

Eamonn A Gaffney

List of Publications by Year in descending order

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140
papers

5,215
citations

109137

35
h-index

118652

62
g-index

142
all docs

142
docs citations

142
times ranked

4494
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of rapid yawing on simple swimmer models and planar Jeffery's orbits. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	6
2	A method for the inference of cytokine interaction networks. <i>PLoS Computational Biology</i> , 2022, 18, e1010112.	1.5	2
3	Deconvolution of monocyte responses in inflammatory bowel disease reveals an IL-1 cytokine network that regulates IL-23 in genetic and acquired IL-10 resistance. <i>Cut</i> , 2021, 70, 1023-1036.	6.1	58
4	Quantifying the limits of CAR T-cell delivery in mice and men. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20201013.	1.5	14
5	Bespoke Turing Systems. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 41.	0.9	30
6	Patterns of bacterial motility in microfluidics-confining environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	28
7	Isolating Patterns in Open Reaction-Diffusion Systems. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 82.	0.9	13
8	Modelling Motility: The Mathematics of Spermatozoa. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 710825.	1.8	13
9	Control and controllability of microswimmers by a shearing flow. <i>Royal Society Open Science</i> , 2021, 8, 211141.	1.1	9
10	Predicted limited redistribution of T cells to secondary lymphoid tissue correlates with increased risk of haematological malignancies in asplenic patients. <i>Scientific Reports</i> , 2021, 11, 16394.	1.6	0
11	Introduction to "Recent progress and open frontiers in Turing's theory of morphogenesis". <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200280.	1.6	10
12	Modern perspectives on near-equilibrium analysis of Turing systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200268.	1.6	34
13	Turing Patterning in Stratified Domains. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 136.	0.9	8
14	Computer-assisted beat-pattern analysis and the flagellar waveforms of bovine spermatozoa. <i>Royal Society Open Science</i> , 2020, 7, 200769.	1.1	10
15	CDC-42 Interactions with Par Proteins Are Critical for Proper Patterning in Polarization. <i>Cells</i> , 2020, 9, 2036.	1.8	8
16	Fock-space methods for diffusion: Capturing volume exclusion via fermionic statistics. <i>Physical Review E</i> , 2020, 102, 052101.	0.8	2
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	Modelling the inclusion of swelling pressure in a tissue level poroviscoelastic model of cartilage deformation. <i>Mathematical Medicine and Biology</i> , 2020, 37, 389-428.	0.8	3
20	Quantifying fiber type-specific local capillary supply. <i>Journal of Applied Physiology</i> , 2020, 128, 458-459.	1.2	1
21	Fluid and solute transport across the retinal pigment epithelium: a theoretical model. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190735.	1.5	13
22	Identifying and characterising the impact of excitability in a mathematical model of tumour-immune interactions. <i>Journal of Theoretical Biology</i> , 2020, 501, 110250.	0.8	7
23	Regularized representation of bacterial hydrodynamics. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
24	Efficient simulation of filament elasto-hydrodynamics in three dimensions. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
25	Pattern formation in reaction-diffusion systems with piecewise kinetic modulation: An example study of heterogeneous kinetics. <i>Physical Review E</i> , 2019, 100, 042220.	0.8	20
26	Flagellar ultrastructure suppresses buckling instabilities and enables mammalian sperm navigation in high-viscosity media. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180668.	1.5	35
27	Feather arrays are patterned by interacting signalling and cell density waves. <i>PLoS Biology</i> , 2019, 17, e3000132.	2.6	91
28	The combined impact of tissue heterogeneity and fixed charge for models of cartilage: the one-dimensional biphasic swelling model revisited. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 953-968.	1.4	9
29	Boundary behaviours of <i>Leishmania mexicana</i> : A hydrodynamic simulation study. <i>Journal of Theoretical Biology</i> , 2019, 462, 311-320.	0.8	25
30	Integrated method for quantitative morphometry and oxygen transport modeling in striated muscle. <i>Journal of Applied Physiology</i> , 2019, 126, 544-557.	1.2	29
31	Pairwise hydrodynamic interactions of synchronized spermatozoa. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	15
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	Human sperm swimming in a high viscosity mucus analogue. <i>Journal of Theoretical Biology</i> , 2018, 446, 1-10.	0.8	36
34	An in silico model of cytotoxic T-lymphocyte activation in the lymph node following short peptide vaccination. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180041.	1.5	6
35	Predictive Mathematical Models for the Spread and Treatment of Hyperoxia-induced Photoreceptor Degeneration in Retinitis Pigmentosa. , 2018, 59, 1238.		11
36	Hydrodynamic Clustering of Human Sperm in Viscoelastic Fluids. <i>Scientific Reports</i> , 2018, 8, 15600.	1.6	31

