Yannis Papaharilaou

List of Publications by Citations

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	Variability of computational fluid dynamics solutions for pressure and flow in a giant aneurysm: the ASME 2012 Summer Bioengineering Conference CFD Challenge. *Journal of Biomechanical Engineering*, **2013**, 135, 021016	2.1	92
43	A decoupled fluid structure approach for estimating wall stress in abdominal aortic aneurysms. *Journal of Biomechanics*, **2007**, 40, 367-77	2.9	86
42	Preliminary study of rapid prototype medical models. *Rapid Prototyping Journal*, **2001**, 7, 275-284	3.8	86
41	The role of geometric parameters in the prediction of abdominal aortic aneurysm wall stress. *European Journal of Vascular and Endovascular Surgery*, **2010**, 39, 42-8	2.3	72
40	The influence of out-of-plane geometry on the flow within a distal end-to-side anastomosis. *Journal of Biomechanical Engineering*, **2000**, 122, 86-95	2.1	69
39	The influence of out-of-plane geometry on pulsatile flow within a distal end-to-side anastomosis. *Journal of Biomechanics*, **2002**, 35, 1225-39	2.9	68
38	Computational evaluation of aortic aneurysm rupture risk: what have we learned so far?. *Journal of Endovascular Therapy*, **2011**, 18, 214-25	2.5	37
37	Reverse engineering techniques for cranioplasty: a case study. *Journal of Medical Engineering and Technology*, **2008**, 32, 115-21	1.8	35
36	Experimental unsteady flow study in a patient-specific abdominal aortic aneurysm model. *Experiments in Fluids*, **2011**, 50, 1695-1709	2.5	30
35	The influence of temperature on rheological properties of blood mixtures with different volume expanders□mplications in numerical arterial hemodynamics simulations. *Rheologica Acta*, **2011**, 50, 389-402	2.3	26
34	Automated classification of peripheral distal by-pass geometries reconstructed from medical data. *Journal of Biomechanics*, **2005**, 38, 47-62	2.9	25
33	Effect of intraluminal thrombus asymmetrical deposition on abdominal aortic aneurysm growth rate. *Journal of Endovascular Therapy*, **2015**, 22, 406-12	2.5	19
32	Geometrical methods for level set based abdominal aortic aneurysm thrombus and outer wall 2D image segmentation. *Computer Methods and Programs in Biomedicine*, **2012**, 107, 202-17	6.9	18
31	Assessing the accuracy of two-dimensional phase-contrast MRI measurements of complex unsteady flows. *Journal of Magnetic Resonance Imaging*, **2001**, 14, 714-23	5.6	18
30	Advancements in identifying biomechanical determinants for abdominal aortic aneurysm rupture. *Vascular*, **2015**, 23, 65-77	1.3	17
29	Value of volume measurements in evaluating abdominal aortic aneurysms growth rate and need for surgical treatment. *European Journal of Radiology*, **2014**, 83, 1051-1056	4.7	17
28	Coupled fluid-structure interaction hemodynamics in a zero-pressure state corrected arterial geometry. *Journal of Biomechanics*, **2011**, 44, 2453-60	2.9	17

