Toni Lassila

List of Publications by Year
in descending order

29	886	566801 15	552369 26
papers	citations	h-index	g-index

30	30	30	847
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In-silico trial of intracranial flow diverters replicates and expands insights from conventional clinical trials. Nature Communications, 2021, 12, 3861.	5.8	25
2	Populationâ€specific modelling of between/withinâ€subject flow variability in the carotid arteries of the elderly. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3271.	1.0	4
3	A computational model for prediction of clot platelet content in flow-diverted intracranial aneurysms. Journal of Biomechanics, 2019, 91, 7-13.	0.9	22
4	Fluidâ€“structure interaction for highly complex, statistically defined, biological media: Homogenisation and a 3D multi-compartmental poroelastic model for brain biomechanics. Journal of Fluids and Structures, 2019, 91, 102641.	1.5	24
5	Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. IEEE Transactions on Biomedical Engineering, 2018, 65, 1654-1661.	2.5	13
6	Subject-specific multi-poroelastic model for exploring the risk factors associated with the early stages of Alzheimer's disease. Interface Focus, 2018, 8, 20170019.	1.5	49
7	Integrated Heartâ€”Coupling multiscale and multiphysics models for the simulation of the cardiac function. Computer Methods in Applied Mechanics and Engineering, 2017, 314, 345-407.	3.4	179
8	Isogeometric approximation of cardiac electrophysiology models on surfaces: An accuracy study with application to the human left atrium. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 248-273.	3.4	28
9	Virtual endovascular treatment of intracranial aneurysms: models and uncertainty. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1385.	6.6	11
10	Uncertainty quantification of wall shear stress in intracranial aneurysms using a data-driven statistical model of systemic blood flow variability. Journal of Biomechanics, 2016, 49, 3815-3823.	0.9	22
11	Accurate Solution of Bayesian Inverse Uncertainty Quantification Problems Combining Reduced Basis Methods and Reduction Error Models. SIAM-ASA Journal on Uncertainty Quantification, 2016, 4, 380-412.	1.1	31
12	Direct Estimation of Wall Shear Stress from Aneurysmal Morphology: A Statistical Approach. Lecture Notes in Computer Science, 2016, , 201-209.	1.0	1
13	A coupled 3Dâ€“1D numerical monodomain solver for cardiac electrical activation in the myocardium with detailed Purkinje network. Journal of Computational Physics, 2016, 308, 218-238.	1.9	29
14	Protective Role of False Tendon in Subjects with Left Bundle Branch Block: A Virtual Population Study. PLoS ONE, 2016, 11, e0146477.	1.1	8
15	Electrophysiology Model for a Human Heart with Ischemic Scar and Realistic Purkinje Network. Lecture Notes in Computer Science, 2016, , 90-97.	1.0	1
16	Efficient Numerical Schemes for Computing Cardiac Electrical Activation over Realistic Purkinje Networks: Method and Verification. Lecture Notes in Computer Science, 2015, , 430-438.	1.0	2
17	Thermodynamically consistent orthotropic activation model capturing ventricular systolic wall thickening in cardiac electromechanics. European Journal of Mechanics, A/Solids, 2014, 48, 129-142.	2.1	82
18	Model Order Reduction in Fluid Dynamics: Challenges and Perspectives. , 2014, , 235-273.		72

#	Article	IF	Citations
19	A Reduced-Order Strategy for Solving Inverse Bayesian Shape Identification Problems in Physiological Flows. , 2014, , 145-155.		3
20	A reduced computational and geometrical framework for inverse problems in hemodynamics. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 741-776.	1.0	78
21	Boundary control and shape optimization for the robust design of bypass anastomoses under uncertainty. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 1107-1131.	0.8	22
22	Reduction Strategies for Shape Dependent Inverse Problems in Haemodynamics. International Federation for Information Processing, 2013, , 397-406.	0.4	1
23	Generalized Reduced Basis Methods and n-Width Estimates for the Approximation of the Solution Manifold of Parametric PDEs. Springer INdAM Series, 2013, , 307-329.	0.4	14
24	A Reduced Basis Model with Parametric Coupling for Fluid-Structure Interaction Problems. SIAM Journal of Scientific Computing, 2012, 34, A1187-A1213.	1.3	25
25	On the approximation of stability factors for general parametrized partial differential equations with a two-level affine decomposition. ESAIM: Mathematical Modelling and Numerical Analysis, 2012, 46, 1555-1576.	0.8	15
26	Model reduction of semiaffinely parameterized partial differential equations by two-level affine approximation. Comptes Rendus Mathematique, 2011, 349, 61-66.	0.1	3
27	Parametric free-form shape design with PDE models and reduced basis method. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1583-1592.	3.4	101
28	Optimal damping of a membrane and topological shape optimization. Structural and Multidisciplinary Optimization, 2009, 38, 43-52.	1.7	8
29	Optimization of Convex Shapes: An Approach to Crystal Shape Identification. Lecture Notes in Computer Science, 2009, , 660-671.	1.0	0