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37	Response of monoflagellate pullers to a shearing flow: A simulation study of microswimmer guidance. <i>Physical Review E</i> , 2018, 98, .	0.8	11
38	Domain Size Driven Instability: Self-Organization in Systems with Advection. <i>SIAM Journal on Applied Mathematics</i> , 2018, 78, 2298-2322.	0.8	21
39	Heterogeneity induces spatiotemporal oscillations in reaction-diffusion systems. <i>Physical Review E</i> , 2018, 97, 052206.	0.8	23
40	An elasto-hydrodynamical simulation study of filament and spermatozoan swimming driven by internal couples. <i>IMA Journal of Applied Mathematics</i> , 2018, 83, 655-679.	0.8	22
41	Theoretical Insights into the Retinal Dynamics of Vascular Endothelial Growth Factor in Patients Treated with Ranibizumab, Based on an Ocular Pharmacokinetic/Pharmacodynamic Model. <i>Molecular Pharmaceutics</i> , 2018, 15, 2770-2784.	2.3	32
42	Osmotic and electroosmotic fluid transport across the retinal pigment epithelium: A mathematical model. <i>Journal of Theoretical Biology</i> , 2018, 456, 233-248.	0.8	12
43	Response of monoflagellate pullers to a shearing flow: A simulation study of microswimmer guidance. <i>Physical Review E</i> , 2018, 98, 063111.	0.8	3
44	Effect of crosslinking in cartilage-like collagen microstructures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 66, 138-143.	1.5	21
45	Mechanical Cell-Cell Communication in Fibrous Networks: The Importance of Network Geometry. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 498-524.	0.9	42
46	Coarse-Graining the Fluid Flow around a Human Sperm. <i>Physical Review Letters</i> , 2017, 118, 124501.	2.9	67
47	Reply to Baveye and Darnault: Useful models are simple and extendable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2804-E2805.	3.3	4
48	History dependence and the continuum approximation breakdown: the impact of domain growth on Turing's instability. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160744.	1.0	22
49	Microbial competition in porous environments can select against rapid biofilm growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E161-E170.	3.3	101
50	Boundary element methods for particles and microswimmers in a linear viscoelastic fluid. <i>Journal of Fluid Mechanics</i> , 2017, 831, 228-251.	1.4	19
51	Random blebbing motion: A simple model linking cell structural properties to migration characteristics. <i>Physical Review E</i> , 2017, 96, 012409.	0.8	10
52	Ocular Pharmacokinetics of Therapeutic Antibodies Given by Intravitreal Injection: Estimation of Retinal Permeabilities Using a 3-Compartment Semi-Mechanistic Model. <i>Molecular Pharmaceutics</i> , 2017, 14, 2690-2696.	2.3	55
53	Speeding up the simulation of population spread models. <i>Methods in Ecology and Evolution</i> , 2017, 8, 501-510.	2.2	7
54	Mathematical models of retinitis pigmentosa: The oxygen toxicity hypothesis. <i>Journal of Theoretical Biology</i> , 2017, 425, 53-71.	0.8	11

