

# Yannis Papaharilaou

## 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.

44  
papers

948  
citations

17  
h-index

29  
g-index

56  
ext. papers

1,062  
ext. citations

2.9  
avg, IF

3.69  
L-index

#	Paper	IF	Citations
44	Combined effect of shear stress and laser-patterned topography on Schwann cell outgrowth: synergistic or antagonistic?. <i>Biomaterials Science</i> , <b>2021</b> , 9, 1334-1344	7.4	3
43	Spatial Distribution of Abdominal Aortic Aneurysm Surface Expansion and Correlation With Maximum Diameter and Volume Growth. <i>Annals of Vascular Surgery</i> , <b>2019</b> , 58, 276-288	1.7	2
42	Correlation of Intraluminal Thrombus Deposition, Biomechanics, and Hemodynamics with Surface Growth and Rupture in Abdominal Aortic Aneurysm-Application in a Clinical Paradigm. <i>Annals of Vascular Surgery</i> , <b>2018</b> , 46, 357-366	1.7	5
41	A robust approach for exploring hemodynamics and thrombus growth associations in abdominal aortic aneurysms. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 1493-1506	3.1	11
40	Deformation and distensibility distribution along the abdominal aorta in the presence of aneurysmal dilatation. <i>Journal of Cardiovascular Surgery</i> , <b>2017</b> , 58, 72-79	0.7	4
39	A novel approach for local abdominal aortic aneurysm growth quantification. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 1277-1286	3.1	4
38	Routine use of an aortic balloon to resolve possible inflow stenosis induced by the inflatable ring fixation mechanism of the Ovation endograft. <i>Radiologia Medica</i> , <b>2016</b> , 121, 882-889	6.5	3
37	Commentary: Unraveling the Natural History of Aneurysms by Exploiting Clinical Images: Insightful Follow-up of Localized Aneurysm Characteristics. <i>Journal of Endovascular Therapy</i> , <b>2016</b> , 23, 967-968	2.5	
36	Hemodynamic impact of abdominal aortic aneurysm stent-graft implantation-induced stenosis. <i>Medical and Biological Engineering and Computing</i> , <b>2016</b> , 54, 1523-32	3.1	11
35	Numerical modeling of non-Newtonian biomagnetic fluid flow. <i>Computers and Fluids</i> , <b>2016</b> , 126, 170-180	2.8	8
34	The influence of oxygen concentration on the rheological properties and flow of whole human blood. <i>Rheologica Acta</i> , <b>2016</b> , 55, 921-933	2.3	9
33	Effect of intraluminal thrombus asymmetrical deposition on abdominal aortic aneurysm growth rate. <i>Journal of Endovascular Therapy</i> , <b>2015</b> , 22, 406-12	2.5	19
32	Advancements in identifying biomechanical determinants for abdominal aortic aneurysm rupture. <i>Vascular</i> , <b>2015</b> , 23, 65-77	1.3	17
31	The influence of intraluminal thrombus on noninvasive abdominal aortic aneurysm wall distensibility measurement. <i>Medical and Biological Engineering and Computing</i> , <b>2015</b> , 53, 299-308	3.1	10
30	Numerical investigation of biomagnetic fluids in circular ducts. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2014</b> , 30, 297-317	2.6	11
29	Impact of head rotation on the individualized common carotid flow and carotid bifurcation hemodynamics. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 783-9	7.2	9
28	Graft inflow stenosis induced by the inflatable ring fixation mechanism of the Ovation stent-graft system: hemodynamic and clinical implications. <i>Journal of Endovascular Therapy</i> , <b>2014</b> , 21, 829-38	2.5	16

