

Thomas E Woolley

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,389
citations

331538

21
h-index

395590

33
g-index

71
all docs

71
docs citations

71
times ranked

1509
citing authors

#	ARTICLE	IF	CITATIONS
1	Accounting for dimensional differences in stochastic domain invasion with applications to precancerous cell removal. <i>Journal of Theoretical Biology</i> , 2022, 541, 111024.	0.8	2
2	The association of neurodevelopmental abnormalities, congenital heart and renal defects in a tuberous sclerosis complex patient cohort. <i>BMC Medicine</i> , 2022, 20, 123.	2.3	4
3	Challenging molecular dogmas in human sepsis using mathematical reasoning. <i>EBioMedicine</i> , 2022, 80, 104031.	2.7	10
4	Covid-19 transmission modelling of students returning home from university. <i>Health Systems</i> , 2021, 10, 31-40.	0.9	11
5	Bespoke Turing Systems. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 41.	0.9	30
6	Symmetry breaking of tissue mechanics in wound induced hair follicle regeneration of laboratory and spiny mice. <i>Nature Communications</i> , 2021, 12, 2595.	5.8	40
7	EPHA2-dependent outcompetition of KRASG12D mutant cells by wild-type neighbors in the adult pancreas. <i>Current Biology</i> , 2021, 31, 2550-2560.e5.	1.8	32
8	Generalised S-System-Type Equation: Sensitivity of the Deterministic and Stochastic Models for Bone Mechanotransduction. <i>Mathematics</i> , 2021, 9, 2422.	1.1	0
9	Further development of spinal cord retreatment dose estimation: including radiotherapy with protons and light ions. <i>International Journal of Radiation Biology</i> , 2021, 97, 1657-1666.	1.0	2
10	The embryonic trunk neural crest microenvironment regulates the plasticity and invasion of human neuroblastoma via TrkB signaling. <i>Developmental Biology</i> , 2021, 480, 78-90.	0.9	2
11	Pannexin 1 Regulates Skeletal Muscle Regeneration by Promoting Bleb-Based Myoblast Migration and Fusion Through a Novel Lipid Based Signaling Mechanism. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 736813.	1.8	7
12	Vitrifying multiple embryos in different arrangements does not alter the cooling rate. <i>Cryobiology</i> , 2021, 103, 22-31.	0.3	2
13	A General Computational Framework for COVID-19 Modelling with Applications to Testing Varied Interventions in Education Environments. <i>Covid</i> , 2021, 1, 674-703.	0.7	2
14	Solvability of a Keller–Segel system with signal-dependent sensitivity and essentially sublinear production. <i>Applicable Analysis</i> , 2020, 99, 2507-2525.	0.6	28
15	Turing Patterning in Stratified Domains. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 136.	0.9	8
16	Likely cavitation and radial motion of stochastic elastic spheres. <i>Nonlinearity</i> , 2020, 33, 1987-2034.	0.6	6
17	From one pattern into another: analysis of Turing patterns in heterogeneous domains via WKB. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190621.	1.5	37
18	Coloured Noise from Stochastic Inflows in Reaction–Diffusion Systems. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 44.	0.9	6

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19	Time to change your mind? Modelling transient properties of cortex formation highlights the importance of evolving cell division strategies. <i>Journal of Theoretical Biology</i> , 2019, 481, 110-118.	0.8	2
20	A mathematical insight into cell labelling experiments for clonal analysis. <i>Journal of Anatomy</i> , 2019, 235, 687-696.	0.9	6
21	Likely oscillatory motions of stochastic hyperelastic solids. <i>Transactions of Mathematics and Its Applications</i> , 2019, 3, .	1.6	6
22	PCP and Wnt pathway components act in parallel during zebrafish mechanosensory hair cell orientation. <i>Nature Communications</i> , 2019, 10, 3993.	5.8	38
23	Self-organizing hair peg-like structures from dissociated skin progenitor cells: New insights for human hair follicle organoid engineering and Turing patterning in an asymmetric morphogenetic field. <i>Experimental Dermatology</i> , 2019, 28, 355-366.	1.4	27
24	Likely chirality of stochastic anisotropic hyperelastic tubes. <i>International Journal of Non-Linear Mechanics</i> , 2019, 114, 9-20.	1.4	13
25	Likely equilibria of the stochastic Rivlin cube. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180068.	1.6	15
26	Feather arrays are patterned by interacting signalling and cell density waves. <i>PLoS Biology</i> , 2019, 17, e3000132.	2.6	91
27	Uncertainty quantification of elastic material responses: testing, stochastic calibration and Bayesian model selection. <i>Mechanics of Soft Materials</i> , 2019, 1, 1.	0.4	13
28	Radiation protraction schedules for low-grade gliomas: a comparison between different mathematical models. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190665.	1.5	7
29	Likely equilibria of stochastic hyperelastic spherical shells and tubes. <i>Mathematics and Mechanics of Solids</i> , 2019, 24, 2066-2082.	1.5	11
30	Likely Cavitation in Stochastic Elasticity. <i>Journal of Elasticity</i> , 2019, 137, 27-42.	0.9	12
31	The Turing Model for Biological Pattern Formation. <i>Mathematics of Planet Earth</i> , 2019, , 189-204.	0.1	2
32	Changes in the retreatment radiation tolerance of the spinal cord with time after the initial treatment. <i>International Journal of Radiation Biology</i> , 2018, 94, 515-531.	1.0	14
33	Stochastic isotropic hyperelastic materials: constitutive calibration and model selection. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170858.	1.0	29
34	Boundedness in a parabolic-elliptic chemotaxis system with nonlinear diffusion and sensitivity and logistic source. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 1809-1824.	1.2	27
35	Heterogeneity induces spatiotemporal oscillations in reaction-diffusion systems. <i>Physical Review E</i> , 2018, 97, 052206.	0.8	23
36	PLC \uparrow Induced Ca $^{2+}$ Oscillations in Mouse Eggs Involve a Positive Feedback Cycle of Ca $^{2+}$ Induced InsP3 Formation From Cytoplasmic PIP2. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 36.	1.8	22