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55	The bifurcation analysis of turing pattern formation induced by delay and diffusion in the Schnakenberg system. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 647-668.	0.5	13
56	An overview of multiphase cartilage mechanical modelling and its role in understanding function and pathology. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 139-157.	1.5	49
57	Mathematical and computational models of the retina in health, development and disease. <i>Progress in Retinal and Eye Research</i> , 2016, 53, 48-69.	7.3	34
58	Mechanical tuning of mammalian sperm behaviour by hyperactivation, rheology and substrate adhesion: a numerical exploration. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160633.	1.5	34
59	A Mechanistic Model of the Intravitreal Pharmacokinetics of Large Molecules and the Pharmacodynamic Suppression of Ocular Vascular Endothelial Growth Factor Levels by Ranibizumab in Patients with Neovascular Age-Related Macular Degeneration. <i>Molecular Pharmaceutics</i> , 2016, 13, 2941-2950.	2.3	65
60	A simulation study of sperm motility hydrodynamics near fish eggs and spheres. <i>Journal of Theoretical Biology</i> , 2016, 389, 187-197.	0.8	31
61	Retinal oxygen distribution and the role of neuroglobin. <i>Journal of Mathematical Biology</i> , 2016, 73, 1-38.	0.8	32
62	Fock space, symbolic algebra, and analytical solutions for small stochastic systems. <i>Physical Review E</i> , 2015, 92, 062714.	0.8	6
63	Hydrodynamic analysis of flagellated bacteria swimming in corners of rectangular channels. <i>Physical Review E</i> , 2015, 92, 063016.	0.8	23
64	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
65	Changes to both cardiac metabolism and performance accompany acute reductions in functional capillary supply. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 681-690.	1.1	12
66	Investigating the Turing conditions for diffusion-driven instability in the presence of a binding immobile substrate. <i>Journal of Theoretical Biology</i> , 2015, 367, 286-295.	0.8	35
67	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
68	Hydrodynamic analysis of flagellated bacteria swimming near one and between two no-slip plane boundaries. <i>Physical Review E</i> , 2015, 91, 033012.	0.8	36
69	Glyph-Based Video Visualization for Semen Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015, 21, 980-993.	2.9	23
70	Fluid flow and sperm guidance: a simulation study of hydrodynamic sperm rheotaxis. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150172.	1.5	87
71	Maternal Hypoxia Decreases Capillary Supply and Increases Metabolic Inefficiency Leading to Divergence in Myocardial Oxygen Supply and Demand. <i>PLoS ONE</i> , 2015, 10, e0127424.	1.1	7
72	The mechanics of hyperactivation in adhered human sperm. <i>Royal Society Open Science</i> , 2014, 1, 140230.	1.1	26

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73	Spreading speeds for plant populations in landscapes with low environmental variation. <i>Journal of Theoretical Biology</i> , 2014, 363, 436-452.	0.8	12
74	Cartilage Dysfunction in ALS Patients as Side Effect of Motion Loss: 3D Mechano-Electrochemical Computational Model. <i>BioMed Research International</i> , 2014, 2014, 1-13.	0.9	8
75	Three mechanical models for blebbing and multi-blebbing. <i>IMA Journal of Applied Mathematics</i> , 2014, 79, 636-660.	0.8	15
76	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
77	Spreading speeds for stage structured plant populations in fragmented landscapes. <i>Journal of Theoretical Biology</i> , 2014, 349, 135-149.	0.8	28
78	Cellular blebs: pressure-driven, axisymmetric, membrane protrusions. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 463-476.	1.4	24
79	A study of spermatozoan swimming stability near a surface. <i>Journal of Theoretical Biology</i> , 2014, 360, 187-199.	0.8	51
80	Glucose-lactate metabolic cooperation in cancer: Insights from a spatial mathematical model and implications for targeted therapy. <i>Journal of Theoretical Biology</i> , 2014, 361, 190-203.	0.8	18
81	Swimming efficiency of spherical squirmers: Beyond the Lighthill theory. <i>Physical Review E</i> , 2014, 90, 012704.	0.8	18
82	Comparing methods for modelling spreading cell fronts. <i>Journal of Theoretical Biology</i> , 2014, 353, 95-103.	0.8	9
83	Modelling capillary oxygen supply capacity in mixed muscles: Capillary domains revisited. <i>Journal of Theoretical Biology</i> , 2014, 356, 47-61.	0.8	35
84	A general reaction-diffusion model of acidity in cancer invasion. <i>Journal of Mathematical Biology</i> , 2014, 68, 1199-1224.	0.8	48
85	Modelling biological invasions: Individual to population scales at interfaces. <i>Journal of Theoretical Biology</i> , 2013, 334, 1-12.	0.8	29
86	Optimal barrier zones for stopping the invasion of <i>Aedes aegypti</i> mosquitoes via transgenic or sterile insect techniques. <i>Theoretical Ecology</i> , 2013, 6, 427-442.	0.4	18
87	Incorporating spatial correlations into multispecies mean-field models. <i>Physical Review E</i> , 2013, 88, 052713.	0.8	32
88	Squirmers dynamics near a boundary. <i>Physical Review E</i> , 2013, 88, 062702.	0.8	115
89	Modelling <i>Aedes aegypti</i> mosquito control via transgenic and sterile insect techniques: Endemics and emerging outbreaks. <i>Journal of Theoretical Biology</i> , 2013, 331, 78-90.	0.8	28
90	Three-sphere swimmer in a nonlinear viscoelastic medium. <i>Physical Review E</i> , 2013, 87, 043006.	0.8	23

