Andres Caballero

List of Publications by Year
in descending order

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

Version: 2024-02-01

22	587	758635 12	713013 21
papers	citations	h-index	g-index

25	25	25	624
all docs	docs citations	times ranked	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.	1.1	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.	1.5	81
3	A Review on Computational Fluid Dynamics Modelling in Human Thoracic Aorta. Cardiovascular Engineering and Technology, 2013, 4, 103-130.	0.7	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.	0.9	60
5	Modeling Left Ventricular Blood Flow Using Smoothed Particle Hydrodynamics. Cardiovascular Engineering and Technology, 2017, 8, 465-479.	0.7	46
6	New insights into mitral heart valve prolapse after chordae rupture through fluidâ€“structure interaction computational modeling. Scientific Reports, 2018, 8, 17306.	1.6	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.	1.5	27
8	The role of stress concentration in calcified bicuspid aortic valve. Journal of the Royal Society Interface, 2020, 17, 20190893.	1.5	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.	1.0	24
10	A Comprehensive Engineering Analysis of Left Heart Dynamics After MitraClip in a Functional Mitral Regurgitation Patient. Frontiers in Physiology, 2020, 11, 432.	1.3	24
11	Finite element analysis of MitraClip procedure on a patient-specific model with functional mitral regurgitation. Journal of Biomechanics, 2020, 104, 109730.	0.9	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.	1.5	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.	1.5	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.	0.2	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.	1.2	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.	3.9	6
17	Simulation of unsteady blood flow dynamics in the thoracic aorta. Ingenieria E Investigacion, 2017, 37, 92-101.	0.2	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.	3.9	5
20	Computer simulations of transapical mitral valve repair with neochordae implantation: Clinical implications. JTCVS Open, 2020, 3, 27-44.	0.2	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.	1.0	3