

Shervanthi Homer-Vanniasinkam

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36
papers

577
citations

14
h-index

23
g-index

48
ext. papers

794
ext. citations

4.6
avg, IF

4.34
L-index

#	Paper	IF	Citations
36	Diagnosis of Aortic Graft Infection: A Case Definition by the Management of Aortic Graft Infection Collaboration (MAGIC). <i>European Journal of Vascular and Endovascular Surgery</i> , 2016 , 52, 758-763	2.3	124
35	Current methodologies and approaches for the formation of core-sheath polymer fibers for biomedical applications. <i>Applied Physics Reviews</i> , 2020 , 7, 041302	17.3	45
34	Optical properties of tissue measured using terahertz-pulsed imaging 2003 ,		43
33	Paper-based potentiometric sensing of free bilirubin in blood serum. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 115-121	11.8	42
32	Delivery of mesenchymal stem cells in biomimetic engineered scaffolds promotes healing of diabetic ulcers. <i>Regenerative Medicine</i> , 2016 , 11, 245-60	2.5	40
31	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,	4.1	36
30	Generation of Core-Sheath Polymer Nanofibers by Pressurised Gyration. <i>Polymers</i> , 2020 , 12,	4.5	30
29	Novel pressurised gyration device for making core-sheath polymer fibres. <i>Materials and Design</i> , 2019 , 178, 107846	8.1	28
28	The continuing challenges of translational research: clinician-scientists perspective. <i>Cardiology Research and Practice</i> , 2012 , 2012, 246710	1.9	23
27	Patient-specific haemodynamic simulations of complex aortic dissections informed by commonly available clinical datasets. <i>Medical Engineering and Physics</i> , 2019 , 71, 45-55	2.4	21
26	Surface interactions and viability of coronaviruses. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20200798	4.98	21
25	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, 72-72	2.4	19
24	Latest developments in innovative manufacturing to combine nanotechnology with healthcare. <i>Nanomedicine</i> , 2018 , 13, 5-8	5.6	15
23	Compartmentalisation of the inflammatory response following aneurysmal subarachnoid haemorrhage. <i>Cytokine</i> , 2019 , 123, 154778	4	14
22	Fiber Formation from Silk Fibroin Using Pressurized Gyration. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800577	3.9	10
21	Affordable passive 3D-printed prosthesis for persons with partial hand amputation. <i>Prosthetics and Orthotics International</i> , 2020 , 44, 92-98	1.5	9
20	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	4.7	9

19	Co-Axial Gyro-Spinning of PCL/PVA/HA Core-Sheath Fibrous Scaffolds for Bone Tissue Engineering. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100177	5.5	9
18	High-resolution 3D printing for healthcare underpinned by small-scale fluidics 2017 , 167-206		8
17	Sizing the aortic annulus with a robotised, commercially available soft balloon catheter: in vitro study on idealised phantoms 2019 ,		4
16	Patient-Specific Aortic Phantom With Tunable Compliance. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2019 , 2,	1	4
15	Optical properties of tissue at terahertz frequencies 2003 , 5143, 59		3
14	Severe Acute Respiratory Syndrome Type 2-Causing Coronavirus: Variants and Preventive Strategies.. <i>Advanced Science</i> , 2022 , e2104495	13.6	3
13	Treatment of intra-abdominal and skin and soft tissue infections: the role of the glycylycylines. <i>International Journal of Surgery</i> , 2006 , 4, 45-52	7.5	2
12	Metal-based nanoparticles for combating antibiotic resistance. <i>Applied Physics Reviews</i> , 2021 , 8, 041303	17.3	2
11	Highly integrated workflows for exploring cardiovascular conditions: Exemplars of precision medicine in Alzheimer's disease and aortic dissection. <i>Morphologie</i> , 2019 , 103, 148-160	0.9	2
10	Towards a Modular Suturing Catheter for Minimally Invasive Vascular Surgery 2018 ,		2
9	163 Lox-1-specific affimers block oxLDL accumulation in vitro. <i>Heart</i> , 2017 , 103, A116-A117	5.1	1
8	Experimental evaluation of the patient-specific haemodynamics of an aortic dissection model using particle image velocimetry.. <i>Journal of Biomechanics</i> , 2022 , 134, 110963	2.9	1
7	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,	1	1
6	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	1.1	1
5	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	2.4	1
4	Soft robotic systems for endoscopic interventions 2022 , 61-93		0
3	Soft, stiffness-controllable sensing tip for on-demand force range adjustment with angled force direction identification. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	0
2	Ischaemic Preconditioning and Intermittent Clamping Does not Influence Mediators of Liver Regeneration in a Human Liver Sinusoidal Endothelial Cell Model of Ischaemia-Reperfusion Injury. <i>Gastroenterology Research</i> , 2012 , 5, 85-96	1.8	

1 An Expanding Foam-Fabric Orthopedic Cast. *Advanced Materials Technologies*,2101563

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