

Philippe Reymond

List of Publications by Year in descending order

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37
papers

2,011
citations

430754

18
h-index

454834

30
g-index

37
all docs

37
docs citations

37
times ranked

2267
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of a one-dimensional model of the systemic arterial tree. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H208-H222.	1.5	497
2	Validation of a patient-specific one-dimensional model of the systemic arterial tree. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1173-H1182.	1.5	167
3	Fluid-structure interaction simulation of aortic blood flow. Computers and Fluids, 2011, 43, 46-57.	1.3	156
4	Reproducibility of haemodynamical simulations in a subject-specific stented aneurysm model—A report on the Virtual Intracranial Stenting Challenge 2007. Journal of Biomechanics, 2008, 41, 2069-2081.	0.9	139
5	Physiological simulation of blood flow in the aorta: Comparison of hemodynamic indices as predicted by 3-D FSI, 3-D rigid wall and 1-D models. Medical Engineering and Physics, 2013, 35, 784-791.	0.8	137
6	Effect of Flow Diverter Porosity on Intraaneurysmal Blood Flow. Klinische Neuroradiologie, 2009, 19, 204-214.	0.9	134
7	Flow diversion treatment: intra-aneurysmal blood flow velocity and WSS reduction are parameters to predict aneurysm thrombosis. Acta Neurochirurgica, 2012, 154, 1827-1834.	0.9	94
8	Intracranial Stents Being Modeled as a Porous Medium: Flow Simulation in Stented Cerebral Aneurysms. Annals of Biomedical Engineering, 2011, 39, 850-863.	1.3	88
9	Computational Hemodynamics in Cerebral Aneurysms: The Effects of Modeled Versus Measured Boundary Conditions. Annals of Biomedical Engineering, 2011, 39, 884-896.	1.3	84
10	Numerical Validation of a New Method to Assess Aortic Pulse Wave Velocity from a Single Recording of a Brachial Artery Waveform with an Occluding Cuff. Annals of Biomedical Engineering, 2010, 38, 876-888.	1.3	81
11	Influence of inlet boundary conditions on the local haemodynamics of intracranial aneurysms. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 431-444.	0.9	52
12	A coupled hydrodynamic model of the cardiovascular and cerebrospinal fluid system. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1492-H1509.	1.5	52
13	Impact of Aortic Grafts on Arterial Pressure: A Computational Fluid Dynamics Study. European Journal of Vascular and Endovascular Surgery, 2011, 42, 704-710.	0.8	51
14	3D simulation of the aqueous flow in the human eye. Medical Engineering and Physics, 2012, 34, 1462-1470.	0.8	51
15	Systolic Hypertension Mechanisms: Effect of Global and Local Proximal Aorta Stiffening on Pulse Pressure. Annals of Biomedical Engineering, 2012, 40, 742-749.	1.3	42
16	Ambulatory arterial stiffness index does not accurately assess arterial stiffness. Journal of Hypertension, 2012, 30, 574-580.	0.3	36
17	Patient-specific mean pressure drop in the systemic arterial tree, a comparison between 1-D and 3-D models. Journal of Biomechanics, 2012, 45, 2499-2505.	0.9	33
18	Methodologies to assess blood flow in cerebral aneurysms: Current state of research and perspectives. Journal of Neuroradiology, 2009, 36, 270-277.	0.6	22

#	ARTICLE	IF	CITATIONS
19	A 1D model of the arterial circulation in mice. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 13-28.	0.9	17
20	Generic and patient-specific models of the arterial tree. Journal of Clinical Monitoring and Computing, 2012, 26, 375-382.	0.7	11
21	Large Neck and Strong Ostium Inflow as the Potential Causes for Delayed Occlusion of Unruptured Sidewall Intracranial Aneurysms Treated by Flow Diverter. American Journal of Neuroradiology, 2020, 41, 488-494.	1.2	10
22	Experimental evaluation of direct thromboaspiration efficacy according to the angle of interaction between the aspiration catheter and the clot. Journal of NeuroInterventional Surgery, 2021, 13, 1152-1156.	2.0	10
23	Validation of the Arteriograph working principle: questions still remain. Journal of Hypertension, 2011, 29, 619.	0.3	9
24	How Flow Reduction Influences the Intracranial Aneurysm Occlusion: A Prospective 4D Phase-Contrast MRI Study. American Journal of Neuroradiology, 2019, 40, 2117-2123.	1.2	9
25	A high resolution scanning electron microscopy analysis of intracranial thrombi embedded along the stent retrievers. Scientific Reports, 2022, 12, 8027.	1.6	8
26	Experimental evaluation of the performance of large bore aspiration catheters. Journal of Neuroradiology, 2023, 50, 74-78.	0.6	6
27	Acute Stenting and Concomitant Tirofiban Administration for the Endovascular Treatment of Acute Ischemic Stroke Related to Intracranial Artery Dissections: A Single Center Experience and Systematic Review of the Literature. Journal of Stroke and Cerebrovascular Diseases, 2021, 30, 105891.	0.7	4
28	Validation of the arteriograph working principle. Journal of Hypertension, 2011, 29, 1662-1663.	0.3	3
29	Influence of segmentation on morphological parameters and computed hemodynamics in cerebral aneurysms. Journal of Biorheology, 2013, 26, 44-57.	0.2	3
30	Validation of a Person Specific 1D Model of the Systemic Arterial Tree. , 2009, , .		1
31	Impact of aortic grafts on hemodynamics: A 1D computational assessment. , 2011, , .		1
32	Validation of a Person Specific 1-D Model of the Systemic Arterial Tree. IFMBE Proceedings, 2010, , 578-579.	0.2	1
33	One Dimensional Model of the Systemic Arterial Tree Including Cerebral Circulation. , 2007, , .		1
34	To Balloon or Not to Balloon? The Effects of an Intra-Aortic Balloon-Pump on Coronary Artery Flow during Extracorporeal Circulation Simulating Normal and Low Cardiac Output Syndromes. Journal of Clinical Medicine, 2021, 10, 5333.	1.0	1
35	A Coupled Simulation of Spinal Cord Blood Flow and Cerebrospinal Fluid Motion in the Spinal Subarachnoid Space Based on In Vivo Measurements. , 2011, , .		0
36	Response to comments regarding Vardoulis O, etÂal., Impact of Aortic Grafts on Arterial Pressure: A Computational Fluid Dynamics Study. Eur J Vasc Endovasc Surg 2011;42:704â€“10. European Journal of Vascular and Endovascular Surgery, 2012, 43, 238-239.	0.8	0

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37	Simulation of the Outflow Pathway in the Human Eye. IFMBE Proceedings, 2009, , 265-268.	0.2	0