

Ivan Cimrňk

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

120
citations

1478505

6
h-index

1474206

9
g-index

25
all docs

25
docs citations

25
times ranked

67
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Study of Inertial Flows in Helical Microchannels. Applied Sciences (Switzerland), 2022, 12, 3859.	2.5	0
2	Modelling of Arbitrary Shaped Channels and Obstacles by Distance Function. Lecture Notes in Computer Science, 2022, , 28-41.	1.3	1
3	Contact area of cell cluster in a simple bifurcation. , 2022, , .		1
4	Computational study of red blood cell behaviour in shear flow for different bending stiffness of the membrane. , 2021, , .		0
5	Modeling Red Blood Cell Viscosity Contrast Using Inner Soft Particle Suspension. Micromachines, 2021, 12, 974.	2.9	3
6	Spring network model of red blood cell: From membrane mechanics to validation. International Journal for Numerical Methods in Fluids, 2020, 92, 1368-1393.	1.6	14
7	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. PLoS Computational Biology, 2020, 16, e1008249.	3.2	15
8	Proof-of-concept model of red blood cell with coarse-grained hemoglobin. , 2020, , .		0
9	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0
10	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0
11	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0
12	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0
13	Cell Damage Index as Computational Indicator for Blood Cell Activation and Damage. Artificial Organs, 2018, 42, 746-755.	1.9	12
14	Effect of dissipative coupling parameter in a computational model on the inclination angle of red blood cells in a shear flow. , 2018, , .		3
15	Dissipative Coupling of Fluid and Immersed Objects for Modelling of Cells in Flow. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-11.	1.3	11
16	Dynamical properties of red blood cell model in shear flow. , 2017, , .		2
17	The calibration of fluid-object interaction in immersed boundary method. EPJ Web of Conferences, 2017, 143, 02013.	0.3	6
18	Simulation study of rare cell trajectories and capture rate in periodic obstacle arrays. Journal of Computational Science, 2016, 17, 370-376.	2.9	11

#	ARTICLE	IF	CITATIONS
19	Collision rates for rare cell capture in periodic obstacle arrays strongly depend on density of cell suspension. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1525-1530.	1.6	6
20	Non-uniform force allocation for area preservation in spring network models. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02757.	2.1	5
21	Recent advances in mesh-based modeling of individual cells in biological fluids. , 2014, , .		3
22	Energy contributions of different elastic moduli in mesh-based modeling of deformable objects. , 2014, , .		4
23	Mixed Tikhonov regularization in Banach spaces based on domain decomposition. Applied Mathematics and Computation, 2012, 218, 11583-11596.	2.2	4
24	Computational Blood Cell Mechanics. , 0, , .		18