Seyedvahid Khodaei

List of Publications by Year
in descending order

17 papers	207 citations	933447 10 h-index	1199594 12 g-index
17 all docs	17 docs citations	17 times ranked	105 citing authors

#	Article	IF	Citations
1	The Critical Role of Lumped Parameter Models in Patient-Specific Cardiovascular Simulations. Archives of Computational Methods in Engineering, 2022, 29, 2977-3000.	10.2	16
2	Impact of mixed valvular disease on coarctation hemodynamics using patient-specific lumped parameter and Lattice Boltzmann modeling. International Journal of Mechanical Sciences, 2022, 217, 107038.	6.7	16
3	Reducing Morbidity and Mortality in Patients With Coarctation Requires Systematic Differentiation of Impacts of Mixed Valvular Disease on Coarctation Hemodynamics. Journal of the American Heart Association, 2022, 11, e022664.	3.7	11
4	Impact of extra-anatomical bypass on coarctation fluid dynamics using patient-specific lumped parameter and Lattice Boltzmann modeling. Scientific Reports, 2022, 12, .	3.3	10
5	Personalized intervention cardiology with transcatheter aortic valve replacement made possible with a non-invasive monitoring and diagnostic framework. Scientific Reports, 2021, 11, 10888.	3.3	20
6	Towards a non-invasive computational diagnostic framework for personalized cardiology of transcatheter aortic valve replacement in interactions with complex valvular, ventricular and vascular disease. International Journal of Mechanical Sciences, 2021, 202-203, 106506.	6.7	10
7	Effects of Choice of Medical Imaging Modalities on a Non-invasive Diagnostic and Monitoring Computational Framework for Patients With Complex Valvular, Vascular, and Ventricular Diseases Who Undergo Transcatheter Aortic Valve Replacement. Frontiers in Bioengineering and Biotechnology, 2021, 9, 643453.	4.1	15
8	A FLUID-STRUCTURE INTERACTION MODEL FOR CARBON NANOTUBES CONVEYING FLUID CONSIDERING NON-PLUG FLOW EFFECTS. , 2021, 48, 1-17.		1
9	Towards non-invasive computational-mechanics and imaging-based diagnostic framework for personalized cardiology for coarctation. Scientific Reports, 2020, 10, 9048.	3.3	23
10	Mixed Valvular Disease Following Transcatheter Aortic Valve Replacement: Quantification and Systematic Differentiation Using Clinical Measurements and Image‐Based Patient‐Specific In Silico Modeling. Journal of the American Heart Association, 2020, 9, e015063.	3.7	26
11	Insertion mechanics of bioinspired needles into soft tissues. Minimally Invasive Therapy and Allied Technologies, 2018, 27, 284-291.	1.2	17
12	Nonlocal vibration and instability analysis of carbon nanotubes conveying fluid considering the influences of nanoflow and non-uniform velocity profile. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	14
13	Numerical simulation of mitral valve prolapse considering the effect of left ventricle. Mathematical Biosciences, 2017, 285, 75-80.	1.9	17
14	Design and Evaluation of Advanced Smart Needles for Brain Biopsy. , 2017, , .		1
15	Design of Smart Barb of Honeybee-Inspired Surgery Needle. , 2017, , .		3
16	Study of Bioinspired Surgery Needle Advancing in Soft Tissues. , 2017, , .		2
17	Insertion Mechanics of 3D Printed Honeybee-Inspired Needle Prototypes for Percutaneous Procedure. , 2017, , .		5