

# Angela M Reynolds

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

589  
citations

1163117

8  
h-index

1058476

14  
g-index

18  
all docs

18  
docs citations

18  
times ranked

574  
citing authors

#	ARTICLE	IF	CITATIONS
1	A reduced mathematical model of the acute inflammatory response: I. Derivation of model and analysis of anti-inflammation. <i>Journal of Theoretical Biology</i> , 2006, 242, 220-236.	1.7	238
2	A reduced mathematical model of the acute inflammatory response II. Capturing scenarios of repeated endotoxin administration. <i>Journal of Theoretical Biology</i> , 2006, 242, 237-256.	1.7	148
3	Aging effects on airflow dynamics and lung function in human bronchioles. <i>PLoS ONE</i> , 2017, 12, e0183654.	2.5	43
4	A mathematical model of pulmonary gas exchange under inflammatory stress. <i>Journal of Theoretical Biology</i> , 2010, 264, 161-173.	1.7	32
5	An in silico approach to the analysis of acute wound healing. <i>Wound Repair and Regeneration</i> , 2010, 18, 105-113.	3.0	26
6	Identifying important parameters in the inflammatory process with a mathematical model of immune cell influx and macrophage polarization. <i>PLoS Computational Biology</i> , 2019, 15, e1007172.	3.2	26
7	Modeling the effects of systemic mediators on the inflammatory phase of wound healing. <i>Journal of Theoretical Biology</i> , 2015, 367, 86-99.	1.7	17
8	A Differential Equation Model of Collagen Accumulation in a Healing Wound. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 2165-2182.	1.9	15
9	Analysis for stress environment in the alveolar sac model. <i>Journal of Biomedical Science and Engineering</i> , 2013, 06, 901-907.	0.4	10
10	Aging Effects on Alveolar Sacs Under Mechanical Ventilation. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 139-146.	3.6	8
11	Quantification of Age-Related Lung Tissue Mechanics under Mechanical Ventilation. <i>Medical Sciences (Basel, Switzerland)</i> , 2017, 5, 21.	2.9	7
12	Mathematical modeling of ventilator-induced lung inflammation. <i>Journal of Theoretical Biology</i> , 2021, 526, 110738.	1.7	7
13	A mathematical model of the effects of resistance exercise-induced muscle hypertrophy on body composition. <i>European Journal of Applied Physiology</i> , 2018, 118, 449-460.	2.5	6
14	Cellular automata modeling of pulmonary inflammation. <i>MCB Molecular and Cellular Biomechanics</i> , 2012, 9, 141-56.	0.7	5
15	A Mathematical Model of Hematopoietic Stem Cell Transplantation and Analysis of the Effect of Drug Treatments on Transplantation in Patients with Lymphoma. <i>Blood</i> , 2015, 126, 2376-2376.	1.4	0