# Will Zhang 

List of Publications by Year in descending order

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Version: 2024-02-01

Structural and Mechanical Adaptations of Right Ventricle Free Wall Myocardium to Pressure
1.3

Fixation of Bovine Pericardium-Based Tissue Biomaterial with Irreversible Chemistry Improves
6 Biochemical and Biomechanical Properties. Journal of Cardiovascular Translational Research, 2017, 10,
1.1 194-205.

7 On the Presence of Affine Fibril and Fiber Kinematics in the Mitral Valve Anterior Leaflet. Biophysical
Journal, 2015, 108, 2074-2087.
$0.2 \quad 49$
8. On the Simulation of Mitral Valve Function in Health, Disease, and Treatment. Journal of 8 Biomechanical Engineering, 2019, 141,.
Insights Into Regional Adaptations in the Growing Pulmonary Artery Using a Meso-Scale Structural
Model: Effects of Ascending Aorta Impingement. Journal of Biomechanical Engineering, 2014, 136,

21009. | Modeling the response of exogenously crosslinked tissue to cyclic loading: The effects of permanent |
| :--- |
| set. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 336-350. |
| $12 \quad 33$ |
| $13 \quad$An efficient and accurate method for modeling nonlinear fractional viscoelastic biomaterials. <br> Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112834. |
| 2.4 |

14 On the in vivo function of the mitral heart valve leaflet: insights into tissueâ $\epsilon^{\text {"interstitial cell }}$ biomechanical coupling. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1613-1632.
1.4

25

15 A viscoelastic model for human myocardium. Acta Biomaterialia, 2021, 135, 441-457.
4.1

23

