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List of Publications by Year
in descending order

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22 papers	183 citations	1478505 6 h-index	1125743 13 g-index
23 all docs	23 docs citations	23 times ranked	91 citing authors

#	Article	IF	Citations
1	Contact area of cell cluster in a simple bifurcation. , 2022, , .		1
2	Modeling Red Blood Cell Viscosity Contrast Using Inner Soft Particle Suspension. Micromachines, 2021, 12, 974.	2.9	3
3	Applications of machine learning for simulations of red blood cells in microfluidic devices. BMC Bioinformatics, 2020, 21, 90.	2.6	13
4	Springâ€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
5	Computational Modeling of Blood Flow with Rare Cell in a Microbifurcation. Lecture Notes in Computational Vision and Biomechanics, 2020, , 518-525.	0.5	1
6	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. PLoS Computational Biology, 2020, 16, e1008249.	3.2	15
7	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0
8	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		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	Cell Damage Index as Computational Indicator for Blood Cell Activation and Damage. Artificial Organs, 2018, 42, 746-755.	1.9	12
12	Sensing Platform for Computational and Experimental Analysis of Blood Cell Mechanical Stress and Activation in Microfluidics. Procedia Engineering, 2016, 168, 1390-1393.	1.2	6
13	Simulation study of rare cell trajectories and capture rate in periodic obstacle arrays. Journal of Computational Science, 2016, 17, 370-376.	2.9	11
14	Nonâ€uniform force allocation for area preservation in spring network models. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02757.	2.1	5
15	Mesh-Based Modeling of Individual Cells and Their Dynamics in Biological Fluids. Studies in Computational Intelligence, 2016, , 1-28.	0.9	1
16	Object-In-Fluid Framework in Modeling of Blood Flow in Microfluidic Channels. Communications - Scientific Letters of the University of Zilina, 2016, 18, 13-20.	0.6	6
17	Calibration of elastic coefficients for spring-network model of red blood cell. , 2015, , .		11
18	A novel approach with non-uniform force allocation for area preservation in spring network	0.4	4

#	ARTICLE	IF	CITATIONS
19	Recent advances in mesh-based modeling of individual cells in biological fluids. , 2014, , .		3
20	An ESPResSo Âimplementation of elastic objects immersed in a fluid. Computer Physics Communications, 2014, 185, 900-907.	7.5	63
21	Energy contributions of different elastic moduli in mesh-based modeling of deformable objects. , 2014, , .		4
22	Scalability of forces in mesh-based models of elastic objects. , 2014, , .		9