He Li

List of Publications by Year
in descending order

32 papers	1,068 citations	430874 18 h-index	501196 28 g-index
32 all docs	32 docs citations	32 times ranked	950 citing authors

#	Article	IF	Citations
1	Recent Advances in Computational Modeling of Biomechanics and Biorheology of Red Blood Cells in Diabetes. Biomimetics, 2022, 7, 15.	3.3	6
2	Computational investigation of blood cell transport in retinal microaneurysms. PLoS Computational Biology, 2022, 18, e1009728.	3.2	13
3	Multiphysics and multiscale modeling of microthrombosis in COVID-19. PLoS Computational Biology, 2022, 18, e1009892.	3.2	15
4	A new technique of laparoscopic para-aortic lymphadenectomy optimizes perioperative outcome. Journal of Gynecologic Oncology, 2021, 32, e2.	2.2	4
5	Integrating blood cell mechanics, platelet adhesive dynamics and coagulation cascade for modelling thrombus formation in normal and diabetic blood. Journal of the Royal Society Interface, 2021, 18, 20200834.	3.4	44
6	Artificial intelligence velocimetry and microaneurysm-on-a-chip for three-dimensional analysis of blood flow in physiology and disease. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	50
7	Computational modeling of biomechanics andÂbiorheology of heated red blood cells. Biophysical Journal, 2021, 120, 4663-4671.	0.5	12
8	How the spleen reshapes and retains young and old red blood cells: A computational investigation. PLoS Computational Biology, 2021, 17, e1009516.	3.2	22
9	Predictive modelling of thrombus formation in diabetic retinal microaneurysms. Royal Society Open Science, 2020, 7, 201102.	2.4	19
10	A three-dimensional phase-field model for multiscale modeling of thrombus biomechanics in blood vessels. PLoS Computational Biology, 2020, 16, e1007709.	3.2	51
11	Title is missing!. , 2020, 16, e1007709.		0
12	Title is missing!. , 2020, 16, e1007709.		0
13	Title is missing!. , 2020, 16, e1007709.		0
14	Title is missing!. , 2020, 16, e1007709.		0
15	Quantitative prediction of erythrocyte sickling for the development of advanced sickle cell therapies. Science Advances, 2019, 5, eaax3905.	10.3	18
16	Data-driven Modeling of Hemodynamics and its Role on Thrombus Size and Shape in Aortic Dissections. Scientific Reports, 2018, 8, 2515.	3.3	23
17	Cytoskeleton Remodeling Induces Membrane Stiffness and Stability Changes of Maturing Reticulocytes. Biophysical Journal, 2018, 114, 2014-2023.	0.5	46
18	Mechanics of diseased red blood cells in human spleen and consequences for hereditary blood disorders. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9574-9579.	7.1	93

#	Article	IF	Citations
19	Understanding the Twisted Structure of Amyloid Fibrils via Molecular Simulations. Journal of Physical Chemistry B, 2018, 122, 11302-11310.	2.6	6
20	Synergistic Integration of Laboratory and Numerical Approaches in Studies of the Biomechanics of Diseased Red Blood Cells. Biosensors, 2018, 8, 76.	4.7	16
21	Computational Biomechanics of Human Red Blood Cells in Hematological Disorders. Journal of Biomechanical Engineering, 2017, 139, .	1.3	46
22	OpenRBC: A Fast Simulator of Red Blood Cells atÂProtein Resolution. Biophysical Journal, 2017, 112, 2030-2037.	0.5	47
23	Mesoscopic Adaptive Resolution Scheme toward Understanding of Interactions between Sickle Cell Fibers. Biophysical Journal, 2017, 113, 48-59.	0.5	16
24	A General Shear-Dependent Model for Thrombus Formation. PLoS Computational Biology, 2017, 13, e1005291.	3.2	104
25	Modeling of the axon membrane skeleton structure and implications for its mechanical properties. PLoS Computational Biology, 2017, 13, e1005407.	3.2	73
26	Modeling of band-3 protein diffusion in the normal and defective red blood cell membrane. Soft Matter, 2016, 12, 3643-3653.	2.7	25
27	MD/DPD Multiscale Framework for Predicting Morphology and Stresses of Red Blood Cells in Health and Disease. PLoS Computational Biology, 2016, 12, e1005173.	3.2	51
28	Vesiculation of healthy and defective red blood cells. Physical Review E, 2015, 92, 012715.	2.1	44
29	Erythrocyte Membrane Model with Explicit Description of the Lipid Bilayer and the Spectrin Network. Biophysical Journal, 2014, 107, 642-653.	0.5	106
30	Two-Component Coarse-Grained Molecular-Dynamics Model for the Human Erythrocyte Membrane. Biophysical Journal, 2012, 102, 75-84.	0.5	63
31	Modeling sickle hemoglobin fibers as one chain of coarse-grained particles. Journal of Biomechanics, 2012, 45, 1947-1951.	2.1	26
32	A coarse-grain molecular dynamics model for sickle hemoglobin fibers. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 162-173.	3.1	29