

# Simon Tupin

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

328  
citations

1163117

8  
h-index

888059

17  
g-index

26  
all docs

26  
docs citations

26  
times ranked

317  
citing authors

#	ARTICLE	IF	CITATIONS
1	What does computational fluid dynamics tell us about intracranial aneurysms? A meta-analysis and critical review. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1021-1039.	4.3	65
2	Physiologic blood flow is turbulent. <i>Scientific Reports</i> , 2020, 10, 15492.	3.3	50
3	Prediction of 3D Cardiovascular hemodynamics before and after coronary artery bypass surgery via deep learning. <i>Communications Biology</i> , 2021, 4, 99.	4.4	45
4	Evidence for non-Newtonian behavior of intracranial blood flow from Doppler ultrasonography measurements. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 1029-1036.	2.8	22
5	Epigenetic response of endothelial cells to different wall shear stress magnitudes: A report of new mechano- $\mu$ miRNAs. <i>Journal of Cellular Physiology</i> , 2020, 235, 7827-7839.	4.1	20
6	Effects of wall compliance on multiharmonic pulsatile flow in idealized cerebral aneurysm models: comparative PIV experiments. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	20
7	Rheological behaviour of reconstructed skin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 37, 251-263.	3.1	19
8	Mucoadhesion evaluation of polysaccharide gels for vaginal application by using rheological and indentation measurements. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 92, 168-174.	5.0	18
9	Implementation of computer simulation to assess flow diversion treatment outcomes: systematic review and meta-analysis. <i>Journal of NeuroInterventional Surgery</i> , 2021, 13, 164-170.	3.3	10
10	Development of a stereo dip-coating system for fabrication of tube-shaped blood vessel models. <i>Scientific Reports</i> , 2020, 10, 6929.	3.3	8
11	Ex vivo approach to studying bio-adhesive and tribological properties of artificial salivas for oral dryness (xerostomia). <i>Wear</i> , 2015, 332-333, 710-714.	3.1	7
12	Multiscale Approach to Characterize Mechanical Properties of Tissue Engineered Skin. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2851-2862.	2.5	7
13	Effects of Elasticity on Wall Shear Stress in Patient-Specific Aneurysm of Cerebral Artery. <i>Journal of Flow Control Measurement &amp; Visualization</i> , 2019, 07, 73-86.	0.1	7
14	Assessing Porous Media Permeability in Non-Darcy Flow: A Re-Evaluation Based on the Forchheimer Equation. <i>Materials</i> , 2020, 13, 2535.	2.9	4
15	Experimental Analysis of Pressure and Flow Alterations During and After Insertion of a Multilayer Flow Modulator into an AAA Model with Incorporated Branch. <i>CardioVascular and Interventional Radiology</i> , 2021, 44, 1251-1259.	2.0	4
16	Incomplete stent expansion in flow-diversion treatment affects aneurysmal haemodynamics: a quantitative comparison of treatments affected by different severities of malapposition occurring in different segments of the parent artery. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3465.	2.1	4
17	Multipoint pressure measurement in blood vessel model for evaluation of intravascular treatment of cerebral aneurysm using fiber-optic pressure sensors. , 2017, , .		3
18	Local internal pressure measurement system of cerebral aneurysm model using ultra-miniature fiber-optic pressure sensor. , 2017, , .		3

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19	Compliance Effect on the Flow Condition in Vascular In Vitro Experiments. , 2018, , .		3
20	A Parametric Study of Flushing Conditions for Improvement of Angioscopy Visibility. Journal of Functional Biomaterials, 2022, 13, 69.	4.4	3
21	Flush Flow Behaviour Affected by the Morphology of Intravascular Endoscope: A Numerical Simulation and Experimental Study. Frontiers in Physiology, 2021, 12, 733767.	2.8	2
22	Experimental Analysis for the Anisotropic Flows in Cancellous Bone. , 2017, , .		1
23	Association Between Aneurysmal Haemodynamics and Device Microstructural Characteristics After Flow-Diversion Treatments With Dual Stents of Different Sizes: A Numerical Study. Frontiers in Physiology, 2021, 12, 663668.	2.8	1
24	Cerebrovascular Model Equipped with Microsensors. IEEJ Transactions on Sensors and Micromachines, 2020, 140, 354-362.	0.1	1
25	Experimental Study of Collateral Patency following Overlapped Multilayer Flow Modulators Deployment. Fluids, 2022, 7, 220.	1.7	1
26	Development and Evaluation of PVA-H 3D Printed Blood Vessel Biomodels With Several Stiffness. , 2020, , .		0