

Xiaoyu Luo

List of Publications by Year in descending order

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Version: 2024-02-01

145
papers

3,393
citations

126907

33
h-index

175258

52
g-index

149
all docs

149
docs citations

149
times ranked

2615
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Simulation of fluid-structure interaction during the phaco-emulsification stage of cataract surgery. <i>International Journal of Mechanical Sciences</i> , 2022, 214, 106931. | 6.7 | 6 |
| 2 | Volumetric growth of soft tissues evaluated in the current configuration. <i>Biomechanics and Modeling in Mechanobiology</i> , 2022, 21, 569-588. | 2.8 | 3 |
| 3 | Effects of dispersed fibres in myocardial mechanics, Part II: active response. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 4101-4119. | 1.9 | 3 |
| 4 | Effects of dispersed fibres in myocardial mechanics, Part I: passive response. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 3972-3993. | 1.9 | 2 |
| 5 | Estimations of Critical Clear Corneal Incisions Required for Lens Insertion in Cataract Surgery: A Mathematical Aspect. <i>Frontiers in Physiology</i> , 2022, 13, 834214. | 2.8 | 2 |
| 6 | A new active contraction model for the myocardium using a modified hill model. <i>Computers in Biology and Medicine</i> , 2022, 145, 105417. | 7.0 | 4 |
| 7 | Improving Cardio-Mechanic Inference by Combining in Vivo Strain Data with Ex Vivo Volume-Pressure Data. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2022, 71, 906-931. | 1.0 | 2 |
| 8 | Constitutive Modelling of Soft Biological Tissue from Ex Vivo to in Vivo: Myocardium as an Example. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 3-14. | 0.2 | 0 |
| 9 | Apparent growth tensor of left ventricular post myocardial infarction in human first natural history study. <i>Computers in Biology and Medicine</i> , 2021, 129, 104168. | 7.0 | 7 |
| 10 | A poroelastic immersed finite element framework for modelling cardiac perfusion and fluid-structure interaction. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3446. | 2.1 | 5 |
| 11 | A ghost structure finite difference method for a fractional FitzHugh-Nagumo monodomain model on moving irregular domain. <i>Journal of Computational Physics</i> , 2021, 428, 110081. | 3.8 | 6 |
| 12 | Fluid-structure interaction in a fully coupled three-dimensional mitral-atrium-pulmonary model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1267-1295. | 2.8 | 7 |
| 13 | Modelling of fibre dispersion and its effects on cardiac mechanics from diastole to systole. <i>Journal of Engineering Mathematics</i> , 2021, 128, 1. | 1.2 | 14 |
| 14 | The Comparison of Different Constitutive Laws and Fiber Architectures for the Aortic Valve on Fluid-Structure Interaction Simulation. <i>Frontiers in Physiology</i> , 2021, 12, 682893. | 2.8 | 5 |
| 15 | Multiple Steady and Oscillatory Solutions in a Collapsible Channel Flow. <i>International Journal of Applied Mechanics</i> , 2021, 13, . | 2.2 | 1 |
| 16 | Energetics of collapsible channel flow with a nonlinear fluid-beam model. <i>Journal of Fluid Mechanics</i> , 2021, 926, . | 3.4 | 3 |
| 17 | Neural network-based left ventricle geometry prediction from CMR images with application in biomechanics. <i>Artificial Intelligence in Medicine</i> , 2021, 119, 102140. | 6.5 | 10 |
| 18 | Rationale and design of the Medical Research Council Precision medicine with Zibotentan in microvascular angina (PRIZE) trial MRI sub-study. , 2021, , . | | 0 |

