

# Analysis of red blood cell partitioning at bifurcations in networks

Physics of Fluids

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Antimargination of Microparticles and Platelets in the Vicinity of Branching Vessels. <i>Biophysical Journal</i> , 2018, 115, 411-425.	0.2	28
2	A unified analysis of nano-to-microscale particle dispersion in tubular blood flow. <i>Physics of Fluids</i> , 2019, 31, 081903.	1.6	11
3	Three-dimensional distribution of wall shear stress and its gradient in red cell-resolved computational modeling of blood flow in in vivo-like microvascular networks. <i>Physiological Reports</i> , 2019, 7, e14067.	0.7	32
4	Small Vessels Are a Big Problem in Neurodegeneration and Neuroprotection. <i>Frontiers in Neurology</i> , 2019, 10, 889.	1.1	42
5	Fluid dynamics of oscillatory flow in three-dimensional branching networks. <i>Physics of Fluids</i> , 2019, 31, 063601.	1.6	16
6	Red blood cell distribution in a microvascular network with successive bifurcations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1821-1835.	1.4	19
7	Deformation and rupture of compound cells under shear: A discrete multiphysics study. <i>Physics of Fluids</i> , 2019, 31, .	1.6	27
8	Oscillating droplet trains in microfluidic networks and their suppression in blood flow. <i>Nature Physics</i> , 2019, 15, 706-713.	6.5	30
9	Boundary integral simulations of a red blood cell squeezing through a submicron slit under prescribed inlet and outlet pressures. <i>Physics of Fluids</i> , 2019, 31, .	1.6	42
10	Red blood cell and platelet diffusivity and margination in the presence of cross-stream gradients in blood flows. <i>Physics of Fluids</i> , 2019, 31, .	1.6	34
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12	The cell-free layer in simulated microvascular networks. <i>Journal of Fluid Mechanics</i> , 2019, 864, 768-806.	1.4	26
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14	Study of the Partitioning of Red Blood Cells Through Asymmetric Bifurcating Microchannels. <i>Journal of Medical and Biological Engineering</i> , 2020, 40, 53-61.	1.0	4
15	Parallel modeling of cell suspension flow in complex micro-networks with inflow/outflow boundary conditions. <i>Journal of Computational Physics</i> , 2020, 401, 109031.	1.9	24
16	<i>In vitro</i> investigations of red blood cell phase separation in a complex microchannel network. <i>Biomicrofluidics</i> , 2020, 14, 014101.	1.2	32
17	Deformation and sorting of capsules in a T-junction. <i>Journal of Fluid Mechanics</i> , 2020, 885, .	1.4	12
18	Local vs. Global Blood Flow Modulation in Artificial Microvascular Networks: Effects on Red Blood Cell Distribution and Partitioning. <i>Frontiers in Physiology</i> , 2020, 11, 566273.	1.3	12

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19	Heterogeneous partition of cellular blood-borne nanoparticles through microvascular bifurcations. <i>Physical Review E</i> , 2020, 102, 013310.	0.8	16
20	Investigating the Interaction Between Circulating Tumor Cells and Local Hydrodynamics via Experiment and Simulations. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 527-540.	1.0	9
21	Computational Modeling of Blood Flow with Rare Cell in a Microbifurcation. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2020, , 518-525.	0.5	1
22	Dynamic capillary stalls in reperfused ischemic penumbra contribute to injury: A hyperacute role for neutrophils in persistent traffic jams. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 236-252.	2.4	73
23	Computational fluid dynamicâ€“discrete element method coupling analysis of particle transport in branched networks. <i>Particuology</i> , 2021, 55, 140-150.	2.0	5
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29	Fully implicit spectral boundary integral computation of red blood cell flow. <i>Physics of Fluids</i> , 2021, 33, .	1.6	4
30	Effect of pulse width on the dynamics of a deflated vesicle in unipolar and bipolar pulsed electric fields. <i>Physics of Fluids</i> , 2021, 33, 081905.	1.6	1
32	Effects of artery size on the hydrodynamic diffusivity of red cells and other contained particles. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	3
33	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. <i>PLoS Computational Biology</i> , 2020, 16, e1008249.	1.5	15
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40	A few upstream bifurcations drive the spatial distribution of red blood cells in model microfluidic networks. <i>Soft Matter</i> , 2022, 18, 1463-1478.	1.2	13
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42	A computational study of red blood cell deformability effect on hemodynamic alteration in capillary vessel networks. <i>Scientific Reports</i> , 2022, 12, 4304.	1.6	26
43	Continuum microhaemodynamics modelling using inverse rheology. <i>Biomechanics and Modeling in Mechanobiology</i> , 2022, 21, 335-361.	1.4	4
45	Direct simulation of blood flow with heterogeneous cell suspensions in a patient-specific capillary network. <i>Physics of Fluids</i> , 2022, 34, 041912.	1.6	4
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57	Temporal-spatial heterogeneity of hematocrit in microvascular networks. <i>Physics of Fluids</i> , 2023, 35, .	1.6	6
58	Measuring red blood cell shape in the human retina. <i>Optics Letters</i> , 2023, 48, 1554.	1.7	2
59	Red blood cell lingering modulates hematocrit distribution in the microcirculation. <i>Biophysical Journal</i> , 2023, 122, 1526-1537.	0.2	5