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37	Mathematical Modeling of Cortical Neurogenesis Reveals that the Founder Population does not Necessarily Scale with Neurogenic Output. <i>Cerebral Cortex</i> , 2018, 28, 2540-2550.	1.6	25
38	Predicting neuroblastoma using developmental signals and a logic-based model. <i>Biophysical Chemistry</i> , 2018, 238, 30-38.	1.5	11
39	Turing's Theory of Morphogenesis: Where We Started, Where We Are and Where We Want to Go. <i>Theory and Applications of Computability</i> , 2017, , 219-235.	0.8	11
40	Random blebbing motion: A simple model linking cell structural properties to migration characteristics. <i>Physical Review E</i> , 2017, 96, 012409.	0.8	10
41	Graph-facilitated resonant mode counting in stochastic interaction networks. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170447.	1.5	2
42	Pattern production through a chiral chasing mechanism. <i>Physical Review E</i> , 2017, 96, 032401.	0.8	11
43	Eventual smoothness and asymptotic behaviour of solutions to a chemotaxis system perturbed by a logistic growth. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 47-47.	0.5	4
44	Further Development of Spinal Tissue Radiotherapy Retreatment Modelling, with inclusion of Hadrontherapy.. <i>Radiotherapy and Oncology</i> , 2016, 118, S55.	0.3	0
45	Dissecting the self-assembly kinetics of multimeric pore-forming toxins. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150762.	1.5	12
46	Membrane shrinkage and cortex remodelling are predicted to work in harmony to retract blebs. <i>Royal Society Open Science</i> , 2015, 2, 150184.	1.1	14
47	Global contraction or local growth, bleb shape depends on more than just cell structure. <i>Journal of Theoretical Biology</i> , 2015, 380, 83-97.	0.8	20
48	Three mechanical models for blebbing and multi-blebbing. <i>IMA Journal of Applied Mathematics</i> , 2014, 79, 636-660.	0.8	15
49	Mathematical modelling of digit specification by a sonic hedgehog gradient. <i>Developmental Dynamics</i> , 2014, 243, 290-298.	0.8	18
50	Is pigment cell pattern formation in zebrafish a game of cops and robbers?. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 686-687.	1.5	19
51	Cellular blebs: pressure-driven, axisymmetric, membrane protrusions. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 463-476.	1.4	24
52	Modelling biological invasions: Individual to population scales at interfaces. <i>Journal of Theoretical Biology</i> , 2013, 334, 1-12.	0.8	29
53	Noise-induced temporal dynamics in Turing systems. <i>Physical Review E</i> , 2013, 87, 042719.	0.8	18
54	Effects of intrinsic stochasticity on delayed reaction-diffusion patterning systems. <i>Physical Review E</i> , 2012, 85, 051914.	0.8	25

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55	Turing's model for biological pattern formation and the robustness problem. <i>Interface Focus</i> , 2012, 2, 487-496.	1.5	192
56	Nonlinear effects on Turing patterns: Time oscillations and chaos. <i>Physical Review E</i> , 2012, 86, 026201.	0.8	34
57	Age-Related Changes in Speed and Mechanism of Adult Skeletal Muscle Stem Cell Migration. <i>Stem Cells</i> , 2012, 30, 1182-1195.	1.4	68
58	Interactions between Shh, Sostdc1 and Wnt signaling and a new feedback loop for spatial patterning of the teeth. <i>Development (Cambridge)</i> , 2011, 138, 1807-1816.	1.2	107
59	Stochastic reaction and diffusion on growing domains: Understanding the breakdown of robust pattern formation. <i>Physical Review E</i> , 2011, 84, 046216.	0.8	59
60	Power spectra methods for a stochastic description of diffusion on deterministically growing domains. <i>Physical Review E</i> , 2011, 84, 021915.	0.8	27
61	Influence of stochastic domain growth on pattern nucleation for diffusive systems with internal noise. <i>Physical Review E</i> , 2011, 84, 041905.	0.8	15
62	Analysis of stationary droplets in a generic Turing reaction-diffusion system. <i>Physical Review E</i> , 2010, 82, 051929.	0.8	21
63	Turing's Theory of Developmental Pattern Formation. , 0, , 131-143.		2