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|----|---|-----|-----------|
| 19 | Rationale and design of the Medical Research Council's Precision Medicine with Zibotentan in Microvascular Angina (PRIZE) trial. <i>American Heart Journal</i> , 2020, 229, 70-80. | 2.7 | 40 |
| 20 | Theoretical and Numerical Analysis of Mechanical Behaviors of a Metamaterial-Based Shape Memory Polymer Stent. <i>Polymers</i> , 2020, 12, 1784. | 4.5 | 31 |
| 21 | Effect of myofibre architecture on ventricular pump function by using a neonatal porcine heart model: from DT-MRI to rule-based methods. <i>Royal Society Open Science</i> , 2020, 7, 191655. | 2.4 | 20 |
| 22 | Residual Stress Estimates from Multi-cut Opening Angles of the Left Ventricle. <i>Cardiovascular Engineering and Technology</i> , 2020, 11, 381-393. | 1.6 | 4 |
| 23 | Analysis of Cardiac Amyloidosis Progression Using Model-Based Markers. <i>Frontiers in Physiology</i> , 2020, 11, 324. | 2.8 | 3 |
| 24 | Modelling floppy iris syndrome and the impact of pupil size and ring devices on iris displacement. <i>Eye</i> , 2020, 34, 2227-2234. | 2.1 | 13 |
| 25 | Simulation of action potential propagation based on the ghost structure method. <i>Scientific Reports</i> , 2019, 9, 10927. | 3.3 | 3 |
| 26 | Gaussian process emulation to accelerate parameter estimation in a mechanical model of the left ventricle: a critical step towards clinical end-user relevance. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190114. | 3.4 | 22 |
| 27 | Fast Parameter Inference in a Biomechanical Model of the Left Ventricle by Using Statistical Emulation. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2019, 68, 1555-1576. | 1.0 | 16 |
| 28 | Analysis of a coupled fluid-structure interaction model of the left atrium and mitral valve. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3254. | 2.1 | 38 |
| 29 | Some Effects of Different Constitutive Laws on FSI Simulation for the Mitral Valve. <i>Scientific Reports</i> , 2019, 9, 12753. | 3.3 | 9 |
| 30 | A One-Dimensional Hemodynamic Model of the Coronary Arterial Tree. <i>Frontiers in Physiology</i> , 2019, 10, 853. | 2.8 | 22 |
| 31 | Modelling and simulation of the expansion of a shape memory polymer stent. <i>Engineering Computations</i> , 2019, 36, 2726-2746. | 1.4 | 12 |
| 32 | On the AIC-based model reduction for the general Holzapfel-Ogden myocardial constitutive law. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1213-1232. | 2.8 | 32 |
| 33 | A para-universal relation for orthotropic materials. <i>Mechanics Research Communications</i> , 2019, 97, 46-51. | 1.8 | 1 |
| 34 | An incremental deformation model of arterial dissection. <i>Journal of Mathematical Biology</i> , 2019, 78, 1277-1298. | 1.9 | 0 |
| 35 | Coupled agent-based and hyperelastic modelling of the left ventricle post-myocardial infarction. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3155. | 2.1 | 15 |
| 36 | A patient-specific lumped-parameter model of coronary circulation. <i>Scientific Reports</i> , 2018, 8, 874. | 3.3 | 54 |

