

# Nick Monk

## List of Publications by Year in descending order

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34  
papers

1,197  
citations

394421

19  
h-index

477307

29  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex pattern formation in reaction–diffusion systems with spatially varying parameters. <i>Physica D: Nonlinear Phenomena</i> , 2005, 202, 95-115.	2.8	104
2	Bioattractors: dynamical systems theory and the evolution of regulatory processes. <i>Journal of Physiology</i> , 2014, 592, 2267-2281.	2.9	92
3	Regulative feedback in pattern formation: towards a general relativistic theory of positional information. <i>Development (Cambridge)</i> , 2008, 135, 3175-3183.	2.5	89
4	Gene Expression Time Delays and Turing Pattern Formation Systems. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 99-130.	1.9	78
5	A Mutual Support Mechanism through Intercellular Movement of CAPRICE and GLABRA3 Can Pattern the Arabidopsis Root Epidermis. <i>PLoS Biology</i> , 2008, 6, e235.	5.6	78
6	Pattern formation in spatially heterogeneous Turing reaction–diffusion models. <i>Physica D: Nonlinear Phenomena</i> , 2003, 181, 80-101.	2.8	67
7	Modularity, criticality, and evolvability of a developmental gene regulatory network. <i>ELife</i> , 2019, 8, .	6.0	67
8	Dissecting the dynamics of the Hes1 genetic oscillator. <i>Journal of Theoretical Biology</i> , 2008, 254, 784-798.	1.7	65
9	Positional Signaling and Expression of ENHANCER OF TRY AND CPC1 Are Tuned to Increase Root Hair Density in Response to Phosphate Deficiency in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2013, 8, e75452.	2.5	59
10	<scp>leafprocessor</scp>: a new leaf phenotyping tool using contour bending energy and shape cluster analysis. <i>New Phytologist</i> , 2010, 187, 251-261.	7.3	58
11	Compensatory Flux Changes within an Endocytic Trafficking Network Maintain Thermal Robustness of Notch Signaling. <i>Cell</i> , 2014, 157, 1160-1174.	28.9	57
12	The Inheritance of Process: A Dynamical Systems Approach. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012, 318, 591-612.	1.3	56
13	The Influence of Gene Expression Time Delays on Gierer–Meinhardt Pattern Formation Systems. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 2139-2160.	1.9	54
14	Auxin influx importers modulate serration along the leaf margin. <i>Plant Journal</i> , 2015, 83, 705-718.	5.7	48
15	Modelling and Analysis of Planar Cell Polarity. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 645-680.	1.9	32
16	Everything flows. <i>EMBO Reports</i> , 2015, 16, 1064-1067.	4.5	31
17	Restricted-range Gradients and Travelling Fronts in a Model of Juxtacrine Cell Relay. <i>Bulletin of Mathematical Biology</i> , 1998, 60, 901-918.	1.9	26
18	Robustness of positional specification by the Hedgehog morphogen gradient. <i>Developmental Biology</i> , 2010, 342, 180-193.	2.0	22

#	ARTICLE	IF	CITATIONS
19	A Shift toward Smaller Cell Size via Manipulation of Cell Cycle Gene Expression Acts to Smoothen Arabidopsis Leaf Shape. <i>Plant Physiology</i> , 2011, 156, 2196-2206.	4.8	20
20	Effect of time delay on pattern formation: Competition between homogenisation and patterning. <i>Physica D: Nonlinear Phenomena</i> , 2005, 207, 254-271.	2.8	19
21	Anteroposterior patterning of the zebrafish ear through Fgf- and Hh-dependent regulation of hmx3a expression. <i>PLoS Genetics</i> , 2019, 15, e1008051.	3.5	17
22	A Model of Primitive Streak Initiation in the Chick Embryo. <i>Journal of Theoretical Biology</i> , 2001, 208, 419-438.	1.7	12
23	Perturbation analysis of a multi-morphogen turing reaction-diffusion stripe patterning system reveals key regulatory interactions. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	11
24	Dynamical modules in metabolism, cell and developmental biology. <i>Interface Focus</i> , 2021, 11, 20210011.	3.0	11
25	Is a Persistent Global Bias Necessary for the Establishment of Planar Cell Polarity?. <i>PLoS ONE</i> , 2013, 8, e60064.	2.5	11
26	The flowering of systems approaches in plant and crop biology. <i>New Phytologist</i> , 2008, 179, 567-568.	7.3	7
27	Asymmetric fixation. <i>Nature</i> , 2004, 427, 111-112.	27.8	2
28	Development: Dissecting the Dynamics of Segment Determination. <i>Current Biology</i> , 2004, 14, R705-R707.	3.9	1
29	Re-Entrant Corner for a White-Metzner Fluid. <i>Fluids</i> , 2021, 6, 241.	1.7	1
30	The flow of substance: a reply to Horsting & Hartjes. <i>EMBO Reports</i> , 0, , .	4.5	1
31	Reply to Correspondence: No Oscillations in Real Activator-Inhibitor Systems in Accomplishing Pattern Formation. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 2268-2271.	1.9	0
32	Julian Hart Lewis, F.R.S. (1946-2014). <i>Developmental Cell</i> , 2014, 29, 507-509.	7.0	0
33	Dynamical Modularity of the Genotype-Phenotype Map. , 2021, , 245-280.		0
34	Unravelling Nature's Networks: From Microarray and Proteomic Analysis to Systems Biology: University of Sheffield, 21-22 July 2003. <i>Biochemist</i> , 2003, 25, 40-41.	0.5	0