

Andres Caballero

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

587
citations

759233

12
h-index

713466

21
g-index

25
all docs

25
docs citations

25
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully-coupled fluid-structure interaction simulation of the aortic and mitral valves in a realistic 3D left ventricle model. PLoS ONE, 2017, 12, e0184729.	2.5	89
2	Evaluation of transcatheter heart valve biomaterials: Biomechanical characterization of bovine and porcine pericardium. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 486-494.	3.1	81
3	A Review on Computational Fluid Dynamics Modelling in Human Thoracic Aorta. Cardiovascular Engineering and Technology, 2013, 4, 103-130.	1.6	73
4	Numerical simulation of non-Newtonian blood flow dynamics in human thoracic aorta. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1200-1216.	1.6	60
5	Modeling Left Ventricular Blood Flow Using Smoothed Particle Hydrodynamics. Cardiovascular Engineering and Technology, 2017, 8, 465-479.	1.6	46
6	New insights into mitral heart valve prolapse after chordae rupture through fluid-structure interaction computational modeling. Scientific Reports, 2018, 8, 17306.	3.3	28
7	The impact of balloon-expandable transcatheter aortic valve replacement on concomitant mitral regurgitation: a comprehensive computational analysis. Journal of the Royal Society Interface, 2019, 16, 20190355.	3.4	27
8	The role of stress concentration in calcified bicuspid aortic valve. Journal of the Royal Society Interface, 2020, 17, 20190893.	3.4	27
9	Transapical mitral valve repair with neochordae implantation: FSI analysis of neochordae number and complexity of leaflet prolapse. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3297.	2.1	24
10	A Comprehensive Engineering Analysis of Left Heart Dynamics After MitraClip in a Functional Mitral Regurgitation Patient. Frontiers in Physiology, 2020, 11, 432.	2.8	24
11	Finite element analysis of MitraClip procedure on a patient-specific model with functional mitral regurgitation. Journal of Biomechanics, 2020, 104, 109730.	2.1	24
12	Evaluation of transcatheter heart valve biomaterials: Computational modeling using bovine and porcine pericardium. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 97, 159-170.	3.1	15
13	Comparative quantification of primary mitral regurgitation by computer modeling and simulated echocardiography. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H547-H557.	3.2	11
14	The Impact of Self-Expandable Transcatheter Aortic Valve Replacement on Concomitant Functional Mitral Regurgitation: A Comprehensive Engineering Analysis. Structural Heart, 2020, 4, 179-191.	0.6	11
15	Computational Analysis of Virtual Echocardiographic Assessment of Functional Mitral Regurgitation for Validation of Proximal Isovelocity Surface Area Methods. Journal of the American Society of Echocardiography, 2021, 34, 1211-1223.	2.8	11
16	Quantification of mitral regurgitation after transcatheter edge-to-edge repair: Comparison of echocardiography and patient-specific in silico models. Computers in Biology and Medicine, 2022, 148, 105855.	7.0	6
17	Simulation of unsteady blood flow dynamics in the thoracic aorta. Ingenieria E Investigacion, 2017, 37, 92-101.	0.4	5
18	Efficient Aortic Valve Multilabel Segmentation Using a Spatial Transformer Network. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	Comparative computational analysis of PASCAL and MitraClip implantation in a patient-specific functional mitral regurgitation model. Computers in Biology and Medicine, 2021, 136, 104767.	7.0	5
20	Computer simulations of transapical mitral valve repair with neochordae implantation: Clinical implications. JTCVS Open, 2020, 3, 27-44.	0.5	4
21	An accelerometer-based embedded system-on-chip for measuring human-body joint angles. , 2013, , .		3
22	Weakly Supervised Deep Learning for Aortic Valve Finite Element Mesh Generation from 3D CT Images. Lecture Notes in Computer Science, 2021, , 637-648.	1.3	3