

John P Gounley

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

794
citations

9
h-index

28
g-index

36
ext. papers

1,117
ext. citations

5
avg, IF

4.22
L-index

#	Paper	IF	Citations
31	Automating Genetic Algorithm Mutations for Molecules Using a Masked Language Model. <i>IEEE Transactions on Evolutionary Computation</i> , 2022 , 1-1	15.6	1
30	Propagation pattern for moment representation of the lattice Boltzmann method.. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2022 , 33, 642-653	3.7	1
29	Non-invasive characterization of complex coronary lesions. <i>Scientific Reports</i> , 2021 , 11, 8145	4.9	6
28	A data-driven approach to modeling cancer cell mechanics during microcirculatory transport. <i>Scientific Reports</i> , 2021 , 11, 15232	4.9	1
27	Limitations of Transformers on Clinical Text Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 3596-3607	7.2	15
26	Multi-GPU Immersed Boundary Method Hemodynamics Simulations. <i>Journal of Computational Science</i> , 2020 , 44, 101153-101153	3.4	8
25	Accelerating massively parallel hemodynamic models of coarctation of the aorta using neural networks. <i>Scientific Reports</i> , 2020 , 10, 9508	4.9	11
24	Localization of Rolling and Firm-Adhesive Interactions Between Circulating Tumor Cells and the Microvasculature Wall. <i>Cellular and Molecular Bioengineering</i> , 2020 , 13, 141-154	3.9	9
23	Evaluating the Influence of Hemorheological Parameters on Circulating Tumor Cell Trajectory and Simulation Time 2020 ,		2
22	Accelerated training of bootstrap aggregation-based deep information extraction systems from cancer pathology reports. <i>Journal of Biomedical Informatics</i> , 2020 , 110, 103564	10.2	5
21	Determining the impacts of venoarterial extracorporeal membrane oxygenation on cerebral oxygenation using a one-dimensional blood flow simulator. <i>Journal of Biomechanics</i> , 2020 , 104, 109707	2.9	5
20	The importance of side branches in modeling 3D hemodynamics from angiograms for patients with coronary artery disease. <i>Scientific Reports</i> , 2019 , 9, 8854	4.9	18
19	Immersed Boundary Method Halo Exchange in a Hemodynamics Application. <i>Lecture Notes in Computer Science</i> , 2019 , 441-455	0.9	6
18	Multivascular networks and functional intravascular topologies within biocompatible hydrogels. <i>Science</i> , 2019 , 364, 458-464	33.3	557
17	Suitability of lattice Boltzmann inlet and outlet boundary conditions for simulating flow in image-derived vasculature. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019 , 35, e3198	2.6	8
16	Performance portability study for massively parallel computational fluid dynamics application on scalable heterogeneous architectures. <i>Journal of Parallel and Distributed Computing</i> , 2019 , 129, 1-13	4.4	7
15	A Framework for Comparing Vascular Hemodynamics at Different Points in Time. <i>Computer Physics Communications</i> , 2019 , 235, 1-8	4.2	5

14	Hemodynamic and morphological characteristics of a growing cerebral aneurysm. <i>Neurosurgical Focus</i> , 2019 , 47, E13	4.2	11
13	Investigating the Role of VR in a Simulation-Based Medical Planning System for Coronary Interventions. <i>Lecture Notes in Computer Science</i> , 2019 , 366-374	0.9	0
12	2019 ,		1
11	Moment representation in the lattice Boltzmann method on massively parallel hardware 2019 ,		4
10	Model-based Hyperparameter Optimization of Convolutional Neural Networks for Information Extraction from Cancer Pathology Reports on HPC 2019 ,		3
9	Computing the ankle-brachial index with parallel computational fluid dynamics. <i>Journal of Biomechanics</i> , 2019 , 82, 28-37	2.9	5
8	A Computational Framework to Assess the Influence of Changes in Vascular Geometry on Blood Flow 2017 ,		4
7	Numerical simulation of a compound capsule in a constricted microchannel. <i>Procedia Computer Science</i> , 2017 , 108, 175-184	1.6	20
6	Does the degree of coarctation of the aorta influence wall shear stress focal heterogeneity?. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 3429-3432	0.9	12
5	Influence of surface viscosity on droplets in shear flow. <i>Journal of Fluid Mechanics</i> , 2016 , 791, 464-494	3.7	44
4	Computational Modeling of Membrane Viscosity of Red Blood Cells. <i>Communications in Computational Physics</i> , 2015 , 17, 1073-1087	2.4	12
3	Response and Recovery Times of Elastic and Viscoelastic Capsules in Shear Flow. <i>Communications in Computational Physics</i> , 2015 , 17, 1151-1168	2.4	3
2	Shape Recovery of Elastic Capsules from Shear Flow Induced Deformation. <i>Communications in Computational Physics</i> , 2014 , 16, 56-74	2.4	4
1	Distinct Structural Flexibility within SARS-CoV-2 Spike Protein Reveals Potential Therapeutic Targets		4