

Marcus John Tindall

List of Publications by Year in descending order

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42
papers

1,057
citations

471509

17
h-index

434195

31
g-index

43
all docs

43
docs citations

43
times ranked

1359
citing authors

#	ARTICLE	IF	CITATIONS
1	A mathematical model of the role of aggregation in sonic hedgehog signalling. <i>PLoS Computational Biology</i> , 2021, 17, e1008562.	3.2	0
2	Integrating protein networks and machine learning for disease stratification in the Hereditary Spastic Paraplegias. <i>IScience</i> , 2021, 24, 102484.	4.1	8
3	A model of the PI cycle reveals the regulating roles of lipid-binding proteins and pitfalls of using mosaic biological data. <i>Scientific Reports</i> , 2020, 10, 13244.	3.3	5
4	The Metabolites of the Dietary Flavonoid Quercetin Possess Potent Antithrombotic Activity, and Interact with Aspirin to Enhance Antiplatelet Effects. <i>TH Open</i> , 2019, 03, e244-e258.	1.4	37
5	Best Practices to Maximize the Use and Reuse of Quantitative and Systems Pharmacology Models: Recommendations From the United Kingdom Quantitative and Systems Pharmacology Network. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2019, 8, 259-272.	2.5	37
6	Mathematical Analysis of the Escherichia coli Chemotaxis Signalling Pathway. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 758-787.	1.9	5
7	Model reduction in mathematical pharmacology. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2018, 45, 537-555.	1.8	16
8	A mathematical model of the mevalonate cholesterol biosynthesis pathway. <i>Journal of Theoretical Biology</i> , 2018, 443, 157-176.	1.7	18
9	Physiologically-based pharmacokinetic and toxicokinetic models for estimating human exposure to five toxic elements through oral ingestion. <i>Environmental Toxicology and Pharmacology</i> , 2018, 57, 104-114.	4.0	18
10	An Integrated Mathematical Model of Cellular Cholesterol Biosynthesis and Lipoprotein Metabolism. <i>Processes</i> , 2018, 6, 134.	2.8	12
11	System insights into hemostasis: Open questions and the role of mathematical modelling. <i>Physics of Life Reviews</i> , 2018, 26-27, 106-107.	2.8	1
12	Multi-scale, whole-system models of liver metabolic adaptation to fat and sugar in non-alcoholic fatty liver disease. <i>Npj Systems Biology and Applications</i> , 2018, 4, 33.	3.0	30
13	Methods of Model Reduction for Large-Scale Biological Systems: A Survey of Current Methods and Trends. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 1449-1486.	1.9	97
14	A combined model reduction algorithm for controlled biochemical systems. <i>BMC Systems Biology</i> , 2017, 11, 17.	3.0	18
15	A high-density immunoblotting methodology for quantification of total protein levels and phosphorylation modifications. <i>Scientific Reports</i> , 2015, 5, 16995.	3.3	11
16	Regulation of Early Steps of GPVI Signal Transduction by Phosphatases: A Systems Biology Approach. <i>PLoS Computational Biology</i> , 2015, 11, e1004589.	3.2	22
17	Understanding the link between single cell and population scale responses of Escherichia coli in differing ligand gradients. <i>Computational and Structural Biotechnology Journal</i> , 2015, 13, 528-538.	4.1	9
18	Modelling Negative Feedback Networks for Activating Transcription Factor 3 Predicts a Dominant Role for miRNAs in Immediate Early Gene Regulation. <i>PLoS Computational Biology</i> , 2014, 10, e1003597.	3.2	11

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19	A mathematical model of the sterol regulatory element binding protein 2 cholesterol biosynthesis pathway. <i>Journal of Theoretical Biology</i> , 2014, 349, 150-162.	1.7	26
20	Fold-Change Detection in a Whole-Pathway Model of <i>Escherichia coli</i> chemotaxis. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 1376-1395.	1.9	2
21	A moving mesh approach for modelling avascular tumour growth. <i>Applied Numerical Mathematics</i> , 2013, 72, 99-114.	2.1	8
22	Response kinetics in the complex chemotaxis signalling pathway of <i>Rhodobacter sphaeroides</i> . <i>Journal of the Royal Society Interface</i> , 2013, 10, 20121001.	3.4	15
23	Investigating Flavonoids as Molecular Templates for the Design of Small-Molecule Inhibitors of Cell Signaling. <i>Journal of Food Science</i> , 2013, 78, N1921-8.	3.1	6
24	Feedback regulation by Atf3 in the endothelin-1-responsive transcriptome of cardiomyocytes: Egr1 is a principal Atf3 target. <i>Biochemical Journal</i> , 2012, 444, 343-355.	3.7	31
25	Classifying general nonlinear force laws in cell-based models via the continuum limit. <i>Physical Review E</i> , 2012, 85, 021921.	2.1	33
26	Theoretical insights into bacterial chemotaxis. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 247-259.	6.6	21
27	Modelling acidosis and the cell cycle in multicellular tumour spheroids. <i>Journal of Theoretical Biology</i> , 2012, 298, 107-115.	1.7	11
28	Comparing a discrete and continuum model of the intestinal crypt. <i>Physical Biology</i> , 2011, 8, 026011.	1.8	38
29	Modeling Chemotaxis Reveals the Role of Reversed Phosphotransfer and a Bi-Functional Kinase-Phosphatase. <i>PLoS Computational Biology</i> , 2010, 6, e1000896.	3.2	29
30	From a discrete to a continuum model of cell dynamics in one dimension. <i>Physical Review E</i> , 2009, 80, 031912.	2.1	78
31	Spatiotemporal modelling of CheY complexes in <i>Escherichia coli</i> chemotaxis. <i>Progress in Biophysics and Molecular Biology</i> , 2009, 100, 40-46.	2.9	7
32	A continuum receptor model of hepatic lipoprotein metabolism. <i>Journal of Theoretical Biology</i> , 2009, 257, 371-384.	1.7	19
33	Overview of Mathematical Approaches Used to Model Bacterial Chemotaxis I: The Single Cell. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 1525-1569.	1.9	96
34	Overview of Mathematical Approaches Used to Model Bacterial Chemotaxis II: Bacterial Populations. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 1570-1607.	1.9	211
35	Modelling the formation of necrotic regions in avascular tumours. <i>Mathematical Biosciences</i> , 2008, 211, 34-55.	1.9	20
36	A mathematical model of the in vitro keratinocyte response to chromium and nickel exposure. <i>Toxicology in Vitro</i> , 2008, 22, 1088-1093.	2.4	3

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37	Understanding post-operative temperature drop in cardiac surgery: a mathematical model. <i>Mathematical Medicine and Biology</i> , 2008, 25, 323-335.	1.2	11
38	Intracellular signalling during bacterial chemotaxis. <i>SEB Experimental Biology Series</i> , 2008, 61, 161-74.	0.1	0
39	Modelling the Cell Cycle and Cell Movement in Multicellular Tumour Spheroids. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 1147-1165.	1.9	24
40	Modelling Cell Growth and its Modulation of the G1/S Transition. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 197-214.	1.9	8
41	A Web-Based Knowledge Elicitation System (GISEL) for Planning and Assessing Group Screening Experiments for Product Development. <i>Journal of Computing and Information Science in Engineering</i> , 2004, 4, 218-225.	2.7	5
42	Web-Based Knowledge Elicitation and Application to Planned Experiments for Product Development. , 2003, , .		0