

Zhijie Wang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,438
citations

430442

18
h-index

433756

31
g-index

41
all docs

41
docs citations

41
times ranked

1752
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex Hemodynamics at the Apex of an Arterial Bifurcation Induces Vascular Remodeling Resembling Cerebral Aneurysm Initiation. <i>Stroke</i> , 2007, 38, 1924-1931.	1.0	504
2	Pulmonary Vascular Wall Stiffness: An Important Contributor to the Increased Right Ventricular Afterload with Pulmonary Hypertension. <i>Pulmonary Circulation</i> , 2011, 1, 212-223.	0.8	172
3	The role of collagen in extralobar pulmonary artery stiffening in response to hypoxia-induced pulmonary hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1823-H1831.	1.5	75
4	A MODEL SYSTEM FORMAPPING VASCULARRESPONSES TO COMPLEX HEMODYNAMICS AT ARTERIAL BIFURCATIONS IN VIVO. <i>Neurosurgery</i> , 2006, 59, 1094-1101.	0.6	72
5	Direct and indirect protection of right ventricular function by estrogen in an experimental model of pulmonary arterial hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H273-H283.	1.5	68
6	Role of collagen content and cross-linking in large pulmonary arterial stiffening after chronic hypoxia. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 279-289.	1.4	57
7	Changes in Large Pulmonary Arterial Viscoelasticity in Chronic Pulmonary Hypertension. <i>PLoS ONE</i> , 2013, 8, e78569.	1.1	52
8	Progressive right ventricular functional and structural changes in a mouse model of pulmonary arterial hypertension. <i>Physiological Reports</i> , 2013, 1, e00184.	0.7	48
9	Effects of collagen deposition on passive and active mechanical properties of large pulmonary arteries in hypoxic pulmonary hypertension. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 1115-1125.	1.4	45
10	Limiting collagen turnover via collagenase-resistance attenuates right ventricular dysfunction and fibrosis in pulmonary arterial hypertension. <i>Physiological Reports</i> , 2016, 4, e12815.	0.7	34
11	Persistent vascular collagen accumulation alters hemodynamic recovery from chronic hypoxia. <i>Journal of Biomechanics</i> , 2012, 45, 799-804.	0.9	30
12	Mitochondria DNA mutations cause sex-dependent development of hypertension and alterations in cardiovascular function. <i>Journal of Biomechanics</i> , 2015, 48, 405-412.	0.9	30
13	Pulmonary vascular mechanics: important contributors to the increased right ventricular afterload of pulmonary hypertension. <i>Experimental Physiology</i> , 2013, 98, 1267-1273.	0.9	28
14	Mechanical Considerations of Electrospun Scaffolds for Myocardial Tissue and Regenerative Engineering. <i>Bioengineering</i> , 2020, 7, 122.	1.6	28
15	Analysis of cardiovascular dynamics in pulmonary hypertensive C57BL6/J mice. <i>Frontiers in Physiology</i> , 2013, 4, 355.	1.3	24
16	Validation of an arterial constitutive model accounting for collagen content and crosslinking. <i>Acta Biomaterialia</i> , 2016, 31, 276-287.	4.1	22
17	Organ-level right ventricular dysfunction with preserved Frank-Starling mechanism in a mouse model of pulmonary arterial hypertension. <i>Journal of Applied Physiology</i> , 2018, 124, 1244-1253.	1.2	21
18	Current Understanding of the Biomechanics of Ventricular Tissues in Heart Failure. <i>Bioengineering</i> , 2020, 7, 2.	1.6	21

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19	Beneficial effects of mesenchymal stem cell delivery via a novel cardiac bioscaffold on right ventricles of pulmonary arterial hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1005-H1013.	1.5	19
20	Pulmonary vascular collagen content, not cross-linking, contributes to right ventricular pulsatile afterload and overload in early pulmonary hypertension. <i>Journal of Applied Physiology</i> , 2017, 122, 253-263.	1.2	13
21	Biomechanical Properties and Mechanobiology of Cardiac ECM. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1098, 1-19.	0.8	12
22	Different Passive Viscoelastic Properties Between the Left and Right Ventricles in Healthy Adult Ovine. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	0.6	10
23	Establishment of adult right ventricle failure in ovine using a graded, animal-specific pulmonary artery constriction model. <i>Animal Models and Experimental Medicine</i> , 2020, 3, 182-192.	1.3	9
24	Multiscale Computational Analysis of Right Ventricular Mechanoenergetics. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	8
25	Correlations between the right ventricular passive elasticity and organ function in adult ovine. <i>Journal of Integrative Cardiology</i> , 2020, 6, .	0.1	6
26	The Interventricular Septum Is Biomechanically Distinct from the Ventricular Free Walls. <i>Bioengineering</i> , 2021, 8, 216.	1.6	6
27	Blood Pressure, Artery Size, and Artery Compliance Parallel Bone Size and Strength in Mice With Differing Ece1 Expression. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 61003-9.	0.6	5
28	Comparison of Approaches to Quantify Arterial Damping Capacity From Pressurization Tests on Mouse Conduit Arteries. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 54504.	0.6	5
29	Current status of myocardial restoration via the paracrine function of mesenchymal stromal cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H112-H127.	1.5	4
30	Multiscale Contrasts Between the Right and Left Ventricle Biomechanics in Healthy Adult Sheep and Translational Implications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 857638.	2.0	4
31	Changes in Conduit Pulmonary Arterial Static and Dynamic Mechanical Properties During Severe Hypoxic Pulmonary Hypertension. , 2012, , .		2
32	Extracellular Matrix in Cardiac Tissue Mechanics and Physiology: Role of Collagen Accumulation. , 0, , .		2
33	Pro-angiogenic Potential of Mesenchymal Stromal Cells Regulated by Matrix Stiffness and Anisotropy Mimicking Right Ventricles. <i>Biomacromolecules</i> , 2022, , .	2.6	2
34	Right Ventricular Dysfunction in Pulmonary Arterial Hypertension: Cellular and Hemodynamic Changes in a Mouse Model. , 2013, , .		0
35	Role of Collagen Content and Cross-Linking in Large Pulmonary Arterial Stiffening During Hypoxic Pulmonary Hypertension. , 2010, , .		0
36	A Constitutive Model of Ovine Left and Right Ventricles Biaxial Mechanical Properties. <i>FASEB Journal</i> , 2018, 32, .	0.2	0

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37	Distinct Biaxial Mechanical Properties between Right and Left Ventricles in Healthy Adult Sheep. FASEB Journal, 2018, 32, 848.6.	0.2	0
38	A Revised Pulmonary Artery Constriction Model of Right Ventricle Failure in Adult Ovine. FASEB Journal, 2019, 33, 532.14.	0.2	0
39	Role of cardiomyocytes in right ventricle viscoelasticity with pulmonary hypertension development. FASEB Journal, 2022, 36, .	0.2	0
40	Effect of Pulmonary Hypertension on Biaxial Viscoelastic Properties of the Right Ventricle at Rest and Exercise Conditions. FASEB Journal, 2022, 36, .	0.2	0