Michalis A Xenos

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.

57 papers	1,448 citations	21 h-index	37 g-index
73 ext. papers	1,661 ext. citations	3.1 avg, IF	4.31 L-index

#	Paper	IF	Citations
57	Wall shear stress indicators influence the regular hemodynamic conditions in coronary main arterial diseases: cardiovascular abnormalities.. *Computer Methods in Biomechanics and Biomedical Engineering*, **2022**, 1-14	2.1	
56	Remodeling effects of carotid artery stenting versus endarterectomy with patch angioplasty in terms of morphology and hemodynamics. *Computers in Biology and Medicine*, **2021**, 140, 105072	7	2
55	The impact of hemodynamic factors in a coronary main artery to detect the atherosclerotic severity: Single and multiple sequential stenosis cases. *Physics of Fluids*, **2021**, 33, 031903	4.4	5
54	Oscillating Magnetohydrodynamic Stokes Flow between Porous Plates with Spatiotemporally Periodic Reabsorption. *Fluids*, **2021**, 6, 156	1.6	0
53	Modeling and Computational Comparison of the Displacement Forces Exerted between the AFX Unibody Aortic Stent Graft and its Hybrid Combination with a Nitinol-based Proximal Aortic Cuff. *Annals of Vascular Surgery*, **2021**, 74, 400-409	1.7	1
52	Computational Fluid Dynamic Analysis Supports the Hemodynamic Stability of Hybrid Combinations With the AFX Bifurcate and Nitinol-Based Proximal Segments in Solutions of Failed Endovascular Aneurysm Repair. *Vascular and Endovascular Surgery*, **2021**, 55, 907-909	1.4	0
51	Hemodynamic characteristics expose the atherosclerotic severity in coronary main arteries: One-dimensional and three-dimensional approaches. *Physics of Fluids*, **2021**, 33, 121907	4.4	1
50	Solving the Nonlinear Boundary Layer Flow Equations with Pressure Gradient and Radiation. *Symmetry*, **2020**, 12, 710	2.7	13
49	Endograft Specific Haemodynamics After Endovascular Aneurysm Repair: Flow Characteristics of Four Stent Graft Systems. *European Journal of Vascular and Endovascular Surgery*, **2019**, 58, 538-547	2.3	3
48	In-stent graft helical flow intensity reduces the risk of migration after endovascular aortic repair. *Journal of Biomechanics*, **2019**, 94, 170-179	2.9	2
47	Haemodynamic performance of AFX and Nellix endografts: a computational fluid dynamics study. *Interactive Cardiovascular and Thoracic Surgery*, **2018**, 26, 826-833	1.8	9
46	Abdominal aortic aneurysm endovascular repair: profiling post-implantation morphometry and hemodynamics with image-based computational fluid dynamics. *Journal of Biomechanical Engineering*, **2018**,	2.1	14
45	MAGNETOHYDRODYNAMIC EFFECTS ON THE GRANULAR TEMPERATURE OF RED BLOOD CELLS IN MICROVASCULATURE. *Journal of Mechanics in Medicine and Biology*, **2017**, 17, 1750003	0.7	
44	Hemodynamic Profile of Two Aortic Endografts Accounting for Their Postimplantation Position. *Journal of Medical Devices, Transactions of the ASME*, **2017**, 11,	1.3	8
43	An Euler□agrange approach for studying blood flow in an aneurysmal geometry. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2017**, 473, 20160774	2.4	5
42	Radiation effect on the turbulent compressible boundary layer flow with adverse pressure gradient. *Applied Mathematics and Computation*, **2017**, 299, 153-164	2.7	6
41	Comparison of physiological and post-endovascular aneurysm repair infrarenal blood flow. *Computer Methods in Biomechanics and Biomedical Engineering*, **2017**, 20, 242-249	2.1	12

40	Effect of macroscale formation of intraluminal thrombus on blood flow in abdominal aortic aneurysms. *Computer Methods in Biomechanics and Biomedical Engineering*, **2016**, 19, 84-92	2.1	4
39	Studying the interaction of stent-grafts and treated abdominal aortic aneurysms: time to move caudally!. *Journal of Endovascular Therapy*, **2015**, 22, 413-20	2.5	7
38	Progression of abdominal aortic aneurysm towards rupture: refining clinical risk assessment using a fully coupled fluid-structure interaction method. *Annals of Biomedical Engineering*, **2015**, 43, 139-53	4.7	34
37	Comparative study of flow in right-sided and left-sided aortas: numerical simulations in patient-based models. *Computer Methods in Biomechanics and Biomedical Engineering*, **2015**, 18, 414-25	2.1	5
36	Thromboresistance comparison of the HeartMate II ventricular assist device with the device thrombogenicity emulation- optimized HeartAssist 5 VAD. *Journal of Biomechanical Engineering*, **2014**, 136, 021014	2.1	64
35	Finite element analysis of magnetohydrodynamic effects on blood flow in an aneurysmal geometry. *Physics of Fluids*, **2014**, 26, 101901	4.4	7
34	Biomagnetic fluid flow in a driven cavity. *Meccanica*, **2013**, 48, 187-200	2.1	57
33	Evaluation of shear-induced platelet activation models under constant and dynamic shear stress loading conditions relevant to devices. *Annals of Biomedical Engineering*, **2013**, 41, 1279-96	4.7	76
32	Toward optimization of a novel trileaflet polymeric prosthetic heart valve via device thrombogenicity emulation. *ASAIO Journal*, **2013**, 59, 275-83	3.6	31
31	Biomechanical factors in coronary vulnerable plaque risk of rupture: intravascular ultrasound-based patient-specific fluid-structure interaction studies. *Coronary Artery Disease*, **2013**, 24, 75-87	1.4	16
30	MHD Free Convective Flow of Water near 4? past a Vertical Moving Plate with Constant Suction. *Applied Mathematics*, **2013**, 04, 52-57	0.4	4
29	Radiation Effects on Flow past a Stretching Plate with Temperature Dependent Viscosity. *Applied Mathematics*, **2013**, 04, 1-5	0.4	6
28	Loss of dopamine D2 receptors induces atrophy in the temporal and parietal cortices and the caudal thalamus of ethanol-consuming mice. *Alcoholism: Clinical and Experimental Research*, **2012**, 36, 815-25	3.7	4
27	Viscous flow simulation in a stenosis model using discrete particle dynamics: a comparison between DPD and CFD. *Biomechanics and Modeling in Mechanobiology*, **2012**, 11, 119-29	3.8	22
26	Fluid structure interaction with contact surface methodology for evaluation of endovascular carotid implants for drug-resistant hypertension treatment. *Journal of Biomechanical Engineering*, **2012**, 134, 041001	2.1	17
25	Device thrombogenicity emulation: a novel method for optimizing mechanical circulatory support device thromboresistance. *PLoS ONE*, **2012**, 7, e32463	3.7	72
24	Microcalcifications increase coronary vulnerable plaque rupture potential: a patient-based micro-CT fluid-structure interaction study. *Annals of Biomedical Engineering*, **2012**, 40, 1443-54	4.7	44
23	Three-dimensional computational prediction of cerebrospinal fluid flow in the human brain. *Computers in Biology and Medicine*, **2011**, 41, 67-75	7	68