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|----|---|-----|-----------|
| 55 | A Mathematical Model on the Feedback Between Wall Shear Stress and Intimal Hyperplasia. International Journal of Applied Mechanics, 2016, 08, 1640011. | 2.2 | 7 |
| 56 | An Arnoldi-Frontal Approach for the Stability Analysis of Flows in a Collapsible Channel. International Journal of Applied Mechanics, 2016, 08, 1650073. | 2.2 | 3 |
| 57 | 17â€…A case-control study with computational modelling of acute left ventricular dysfunction. Heart, 2016, 102, A12.1-A12. | 2.9 | 0 |
| 58 | 18â€…Cine-derived strain using the glasgowheart method. Heart, 2016, 102, A12.2-A13. | 2.9 | 0 |
| 59 | Pixel-tracking derived strain using the GlasgowHeart Method. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P9. | 3.3 | 0 |
| 60 | An Invariant-Based Damage Model for Human and Animal Skins. Annals of Biomedical Engineering, 2016, 44, 3109-3122. | 2.5 | 19 |
| 61 | Study of cardiovascular function using a coupled left ventricle and systemic circulation model. Journal of Biomechanics, 2016, 49, 2445-2454. | 2.1 | 43 |
| 62 | Optimum size of iridotomy in uveitis. Clinical and Experimental Ophthalmology, 2015, 43, 692-696. | 2.6 | 6 |
| 63 | Verification of cardiac mechanics software: benchmark problems and solutions for testing active and passive material behaviour. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150641. | 2.1 | 80 |
| 64 | 18â€…Propagation of arterial dissection. Heart, 2015, 101, A6.3-A6. | 2.9 | 0 |
| 65 | 17â€…Numerical study of imaged-based human mitral valve coupled with the left ventricle. Heart, 2015, 101, A6.2-A6. | 2.9 | 0 |
| 66 | Fluid-Structure Interaction Model of Human Mitral Valve within Left Ventricle. Lecture Notes in Computer Science, 2015, , 330-337. | 1.3 | 2 |
| 67 | Investigation of the optimal collagen fibre orientation in human iliac arteries. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 52, 108-119. | 3.1 | 37 |
| 68 | Parameter estimation in a Holzapfelâ€™Ogden law for healthy myocardium. Journal of Engineering Mathematics, 2015, 95, 231-248. | 1.2 | 80 |
| 69 | Modelling of tear propagation and arrest in fibre-reinforced soft tissue subject to internal pressure. Journal of Engineering Mathematics, 2015, 95, 249-265. | 1.2 | 13 |
| 70 | Image-Derived Human Left Ventricular Modelling with Fluid-Structure Interaction. Lecture Notes in Computer Science, 2015, , 321-329. | 1.3 | 1 |
| 71 | Multi-scale modelling of the human left ventricle. Scientia Sinica: Physica, Mechanica Et Astronomica, 2015, 45, 024702-024702. | 0.4 | 10 |
| 72 | A numerical study of a heart phantom model. International Journal of Computer Mathematics, 2014, 91, 1535-1551. | 1.8 | 7 |

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|----|--|------|-----------|
| 73 | A finite strain nonlinear human mitral valve model with fluid-structure interaction. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1597-1613. | 2.1 | 25 |
| 74 | Dynamic finite-strain modelling of the human left ventricle in health and disease using an immersed boundary-finite element method. IMA Journal of Applied Mathematics, 2014, 79, 978-1010. | 1.6 | 46 |
| 75 | Modelling volumetric growth in a thick walled fibre reinforced artery. Journal of the Mechanics and Physics of Solids, 2014, 73, 134-150. | 4.8 | 26 |
| 76 | A modified Holzapfel-Ogden law for a residually stressed finite strain model of the human left ventricle in diastole. Biomechanics and Modeling in Mechanobiology, 2014, 13, 99-113. | 2.8 | 62 |
| 77 | Quasi-static image-based immersed boundary-finite element model of left ventricle under diastolic loading. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1199-1222. | 2.1 | 51 |
| 78 | Left ventricular strain and its pattern estimated from cine CMR and validation with DENSE. Physics in Medicine and Biology, 2014, 59, 3637-3656. | 3.0 | 31 |
| 79 | Structure-based finite strain modelling of the human left ventricle in diastole. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 83-103. | 2.1 | 95 |
| 80 | Anisotropic behaviour of human gallbladder walls. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 20, 363-375. | 3.1 | 16 |
| 81 | Three-dimensional non-linear buckling of thick-walled elastic tubes under pressure. International Journal of Non-Linear Mechanics, 2013, 48, 1-14. | 2.6 | 28 |
| 82 | Image-based fluid-structure interaction model of the human mitral valve. Computers and Fluids, 2013, 71, 417-425. | 2.5 | 47 |
| 83 | The influence of glottal cross-section shape on theoretical flow models. Journal of the Acoustical Society of America, 2013, 134, 909-912. | 1.1 | 2 |
| 84 | BREAKING ANALYSIS OF ARTIFICIAL ELASTIC TUBES AND HUMAN ARTERY. International Journal of Applied Mechanics, 2013, 05, 1350024. | 2.2 | 5 |
| 85 | PRESSURE DRIVEN STEADY FLOW IN CONSTRICTED CHANNELS OF DIFFERENT CROSS-SECTION SHAPES. International Journal of Applied Mechanics, 2013, 05, 1350002. | 2.2 | 10 |
| 86 | Erosion of biofilm-bound fluvial sediments. Nature Geoscience, 2013, 6, 770-774. | 12.9 | 65 |
| 87 | Initial Experience with a Dynamic Imaging-Derived Immersed Boundary Model of Human Left Ventricle. Lecture Notes in Computer Science, 2013, , 11-18. | 1.3 | 2 |
| 88 | Influence of cross section shape on the outcome of a two-mass model. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 0 |
| 89 | A Quasi-Nonlinear Analysis of the Anisotropic Behaviour of Human Gallbladder Wall. Journal of Biomechanical Engineering, 2012, 134, 101009. | 1.3 | 6 |
| 90 | 22-...Semi-Automatic OEDEMA Quantification from Direct T2 Map Cardiac MRI. Heart, 2012, 98, A7.2-A7. | 2.9 | 0 |

