

Rafel M Bordas

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,262
citations

471371

17
h-index

752573

20
g-index

20
all docs

20
docs citations

20
times ranked

1633
citing authors

#	ARTICLE	IF	CITATIONS
1	Chaste: Cancer, Heart and Soft Tissue Environment. <i>Journal of Open Source Software</i> , 2020, 5, 1848.	2.0	58
2	Lung Computational Models and the Role of the Small Airways in Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 982-991.	2.5	91
3	The prediction of viscous losses and pressure drop in models of the human airways. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2898.	1.0	5
4	A stabilized finite element method for finite-strain three-field poroelasticity. <i>Computational Mechanics</i> , 2017, 60, 51-68.	2.2	25
5	Modelling responses of the inert-gas washout and MRI to bronchoconstriction. <i>Respiratory Physiology and Neurobiology</i> , 2017, 235, 8-17.	0.7	13
6	A poroelastic model coupled to a fluid network with applications in lung modelling. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02731.	1.0	39
7	Stabilized Lowest-Order Finite Element Approximation for Linear Three-Field Poroelasticity. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A2222-A2245.	1.3	38
8	Dynamic flow characteristics in normal and asthmatic lungs. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, .	1.0	26
9	Ten Simple Rules for a Successful Cross-Disciplinary Collaboration. <i>PLoS Computational Biology</i> , 2015, 11, e1004214.	1.5	46
10	Development and Analysis of Patient-Based Complete Conducting Airways Models. <i>PLoS ONE</i> , 2015, 10, e0144105.	1.1	45
11	Quantitative Study of the Effect of Tissue Microstructure on Contraction in a Computational Model of Rat Left Ventricle. <i>PLoS ONE</i> , 2014, 9, e92792.	1.1	20
12	A Comparison of Fully Automated Methods of Data Analysis and Computer Assisted Heuristic Methods in an Electrode Kinetic Study of the Pathologically Variable $[\text{Fe}(\text{CN})_6]^{3-4}$ Process by AC Voltammetry. <i>Analytical Chemistry</i> , 2013, 85, 11780-11787.	3.2	32
13	Effect of Fibre Orientation Optimisation in an Electromechanical Model of Left Ventricular Contraction in Rat. <i>Lecture Notes in Computer Science</i> , 2013, , 46-53.	1.0	3
14	Chaste: An Open Source C++ Library for Computational Physiology and Biology. <i>PLoS Computational Biology</i> , 2013, 9, e1002970.	1.5	375
15	A Bidomain Model of the Ventricular Specialized Conduction System of the Heart. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 1618-1643.	0.8	31
16	Rabbit-specific ventricular model of cardiac electrophysiological function including specialized conduction system. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 107, 90-100.	1.4	62
17	A numerical guide to the solution of the bidomain equations of cardiac electrophysiology. <i>Progress in Biophysics and Molecular Biology</i> , 2010, 102, 136-155.	1.4	71
18	Simulation of cardiac electrophysiology on next-generation high-performance computers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1951-1969.	1.6	39

#	ARTICLE	IF	CITATIONS
19	Chaste: A test-driven approach to software development for biological modelling. Computer Physics Communications, 2009, 180, 2452-2471.	3.0	207
20	C haste : incorporating a novel multi-scale spatial and temporal algorithm into a large-scale open source library. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1907-1930.	1.6	36