

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	Short Communication: Vascular Smooth Muscle Cell Stiffness As a Mechanism for Increased Aortic Stiffness With Aging. <i>Circulation Research</i> , 2010, 107, 615-619.	4.5	275
2	Insulin resistance, cardiovascular stiffening and cardiovascular disease. <i>Metabolism: Clinical and Experimental</i> , 2021, 119, 154766.	3.4	231
3	Increased vascular smooth muscle cell stiffness: a novel mechanism for aortic stiffness in hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1281-H1287.	3.2	142
4	Mechanical properties of the interaction between fibronectin and $\alpha 5 \beta 1$ -integrin on vascular smooth muscle cells studied using atomic force microscopy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H2526-H2535.	3.2	132
5	Augmented Vascular Smooth Muscle Cell Stiffness and Adhesion When Hypertension Is Superimposed on Aging. <i>Hypertension</i> , 2015, 65, 370-377.	2.7	109
6	Extracellular matrix-specific focal adhesions in vascular smooth muscle produce mechanically active adhesion sites. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C268-C278.	4.6	107
7	Temporal analysis of vascular smooth muscle cell elasticity and adhesion reveals oscillation waveforms that differ with aging. <i>Aging Cell</i> , 2012, 11, 741-750.	6.7	74
8	Coordination of fibronectin adhesion with contraction and relaxation in microvascular smooth muscle. <i>Cardiovascular Research</i> , 2012, 96, 73-80.	3.8	60
9	Circulating MicroRNA-188, -30a, and -30e as Early Biomarkers for Contrast-Induced Acute Kidney Injury. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	53
10	Orphan Nuclear Receptor Nur77 Inhibits Angiotensin II-Induced Vascular Remodeling via Downregulation of β -Catenin. <i>Hypertension</i> , 2016, 67, 153-162.	2.7	51
11	Vasoactive agonists exert dynamic and coordinated effects on vascular smooth muscle cell elasticity, cytoskeletal remodelling and adhesion. <i>Journal of Physiology</i> , 2014, 592, 1249-1266.	2.9	50
12	Mechanical activation of angiotensin II type 1 receptors causes actin remodelling and myogenic responsiveness in skeletal muscle arterioles. <i>Journal of Physiology</i> , 2016, 594, 7027-7047.	2.9	49
13	Uric acid promotes vascular stiffness, maladaptive inflammatory responses and proteinuria in western diet fed mice. <i>Metabolism: Clinical and Experimental</i> , 2017, 74, 32-40.	3.4	49
14	Transcriptome analysis of <i>Enterococcus faecalis</i> in response to alkaline stress. <i>Frontiers in Microbiology</i> , 2015, 6, 795.	3.5	48
15	Analysis of the expression of NLRP3 and AIM2 in periapical lesions with apical periodontitis and microbial analysis outside the apical segment of teeth. <i>Archives of Oral Biology</i> , 2017, 78, 39-47.	1.8	47
16	Extracellular Matrix Disarray as a Mechanism for Greater Abdominal Versus Thoracic Aortic Stiffness With Aging in Primates. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 700-706.	2.4	45
17	Vascular Smooth Muscle Cell Stiffness and Adhesion to Collagen I Modified by Vasoactive Agonists. <i>PLoS ONE</i> , 2015, 10, e0119533.	2.5	39
18	N-cadherin, A Vascular Smooth Muscle Cell-Cell Adhesion Molecule: Function and Signaling for Vasomotor Control. <i>Microcirculation</i> , 2014, 21, 208-218.	1.8	33

