

John Ward

List of Publications by Year in descending order

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36
papers

1,847
citations

430754

18
h-index

377752

34
g-index

36
all docs

36
docs citations

36
times ranked

2325
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Modelling of Effects of Biphasic Layers of Corrosion Products to the Degradation of Magnesium Metal In Vitro. <i>Materials</i> , 2018, 11, 1.	1.3	605
2	Mathematical modelling of avascular-tumour growth. <i>Mathematical Medicine and Biology</i> , 1997, 14, 39-69.	0.8	300
3	Mathematical modelling of avascular-tumour growth II: modelling growth saturation. <i>Mathematical Medicine and Biology</i> , 1999, 16, 171-211.	0.8	125
4	Mathematical modelling of drug transport in tumour multicell spheroids and monolayer cultures. <i>Mathematical Biosciences</i> , 2003, 181, 177-207.	0.9	110
5	Mathematical modelling of quorum sensing in bacteria. <i>Mathematical Medicine and Biology</i> , 2001, 18, 263-292.	0.8	88
6	Early development and quorum sensing in bacterial biofilms. <i>Journal of Mathematical Biology</i> , 2003, 47, 23-55.	0.8	65
7	Mathematical modelling of therapies targeted at bacterial quorum sensing. <i>Mathematical Biosciences</i> , 2004, 192, 39-83.	0.9	59
8	Mathematical modelling of avascular-tumour growth. <i>Ima Journal of Mathematics Applied in Medicine and Biology</i> , 1997, 14, 39-69.	0.0	55
9	A multi-phase mathematical model of quorum sensing in a maturing <i>Pseudomonas aeruginosa</i> biofilm. <i>Mathematical Biosciences</i> , 2006, 203, 240-276.	0.9	54
10	Modelling antibiotic- and anti-quorum sensing treatment of a spatially-structured <i>Pseudomonas aeruginosa</i> population. <i>Journal of Mathematical Biology</i> , 2005, 51, 557-594.	0.8	47
11	Cell-signalling repression in bacterial quorum sensing. <i>Mathematical Medicine and Biology</i> , 2004, 21, 169-204.	0.8	33
12	Mathematical modelling of avascular-tumour growth. II: Modelling growth saturation. <i>Ima Journal of Mathematics Applied in Medicine and Biology</i> , 1999, 16, 171-211.	0.0	33
13	A simulation model of rhizome networks for <i>Fallopia japonica</i> (Japanese knotweed) in the United Kingdom. <i>Ecological Modelling</i> , 2007, 200, 421-432.	1.2	32
14	A Mathematical Model of Partial-thickness Burn-wound Infection by <i>Pseudomonas aeruginosa</i> : Quorum Sensing and the Build-up to Invasion. <i>Bulletin of Mathematical Biology</i> , 2002, 64, 239-259.	0.9	30
15	Novel in vitro and mathematical models for the prediction of chemical toxicity. <i>Toxicology Research</i> , 2013, 2, 40-59.	0.9	25
16	Timescale analysis of a mathematical model of acetaminophen metabolism and toxicity. <i>Journal of Theoretical Biology</i> , 2015, 386, 132-146.	0.8	23
17	Thin-film modelling of biofilm growth and quorum sensing. <i>Journal of Engineering Mathematics</i> , 2012, 73, 71-92.	0.6	22
18	Mathematical modelling of quorum sensing in bacteria. <i>Ima Journal of Mathematics Applied in Medicine and Biology</i> , 2001, 18, 263-92.	0.0	19

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19	Dynamical density-functional-theory-based modeling of tissue dynamics: Application to tumor growth. <i>Physical Review E</i> , 2018, 98, 022407.	0.8	17
20	Mathematical Modelling of the Effects of Mitotic Inhibitors on Avascular Tumour Growth. <i>Journal of Theoretical Medicine</i> , 1999, 1, 287-311.	0.5	16
21	Modelling host tissue degradation by extracellular bacterial pathogens. <i>Mathematical Medicine and Biology</i> , 2003, 20, 227-260.	0.8	16
22	A mathematical model for the human menstrual cycle. <i>Mathematical Medicine and Biology</i> , 2014, 31, 65-86.	0.8	10
23	Effects of Scaffold Pore Morphologies on Glucose Transport Limitations in Hollow Fibre Membrane Bioreactor for Bone Tissue Engineering: Experiments and Numerical Modelling. <i>Membranes</i> , 2021, 11, 257.	1.4	10
24	Mathematical Modeling of Quorum-Sensing Control in Biofilms. <i>Springer Series on Biofilms</i> , 2008, , 79-108.	0.0	8
25	Modelling the Influence of Foot-and-Mouth Disease Vaccine Antigen Stability and Dose on the Bovine Immune Response. <i>PLoS ONE</i> , 2012, 7, e30435.	1.1	8
26	Mathematical modelling of contact dermatitis from nickel and chromium. <i>Journal of Mathematical Biology</i> , 2019, 79, 595-630.	0.8	7
27	Modelling Foot-and-Mouth Disease Virus Dynamics in Oral Epithelium to Help Identify the Determinants of Lysis. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 1503-1528.	0.9	6
28	Using Mathematical Modelling to Explore Hypotheses about the Role of Bovine Epithelium Structure in Foot-And-Mouth Disease Virus-Induced Cell Lysis. <i>PLoS ONE</i> , 2015, 10, e0138571.	1.1	5
29	Modelling the Effect of Cell Shedding on Avascular Tumour Growth. <i>Journal of Theoretical Medicine</i> , 2000, 2, 155-174.	0.5	4
30	A Mathematical Model of the Growth of Uterine Myomas. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 3088-3121.	0.9	4
31	Mathematical modelling of a liver hollow fibre bioreactor. <i>Journal of Theoretical Biology</i> , 2019, 475, 25-33.	0.8	4
32	A mathematical model of the in vitro keratinocyte response to chromium and nickel exposure. <i>Toxicology in Vitro</i> , 2008, 22, 1088-1093.	1.1	3
33	A determinant formalism for shape functions. <i>Communications in Applied Numerical Methods</i> , 1987, 3, 129-139.	0.5	2
34	On modelling of glucose transport in hollow fibre membrane bioreactor for growing three-dimensional tissue. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2565.	0.8	2
35	Misapplication of the power method. <i>International Journal of Mathematical Education in Science and Technology</i> , 1998, 29, 295-311.	0.8	0
36	Predicting tyrosinaemia: a mathematical model of 4-hydroxyphenylpyruvate dioxygenase inhibition by nitisinone in rats. <i>Mathematical Medicine and Biology</i> , 2016, 34, dqw006.	0.8	0