

Iveta Janáčková

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

183
citations

1478505

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h-index

1125743

13
g-index

23
all docs

23
docs citations

23
times ranked

91
citing authors

#	ARTICLE	IF	CITATIONS
1	An ESPResSo Â implementation of elastic objects immersed in a fluid. Computer Physics Communications, 2014, 185, 900-907.	7.5	63
2	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. PLoS Computational Biology, 2020, 16, e1008249.	3.2	15
3	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
4	Applications of machine learning for simulations of red blood cells in microfluidic devices. BMC Bioinformatics, 2020, 21, 90.	2.6	13
5	Cell Damage Index as Computational Indicator for Blood Cell Activation and Damage. Artificial Organs, 2018, 42, 746-755.	1.9	12
6	Calibration of elastic coefficients for spring-network model of red blood cell. , 2015, , .		11
7	Simulation study of rare cell trajectories and capture rate in periodic obstacle arrays. Journal of Computational Science, 2016, 17, 370-376.	2.9	11
8	Scalability of forces in mesh-based models of elastic objects. , 2014, , .		9
9	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
10	Object-In-Fluid Framework in Modeling of Blood Flow in Microfluidic Channels. Communications - Scientific Letters of the University of Žilina, 2016, 18, 13-20.	0.6	6
11	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
12	Energy contributions of different elastic moduli in mesh-based modeling of deformable objects. , 2014, , .		4
13	A novel approach with non-uniform force allocation for area preservation in spring network	0.4	4
14	Recent advances in mesh-based modeling of individual cells in biological fluids. , 2014, , .		3
15	Modeling Red Blood Cell Viscosity Contrast Using Inner Soft Particle Suspension. Micromachines, 2021, 12, 974.	2.9	3
16	Computational Modeling of Blood Flow with Rare Cell in a Microbifurcation. Lecture Notes in Computational Vision and Biomechanics, 2020, , 518-525.	0.5	1
17	Mesh-Based Modeling of Individual Cells and Their Dynamics in Biological Fluids. Studies in Computational Intelligence, 2016, , 1-28.	0.9	1
18	Contact area of cell cluster in a simple bifurcation. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
19	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0
20	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0
21	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0
22	PyOIF: Computational tool for modelling of multi-cell flows in complex geometries. , 2020, 16, e1008249.		0