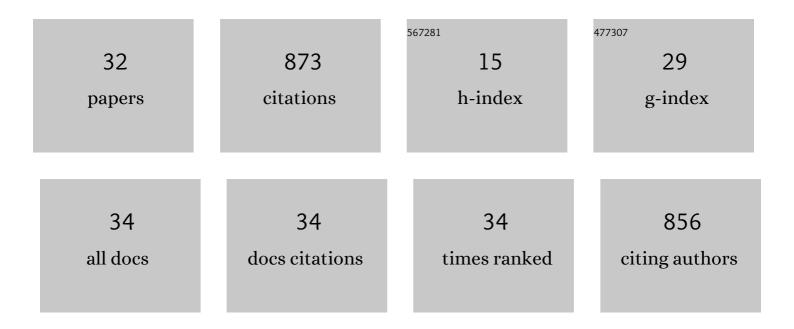
Raoul van Loon

List of Publications by Year in descending order

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

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