

# Vanessa DÃ-az-Zuccarini

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

786  
citations

567281

15  
h-index

552781

26  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1031  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aortic dissection simulation models for clinical support: fluid-structure interaction vs. rigid wall models. <i>BioMedical Engineering OnLine</i> , 2015, 14, 34.	2.7	111
2	Development of a patient-specific simulation tool to analyse aortic dissections: Assessment of mixed patient-specific flow and pressure boundary conditions. <i>Medical Engineering and Physics</i> , 2014, 36, 275-284.	1.7	75
3	A vision and strategy for the virtual physiological human: 2012 update. <i>Interface Focus</i> , 2013, 3, 20130004.	3.0	74
4	Computational tools for clinical support: a multi-scale compliant model for haemodynamic simulations in an aortic dissection based on multi-modal imaging data. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170632.	3.4	63
5	Impaired LXR $\pm$ Phosphorylation Attenuates Progression of Fatty Liver Disease. <i>Cell Reports</i> , 2019, 26, 984-995.e6.	6.4	46
6	A simplified method to account for wall motion in patient-specific blood flow simulations of aortic dissection: Comparison with fluid-structure interaction. <i>Medical Engineering and Physics</i> , 2018, 58, 72-79.	1.7	37
7	Patient-specific haemodynamic simulations of complex aortic dissections informed by commonly available clinical datasets. <i>Medical Engineering and Physics</i> , 2019, 71, 45-55.	1.7	37
8	A Multiscale Model of Atherosclerotic Plaque Formation at Its Early Stage. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 3460-3463.	4.2	33
9	Patient-Specific, Multi-Scale Modeling of Neointimal Hyperplasia in Vein Grafts. <i>Frontiers in Physiology</i> , 2017, 8, 226.	2.8	26
10	A modeling and machine learning approach to ECG feature engineering for the detection of ischemia using pseudo-ECG. <i>PLoS ONE</i> , 2019, 14, e0220294.	2.5	23
11	A Combined In Vivo, In Vitro, In Silico Approach for Patient-Specific Haemodynamic Studies of Aortic Dissection. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2950-2964.	2.5	23
12	Development of a Patient-Specific Multi-Scale Model to Understand Atherosclerosis and Calcification Locations: Comparison with In vivo Data in an Aortic Dissection. <i>Frontiers in Physiology</i> , 2016, 7, 238.	2.8	22
13	A multiscale modelling approach to understand atherosclerosis formation: A patient-specific case study in the aortic bifurcation. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 378-390.	1.8	22
14	On the formalization of multi-scale and multi-science processes for integrative biology. <i>Interface Focus</i> , 2011, 1, 426-437.	3.0	20
15	Geometrical and Stress Analysis of Factors Associated With Stent Fracture After Melody Percutaneous Pulmonary Valve Implantation. <i>Circulation: Cardiovascular Interventions</i> , 2014, 7, 510-517.	3.9	17
16	A novel MRI-based data fusion methodology for efficient, personalised, compliant simulations of aortic haemodynamics. <i>Journal of Biomechanics</i> , 2021, 129, 110793.	2.1	17
17	Evaluation of the Hemodynamic Effectiveness of Aortic Dissection Treatments via Virtual Stenting. <i>International Journal of Artificial Organs</i> , 2014, 37, 753-762.	1.4	16
18	An in silico future for the engineering of functional tissues and organs. <i>Organogenesis</i> , 2010, 6, 245-251.	1.2	14

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19	Towards personalised management of atherosclerosis via computational models in vascular clinics: technology based on patient-specific simulation approach. <i>Healthcare Technology Letters</i> , 2014, 1, 13-18.	3.3	14
20	Investigating the physiology of normothermic ex vivo heart perfusion in an isolated slaughterhouse porcine model used for device testing and training. <i>BMC Cardiovascular Disorders</i> , 2019, 19, 254.	1.7	13
21	A Multiscale and Patient-specific Computational Framework of Atherosclerosis Formation and Progression: A Case Study in the Aorta and Peripheral Arteries. <i>Procedia Computer Science</i> , 2015, 51, 1118-1127.	2.0	12
22	Integrative approaches to computational biomedicine. <i>Interface Focus</i> , 2013, 3, 20130003.	3.0	10
23	Uncertainty assessment of imaging techniques for the 3D reconstruction of stent geometry. <i>Medical Engineering and Physics</i> , 2014, 36, 1062-1068.	1.7	10
24	Experimental evaluation of the patient-specific haemodynamics of an aortic dissection model using particle image velocimetry. <i>Journal of Biomechanics</i> , 2022, 134, 110963.	2.1	9
25	Multiscale, patient-specific computational fluid dynamics models predict formation of neointimal hyperplasia in saphenous vein grafts. <i>Journal of Vascular Surgery Cases and Innovative Techniques</i> , 2020, 6, 292-306.	0.6	7
26	Low-Cost Fabrication of Polyvinyl Alcohol-Based Personalized Vascular Phantoms for In Vitro Hemodynamic Studies: Three Applications. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2020, 3, .	0.5	7
27	Influence of an Arterial Stenosis on the Hemodynamics Within an Arteriovenous Fistula (AVF): Comparison Before and After Balloon-Angioplasty. <i>Cardiovascular Engineering and Technology</i> , 2014, 5, 233-243.	1.6	5
28	An in silico case study of idiopathic dilated cardiomyopathy via a multi-scale model of the cardiovascular system. <i>Computers in Biology and Medicine</i> , 2014, 53, 141-153.	7.0	5
29	An in silico study of the influence of vessel wall deformation on neointimal hyperplasia progression in peripheral bypass grafts. <i>Medical Engineering and Physics</i> , 2019, 74, 137-145.	1.7	4
30	Editorial: Mathematics for Healthcare as Part of Computational Medicine. <i>Frontiers in Physiology</i> , 2018, 9, 985.	2.8	2
31	Bridging Organ- and Cellular-Level Behavior in Ex Vivo Experimental Platforms Using Populations of Models of Cardiac Electrophysiology. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2018, 1, .	0.5	2
32	Computer assisted Doppler waveform analysis and ultrasound derived turbulence intensity ratios can predict early hyperplasia development in newly created vascular access fistula: Pilot study, methodology and analysis. <i>JRSM Cardiovascular Disease</i> , 2021, 10, 204800402110001.	0.7	2
33	A Computational Framework for Pre-Interventional Planning of Peripheral Arteriovenous Malformations. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 234-246.	1.6	2
34	Analysis of the Haemodynamic Factors Involved in Neointimal Hyperplasia Growth in Femoro-Popliteal Bypass Grafts Using Different Multi-scale, Patient-specific Modelling Approaches. <i>European Journal of Vascular and Endovascular Surgery</i> , 2018, 56, e19.	1.5	1
35	Virtual TEVAR: Overcoming the Roadblocks of In-Silico Tools for Aortic Dissection Treatment. <i>Theranostics</i> , 2018, 8, 6384-6385.	10.0	1
36	Stent Geometry Reconstruction Using Imaging Techniques1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2013, 7, .	0.7	0

#	ARTICLE	IF	CITATIONS
37	Special Issue - "Frontiers of Simulation and Experimentation for Personalised Cardiovascular Management and Treatment", Medical Engineering and Physics, 2021, 95, 117-118.	1.7	0