

Giuseppe De Nisco

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

19
papers

184
citations

7
h-index

13
g-index

21
ext. papers

289
ext. citations

3.5
avg, IF

3.23
L-index

#	Paper	IF	Citations
19	The Atheroprotective Nature of Helical Flow in Coronary Arteries. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 425-438	4.7	37
18	Multidirectional wall shear stress promotes advanced coronary plaque development: comparing five shear stress metrics. <i>Cardiovascular Research</i> , 2020 , 116, 1136-1146	9.9	29
17	The impact of helical flow on coronary atherosclerotic plaque development. <i>Atherosclerosis</i> , 2020 , 300, 39-46	3.1	20
16	A Eulerian method to analyze wall shear stress fixed points and manifolds in cardiovascular flows. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 1403-1423	3.8	15
15	What is needed to make low-density lipoprotein transport in human aorta computational models suitable to explore links to atherosclerosis? Impact of initial and inflow boundary conditions. <i>Journal of Biomechanics</i> , 2018 , 68, 33-42	2.9	12
14	Wall Shear Stress Topological Skeleton Independently Predicts Long-Term Restenosis After Carotid Bifurcation Endarterectomy. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 2936-2949	4.7	11
13	Deciphering ascending thoracic aortic aneurysm hemodynamics in relation to biomechanical properties. <i>Medical Engineering and Physics</i> , 2020 , 82, 119-129	2.4	10
12	A reduced-order model-based study on the effect of intermittent pneumatic compression of limbs on the cardiovascular system. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016 , 230, 279-87	1.7	7
11	Does the inflow velocity profile influence physiologically relevant flow patterns in computational hemodynamic models of left anterior descending coronary artery?. <i>Medical Engineering and Physics</i> , 2020 , 82, 58-69	2.4	7
10	Exploring wall shear stress spatiotemporal heterogeneity in coronary arteries combining correlation-based analysis and complex networks with computational hemodynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020 , 234, 1209-1222	1.7	6
9	Wall Shear Stress Topological Skeleton Analysis in Cardiovascular Flows: Methods and Applications. <i>Mathematics</i> , 2021 , 9, 720	2.3	6
8	Hemodialysis arterio-venous graft design reducing the hemodynamic risk of vascular access dysfunction. <i>Journal of Biomechanics</i> , 2020 , 100, 109591	2.9	5
7	Early Atherosclerotic Changes in Coronary Arteries are Associated with Endothelium Shear Stress Contraction/Expansion Variability. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 2606-2621	4.7	5
6	Modeling methodology for defining a priori the hydrodynamics of a dynamic suspension bioreactor. Application to human induced pluripotent stem cell culture. <i>Journal of Biomechanics</i> , 2019 , 94, 99-106	2.9	4
5	Lipid-rich Plaques Detected by Near-infrared Spectroscopy Are More Frequently Exposed to High Shear Stress. <i>Journal of Cardiovascular Translational Research</i> , 2021 , 14, 416-425	3.3	4
4	The definition of low wall shear stress and its effect on plaque progression estimation in human coronary arteries. <i>Scientific Reports</i> , 2021 , 11, 22086	4.9	3
3	In-stent graft helical flow intensity reduces the risk of migration after endovascular aortic repair. <i>Journal of Biomechanics</i> , 2019 , 94, 170-179	2.9	2

2	Comparison of Swine and Human Computational Hemodynamics Models for the Study of Coronary Atherosclerosis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 731924	5.8	1
1	Finite Element Modeling Application in Forensic Practice: A Periprosthetic Femoral Fracture Case Study. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 619	5.8	0