

Michalis A Xenos

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.

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	Pulsatile cerebrospinal fluid dynamics in the human brain. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 557-65	5	115
56	Cerebrospinal fluid flow in the normal and hydrocephalic human brain. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 291-302	5	111
55	A mathematical model of blood, cerebrospinal fluid and brain dynamics. <i>Journal of Mathematical Biology</i> , 2009 , 59, 729-59	2	92
54	Device Thrombogenicity Emulator (DTE)--design optimization methodology for cardiovascular devices: a study in two bileaflet MHV designs. <i>Journal of Biomechanics</i> , 2010 , 43, 2400-9	2.9	85
53	Evaluation of shear-induced platelet activation models under constant and dynamic shear stress loading conditions relevant to devices. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 1279-96	4.7	76
52	Dynamics of lateral ventricle and cerebrospinal fluid in normal and hydrocephalic brains. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 756-70	5.6	76
51	Device thrombogenicity emulation: a novel method for optimizing mechanical circulatory support device thromboresistance. <i>PLoS ONE</i> , 2012 , 7, e32463	3.7	72
50	Three-dimensional computational prediction of cerebrospinal fluid flow in the human brain. <i>Computers in Biology and Medicine</i> , 2011 , 41, 67-75	7	68
49	Thromboresistance comparison of the HeartMate II ventricular assist device with the device thrombogenicity emulation- optimized HeartAssist 5 VAD. <i>Journal of Biomechanical Engineering</i> , 2014 , 136, 021014	2.1	64
48	Patient-based abdominal aortic aneurysm rupture risk prediction with fluid structure interaction modeling. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 3323-37	4.7	59
47	Biomagnetic fluid flow in a driven cavity. <i>Meccanica</i> , 2013 , 48, 187-200	2.1	57
46	Microcalcifications increase coronary vulnerable plaque rupture potential: a patient-based micro-CT fluid-structure interaction study. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1443-54	4.7	44
45	Design optimization of a mechanical heart valve for reducing valve thrombogenicity-A case study with ATS valve. <i>ASAIO Journal</i> , 2010 , 56, 389-96	3.6	42
44	Cardiovascular disease management: the need for better diagnostics. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 1059-68	3.1	42
43	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. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 1225-35	4.7	37
42	Progression of abdominal aortic aneurysm towards rupture: refining clinical risk assessment using a fully coupled fluid-structure interaction method. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 139-53	4.7	34
41	Systematic design of drug delivery therapies. <i>Computers and Chemical Engineering</i> , 2008 , 32, 89-98	4	32

40	Toward optimization of a novel trileaflet polymeric prosthetic heart valve via device thrombogenicity emulation. <i>ASAIO Journal</i> , 2013 , 59, 275-83	3.6	31
39	The effect of angulation in abdominal aortic aneurysms: fluid-structure interaction simulations of idealized geometries. <i>Medical and Biological Engineering and Computing</i> , 2010 , 48, 1175-90	3.1	31
38	Interactions and stability of solitary waves in shallow water. <i>Chaos, Solitons and Fractals</i> , 2002 , 14, 87-95	9.3	29
37	Viscous flow simulation in a stenosis model using discrete particle dynamics: a comparison between DPD and CFD. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 119-29	3.8	22
36	Fluid structure interaction with contact surface methodology for evaluation of endovascular carotid implants for drug-resistant hypertension treatment. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 041001	2.1	17
35	Turbulent biomagnetic fluid flow in a rectangular channel under the action of a localized magnetic field. <i>International Journal of Engineering Science</i> , 2006 , 44, 1205-1224	5.7	17
34	Biomechanical factors in coronary vulnerable plaque risk of rupture: intravascular ultrasound-based patient-specific fluid-structure interaction studies. <i>Coronary Artery Disease</i> , 2013 , 24, 75-87	1.4	16
33	Discovery of transport and reaction properties in distributed systems. <i>AIChE Journal</i> , 2007 , 53, 381-396	3.6	15
32	Abdominal aortic aneurysm endovascular repair: profiling post-implantation morphometry and hemodynamics with image-based computational fluid dynamics. <i>Journal of Biomechanical Engineering</i> , 2018 ,	2.1	14
31	Solving the Nonlinear Boundary Layer Flow Equations with Pressure Gradient and Radiation. <i>Symmetry</i> , 2020 , 12, 710	2.7	13
30	Numerical study of two dimensional laminar boundary layer compressible flow with pressure gradient and heat and mass transfer. <i>International Journal of Engineering Science</i> , 1999 , 37, 1795-1812	5.7	13
29	Comparison of physiological and post-endovascular aneurysm repair infrarenal blood flow. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 242-249	2.1	12
28	Numerical investigation of two-dimensional turbulent boundary-layer compressible flow with adverse pressure gradient and heat and mass transfer. <i>Acta Mechanica</i> , 2000 , 141, 201-223	2.1	11
27	Haemodynamic performance of AFX and Nellix endografts: a computational fluid dynamics study. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2018 , 26, 826-833	1.8	9
26	Hemodynamic Profile of Two Aortic Endografts Accounting for Their Postimplantation Position. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2017 , 11,	1.3	8
25	Studying the interaction of stent-grafts and treated abdominal aortic aneurysms: time to move caudally!. <i>Journal of Endovascular Therapy</i> , 2015 , 22, 413-20	2.5	7
24	Finite element analysis of magnetohydrodynamic effects on blood flow in an aneurysmal geometry. <i>Physics of Fluids</i> , 2014 , 26, 101901	4.4	7
23	Radiation effect on the turbulent compressible boundary layer flow with adverse pressure gradient. <i>Applied Mathematics and Computation</i> , 2017 , 299, 153-164	2.7	6

