors

#	Article	IF	Citations
1	Smooth muscle mineralocorticoid receptor as an epigenetic regulator of vascular ageing. Cardiovascular Research, 2023, 118, 3386-3400.	3.8	10
2	Endothelial sodium channel activation mediates DOCA-salt-induced endothelial cell and arterial stiffening. Metabolism: Clinical and Experimental, 2022, 130, 155165.	3.4	7
3	Mechanisms underlying vascular stiffening in obesity, insulin resistance, and type 2 diabetes. , 2021, , 63-88.		0
4	Insulin resistance, cardiovascular stiffening and cardiovascular disease. Metabolism: Clinical and Experimental, 2021, 119, 154766.	3.4	231
5	Measurement of Pulse Propagation Velocity, Distensibility and Strain in an Abdominal Aortic Aneurysm Mouse Model. Journal of Visualized Experiments, 2020, , .	0.3	6
6	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. Metabolism: Clinical and Experimental, 2020, 109, 154223.	3.4	13
7	A Calcium Mediated Mechanism Coordinating Vascular Smooth Muscle Cell Adhesion During KCl Activation. Frontiers in Physiology, 2018, 9, 1810.	2.8	17
8	Analysis of the expression of NLRP3 and AIM2 in periapical lesions with apical periodontitis and microbial analysis outside the apical segment of teeth. Archives of Oral Biology, 2017, 78, 39-47.	1.8	47
9	Nâ€Cadherin, a novel and rapidly remodelling site involved in vasoregulation of small cerebral arteries. Journal of Physiology, 2017, 595, 1987-2000.	2.9	10
10	Fascin2 regulates cisplatin-induced apoptosis in NRK-52E cells. Toxicology Letters, 2017, 266, 56-64.	0.8	4
11	Uric acid promotes vascular stiffness, maladaptive inflammatory responses and proteinuria in western diet fed mice. Metabolism: Clinical and Experimental, 2017, 74, 32-40.	3.4	49
12	Comparison of Effects of Different Statins on Contrast-Induced Acute Kidney Injury in Rats: Histopathological and Biochemical Findings. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-10.	4.0	23
13	Extracellular Matrix Disarray as a Mechanism for Greater Abdominal Versus Thoracic Aortic Stiffness With Aging in Primates. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 700-706.	2.4	45
14	Circulating MicroRNAâ€188, â€30a, and â€30e as Early Biomarkers for Contrastâ€Induced Acute Kidney Injury. Journal of the American Heart Association, 2016, 5, .	3.7	53
15	Mechanical activation of angiotensin II type 1 receptors causes actin remodelling and myogenic responsiveness in skeletal muscle arterioles. Journal of Physiology, 2016, 594, 7027-7047.	2.9	49
16	Xuezhikang ameliorates contrast media-induced nephropathy in rats via suppression of oxidative stress, inflammatory responses and apoptosis. Renal Failure, 2016, 38, 1717-1725.	2.1	12
17	Orphan Nuclear Receptor Nur77 Inhibits Angiotensin IIâ€“Induced Vascular Remodeling via Downregulation of Î²-Catenin. Hypertension, 2016, 67, 153-162.	2.7	51
18	The orphan nuclear receptor Nur77 inhibits low shear stress-induced carotid artery remodeling in mice. International Journal of Molecular Medicine, 2015, 36, 1547-1555.	4.0	16

