

Andres Caballero

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1744605/publications.pdf>

Version: 2024-02-01

22
papers

587
citations

758635

12
h-index

713013

21
g-index

25
all docs

25
docs citations

25
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of mitral regurgitation after transcatheter edge-to-edge repair: Comparison of echocardiography and patient-specific in silico models. <i>Computers in Biology and Medicine</i> , 2022, 148, 105855.	3.9	6
2	Computational Analysis of Virtual Echocardiographic Assessment of Functional Mitral Regurgitation for Validation of Proximal Isovelocity Surface Area Methods. <i>Journal of the American Society of Echocardiography</i> , 2021, 34, 1211-1223.	1.2	11
3	Comparative computational analysis of PASCAL and MitraClip implantation in a patient-specific functional mitral regurgitation model. <i>Computers in Biology and Medicine</i> , 2021, 136, 104767.	3.9	5
4	Weakly Supervised Deep Learning for Aortic Valve Finite Element Mesh Generation from 3D CT Images. <i>Lecture Notes in Computer Science</i> , 2021, , 637-648.	1.0	3
5	Comparative quantification of primary mitral regurgitation by computer modeling and simulated echocardiography. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H547-H557.	1.5	11
6	Transapical mitral valve repair with neochordae implantation: FSI analysis of neochordae number and complexity of leaflet prolapse. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3297.	1.0	24
7	Computer simulations of transapical mitral valve repair with neochordae implantation: Clinical implications. <i>JTCVS Open</i> , 2020, 3, 27-44.	0.2	4
8	A Comprehensive Engineering Analysis of Left Heart Dynamics After MitraClip in a Functional Mitral Regurgitation Patient. <i>Frontiers in Physiology</i> , 2020, 11, 432.	1.3	24
9	Efficient Aortic Valve Multilabel Segmentation Using a Spatial Transformer Network. , 2020, , .		5
10	The Impact of Self-Expandable Transcatheter Aortic Valve Replacement on Concomitant Functional Mitral Regurgitation: A Comprehensive Engineering Analysis. <i>Structural Heart</i> , 2020, 4, 179-191.	0.2	11
11	Finite element analysis of MitraClip procedure on a patient-specific model with functional mitral regurgitation. <i>Journal of Biomechanics</i> , 2020, 104, 109730.	0.9	24
12	The role of stress concentration in calcified bicuspid aortic valve. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190893.	1.5	27
13	The impact of balloon-expandable transcatheter aortic valve replacement on concomitant mitral regurgitation: a comprehensive computational analysis. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190355.	1.5	27
14	Evaluation of transcatheter heart valve biomaterials: Computational modeling using bovine and porcine pericardium. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 97, 159-170.	1.5	15
15	New insights into mitral heart valve prolapse after chordae rupture through fluid-structure interaction computational modeling. <i>Scientific Reports</i> , 2018, 8, 17306.	1.6	28
16	Modeling Left Ventricular Blood Flow Using Smoothed Particle Hydrodynamics. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 465-479.	0.7	46
17	Evaluation of transcatheter heart valve biomaterials: Biomechanical characterization of bovine and porcine pericardium. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 486-494.	1.5	81
18	Simulation of unsteady blood flow dynamics in the thoracic aorta. <i>Ingenieria E Investigacion</i> , 2017, 37, 92-101.	0.2	5

#	ARTICLE	IF	CITATIONS
19	Fully-coupled fluid-structure interaction simulation of the aortic and mitral valves in a realistic 3D left ventricle model. PLoS ONE, 2017, 12, e0184729.	1.1	89
20	Numerical simulation of non-Newtonian blood flow dynamics in human thoracic aorta. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1200-1216.	0.9	60
21	A Review on Computational Fluid Dynamics Modelling in Human Thoracic Aorta. Cardiovascular Engineering and Technology, 2013, 4, 103-130.	0.7	73
22	An accelerometer-based embedded system-on-chip for measuring human-body joint angles. , 2013, , .		3