Selene Pirola

List of Publications by Year
in descending order

23	513	932766	794141
papers	citations	10	19
		h-index	g-index

23	23	23	576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the choice of outlet boundary conditions for patient-specific analysis of aortic flow using computational fluid dynamics. Journal of Biomechanics, 2017, 60, 15-21.	0.9	116
2	4D Flow Analysis of BAV-Related Fluid-Dynamic Alterations: Evidences of Wall Shear Stress Alterations in Absence of Clinically-Relevant Aortic Anatomical Remodeling. Frontiers in Physiology, 2017, 8, 441.	1.3	54
3	4-D Flow MRI-Based Computational Analysis of Blood Flow in Patient-Specific Aortic Dissection. IEEE Transactions on Biomedical Engineering, 2019, 66, 3411-3419.	2.5	48
4	Computational study of aortic hemodynamics for patients with an abnormal aortic valve: The importance of secondary flow at the ascending aorta inlet. APL Bioengineering, 2018, 2, 026101.	3.3	44
5	The influence of inlet velocity profile on predicted flow in type B aortic dissection. Biomechanics and Modeling in Mechanobiology, 2021, 20, 481-490.	1.4	40
6	Evaluation of 4D flow MRI-based non-invasive pressure assessment in aortic coarctations. Journal of Biomechanics, 2019, 94, 13-21.	0.9	35
7	Towards the improved quantification of in vivo abnormal wall shear stresses in BAV-affected patients from 4D-flow imaging: Benchmarking and application to real data. Journal of Biomechanics, 2017, 50, 93-101.	0.9	32
8	Analysis of Turbulence Effects in a Patient-Specific Aorta with Aortic Valve Stenosis. Cardiovascular Engineering and Technology, 2021, 12, 438-453.	0.7	29
9	High Wall Shear Stress can Predict Wall Degradation in Ascending Aortic Aneurysms: An Integrated Biomechanics Study. Frontiers in Bioengineering and Biotechnology, 2021, 9, 750656.	2.0	28
10	High Wall Stress May Predict the Formation of Stent-Graftâ€“Induced New Entries After Thoracic Endovascular Aortic Repair. Journal of Endovascular Therapy, 2018, 25, 571-577.	0.8	23
11	Evaluation and verification of patient-specific modelling of type B aortic dissection. Computers in Biology and Medicine, 2022, 140, 105053.	3.9	14
12	Evaluation of Computational Methodologies for Accurate Prediction of Wall Shear Stress and Turbulence Parameters in a Patient-Specific Aorta. Frontiers in Bioengineering and Biotechnology, 2022, 10, 836611.	2.0	10
13	Dissection Level Within Aortic Wall Layers is Associated with Propagation of Type B Aortic Dissection: A Swine Model Study. European Journal of Vascular and Endovascular Surgery, 2019, 58, 415-425.	0.8	9
14	Hemodynamic evaluation using four-dimensional flow magnetic resonance imaging for a patient with multichanneled aortic dissection. Journal of Vascular Surgery Cases and Innovative Techniques, 2018, 4, 67-71.	0.3	7
15	Effect of Vessel Tortuosity on Stress Concentration at the Distal Stentâ€“Vessel Interface: Possible Link With New Entry Formation Through Biomechanical Simulation. Journal of Biomechanical Engineering, 2021, 143, .	0.6	6
16	Geometry and flow in ascending aortic aneurysms are influenced by left ventricular outflow tract orientation: Detecting increased wall shear stress on the outer curve of proximal aortic aneurysms. Journal of Thoracic and Cardiovascular Surgery, 2023, 166, 11-21.e1.	0.4	6
17	Qualitative and Quantitative Assessments of Blood Flow on Tears in Type B Aortic Dissection With Different Morphologies. Frontiers in Bioengineering and Biotechnology, 2021, 9, 742985.	2.0	6
18	Phase-contrast magnetic resonance imaging and computational fluid dynamics assessment of thoracic aorta blood flow: a literature review. European Journal of Cardio-thoracic Surgery, 2020, 57, 438-446.	0.6	5

#	Article	IF	Citations
19	Risk prediction for thoracic aortic dissection: is it time to go with the flow?. Journal of Thoracic and Cardiovascular Surgery, 2022, , .	0.4	1
20	Phase contrast MRI: Development of a user-friendly platform for fast-automated segmentation and fluid-dynamic post-processing. , 2015, , .		0
21	Relevance of Machine Learning to Cardiovascular Imaging. Advances in Medical Technologies and Clinical Practice Book Series, 2021, , 78-99.	0.3	0
22	Modeling and Implementing a Signal Persistence Manager for Shared Biosignal Storage and Processing. IFMBE Proceedings, 2014, , 1338-1341.	0.2	0
23	Aortic Flow and Morphology Adaptation to Deconditioning after 21:Days of Head:Down Bed:Rest Assessed by Phase Contrast MRI. , 0, , .		0