27	Graft inflow stenosis induced by the inflatable ring fixation mechanism of the Ovation stent-graft system: hemodynamic and clinical implications. *Journal of Endovascular Therapy*, **2014**, 21, 829-38	2.5	16
26	Discrepancies in determination of abdominal aortic aneurysms maximum diameter and growth rate, using axial and orhtogonal computed tomography measurements. *European Journal of Radiology*, **2013**, 82, 1398-403	4.7	15
25	Peak wall stress does not necessarily predict the location of rupture in abdominal aortic aneurysms. *European Journal of Vascular and Endovascular Surgery*, **2010**, 39, 302-4	2.3	15
24	Effect of head posture on the healthy human carotid bifurcation hemodynamics. *Medical and Biological Engineering and Computing*, **2013**, 51, 207-18	3.1	13
23	Steady and unsteady flow within an axisymmetric tube dilatation. *Experimental Thermal and Fluid Science*, **2010**, 34, 915-927	3	13
22	Effect of posture change on the geometric features of the healthy carotid bifurcation. *IEEE Transactions on Information Technology in Biomedicine*, **2011**, 15, 148-54		12
21	A robust approach for exploring hemodynamics and thrombus growth associations in abdominal aortic aneurysms. *Medical and Biological Engineering and Computing*, **2017**, 55, 1493-1506	3.1	11
20	Hemodynamic impact of abdominal aortic aneurysm stent-graft implantation-induced stenosis. *Medical and Biological Engineering and Computing*, **2016**, 54, 1523-32	3.1	11
19	Numerical investigation of biomagnetic fluids in circular ducts. *International Journal for Numerical Methods in Biomedical Engineering*, **2014**, 30, 297-317	2.6	11
18	Three-dimensional reconstruction of autologous vein bypass graft distal anastomoses imaged with magnetic resonance: clinical and research applications. *Journal of Vascular Surgery*, **2003**, 38, 621-5	3.5	11
17	Changes in geometric configuration and biomechanical parameters of a rapidly growing abdominal aortic aneurysm may provide insight in aneurysms natural history and rupture risk. *Theoretical Biology and Medical Modelling*, **2013**, 10, 67	2.3	10
16	The influence of intraluminal thrombus on noninvasive abdominal aortic aneurysm wall distensibility measurement. *Medical and Biological Engineering and Computing*, **2015**, 53, 299-308	3.1	10
15	The geometry of unstented and stented pig common carotid artery bypass grafts. *Biorheology*, **2002**, 39, 507-12	1.7	10
14	Impact of head rotation on the individualized common carotid flow and carotid bifurcation hemodynamics. *IEEE Journal of Biomedical and Health Informatics*, **2014**, 18, 783-9	7.2	9
13	The influence of oxygen concentration on the rheological properties and flow of whole human blood. *Rheologica Acta*, **2016**, 55, 921-933	2.3	9
12	Numerical modeling of non-Newtonian biomagnetic fluid flow. *Computers and Fluids*, **2016**, 126, 170-180	2.8	8
11	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. *Medical Hypotheses*, **2013**, 81, 212-5	3.8	7
10	Correlation of Intraluminal Thrombus Deposition, Biomechanics, and Hemodynamics with Surface Growth and Rupture in Abdominal Aortic Aneurysm-Application in a Clinical Paradigm. *Annals of Vascular Surgery*, **2018**, 46, 357-366	1.7	5

9	Deformation and distensibility distribution along the abdominal aorta in the presence of aneurysmal dilatation. *Journal of Cardiovascular Surgery*, **2017**, 58, 72-79	0.7	4
8	A novel approach for local abdominal aortic aneurysm growth quantification. *Medical and Biological Engineering and Computing*, **2017**, 55, 1277-1286	3.1	4
7	Routine use of an aortic balloon to resolve possible inflow stenosis induced by the inflatable ring fixation mechanism of the Ovation endograft. *Radiologia Medica*, **2016**, 121, 882-889	6.5	3
6	Combined effect of shear stress and laser-patterned topography on Schwann cell outgrowth: synergistic or antagonistic?. *Biomaterials Science*, **2021**, 9, 1334-1344	7.4	3
5	Effect of Head Posture Changes in the Geometry and Hemodynamics of a Healthy Human Carotid Bifurcation **2007**,		2
4	Spatial Distribution of Abdominal Aortic Aneurysm Surface Expansion and Correlation With Maximum Diameter and Volume Growth. *Annals of Vascular Surgery*, **2019**, 58, 276-288	1.7	2
3	Aneurysm Intraluminal Thrombus Compressibility Estimated in vivo Using Electrocardiographically Gated Computed Tomography: A Feasibility Study. *EJVES Extra*, **2013**, 26, e4-e6		1
2	Commentary: Unraveling the Natural History of Aneurysms by Exploiting Clinical Images: Insightful Follow-up of Localized Aneurysm Characteristics. *Journal of Endovascular Therapy*, **2016**, 23, 967-968	2.5	
1	Vascular Hemodynamics of the Carotid Bifurcation and Its Relation to Arterial Disease **2011**, 41-51		