

# Shervanthi Homer-Vanniasinkam

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/590809/shervanthi-homer-vanniasinkam-publications-by-year.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Experimental evaluation of the patient-specific haemodynamics of an aortic dissection model using particle image velocimetry.. <i>Journal of Biomechanics</i> , <b>2022</b> , 134, 110963  | 2.9  | 1         |
| 35 | Soft robotic systems for endoscopic interventions <b>2022</b> , 61-93  |      | 0         |
| 34 | Severe Acute Respiratory Syndrome Type 2-Causing Coronavirus: Variants and Preventive Strategies.. <i>Advanced Science</i> , <b>2022</b> , e2104495  | 13.6 | 3         |
| 33 | Soft, stiffness-controllable sensing tip for on-demand force range adjustment with angled force direction identification. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1  | 4    | 0         |
| 32 | Metal-based nanoparticles for combating antibiotic resistance. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 041303  | 17.3 | 2         |
| 31 | Co-Axial Gyro-Spinning of PCL/PVA/HA Core-Sheath Fibrous Scaffolds for Bone Tissue Engineering. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100177  | 5.5  | 9         |
| 30 | Surface interactions and viability of coronaviruses. <i>Journal of the Royal Society Interface</i> , <b>2021</b> , 18, 20200798  | 7.98 | 21        |
| 29 | Affordable passive 3D-printed prosthesis for persons with partial hand amputation. <i>Prosthetics and Orthotics International</i> , <b>2020</b> , 44, 92-98  | 1.5  | 9         |
| 28 | 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> , <b>2020</b> , 3, | 1    | 1         |
| 27 | 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> , <b>2020</b> , 6, 292-306 | 1.1  | 1         |
| 26 | Current methodologies and approaches for the formation of core-sheath polymer fibers for biomedical applications. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 041302   | 17.3 | 45        |
| 25 | Generation of Core-Sheath Polymer Nanofibers by Pressurised Gyration. <i>Polymers</i> , <b>2020</b> , 12,  | 4.5  | 30        |
| 24 | A Combined In Vivo, In Vitro, In Silico Approach for Patient-Specific Haemodynamic Studies of Aortic Dissection. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2950-2964   | 4.7  | 9         |
| 23 | Sizing the aortic annulus with a robotised, commercially available soft balloon catheter: in vitro study on idealised phantoms <b>2019</b> ,   |      | 4         |
| 22 | Novel pressurised gyration device for making core-sheath polymer fibres. <i>Materials and Design</i> , <b>2019</b> , 178, 107846   | 8.1  | 28        |
| 21 | Fiber Formation from Silk Fibroin Using Pressurized Gyration. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1800577   | 3.9  | 10        |
| 20 | Compartmentalisation of the inflammatory response following aneurysmal subarachnoid haemorrhage. <i>Cytokine</i> , <b>2019</b> , 123, 154778   | 4    | 14        |

|    |  |      |     |
|----|--|------|-----|
| 19 | Patient-specific haemodynamic simulations of complex aortic dissections informed by commonly available clinical datasets. <i>Medical Engineering and Physics</i> , <b>2019</b> , 71, 45-55   | 2.4  | 21  |
| 18 | Patient-Specific Aortic Phantom With Tunable Compliance. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , <b>2019</b> , 2,   | 1    | 4   |
| 17 | Highly integrated workflows for exploring cardiovascular conditions: Exemplars of precision medicine in Alzheimer's disease and aortic dissection. <i>Morphologie</i> , <b>2019</b> , 103, 148-160   | 0.9  | 2   |
| 16 | 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> , <b>2019</b> , 74, 137-145   | 2.4  | 1   |
| 15 | Paper-based potentiometric sensing of free bilirubin in blood serum. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 126, 115-121   | 11.8 | 42  |
| 14 | Latest developments in innovative manufacturing to combine nanotechnology with healthcare. <i>Nanomedicine</i> , <b>2018</b> , 13, 5-8   | 5.6  | 15  |
| 13 | Towards a Modular Suturing Catheter for Minimally Invasive Vascular Surgery <b>2018</b> ,  |      | 2   |
| 12 | 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> , <b>2018</b> , 58, 72-72                        | 2.4  | 19  |
| 11 | 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> , <b>2017</b> , 14,                    | 4.1  | 36  |
| 10 | 163 Lox-1-specific affimers block oxLDL accumulation in vitro. <i>Heart</i> , <b>2017</b> , 103, A116-A117   | 5.1  | 1   |
| 9  | High-resolution 3D printing for healthcare underpinned by small-scale fluidics <b>2017</b> , 167-206   |      | 8   |
| 8  | Delivery of mesenchymal stem cells in biomimetic engineered scaffolds promotes healing of diabetic ulcers. <i>Regenerative Medicine</i> , <b>2016</b> , 11, 245-60   | 2.5  | 40  |
| 7  | 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> , <b>2016</b> , 52, 758-763                                   | 2.3  | 124 |
| 6  | The continuing challenges of translational research: clinician-scientists' perspective. <i>Cardiology Research and Practice</i> , <b>2012</b> , 2012, 246710   | 1.9  | 23  |
| 5  | 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> , <b>2012</b> , 5, 85-96 | 1.8  |     |
| 4  | Treatment of intra-abdominal and skin and soft tissue infections: the role of the glycolcyclines. <i>International Journal of Surgery</i> , <b>2006</b> , 4, 45-52   | 7.5  | 2   |
| 3  | Optical properties of tissue measured using terahertz-pulsed imaging <b>2003</b> ,   |      | 43  |
| 2  | Optical properties of tissue at terahertz frequencies <b>2003</b> , 5143, 59   |      | 3   |

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

6.8