

Lian Tian

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,344
citations

361296
20
h-index

454834
30
g-index

39
all docs

39
docs citations

39
times ranked

1581
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic field of an isotropic matrix with a nanoscale elliptical inhomogeneity. <i>International Journal of Solids and Structures</i> , 2007, 44, 7988-8005.	1.3	165
2	Right Ventricular Adaptation and Failure in Pulmonary Arterial Hypertension. <i>Canadian Journal of Cardiology</i> , 2015, 31, 391-406.	0.8	140
3	MicroRNA-138 and MicroRNA-25 Down-regulate Mitochondrial Calcium Uniporter, Causing the Pulmonary Arterial Hypertension Cancer Phenotype. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 515-529.	2.5	134
4	Ischemia-induced Drp1 and Fis1-mediated mitochondrial fission and right ventricular dysfunction in pulmonary hypertension. <i>Journal of Molecular Medicine</i> , 2017, 95, 381-393.	1.7	90
5	Epigenetic Metabolic Reprogramming of Right Ventricular Fibroblasts in Pulmonary Arterial Hypertension. <i>Circulation Research</i> , 2020, 126, 1723-1745.	2.0	83
6	Novel Mutations and Decreased Expression of the Epigenetic Regulator <i>TET2</i> in Pulmonary Arterial Hypertension. <i>Circulation</i> , 2020, 141, 1986-2000.	1.6	75
7	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
8	Finite element modelling of nanoscale inhomogeneities in an elastic matrix. <i>Computational Materials Science</i> , 2007, 41, 44-53.	1.4	65
9	Increased Drp1-Mediated Mitochondrial Fission Promotes Proliferation and Collagen Production by Right Ventricular Fibroblasts in Experimental Pulmonary Arterial Hypertension. <i>Frontiers in Physiology</i> , 2018, 9, 828.	1.3	59
10	Colchicine Depolymerizes Microtubules, Increases Junctophilin-2, and Improves Right Ventricular Function in Experimental Pulmonary Arterial Hypertension. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	49
11	Mitochondria in the Pulmonary Vasculature in Health and Disease: Oxygen Sensing, Metabolism, and Dynamics. , 2020, 10, 713-765.		39
12	Macrophage NLRP3 Activation Promotes Right Ventricle Failure in Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 608-624.	2.5	37
13	A Microstructurally Driven Model for Pulmonary Artery Tissue. <i>Journal of Biomechanical Engineering</i> , 2011, 133, 051002.	0.6	32
14	Oxygen sensing, mitochondrial biology and experimental therapeutics for pulmonary hypertension and cancer. <i>Free Radical Biology and Medicine</i> , 2021, 170, 150-178.	1.3	32
15	In Vivo and in Vitro Measurements of Pulmonary Arterial Stiffness: A Brief Review. <i>Pulmonary Circulation</i> , 2012, 2, 505-517.	0.8	31
16	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
17	Pulmonary artery relative area change is inversely related to ex vivo measured arterial elastic modulus in the canine model of acute pulmonary embolization. <i>Journal of Biomechanics</i> , 2014, 47, 2904-2910.	0.9	26
18	PINK1-induced phosphorylation of mitofusin 2 at serine 442 causes its proteasomal degradation and promotes cell proliferation in lung cancer and pulmonary arterial hypertension. <i>FASEB Journal</i> , 2021, 35, e21771.	0.2	25

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19	17 β -Estradiol Attenuates Conduit Pulmonary Artery Mechanical Property Changes With Pulmonary Arterial Hypertension. <i>Hypertension</i> , 2015, 66, 1082-1088.	1.3	22
20	Validation of an arterial constitutive model accounting for collagen content and crosslinking. <i>Acta Biomaterialia</i> , 2016, 31, 276-287.	4.1	22
21	Biventricular Increases in Mitochondrial Fission Mediator (MiD51) and Proglycolytic Pyruvate Kinase (PKM2) Isoform in Experimental Group 2 Pulmonary Hypertension—Novel Mitochondrial Abnormalities. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 195.	1.1	22
22	Impact of Residual Stretch and Remodeling on Collagen Engagement in Healthy and Pulmonary Hypertensive Calf Pulmonary Arteries at Physiological Pressures. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1419-1433.	1.3	20
23	Excess Protein O-GlcNAcylation Links Metabolic Derangements to Right Ventricular Dysfunction in Pulmonary Arterial Hypertension. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7278.	1.8	17
24	Linked opening angle and histological and mechanical aspects of the proximal pulmonary arteries of healthy and pulmonary hypertensive rats and calves. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1810-H1818.	1.5	14
25	Stretch calculated from grip distance accurately approximates mid-specimen stretch in large elastic arteries in uniaxial tensile tests. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 47, 107-113.	1.5	12
26	Supraaortic coronary aortic banding improves right ventricular function in experimental pulmonary arterial hypertension in rats by increasing systolic right coronary artery perfusion. <i>Acta Physiologica</i> , 2020, 229, e13483.	1.8	12
27	Gone fission: an asymptomatic <i>STAT2</i> mutation elongates mitochondria and causes human disease following viral infection. <i>Brain</i> , 2015, 138, 2802-2806.	3.7	7
28	Measurement uncertainty in pulmonary vascular input impedance and characteristic impedance estimated from pulsed-wave Doppler ultrasound and pressure: clinical studies on 57 pediatric patients. <i>Physiological Measurement</i> , 2010, 31, 729-748.	1.2	6
29	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
30	Inhibiting pyruvate kinase muscle isoform 2 regresses group 2 pulmonary hypertension induced by supraaortic coronary aortic banding. <i>Acta Physiologica</i> , 2022, 234, e13764.	1.8	3
31	Conduit Arteries In The Rat And Calf Express Different Material Property Changes In Response To Hypoxia-Induced Pulmonary Hypertension. , 2010, , .		1
32	Abstract 12932: An Epigenetic Upregulation of Dynamin 2, a Regulator of Mitochondrial Fission, Promotes Human and Experimental Pulmonary Arterial Hypertension. <i>Circulation</i> , 2021, 144, .	1.6	1
33	Employing Biaxial Test Data Of pulmonary Arterial Tissues For Pressure-diameter Models. , 2010, , .		0
34	Quantitative Measures Of Collagen And Elastin Microstructure In Health And Pulmonary Hypertension. , 2011, , .		0
35	Artery Opening Angle Links Histological And Mechanical Aspects Of The Proximal Pulmonary Arteries Of Healthy And Pulmonary Hypertensive Rats And Calves. , 2011, , .		0
36	Collagen Accumulation Does Not Impair Cardiopulmonary Recovery From Hypoxia, As Assessed Via Admittance Derived Pressure-Volume Loops In Mice. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Quantification of Elastin Residual Stretch in Fresh Artery Tissue: Impact on Artery Material Properties and Pulmonary Hypertension Pathophysiology. , 2009, , .		0
38	Sex Differences in Right Ventricular-Vascular Coupling and Pulmonary Artery Impedance in Response to Chronic Hypoxia and Recovery. , 2012, , .		0