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| 91 | Stability and energy budget of pressure-driven collapsible channel flows. <i>Journal of Fluid Mechanics</i> , 2012, 705, 348-370. | 3.4 | 20 |
| 92 | Computational analysis of the flow of bile in human cystic duct. <i>Medical Engineering and Physics</i> , 2012, 34, 1177-1183. | 1.7 | 21 |
| 93 | Effect of bending rigidity in a dynamic model of a polyurethane prosthetic mitral valve. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 815-827. | 2.8 | 15 |
| 94 | Mathematical and computer simulation modelling of intracameral forces causing pupil block due to air bubble use in Descemet's Stripping Endothelial Keratoplasty: the mechanics of iris buckling. <i>Clinical and Experimental Ophthalmology</i> , 2012, 40, 182-186. | 2.6 | 9 |
| 95 | Cross-bridge apparent rate constants of human gallbladder smooth muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2011, 32, 209-220. | 2.0 | 4 |
| 96 | A Mechanical Model for CCK-Induced Acalculous Gallbladder Pain. <i>Annals of Biomedical Engineering</i> , 2011, 39, 786-800. | 2.5 | 12 |
| 97 | CMRI based 3D left ventricle motion analysis on patients with acute myocardial infarction. , 2011, 2011, 6821-4. | | 0 |
| 98 | Age Estimation Using Multi-Label Learning. <i>Lecture Notes in Computer Science</i> , 2011, , 221-228. | 1.3 | 5 |
| 99 | Effects of LES subgrid flow structure on particle deposition in a plane channel with a ribbed wall. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 999-1015. | 2.1 | 19 |
| 100 | Experimental validation of quasi-one-dimensional and two-dimensional steady glottal flow models. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 903-910. | 2.8 | 8 |
| 101 | Effects of flow vortex on a chorded mitral valve in the left ventricle. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 381-404. | 2.1 | 17 |
| 102 | Nonlinear axisymmetric deformations of an elastic tube under external pressure. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 216-229. | 3.7 | 31 |
| 103 | Experimental Investigation of the Flow of Bile in Patient Specific Cystic Duct Models. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 041003. | 1.3 | 8 |
| 104 | SIMULATING THE FLUID DYNAMICS OF NATURAL AND PROSTHETIC HEART VALVES USING THE IMMERSED BOUNDARY METHOD. <i>International Journal of Applied Mechanics</i> , 2009, 01, 137-177. | 2.2 | 146 |
| 105 | Sensitivity of unsteady collapsible channel flows to modelling assumptions. <i>Communications in Numerical Methods in Engineering</i> , 2009, 25, 483-504. | 1.3 | 20 |
| 106 | Flow in collapsible tubes or over compliant surfaces for biomedical applications. <i>Communications in Numerical Methods in Engineering</i> , 2009, 25, 401-403. | 1.3 | 0 |
| 107 | Effect of tube spacing on the vortex shedding characteristics of laminar flow past an inline tube array: A numerical study. <i>Computers and Fluids</i> , 2009, 38, 950-964. | 2.5 | 50 |
| 108 | Stability and Pressure Boundary Conditions in the Collapsible Channel Flows. , 2009, , . | | 1 |

