

# Giuseppe De Nisco

## List of Publications by Year in Descending Order

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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 definition of low wall shear stress and its effect on plaque progression estimation in human coronary arteries. <i>Scientific Reports</i> , <b>2021</b> , 11, 22086	4.9	3
18	Lipid-rich Plaques Detected by Near-infrared Spectroscopy Are More Frequently Exposed to High Shear Stress. <i>Journal of Cardiovascular Translational Research</i> , <b>2021</b> , 14, 416-425	3.3	4
17	Wall Shear Stress Topological Skeleton Analysis in Cardiovascular Flows: Methods and Applications. <i>Mathematics</i> , <b>2021</b> , 9, 720	2.3	6
16	Early Atherosclerotic Changes in Coronary Arteries are Associated with Endothelium Shear Stress Contraction/Expansion Variability. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 49, 2606-2621	4.7	5
15	Comparison of Swine and Human Computational Hemodynamics Models for the Study of Coronary Atherosclerosis. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 731924	5.8	1
14	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> , <b>2020</b> , 234, 1209-1222	1.7	6
13	Finite Element Modeling Application in Forensic Practice: A Periprosthetic Femoral Fracture Case Study. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 619	5.8	0
12	The impact of helical flow on coronary atherosclerotic plaque development. <i>Atherosclerosis</i> , <b>2020</b> , 300, 39-46	3.1	20
11	A Eulerian method to analyze wall shear stress fixed points and manifolds in cardiovascular flows. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2020</b> , 19, 1403-1423	3.8	15
10	Hemodialysis arterio-venous graft design reducing the hemodynamic risk of vascular access dysfunction. <i>Journal of Biomechanics</i> , <b>2020</b> , 100, 109591	2.9	5
9	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> , <b>2020</b> , 82, 58-69	2.4	7
8	Deciphering ascending thoracic aortic aneurysm hemodynamics in relation to biomechanical properties. <i>Medical Engineering and Physics</i> , <b>2020</b> , 82, 119-129	2.4	10
7	Wall Shear Stress Topological Skeleton Independently Predicts Long-Term Restenosis After Carotid Bifurcation Endarterectomy. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2936-2949	4.7	11
6	Multidirectional wall shear stress promotes advanced coronary plaque development: comparing five shear stress metrics. <i>Cardiovascular Research</i> , <b>2020</b> , 116, 1136-1146	9.9	29
5	In-stent graft helical flow intensity reduces the risk of migration after endovascular aortic repair. <i>Journal of Biomechanics</i> , <b>2019</b> , 94, 170-179	2.9	2
4	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> , <b>2019</b> , 94, 99-106	2.9	4
3	The Atheroprotective Nature of Helical Flow in Coronary Arteries. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 425-438	4.7	37

2	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> , <b>2018</b> , 68, 33-42	2.9	12
1	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> , <b>2016</b> , 230, 279-87	1.7	7