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19	PDMS elastic micropost arrays for studying vascular smooth muscle cells. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1055-1063.	7.8	24
20	Comparison of Effects of Different Statins on Contrast-Induced Acute Kidney Injury in Rats: Histopathological and Biochemical Findings. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-10.	4.0	23
21	Mechanotransduction through fibronectin-integrin focal adhesion in microvascular smooth muscle cells: is calcium essential?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1965-H1973.	3.2	22
22	N-Cadherin and Integrin Blockade Inhibit Arteriolar Myogenic Reactivity but not Pressure-Induced Increases in Intracellular Ca ²⁺ . <i>Frontiers in Physiology</i> , 2010, 1, 165.	2.8	20
23	Zyxin is involved in regulation of mechanotransduction in arteriole smooth muscle cells. <i>Frontiers in Physiology</i> , 2012, 3, 472.	2.8	19
24	MiR-145 suppressed human retinoblastoma cell proliferation and invasion by targeting ADAM19. <i>International Journal of Clinical and Experimental Pathology</i> , 2015, 8, 14521-7.	0.5	19
25	Lysophosphatidic acid induces integrin activation in vascular smooth muscle and alters arteriolar myogenic vasoconstriction. <i>Frontiers in Physiology</i> , 2014, 5, 413.	2.8	18
26	A Calcium Mediated Mechanism Coordinating Vascular Smooth Muscle Cell Adhesion During KCl Activation. <i>Frontiers in Physiology</i> , 2018, 9, 1810.	2.8	17
27	The orphan nuclear receptor Nur77 inhibits low shear stress-induced carotid artery remodeling in mice. <i>International Journal of Molecular Medicine</i> , 2015, 36, 1547-1555.	4.0	16
28	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. <i>Metabolism: Clinical and Experimental</i> , 2020, 109, 154223.	3.4	13
29	Xuezhikang ameliorates contrast media-induced nephropathy in rats via suppression of oxidative stress, inflammatory responses and apoptosis. <i>Renal Failure</i> , 2016, 38, 1717-1725.	2.1	12
30	Modulation of Microvascular Smooth Muscle Adhesion and Mechanotransduction by Integrin-Linked Kinase. <i>Microcirculation</i> , 2010, 17, 113-127.	1.8	10
31	N-cadherin, a novel and rapidly remodelling site involved in vasoregulation of small cerebral arteries. <i>Journal of Physiology</i> , 2017, 595, 1987-2000.	2.9	10
32	Amyloid- β Peptide on Sialyl-LewisX-Selectin-Mediated Membrane Tether Mechanics at the Cerebral Endothelial Cell Surface. <i>PLoS ONE</i> , 2013, 8, e60972.	2.5	10
33	Smooth muscle mineralocorticoid receptor as an epigenetic regulator of vascular ageing. <i>Cardiovascular Research</i> , 2023, 118, 3386-3400.	3.8	10
34	Influence of membrane cholesterol and substrate elasticity on endothelial cell spreading behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1994-2004.	4.0	8
35	Endothelial sodium channel activation mediates DOCA-salt-induced endothelial cell and arterial stiffening. <i>Metabolism: Clinical and Experimental</i> , 2022, 130, 155165.	3.4	7
36	Measurement of Pulse Propagation Velocity, Distensibility and Strain in an Abdominal Aortic Aneurysm Mouse Model. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	6

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37	Fascin2 regulates cisplatin-induced apoptosis in NRK-52E cells. <i>Toxicology Letters</i> , 2017, 266, 56-64.	0.8	4
38	Atomic Force Microscope-Enabled Studies of Integrin-Extracellular Matrix Interactions in Vascular Smooth Muscle and Endothelial Cells. <i>Methods in Molecular Biology</i> , 2011, 736, 411-424.	0.9	3
39	Modification of Fibronectin by Non-Enzymatic Glycation Impairs K ⁺ Channel Function in Rat Cerebral Artery Smooth Muscle Cells. <i>Frontiers in Physiology</i> , 0, 13, .	2.8	2
40	Mechanisms underlying vascular stiffening in obesity, insulin resistance, and type 2 diabetes. , 2021, , 63-88.		0
41	Peritoneal Mechanobiology and Metastatic Success in Epithelial Ovarian Cancer. <i>FASEB Journal</i> , 2012, 26, 656.11.	0.5	0
42	Isolated Vascular Smooth Muscle Stiffness as a Common Mechanism to the Increased Aortic Stiffness of Aging and Hypertension. <i>FASEB Journal</i> , 2013, 27, lb687.	0.5	0
43	Calcium and its role in vascular smooth muscle cell cortical elasticity and adhesion. <i>FASEB Journal</i> , 2013, 27, lb700.	0.5	0
44	Abstract 246: Thoracic versus Abdominal Aortic Stiffness in Young and Old Non-Human Primates. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, .	2.4	0