

Raoul van Loon

List of Publications by Year in descending order

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32
papers

873
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567281

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477307

29
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34
all docs

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docs citations

34
times ranked

856
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Personalising cardiovascular network models in pregnancy: A two-tiered parameter estimation approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 37, e3267. | 2.1 | 13 |
| 2 | Mathematical Techniques for Circulatory Systems. , 2019, , 79-94. | | 2 |
| 3 | A data-driven model to study utero-ovarian blood flow physiology during pregnancy. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1155-1176. | 2.8 | 15 |
| 4 | Computational investigation of the Laplace law in compression therapy. <i>Journal of Biomechanics</i> , 2019, 85, 6-17. | 2.1 | 7 |
| 5 | A fully coupled fluid-structure interaction model of the secondary lymphatic valve. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018, 21, 813-823. | 1.6 | 10 |
| 6 | Investigation of Shape with Patients Suffering from Unilateral Lymphoedema. <i>Annals of Biomedical Engineering</i> , 2018, 46, 108-121. | 2.5 | 12 |
| 7 | Formulation of Generalized Mass Transfer Correlations for Blood Oxygenator Design. <i>Journal of Biomechanical Engineering</i> , 2017, 139, . | 1.3 | 12 |
| 8 | Integrated geometric and mechanical analysis of an image-based lymphatic valve. <i>Journal of Biomechanics</i> , 2017, 64, 172-179. | 2.1 | 6 |
| 9 | Three-dimensional computational model of a blood oxygenator reconstructed from micro-CT scans. <i>Medical Engineering and Physics</i> , 2017, 47, 190-197. | 1.7 | 14 |
| 10 | A novel method for non-invasively detecting the severity and location of aortic aneurysms. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1225-1242. | 2.8 | 28 |
| 11 | Data-driven modelling of the FRC network for studying the fluid flow in the conduit system. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 62, 341-349. | 8.1 | 17 |
| 12 | An implicit solver for 1D arterial network models. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2837. | 2.1 | 27 |
| 13 | Critical Issues in Modelling Lymph Node Physiology. <i>Computation</i> , 2017, 5, 3. | 2.0 | 10 |
| 14 | A comparative study of fractional step method in its quasi-implicit, semi-implicit and fully-explicit forms for incompressible flows. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016, 26, 595-623. | 2.8 | 23 |
| 15 | Pore-Scale Modeling of Non-Newtonian Shear-Thinning Fluids in Blood Oxygenator Design. <i>Journal of Biomechanical Engineering</i> , 2016, 138, 051001. | 1.3 | 7 |
| 16 | Determining the combined effect of the lymphatic valve leaflets and sinus on resistance to forward flow. <i>Journal of Biomechanics</i> , 2015, 48, 3584-3590. | 2.1 | 28 |
| 17 | An improved baseline model for a human arterial network to study the impact of aneurysms on pressure-flow waveforms. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012, 28, 1224-1246. | 2.1 | 30 |
| 18 | Influences of domain extensions to a moderately stenosed patient-specific carotid bifurcation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2011, 21, 952-979. | 2.8 | 7 |

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|----|--|-----|-----------|
| 19 | Patient-specific blood flow simulation through an aneurysmal thoracic aorta with a folded proximal neck. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011, 27, 1167-1184. | 2.1 | 14 |
| 20 | Modelling pipeline for subject-specific arterial blood flow – A review. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011, 27, 1868-1910. | 2.1 | 34 |
| 21 | Hydrodynamic Evaluation of a Bioreactor for Tissue Engineering Heart Valves. <i>Cardiovascular Engineering and Technology</i> , 2010, 1, 10-17. | 1.6 | 5 |
| 22 | Application of a locally conservative Galerkin (LCG) method for modelling blood flow through a patient-specific carotid bifurcation. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 64, 1274-1295. | 1.6 | 21 |
| 23 | Towards computational modelling of aortic stenosis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 405-420. | 2.1 | 34 |
| 24 | A comparison of fictitious domain methods appropriate for spectral/hp element discretisations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 2275-2289. | 6.6 | 36 |
| 25 | Comparison of various fluid-structure interaction methods for deformable bodies. <i>Computers and Structures</i> , 2007, 85, 833-843. | 4.4 | 124 |
| 26 | A fluid-structure interaction model of the aortic heart valve. <i>Journal of Biomechanics</i> , 2006, 39, S293. | 2.1 | 0 |
| 27 | A fluid-structure interaction method with solid-rigid contact for heart valve dynamics. <i>Journal of Computational Physics</i> , 2006, 217, 806-823. | 3.8 | 123 |
| 28 | A three-dimensional fluid-structure interaction method for heart valve modelling. <i>Comptes Rendus - Mecanique</i> , 2005, 333, 856-866. | 2.1 | 37 |
| 29 | A combined fictitious domain/adaptive meshing method for fluid-structure interaction in heart valves. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 46, 533-544. | 1.6 | 100 |
| 30 | Fluid-solid mixtures and electrochemomechanics: the simplicity of Lagrangian mixture theory. <i>Computational and Applied Mathematics</i> , 2004, 23, . | 1.3 | 1 |
| 31 | 3D FE implementation of an incompressible quadriphasic mixture model. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 57, 1243-1258. | 2.8 | 63 |
| 32 | DEVELOPING COMPUTATIONAL FLUID-STRUCTURE INTERACTION MODELS OF THE LYMPHATIC VALVE. , 0, , . | | 0 |