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91	The counterbend phenomenon in flagellar axonemes and cross-linked filament bundles. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12180-12185.	3.3	38
92	Effects of intrinsic stochasticity on delayed reaction-diffusion patterning systems. Physical Review E, 2012, 85, 051914.	0.8	25
93	Predicting the safety and efficacy of buffer therapy to raise tumour pH: an integrative modelling study. British Journal of Cancer, 2012, 106, 1280-1287.	2.9	40
94	Turing's model for biological pattern formation and the robustness problem. Interface Focus, 2012, 2, 487-496.	1.5	192
95	Coupling Fluid and Solute Dynamics Within the Ocular Surface Tear Film: A Modelling Study of Black Line Osmolarity. Bulletin of Mathematical Biology, 2012, 74, 2062-2093.	0.9	29
96	Re-evaluating the Use of Voronoi Tessellations in the Assessment of Oxygen Supply from Capillaries in Muscle. Bulletin of Mathematical Biology, 2012, 74, 2204-2231.	0.9	17
97	Reply to Correspondence: No Oscillations in Real Activator-Inhibitor Systems in Accomplishing Pattern Formation. Bulletin of Mathematical Biology, 2012, 74, 2268-2271.	0.9	0
98	Theoretical insights into bacterial chemotaxis. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 247-259.	6.6	21
99	Age-Related Changes in Speed and Mechanism of Adult Skeletal Muscle Stem Cell Migration. Stem Cells, 2012, 30, 1182-1195.	1.4	68
100	The Influence of Receptor-Mediated Interactions on Reaction-Diffusion Mechanisms of Cellular Self-organisation. Bulletin of Mathematical Biology, 2012, 74, 935-957.	0.9	60
101	Collagen bundle morphometry in skin and scar tissue: a novel distance mapping method provides superior measurements compared to Fourier analysis. Journal of Microscopy, 2012, 245, 82-89.	0.8	36
102	Modelling a tethered mammalian sperm cell undergoing hyperactivation. Journal of Theoretical Biology, 2012, 309, 1-10.	0.8	42
103	Comment on the Article by J. Elgeti, U. B. Kaupp, and G. Gompper: Hydrodynamics of Sperm Cells Near Surfaces. Biophysical Journal, 2011, 100, 2318-2320.	0.2	16
104	Mammalian Sperm Motility: Observation and Theory. Annual Review of Fluid Mechanics, 2011, 43, 501-528.	10.8	301
105	Stochastic reaction and diffusion on growing domains: Understanding the breakdown of robust pattern formation. Physical Review E, 2011, 84, 046216.	0.8	59
106	A mathematical model of tumour and blood pH regulation: The buffering system. Mathematical Biosciences, 2011, 230, 1-11.	0.9	36
107	A Solute Gradient in the Tear Meniscus. I. A Hypothesis to Explain Marx's Line. Ocular Surface, 2011, 9, 70-91.	2.2	43
108	A Solute Gradient in the Tear Meniscus. II. Implications for Lid Margin Disease, including Meibomian Gland Dysfunction. Ocular Surface, 2011, 9, 92-97.	2.2	38