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19	Transcriptome analysis of Enterococcus faecalis in response to alkaline stress. Frontiers in Microbiology, 2015, 6, 795.	3.5	48
20	Vascular Smooth Muscle Cell Stiffness and Adhesion to Collagen I Modified by Vasoactive Agonists. PLoS ONE, 2015, 10, e0119533.	2.5	39
21	Augmented Vascular Smooth Muscle Cell Stiffness and Adhesion When Hypertension Is Superimposed on Aging. Hypertension, 2015, 65, 370-377.	2.7	109
22	MiR-145 suppressed human retinoblastoma cell proliferation and invasion by targeting ADAM19. International Journal of Clinical and Experimental Pathology, 2015, 8, 14521-7.	0.5	19
23	Abstract 246: Thoracic versus Abdominal Aortic Stiffness in Young and Old Non-Human Primates. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, .	2.4	0
24	Lysophosphatidic acid induces integrin activation in vascular smooth muscle and alters arteriolar myogenic vasoconstriction. Frontiers in Physiology, 2014, 5, 413.	2.8	18
25	Nâ€cadherin, A Vascular Smooth Muscle Cellâ€“Cell Adhesion Molecule: Function and Signaling for Vasomotor Control. Microcirculation, 2014, 21, 208-218.	1.8	33
26	Vasoactive agonists exert dynamic and coordinated effects on vascular smooth muscle cell elasticity, cytoskeletal remodelling and adhesion. Journal of Physiology, 2014, 592, 1249-1266.	2.9	50
27	PDMS elastic micropost arrays for studying vascular smooth muscle cells. Sensors and Actuators B: Chemical, 2013, 188, 1055-1063.	7.8	24
28	Increased vascular smooth muscle cell stiffness: a novel mechanism for aortic stiffness in hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1281-H1287.	3.2	142
29	Influence of membrane cholesterol and substrate elasticity on endothelial cell spreading behavior. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1994-2004.	4.0	8
30	Amyloid-Î² Peptide on Sialyl-LewisX-Selectin-Mediated Membrane Tether Mechanics at the Cerebral Endothelial Cell Surface. PLoS ONE, 2013, 8, e60972.	2.5	10
31	Isolated Vascular Smooth Muscle Stiffness as a Common Mechanism to the Increased Aortic Stiffness of Aging and Hypertension. FASEB Journal, 2013, 27, lb687.	0.5	0
32	Calcium and its role in vascular smooth muscle cell cortical elasticity and adhesion. FASEB Journal, 2013, 27, lb700.	0.5	0
33	Coordination of fibronectin adhesion with contraction and relaxation in microvascular smooth muscle. Cardiovascular Research, 2012, 96, 73-80.	3.8	60
34	Mechanotransduction through fibronectin-integrin focal adhesion in microvascular smooth muscle cells: is calcium essential?. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1965-H1973.	3.2	22
35	Temporal analysis of vascular smooth muscle cell elasticity and adhesion reveals oscillation waveforms that differ with aging. Aging Cell, 2012, 11, 741-750.	6.7	74
36	Zyxin is involved in regulation of mechanotransduction in arteriole smooth muscle cells. Frontiers in Physiology, 2012, 3, 472.	2.8	19

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37	Peritoneal Mechanobiology and Metastatic Success in Epithelial Ovarian Cancer. FASEB Journal, 2012, 26, 656.11.	0.5	0
38	Atomic Force Microscope-Enabled Studies of Integrinâ€“Extracellular Matrix Interactions in Vascular Smooth Muscle and Endothelial Cells. Methods in Molecular Biology, 2011, 736, 411-424.	0.9	3
39	Modulation of Microvascular Smooth Muscle Adhesion and Mechanotransduction by Integrin-Linked Kinase. Microcirculation, 2010, 17, 113-127.	1.8	10
40	N-Cadherin and Integrin Blockade Inhibit Arteriolar Myogenic Reactivity but not Pressure-Induced Increases in Intracellular Ca2+. Frontiers in Physiology, 2010, 1, 165.	2.8	20
41	Short Communication: Vascular Smooth Muscle Cell Stiffness As a Mechanism for Increased Aortic Stiffness With Aging. Circulation Research, 2010, 107, 615-619.	4.5	275
42	Extracellular matrix-specific focal adhesions in vascular smooth muscle produce mechanically active adhesion sites. American Journal of Physiology - Cell Physiology, 2008, 295, C268-C278.	4.6	107
43	Mechanical properties of the interaction between fibronectin and Î±5Î²1-integrin on vascular smooth muscle cells studied using atomic force microscopy. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H2526-H2535.	3.2	132
44	Modification of Fibronectin by Non-Enzymatic Glycation Impairs K+ Channel Function in Rat Cerebral Artery Smooth Muscle Cells. Frontiers in Physiology, 0, 13, .	2.8	2