

# Seyedvahid Khodaei

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

207  
citations

933447

10  
h-index

1199594

12  
g-index

17  
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17  
docs citations

17  
times ranked

105  
citing authors

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