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109	The Dynamics of Turing Patterns for Morphogen-Regulated Growing Domains with Cellular Response Delays. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 2527-2551.	0.9	34
110	Modeling parr-mark pattern formation during the early development of Amago trout. <i>Physical Review E</i> , 2011, 84, 041923.	0.8	22
111	Power spectra methods for a stochastic description of diffusion on deterministically growing domains. <i>Physical Review E</i> , 2011, 84, 021915.	0.8	27
112	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
113	The influence of toxicity constraints in models of chemotherapeutic protocol escalation. <i>Mathematical Medicine and Biology</i> , 2011, 28, 357-384.	0.8	6
114	Stability analysis of non-autonomous reaction-diffusion systems: the effects of growing domains. <i>Journal of Mathematical Biology</i> , 2010, 61, 133-164.	0.8	89
115	On the Modelling of Biological Patterns with Mechanochemical Models: Insights from Analysis and Computation. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 400-431.	0.9	13
116	The Influence of Gene Expression Time Delays on Gierer-Meinhardt Pattern Formation Systems. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 2139-2160.	0.9	54
117	Aberrant Behaviours of Reaction Diffusion Self-organisation Models on Growing Domains in the Presence of Gene Expression Time Delays. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 2161-2179.	0.9	22
118	Leaky vessels as a potential source of stromal acidification in tumours. <i>Journal of Theoretical Biology</i> , 2010, 267, 454-460.	0.8	3
119	Tumour-stromal interactions in acid-mediated invasion: A mathematical model. <i>Journal of Theoretical Biology</i> , 2010, 267, 461-470.	0.8	62
120	Experimental Physiology – Review Article: Tissue capillary supply – it's quality not quantity that counts!. <i>Experimental Physiology</i> , 2010, 95, 971-979.	0.9	46
121	Nonlinear instability in flagellar dynamics: a novel modulation mechanism in sperm migration?. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1689-1697.	1.5	94
122	Modelling chemotherapy resistance in palliation and failed cure. <i>Journal of Theoretical Biology</i> , 2009, 257, 292-302.	0.8	44
123	Predicted Phenotypes of Dry Eye: Proposed Consequences of Its Natural History. <i>Ocular Surface</i> , 2009, 7, 78-92.	2.2	137
124	Human sperm accumulation near surfaces: a simulation study. <i>Journal of Fluid Mechanics</i> , 2009, 621, 289-320.	1.4	186
125	Modelling mucociliary clearance. <i>Respiratory Physiology and Neurobiology</i> , 2008, 163, 178-188.	0.7	147
126	Fluid mechanics of nodal flow due to embryonic primary cilia. <i>Journal of the Royal Society Interface</i> , 2008, 5, 567-573.	1.5	102

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127	Partial differential equations for self-organization in cellular and developmental biology. <i>Nonlinearity</i> , 2008, 21, R251-R290.	0.6	67
128	A Viscoelastic Traction Layer Model of Muco-Ciliary Transport. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 289-327.	0.9	61
129	A Model of Tracer Transport in Airway Surface Liquid. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 817-836.	0.9	20
130	Discrete Cilia Modelling with Singularity Distributions: Application to the Embryonic Node and the Airway Surface Liquid. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 1477-1510.	0.9	74
131	Gene Expression Time Delays and Turing Pattern Formation Systems. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 99-130.	0.9	78
132	Simulation and Verification for Computational Modelling of Signalling Pathways. , 2006, , .		14
133	The mathematical modelling of adjuvant chemotherapy scheduling: incorporating the effects of protocol rest phases and pharmacokinetics. <i>Bulletin of Mathematical Biology</i> , 2005, 67, 563-611.	0.9	17
134	The application of mathematical modelling to aspects of adjuvant chemotherapy scheduling. <i>Journal of Mathematical Biology</i> , 2004, 48, 375-422.	0.8	33
135	Mode-doubling and tripling in reaction-diffusion patterns on growing domains: A piecewise linear model. <i>Journal of Mathematical Biology</i> , 2002, 44, 107-128.	0.8	73
136	Investigating a simple model of cutaneous wound healing angiogenesis. <i>Journal of Mathematical Biology</i> , 2002, 45, 337-374.	0.8	68
137	The Mathematical Modelling of Cell Kinetics in Corneal Epithelial Wound Healing. <i>Journal of Theoretical Biology</i> , 1999, 197, 15-40.	0.8	36
138	Reaction and Diffusion on Growing Domains: Scenarios for Robust Pattern Formation. <i>Bulletin of Mathematical Biology</i> , 1999, 61, 1093-1120.	0.9	286
139	Wound Healing in the Corneal Epithelium: Biological Mechanisms and Mathematical Models. <i>Journal of Theoretical Medicine</i> , 1997, 1, 13-23.	0.5	7
140	Hard thermal loops, weak gravitational fields and the quark-gluon plasma energy-momentum tensor. <i>Nuclear Physics B</i> , 1995, 442, 268-298.	0.9	2