Rafael Sachetto Oliveira

List of Publications by Year
in descending order

40 papers	436 citations	1039406 9 h-index	839053 18 g-index
43 all docs	43 docs citations	43 times ranked	507 citing authors

#	Article	IF	Citations
1	Genomic Resources for Salminus brasiliensis. Frontiers in Genetics, 2022, 13, 855718.	1.1	0
2	Timing the race of vaccination, new variants, and relaxing restrictions during COVID-19 pandemic. Journal of Computational Science, 2022, 61, 101660.	1.5	12
3	Characterisation of Omicron Variant during COVID-19 Pandemic and the Impact of Vaccination, Transmission Rate, Mortality, and Reinfection in South Africa, Germany, and Brazil. BioTech, 2022, 11, 12.	1.3	23
4	The Quixotic Task of Forecasting Peaks of COVID-19: Rather Focus on Forward and Backward Projections. Frontiers in Public Health, 2021, 9, 623521.	1.3	7
5	Diversification of *Prochilodus* in the eastern Brazilian Shield: Evidence from complete mitochondrial genomes (Teleostei, Prochilodontidae). Journal of Zoological Systematics and Evolutionary Research, 2021, 59, 1053-1063.	0.6	8
6	Calibration of single-cell model parameters based on membrane resistance improves the accuracy of cardiac tissue simulations. Journal of Computational Science, 2021, 53, 101375.	1.5	1
7	Functional DNA annotation from a preliminary de novo genome assembly of Brycon orbignyanus, an endangered Neotropical migratory fish. Latin American Data in Science, 2021, 1, 42-48.	0.2	0
8	Use of software to guide the management of intraoperative hemodynamic instability. Brazilian Journal of Anesthesiology (Elsevier), 2021, , .	0.2	1
9	Adaptive-step methods for Markov-based membrane models. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105249.	1.7	6
10	Variability in electrophysiological properties and conducting obstacles controls re-entry risk in heterogeneous ischaemic tissue. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190341.	1.6	6
11	Performance evaluation of GPU parallelization, space–time adaptive algorithms, and their combination for simulating cardiac electrophysiology. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2913.	1.0	32
12	Ectopic beats arise from micro-reentries near infarct regions in simulations of a patient-specific heart model. Scientific Reports, 2018, 8, 16392.	1.6	32
13	Killing Many Birds With Two Stones: Hypoxia and Fibrosis Can Generate Ectopic Beats in a Human Ventricular Model. Frontiers in Physiology, 2018, 9, 764.	1.3	15
14	Evaluating Dynamic Scheduling of Tasks in Mobile Architectures Using ParallelME Framework. Lecture Notes in Computer Science, 2018, , 744-751.	1.0	1
15	A broad genomic panel of microsatellite loci from Brycon orbignyanus (Characiformes: Bryconidae) an endangered migratory Neotropical fish. Scientific Reports, 2018, 8, 8511.	1.6	9
16	A Framework for Direct and Transparent Data Exchange of Filter-stream Applications in Multi-GPUs Architectures. Procedia Computer Science, 2017, 108, 1642-1651.	1.2	0
17	Evaluate of collaborative transit system to urban goods delivery: an exploratory study in Belo Horizonte (Brazil). Transportation Research Procedia, 2017, 25, 928-941.	0.8	3
18	First complete mitochondrial genome for any anostomid fish: *Leporinus piavussu*, a recently described piracema species. Mitochondrial DNA, 2016, 27, 1-2.	0.6	1

#	Article	IF	Citations
19	Improving the Performance of Cardiac Simulations in a Multi-GPU Architecture Using a Coalesced Data and Kernel Scheme. Lecture Notes in Computer Science, 2016, , 546-553.	1.0	0
20	Hierarchical Density-Based Clustering Based on GPU Accelerated Data Indexing Strategy. Procedia Computer Science, 2016, 80, 951-961.	1.2	8
21	Lattice Boltzmann method for parallel simulations of cardiac electrophysiology using GPUs. Journal of Computational and Applied Mathematics, 2016, 295, 70-82.	1.1	22
22	Reactive Interstitial and Reparative Fibrosis as Substrates for Cardiac Ectopic Pacemakers and Reentries. Lecture Notes in Computer Science, 2016, , 346-357.	1.0	1
23	G-KNN. , 2015, , .		5
24	Efficient dynamic scheduling of heterogeneous applications in hybrid architectures. , 2014, , .		1
25	G-DBSCAN: A GPU Accelerated Algorithm for Density-based Clustering. Procedia Computer Science, 2013, 18, 369-378.	1.2	106
26	Simulations of Complex and Microscopic Models of Cardiac Electrophysiology Powered by Multi-GPU Platforms. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-13.	0.7	15
27	HASCH: High Performance Automatic Spell Checker for Portuguese Texts from the Web. Procedia Computer Science, 2012, 9, 403-411.	1.2	7
28	Comparing CUDA, OpenCL and OpenGL Implementations of the Cardiac Monodomain Equations. Lecture Notes in Computer Science, 2012, , 111-120.	1.0	9
29	A parallel accelerated adaptive mesh algorithm for the solution of electrical models of the heart. International Journal of High Performance Systems Architecture, 2012, 4, 89.	0.2	4
30	An Adaptive Mesh Algorithm for the Numerical Solution of Electrical Models of the Heart. Lecture Notes in Computer Science, 2012, , 649-664.	1.0	2
31	Data Flow Frameworks for Emerging Heterogeneous Architectures and Their Application to Biomedicine. Chapman & Hall/CRC Computational Science, 2010, , 375-392.	0.5	0
32	Profiling General Purpose GPU Applications. , 2009, , .		11
33	Multi-Level Parallelism for the Cardiac Bidomain Equations. International Journal of Parallel Programming, 2009, 37, 572-592.	1.1	5
34	Exploiting Computational Resources in Distributed Heterogeneous Platforms. , 2009, , .		4
35	Coordinating the use of GPU and CPU for improving performance of compute intensive applications. , 2009, , .		59
36	Multi-level Parallelism in the Computational Modeling of the Heart. , 2007, , .		3

#	Article	IF	Citations
37	A Computational Framework for Cardiac Modeling Based on Distributed Computing and Web Applications. Lecture Notes in Computer Science, 2007, , 544-555.	1.0	2
38	A Transformation Tool for ODE Based Models. Lecture Notes in Computer Science, 2006, , 68-75.	1.0	11
39	Performance Comparison of Parallel Geometric and Algebraic Multigrid Preconditioners for the Bidomain Equations. Lecture Notes in Computer Science, 2006, , 76-83.	1.0	2
40	Escalonamento Dinâmico Eﬁciente em Arquiteturas Híbridas. , 0, , .		0