27	Value of volume measurements in evaluating abdominal aortic aneurysms growth rate and need for surgical treatment. <i>European Journal of Radiology</i> , <b>2014</b> , 83, 1051-1056	4.7	17
26	Effect of head posture on the healthy human carotid bifurcation hemodynamics. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 207-18	3.1	13
25	Changes in geometric configuration and biomechanical parameters of a rapidly growing abdominal aortic aneurysm may provide insight in aneurysms natural history and rupture risk. <i>Theoretical Biology and Medical Modelling</i> , <b>2013</b> , 10, 67	2.3	10
24	Aneurysm Intraluminal Thrombus Compressibility Estimated in Vivo Using Electrocardiographically Gated Computed Tomography: A Feasibility Study. <i>EJVES Extra</i> , <b>2013</b> , 26, e4-e6		1
23	Estimation of wall properties and wall strength of aortic aneurysms using modern imaging techniques. One more step towards a patient-specific assessment of aneurysm rupture risk. <i>Medical Hypotheses</i> , <b>2013</b> , 81, 212-5	3.8	7
22	Discrepancies in determination of abdominal aortic aneurysms maximum diameter and growth rate, using axial and orthogonal computed tomography measurements. <i>European Journal of Radiology</i> , <b>2013</b> , 82, 1398-403	4.7	15
21	Variability of computational fluid dynamics solutions for pressure and flow in a giant aneurysm: the ASME 2012 Summer Bioengineering Conference CFD Challenge. <i>Journal of Biomechanical Engineering</i> , <b>2013</b> , 135, 021016	2.1	92
20	Geometrical methods for level set based abdominal aortic aneurysm thrombus and outer wall 2D image segmentation. <i>Computer Methods and Programs in Biomedicine</i> , <b>2012</b> , 107, 202-17	6.9	18
19	Coupled fluid-structure interaction hemodynamics in a zero-pressure state corrected arterial geometry. <i>Journal of Biomechanics</i> , <b>2011</b> , 44, 2453-60	2.9	17
18	Effect of posture change on the geometric features of the healthy carotid bifurcation. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2011</b> , 15, 148-54		12
17	Vascular Hemodynamics of the Carotid Bifurcation and Its Relation to Arterial Disease <b>2011</b> , 41-51		
16	The influence of temperature on rheological properties of blood mixtures with different volume expanders Implications in numerical arterial hemodynamics simulations. <i>Rheologica Acta</i> , <b>2011</b> , 50, 389-402	2.3	26
15	Experimental unsteady flow study in a patient-specific abdominal aortic aneurysm model. <i>Experiments in Fluids</i> , <b>2011</b> , 50, 1695-1709	2.5	30
14	Computational evaluation of aortic aneurysm rupture risk: what have we learned so far?. <i>Journal of Endovascular Therapy</i> , <b>2011</b> , 18, 214-25	2.5	37
13	The role of geometric parameters in the prediction of abdominal aortic aneurysm wall stress. <i>European Journal of Vascular and Endovascular Surgery</i> , <b>2010</b> , 39, 42-8	2.3	72
12	Peak wall stress does not necessarily predict the location of rupture in abdominal aortic aneurysms. <i>European Journal of Vascular and Endovascular Surgery</i> , <b>2010</b> , 39, 302-4	2.3	15
11	Steady and unsteady flow within an axisymmetric tube dilatation. <i>Experimental Thermal and Fluid Science</i> , <b>2010</b> , 34, 915-927	3	13
10	Reverse engineering techniques for cranioplasty: a case study. <i>Journal of Medical Engineering and Technology</i> , <b>2008</b> , 32, 115-21	1.8	35

9	A decoupled fluid structure approach for estimating wall stress in abdominal aortic aneurysms. <i>Journal of Biomechanics</i> , <b>2007</b> , 40, 367-77	2.9	86
8	Effect of Head Posture Changes in the Geometry and Hemodynamics of a Healthy Human Carotid Bifurcation <b>2007</b> ,		2
7	Automated classification of peripheral distal by-pass geometries reconstructed from medical data. <i>Journal of Biomechanics</i> , <b>2005</b> , 38, 47-62	2.9	25
6	Three-dimensional reconstruction of autologous vein bypass graft distal anastomoses imaged with magnetic resonance: clinical and research applications. <i>Journal of Vascular Surgery</i> , <b>2003</b> , 38, 621-5	3.5	11
5	The influence of out-of-plane geometry on pulsatile flow within a distal end-to-side anastomosis. <i>Journal of Biomechanics</i> , <b>2002</b> , 35, 1225-39	2.9	68
4	The geometry of unstented and stented pig common carotid artery bypass grafts. <i>Biorheology</i> , <b>2002</b> , 39, 507-12	1.7	10
3	Assessing the accuracy of two-dimensional phase-contrast MRI measurements of complex unsteady flows. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 714-23	5.6	18
2	Preliminary study of rapid prototype medical models. <i>Rapid Prototyping Journal</i> , <b>2001</b> , 7, 275-284	3.8	86
1	The influence of out-of-plane geometry on the flow within a distal end-to-side anastomosis. <i>Journal of Biomechanical Engineering</i> , <b>2000</b> , 122, 86-95	2.1	69