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|-----|---|-----|-----------|
| 109 | Non-Newtonian Bile Flow in Elastic Cystic Duct: One- and Three-Dimensional Modeling. <i>Annals of Biomedical Engineering</i> , 2008, 36, 1893-1908. | 2.5 | 26 |
| 110 | Call for Papers: Special Issue on "Flow in Collapsible Tubes or Over Compliant Surfaces for Biomedical Applications" Communications in Numerical Methods in Engineering (CNM). <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008, 32, 217-217. | 3.3 | 0 |
| 111 | Call for Papers: Special Issue on "Flow in Collapsible Tubes or Over Compliant Surfaces for Biomedical Applications" Communications in Numerical Methods in Engineering (CNM). <i>Numerical Linear Algebra With Applications</i> , 2008, 15, 391-391. | 1.6 | 0 |
| 112 | Effect of ventricle motion on the dynamic behaviour of chorded mitral valves. <i>Journal of Fluids and Structures</i> , 2008, 24, 58-74. | 3.4 | 32 |
| 113 | Asymmetric bifurcations of thick-walled circular cylindrical elastic tubes under axial loading and external pressure. <i>International Journal of Solids and Structures</i> , 2008, 45, 3410-3429. | 2.7 | 44 |
| 114 | Correlation of Mechanical Factors and Gallbladder Pain. <i>Computational and Mathematical Methods in Medicine</i> , 2008, 9, 27-45. | 1.3 | 16 |
| 115 | The cascade structure of linear instability in collapsible channel flows. <i>Journal of Fluid Mechanics</i> , 2008, 600, 45-76. | 3.4 | 45 |
| 116 | Investigation of the Flow in a Compliant Idealised Human Cystic Duct. <i>Journal of Biomechanical Science and Engineering</i> , 2008, 3, 411-418. | 0.3 | 5 |
| 117 | One-Dimensional Models of the Human Biliary System. <i>Journal of Biomechanical Engineering</i> , 2007, 129, 164-173. | 1.3 | 22 |
| 118 | On the mechanical behavior of the human biliary system. <i>World Journal of Gastroenterology</i> , 2007, 13, 1384. | 3.3 | 35 |
| 119 | On the initial configurations of collapsible channel flow. <i>Computers and Structures</i> , 2007, 85, 977-987. | 4.4 | 13 |
| 120 | Dynamic modelling of prosthetic chorded mitral valves using the immersed boundary method. <i>Journal of Biomechanics</i> , 2007, 40, 613-626. | 2.1 | 52 |
| 121 | Snoring source identification and snoring noise prediction. <i>Journal of Biomechanics</i> , 2007, 40, 861-870. | 2.1 | 52 |
| 122 | Flow in Idealised Compliant Human Cystic Duct Models. , 2007, , 610-613. | | 1 |
| 123 | IN-VITRO INVESTIGATION OF THE FUNCTIONS OF THE VALVES OF HEISTER(3D3 Biorheology & Tj ETQq1 1 0.784314 rgBT /Overlock Science and Technology in Biomechanics, 2007, 2007.3, S234. | 0.0 | 0 |
| 124 | On the dynamic behaviour of chorded mitral valves. , 2007, , 311-311. | | 0 |
| 125 | Investigation of the functional three-dimensional anatomy of the human cystic duct: A single helix?. <i>Clinical Anatomy</i> , 2006, 19, 528-534. | 2.7 | 18 |
| 126 | VISUALIZATION EXPERIMENT OF FLOW STRUCTURES INSIDE TWO-DIMENSIONAL HUMAN BILIARY SYSTEM MODELS. <i>Journal of Mechanics in Medicine and Biology</i> , 2006, 06, 249-260. | 0.7 | 6 |