22	Patient based abdominal aortic aneurysm rupture risk prediction combining clinical visualizing modalities with fluid structure interaction numerical simulations. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 5173-6	0.9	2
21	Design optimization of a mechanical heart valve for reducing valve thrombogenicity-A case study with ATS valve. *ASAIO Journal*, **2010**, 56, 389-96	3.6	42
20	Patient-based abdominal aortic aneurysm rupture risk prediction with fluid structure interaction modeling. *Annals of Biomedical Engineering*, **2010**, 38, 3323-37	4.7	59
19	Particle-based methods for multiscale modeling of blood flow in the circulation and in devices: challenges and future directions. Sixth International Bio-Fluid Mechanics Symposium and Workshop March 28-30, 2008 Pasadena, California. *Annals of Biomedical Engineering*, **2010**, 38, 1225-35	4.7	37
18	The effect of angulation in abdominal aortic aneurysms: fluid-structure interaction simulations of idealized geometries. *Medical and Biological Engineering and Computing*, **2010**, 48, 1175-90	3.1	31
17	Device Thrombogenicity Emulator (DTE)--design optimization methodology for cardiovascular devices: a study in two bileaflet MHV designs. *Journal of Biomechanics*, **2010**, 43, 2400-9	2.9	85
16	A mathematical model of blood, cerebrospinal fluid and brain dynamics. *Journal of Mathematical Biology*, **2009**, 59, 729-59	2	92
15	Methods of optimizing separation of compressible turbulent boundary-layer over a wedge with heat and mass transfer. *International Journal of Heat and Mass Transfer*, **2009**, 52, 488-496	4.9	3
14	Dynamic Shear Stress Induced Platelet Activation in Blood Recirculation Devices: Implications for Thrombogenicity Minimization **2009**,		1
13	Cardiovascular disease management: the need for better diagnostics. *Medical and Biological Engineering and Computing*, **2008**, 46, 1059-68	3.1	42
12	Systematic design of drug delivery therapies. *Computers and Chemical Engineering*, **2008**, 32, 89-98	4	32
11	Discovery of transport and reaction properties in distributed systems. *AICHE Journal*, **2007**, 53, 381-396	3.6	15
10	Cerebrospinal fluid flow in the normal and hydrocephalic human brain. *IEEE Transactions on Biomedical Engineering*, **2007**, 54, 291-302	5	111
9	Dynamics of lateral ventricle and cerebrospinal fluid in normal and hydrocephalic brains. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 756-70	5.6	76
8	Systematic design of drug delivery therapies. *Computer Aided Chemical Engineering*, **2006**, 1693-1698	0.6	
7	Turbulent biomagnetic fluid flow in a rectangular channel under the action of a localized magnetic field. *International Journal of Engineering Science*, **2006**, 44, 1205-1224	5.7	17
6	Pulsatile cerebrospinal fluid dynamics in the human brain. *IEEE Transactions on Biomedical Engineering*, **2005**, 52, 557-65	5	115
5	MHD compressible turbulent boundary-layer flow with adverse pressure gradient. *Acta Mechanica*, **2005**, 177, 171-190	2.1	5

4	Interactions and stability of solitary waves in shallow water. *Chaos, Solitons and Fractals*, **2002**, 14, 87-95	9.3	29
3	Numerical investigation of two-dimensional turbulent boundary-layer compressible flow with adverse pressure gradient and heat and mass transfer. *Acta Mechanica*, **2000**, 141, 201-223	2.1	11
2	Numerical study of two dimensional laminar boundary layer compressible flow with pressure gradient and heat and mass transfer. *International Journal of Engineering Science*, **1999**, 37, 1795-1812	5.7	13
1	Numerical study of the combined free-forced convective boundary layer flow through a highly permeable porous medium. *Mechanics Research Communications*, **1995**, 22, 503-510	2.2	3