

# Reuben D O'dea

## List of Publications by Year in descending order

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33  
papers

583  
citations

567281

15  
h-index

677142

22  
g-index

37  
all docs

37  
docs citations

37  
times ranked

618  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of renewable energy incorporation on power grid stability and resilience. <i>Science Advances</i> , 2022, 8, eabj6734.	10.3	40
2	Travelling-Wave and Asymptotic Analysis of a Multiphase Moving Boundary Model for Engineered Tissue Growth. <i>Bulletin of Mathematical Biology</i> , 2022, 84, .	1.9	3
3	Reduced biomechanical models for precision-cut lung-slice stretching experiments. <i>Journal of Mathematical Biology</i> , 2021, 82, 35.	1.9	5
4	Parameter estimation in fluorescence recovery after photobleaching: quantitative analysis of protein binding reactions and diffusion. <i>Journal of Mathematical Biology</i> , 2021, 83, 1.	1.9	29
5	Reinforcement learning approaches to hippocampus-dependent flexible spatial navigation. <i>Brain and Neuroscience Advances</i> , 2021, 5, 239821282097563.	3.4	7
6	Next-generation neural mass and field modeling. <i>Journal of Neurophysiology</i> , 2020, 123, 726-742.	1.8	49
7	Numerical-asymptotic models for the manipulation of viscous films via dielectrophoresis. <i>Journal of Fluid Mechanics</i> , 2020, 901, .	3.4	5
8	The role of node dynamics in shaping emergent functional connectivity patterns in the brain. <i>Network Neuroscience</i> , 2020, 4, 467-483.	2.6	25
9	Switching behaviour in vascular smooth muscle cell-matrix adhesion during oscillatory loading. <i>Journal of Theoretical Biology</i> , 2020, 502, 110387.	1.7	4
10	The Price of Anarchy in flow networks as a function of node properties. <i>Europhysics Letters</i> , 2019, 127, 18001.	2.0	3
11	A MULTIPHASE MULTISCALE MODEL FOR NUTRIENT-LIMITED TISSUE GROWTH, PART II: A SIMPLIFIED DESCRIPTION. <i>ANZIAM Journal</i> , 2019, 61, 368-381.	0.2	1
12	Cellular Uptake and Efflux of Palbociclib In Vitro in Single Cell and Spheroid Models. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 242-251.	2.5	6
13	Comparing multilayer brain networks between groups: Introducing graph metrics and recommendations. <i>NeuroImage</i> , 2018, 166, 371-384.	4.2	44
14	A theoretical model of inflammation- and mechanotransduction-driven asthmatic airway remodelling. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 1451-1470.	2.8	19
15	A MULTIPHASE MULTISCALE MODEL FOR NUTRIENT LIMITED TISSUE GROWTH. <i>ANZIAM Journal</i> , 2018, 59, 499-532.	0.2	3
16	Effect of Loading History on Airway Smooth Muscle Cell-Matrix Adhesions. <i>Biophysical Journal</i> , 2018, 114, 2679-2690.	0.5	11
17	Pushed and pulled fronts in a discrete reaction-diffusion equation. <i>Journal of Engineering Mathematics</i> , 2017, 102, 89-116.	1.2	4
18	Effective equations governing an active poroelastic medium. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160755.	2.1	27

#	ARTICLE	IF	CITATIONS
19	An Analysis of Waves Underlying Grid Cell Firing in the Medial Entorhinal Cortex. <i>Journal of Mathematical Neuroscience</i> , 2017, 7, 9.	2.4	2
20	Computational modelling of multiscale, multiphase fluid mixtures with application to tumour growth. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 309, 554-578.	6.6	11
21	Structure-function clustering in multiplex brain networks. <i>Europhysics Letters</i> , 2016, 116, 18003.	2.0	38
22	A geometric network model of intrinsic grey-matter connectivity of the human brain. <i>Scientific Reports</i> , 2015, 5, 15397.	3.3	12
23	A multiscale analysis of nutrient transport and biological tissue growth <i>in vitro</i> . <i>Mathematical Medicine and Biology</i> , 2015, 32, 345-366.	1.2	33
24	The interplay between tissue growth and scaffold degradation in engineered tissue constructs. <i>Journal of Mathematical Biology</i> , 2013, 67, 1199-1225.	1.9	20
25	The isolation of spatial patterning modes in a mathematical model of juxtacrine cell signalling. <i>Mathematical Medicine and Biology</i> , 2013, 30, 95-113.	1.2	3
26	Spreading dynamics on spatially constrained complex brain networks. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130016.	3.4	28
27	Continuum limits of pattern formation in hexagonal-cell monolayers. <i>Journal of Mathematical Biology</i> , 2012, 64, 579-610.	1.9	28
28	Multiscale analysis of pattern formation via intercellular signalling. <i>Mathematical Biosciences</i> , 2011, 231, 172-185.	1.9	25
29	The Influence of Bioreactor Geometry and the Mechanical Environment on Engineered Tissues. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 051006.	1.3	22
30	A multiphase model for tissue construct growth in a perfusion bioreactor. <i>Mathematical Medicine and Biology</i> , 2010, 27, 95-127.	1.2	38
31	A two-fluid model for tissue growth within a dynamic flow environment. <i>European Journal of Applied Mathematics</i> , 2008, 19, 607-634.	2.9	29
32	Flow and solute uptake in a twisting tube. <i>Journal of Fluid Mechanics</i> , 2006, 562, 173.	3.4	6
33	A multiphase multiscale model for nutrient limited tissue growth. <i>ANZIAM Journal</i> , 0, 59, 499.	0.0	0