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|-----|--|-----|-----------|
| 127 | Blood flow and damage by the roller pumps during cardiopulmonary bypass. Journal of Fluids and Structures, 2005, 20, 129-140. | 3.4 | 51 |
| 128 | Three-dimensional collapse and steady flow in thick-walled flexible tubes. Journal of Fluids and Structures, 2005, 20, 817-835. | 3.4 | 73 |
| 129 | Visualization of mixing of flow in circular tubes with segmental baffles. Journal of Visualization, 2005, 8, 89-89. | 1.8 | 9 |
| 130 | FLOW STRUCTURE IN CIRCULAR TUBES WITH SEGMENTAL BAFFLES. Journal of Flow Visualization and Image Processing, 2005, 12, 301-311. | 0.5 | 9 |
| 131 | LES modelling of flow in a simple airway model. Medical Engineering and Physics, 2004, 26, 403-413. | 1.7 | 75 |
| 132 | The flow of bile in the human cystic duct. Journal of Biomechanics, 2004, 37, 1913-1922. | 2.1 | 38 |
| 133 | Modelling Chorded Prosthetic Mitral Valves using the Immersed Boundary Method. , 2004, 2004, 3745-8. | | 3 |
| 134 | A fluid-beam model for flow in a collapsible channel. Journal of Fluids and Structures, 2003, 17, 125-146. | 3.4 | 29 |
| 135 | Geometrical Stress-Reducing Factors in the Anisotropic Porcine Heart Valves. Journal of Biomechanical Engineering, 2003, 125, 735-744. | 1.3 | 31 |
| 136 | Numerical Simulation of Particle Dispersion in a Spatially Developing Mixing Layer. Theoretical and Computational Fluid Dynamics, 2002, 15, 403-420. | 2.2 | 22 |
| 137 | A nonlinear anisotropic model for porcine aortic heart valves. Journal of Biomechanics, 2001, 34, 1279-1289. | 2.1 | 103 |
| 138 | Multiple solutions and flow limitation in collapsible channel flows. Journal of Fluid Mechanics, 2000, 420, 301-324. | 3.4 | 61 |
| 139 | Modelling Flow and Oscillations in Collapsible Tubes. Theoretical and Computational Fluid Dynamics, 1998, 10, 277-294. | 2.2 | 122 |
| 140 | The effects of wall inertia on flow in a two-dimensional collapsible channel. Journal of Fluid Mechanics, 1998, 363, 253-280. | 3.4 | 87 |
| 141 | A numerical simulation of unsteady flow in a two-dimensional collapsible channel. Journal of Fluid Mechanics, 1996, 314, 191-225. | 3.4 | 135 |
| 142 | A Numerical Simulation of Steady Flow in a 2-D Collapsible Channel. Journal of Fluids and Structures, 1995, 9, 149-174. | 3.4 | 89 |
| 143 | Massive Dimensionality Reduction for the Left Ventricular Mesh. , 0, , . | | 1 |
| 144 | Direct Learning Left Ventricular Meshes from CMR Images. , 0, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|----|-----------|
| 145 | Statistical Emulation of Cardiac Mechanics: An Important Step towards a Clinical Decision Support System. , 0, , . | | 0 |