22	Radiation Effects on Flow past a Stretching Plate with Temperature Dependent Viscosity. <i>Applied Mathematics</i> , 2013 , 04, 1-5	0.4	6
21	An Euler-Lagrange approach for studying blood flow in an aneurysmal geometry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20160774	2.4	5
20	Comparative study of flow in right-sided and left-sided aortas: numerical simulations in patient-based models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 414-25	2.1	5
19	MHD compressible turbulent boundary-layer flow with adverse pressure gradient. <i>Acta Mechanica</i> , 2005 , 177, 171-190	2.1	5
18	The impact of hemodynamic factors in a coronary main artery to detect the atherosclerotic severity: Single and multiple sequential stenosis cases. <i>Physics of Fluids</i> , 2021 , 33, 031903	4.4	5
17	Effect of macroscale formation of intraluminal thrombus on blood flow in abdominal aortic aneurysms. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016 , 19, 84-92	2.1	4
16	Loss of dopamine D2 receptors induces atrophy in the temporal and parietal cortices and the caudal thalamus of ethanol-consuming mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2012 , 36, 815-25	3.7	4
15	MHD Free Convective Flow of Water near ∞ past a Vertical Moving Plate with Constant Suction. <i>Applied Mathematics</i> , 2013 , 04, 52-57	0.4	4
14	Endograft Specific Haemodynamics After Endovascular Aneurysm Repair: Flow Characteristics of Four Stent Graft Systems. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019 , 58, 538-547	2.3	3
13	Methods of optimizing separation of compressible turbulent boundary-layer over a wedge with heat and mass transfer. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 488-496	4.9	3
12	Numerical study of the combined free-forced convective boundary layer flow through a highly permeable porous medium. <i>Mechanics Research Communications</i> , 1995 , 22, 503-510	2.2	3
11	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
10	Patient based abdominal aortic aneurysm rupture risk prediction combining clinical visualizing modalities with fluid structure interaction numerical simulations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5173-6	0.9	2
9	Remodeling effects of carotid artery stenting versus endarterectomy with patch angioplasty in terms of morphology and hemodynamics. <i>Computers in Biology and Medicine</i> , 2021 , 140, 105072	7	2
8	Dynamic Shear Stress Induced Platelet Activation in Blood Recirculation Devices: Implications for Thrombogenicity Minimization 2009 ,		1
7	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. <i>Annals of Vascular Surgery</i> , 2021 , 74, 400-409	1.7	1
6	Hemodynamic characteristics expose the atherosclerotic severity in coronary main arteries: One-dimensional and three-dimensional approaches. <i>Physics of Fluids</i> , 2021 , 33, 121907	4.4	1
5	Oscillating Magnetohydrodynamic Stokes Flow between Porous Plates with Spatiotemporally Periodic Reabsorption. <i>Fluids</i> , 2021 , 6, 156	1.6	0

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| 4 | 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. <i>Vascular and Endovascular Surgery</i> , 2021 , 55, 907-909 | 1.4 | 0 |
| 3 | MAGNETOHYDRODYNAMIC EFFECTS ON THE GRANULAR TEMPERATURE OF RED BLOOD CELLS IN MICROVASCULATURE. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1750003 | 0.7 | |
| 2 | Systematic design of drug delivery therapies. <i>Computer Aided Chemical Engineering</i> , 2006 , 1693-1698 | 0.6 | |
| 1 | Wall shear stress indicators influence the regular hemodynamic conditions in coronary main arterial diseases: cardiovascular abnormalities.. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022 , 1-14 | 2.1 | |