

Aiping Liu

List of Publications by Year in descending order

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17
papers

659
citations

567281

15
h-index

888059

17
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17
all docs

17
docs citations

17
times ranked

575
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in wall motion and blood flow in the outflow tract of chick embryonic hearts observed with optical coherence tomography after outflow tract banding and vitelline-vein ligation. <i>Physics in Medicine and Biology</i> , 2008, 53, 5077-5091.	3.0	85
2	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.	3.2	68
3	17 β -Estradiol mediates superior adaptation of right ventricular function to acute strenuous exercise in female rats with severe pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L375-L388.	2.9	61
4	Efficient postacquisition synchronization of 4-D nongated cardiac images obtained from optical coherence tomography: application to 4-D reconstruction of the chick embryonic heart. <i>Journal of Biomedical Optics</i> , 2009, 14, 1.	2.6	57
5	Measurement of absolute blood flow velocity in outflow tract of HH18 chicken embryo based on 4D reconstruction using spectral domain optical coherence tomography. <i>Biomedical Optics Express</i> , 2010, 1, 798.	2.9	56
6	Biomechanics of the Chick Embryonic Heart Outflow Tract at HH18 Using 4D Optical Coherence Tomography Imaging and Computational Modeling. <i>PLoS ONE</i> , 2012, 7, e40869.	2.5	54
7	Quantifying blood flow and wall shear stresses in the outflow tract of chick embryonic hearts. <i>Computers and Structures</i> , 2011, 89, 855-867.	4.4	39
8	Estrogen maintains mitochondrial content and function in the right ventricle of rats with pulmonary hypertension. <i>Physiological Reports</i> , 2017, 5, e13157.	1.7	39
9	Assessment of strain and strain rate in embryonic chick heart in vivo using tissue Doppler optical coherence tomography. <i>Physics in Medicine and Biology</i> , 2011, 56, 7081-7092.	3.0	35
10	Finite element modeling of blood flow-induced mechanical forces in the outflow tract of chick embryonic hearts. <i>Computers and Structures</i> , 2007, 85, 727-738.	4.4	32
11	Effect of Outflow Tract Banding on Embryonic Cardiac Hemodynamics. <i>Journal of Cardiovascular Development and Disease</i> , 2016, 3, 1.	1.6	25
12	17 β -Estradiol Attenuates Conduit Pulmonary Artery Mechanical Property Changes With Pulmonary Arterial Hypertension. <i>Hypertension</i> , 2015, 66, 1082-1088.	2.7	22
13	Measurement of Strain and Strain Rate in Embryonic Chick Heart In Vivo Using Spectral Domain Optical Coherence Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 2333-2338.	4.2	21
14	Extracting cardiac shapes and motion of the chick embryo heart outflow tract from four-dimensional optical coherence tomography images. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	20
15	Dynamic variation of hemodynamic shear stress on the walls of developing chick hearts: computational models of the heart outflow tract. <i>Engineering With Computers</i> , 2009, 25, 73-86.	6.1	18
16	Impact of increased hematocrit on right ventricular afterload in response to chronic hypoxia. <i>Journal of Applied Physiology</i> , 2014, 117, 833-839.	2.5	16
17	Estrogen Preserves Pulsatile Pulmonary Arterial Hemodynamics in Pulmonary Arterial Hypertension. <i>Annals of Biomedical Engineering</i> , 2017, 45, 632-643.	2.5	11