

Liam G Morris

List of Publications by Year in descending order

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39
papers

738
citations

623734

14
h-index

526287

27
g-index

39
all docs

39
docs citations

39
times ranked

1076
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2013, 135, 021016.	1.3	109
2	Novel methodology to replicate clot analogs with diverse composition in acute ischemic stroke. <i>Journal of NeuroInterventional Surgery</i> , 2017, 9, 486-491.	3.3	90
3	Per-Pass Analysis of Thrombus Composition in Patients With Acute Ischemic Stroke Undergoing Mechanical Thrombectomy. <i>Stroke</i> , 2019, 50, 1156-1163.	2.0	89
4	Effects of flat, parabolic and realistic steady flow inlet profiles on idealised and realistic stent graft fits through Abdominal Aortic Aneurysms (AAA). <i>Medical Engineering and Physics</i> , 2006, 28, 19-26.	1.7	48
5	Geometrical Enhancements for Abdominal Aortic Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2008, 15, 518-529.	1.5	42
6	A Review of the In Vivo and In Vitro Biomechanical Behavior and Performance of Postoperative Abdominal Aortic Aneurysms and Implanted Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2008, 15, 468-484.	1.5	42
7	Systematic Review and Patient-Level Meta-analysis of the Streamliner Multilayer Flow Modulator in the Management of Complex Thoracoabdominal Aortic Pathology. <i>Journal of Endovascular Therapy</i> , 2016, 23, 501-512.	1.5	34
8	Stent graft performance in the treatment of abdominal aortic aneurysms: The influence of compliance and geometry. <i>Journal of Biomechanics</i> , 2013, 46, 383-395.	2.1	32
9	Computational fluid analysis of symptomatic chronic type B aortic dissections managed with the Streamliner Multilayer Flow Modulator. <i>Journal of Vascular Surgery</i> , 2017, 65, 951-963.	1.1	31
10	An Experimental Investigation of the Hemodynamic Variations Due to Aplastic Vessels Within Three-Dimensional Phantom Models of the Circle of Willis. <i>Annals of Biomedical Engineering</i> , 2014, 42, 123-138.	2.5	24
11	In vitro evaluation of the effects of intraluminal thrombus on abdominal aortic aneurysm wall dynamics. <i>Medical Engineering and Physics</i> , 2011, 33, 957-966.	1.7	23
12	A computational assessment of the hemodynamic effects of crossed and non-crossed bifurcated stent-graft devices for the treatment of abdominal aortic aneurysms. <i>Medical Engineering and Physics</i> , 2016, 38, 1458-1473.	1.7	19
13	An In Vitro Evaluation of Emboli Trajectories Within a Three-Dimensional Physical Model of the Circle of Willis Under Cerebral Blood Flow Conditions. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2265-2278.	2.5	16
14	ANATOMICALLY AND DIELECTRICALLY REALISTIC MICROWAVE HEAD PHANTOM WITH CIRCULATION AND RECONFIGURABLE LESIONS. <i>Progress in Electromagnetics Research B</i> , 2017, 78, 47-60.	1.0	16
15	An In Vitro Assessment of the Cerebral Hemodynamics Through Three Patient Specific Circle of Willis Geometries. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 011007.	1.3	13
16	Insights from complex aortic surgery with a Streamliner device for aortic arch repair (STAR). <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 152, 1309-1318.e5.	0.8	13
17	Hemodynamic variations due to spiral blood flow through four patient-specific bifurcated stent graft configurations for the treatment of abdominal aortic aneurysms. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 179-196.	2.1	10
18	The influence of computational assumptions on analysing abdominal aortic aneurysm haemodynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 768-780.	1.8	9

#	ARTICLE	IF	CITATIONS
19	An experimental assessment of catheter trackability forces with tortuosity parameters along patient-specific coronary phantoms. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 153-165.	1.8	9
20	Embolus Analog Trajectory Paths Under Physiological Flowrates Through Patient-Specific Aortic Arch Models. Journal of Biomechanical Engineering, 2019, 141, .	1.3	9
21	Class imbalance in gradient boosting classification algorithms: Application to experimental stroke data. Statistical Methods in Medical Research, 2021, 30, 916-925.	1.5	8
22	Changes in left ventricular shape and morphology in the presence of heart failure: a four-dimensional quantitative and qualitative analysis. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1415-1430.	2.8	7
23	Hybrid repair versus conventional open repair for thoracic aortic arch aneurysms. The Cochrane Library, 2021, 2021, CD012923.	2.8	7
24	The Effects That Cardiac Motion has on Coronary Hemodynamics and Catheter Trackability Forces for the Treatment of Coronary Artery Disease: An In Vitro Assessment. Cardiovascular Engineering and Technology, 2015, 6, 430-449.	1.6	6
25	Systematic Review on Endovascular Access to Intracranial Arteries for Mechanical Thrombectomy in Acute Ischemic Stroke. Clinical Neuroradiology, 2022, 32, 5-12.	1.9	6
26	Investigation of the Hemodynamics Influencing Emboli Trajectories Through a Patient-Specific Aortic Arch Model. Stroke, 2019, 50, 1531-1538.	2.0	5
27	Establishment of an Automated Algorithm Utilizing Optical Coherence Tomography and Micro-Computed Tomography Imaging to Reconstruct the 3-D Deformed Stent Geometry. IEEE Transactions on Medical Imaging, 2019, 38, 710-720.	8.9	5
28	Finite element and photoelastic modelling of an abdominal aortic aneurysm: a comparative study. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 1111-1119.	1.6	4
29	An Experimental Study of the Effects Anatomical Variations Have on Collateral Flows Within the Circle of Willis. , 2011, , .		3
30	NUMERICAL AND EXPERIMENTAL TECHNIQUES FOR THE STUDY OF BIOMECHANICS IN THE ARTERIAL SYSTEM. , 2007, , 233-270.		2
31	Evaluation of aortic arch aneurysms treated with the streamliner multilayer flow modulator. Italian Journal of Vascular and Endovascular Surgery, 2020, 27, .	1.0	2
32	Generation of Realistic Physical Models of Cerebral Aneurysms for In Vitro Flow Visualisation. , 2009, , .		1
33	Hybrid repair versus conventional open repair for thoracic aortic arch aneurysms. The Cochrane Library, 2018, , .	2.8	1
34	An in vitro assessment of atrial fibrillation flow types on cardiogenic emboli trajectory paths. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 1421-1431.	1.8	1
35	An in-vitro evaluation of the flow haemodynamic performance of Gore-Tex extracardiac conduits for univentricular circulation. Journal of Cardiothoracic Surgery, 2020, 15, 235.	1.1	1
36	An in vitro Assessment of the Haemodynamic Features Occurring Within the True and False Lumens Separated by a Dissection Flap for a Patient-Specific Type B Aortic Dissection. Frontiers in Cardiovascular Medicine, 2022, 9, 797829.	2.4	1

#	ARTICLE	IF	CITATIONS
37	CFD Challenge: Experimental Benchmarking Data for the Pressure Drop Across a Cerebral Aneurysm Model. , 2012, , .		0
38	Innovative Design and Manufacturing Techniques for Patient Specific Abdominal Aortic Aneurysm Flexible Benchtop Models. , 2013, , .		0
39	The Hemodynamic Influence due to the Inclusion of the Full Aorta on a Patient Specific Stent Graft (SG) Device. , 2012, , .		0