Peter Balogh

List of Publications by Year
in descending order

11 papers	380 citations	1039406 9 h-index	1281420 11 g-index
11 all docs	11 docs citations	11 times ranked	373 citing authors

#	Article	IF	Citations
1	A computational approach to modeling cellular-scale blood flow in complex geometry. Journal of Computational Physics, 2017, 334, 280-307.	1.9	76
2	Analysis of red blood cell partitioning at bifurcations in simulated microvascular networks. Physics of Fluids, 2018, 30, .	1.6	71
3	Direct Numerical Simulation of Cellular-Scale Blood Flow in 3D Microvascular Networks. Biophysical Journal, 2017, 113, 2815-2826.	0.2	65
4	Flow of Red Blood Cells in Stenosed Microvessels. Scientific Reports, 2016, 6, 28194.	1.6	44
5	Threeâ€dimensional distribution of wall shear stress and its gradient in red cellâ€resolved computational modeling of blood flow in inÂvivoâ€like microvascular networks. Physiological Reports, 2019, 7, e14067.	0.7	32
6	Multi-GPU immersed boundary method hemodynamics simulations. Journal of Computational Science, 2020, 44, 101153.	1.5	29
7	The cell-free layer in simulated microvascular networks. Journal of Fluid Mechanics, 2019, 864, 768-806.	1.4	26
8	A data-driven approach to modeling cancer cell mechanics during microcirculatory transport. Scientific Reports, 2021, 11, 15232.	1.6	13
9	Motion of a capsule in a curved tube. Journal of Fluid Mechanics, 2021, 907, .	1.4	10
10	Investigating the Interaction Between Circulating Tumor Cells and Local Hydrodynamics via Experiment and Simulations. Cellular and Molecular Bioengineering, 2020, 13, 527-540.	1.0	9
11	Computational models of cancer cell transport through the microcirculation. Biomechanics and Modeling in Mechanobiology, 2021, 20, 1209-1230.	1.4	5