Nick Monk

List of Publications by Year
in descending order

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	Dynamical Modularity of the Genotype-Phenotype Map. , 2021, , 245-280.		0
2	Dynamical modules in metabolism, cell and developmental biology. Interface Focus, 2021, 11, 20210011.	3.0	11
3	Re-Entrant Corner for a White-Metzner Fluid. Fluids, 2021, 6, 241.	1.7	1
4	Perturbation analysis of a multi-morphogen turing reaction-diffusion stripe patterning system reveals key regulatory interactions. Development (Cambridge), 2020, 147, .	2.5	11
5	Anteroposterior patterning of the zebrafish ear through Fgf- and Hh-dependent regulation of hmx3a expression. PLoS Genetics, 2019, 15, e1008051.	3.5	17
6	Modularity, criticality, and evolvability of a developmental gene regulatory network. ELife, 2019, 8, .	6.0	67
7	Auxin influx importers modulate serration along the leaf margin. Plant Journal, 2015, 83, 705-718.	5.7	48
8	Everything flows. EMBO Reports, 2015, 16, 1064-1067.	4.5	31
9	Bioattractors: dynamical systems theory and the evolution of regulatory processes. Journal of Physiology, 2014, 592, 2267-2281.	2.9	92
10	Compensatory Flux Changes within an Endocytic Trafficking Network Maintain Thermal Robustness of Notch Signaling. Cell, 2014, 157, 1160-1174.	28.9	57
11	Julian Hart Lewis, F.R.S. (1946â€"2014). Developmental Cell, 2014, 29, 507-509.	7.0	0
12	Is a Persistent Global Bias Necessary for the Establishment of Planar Cell Polarity?. PLoS ONE, 2013, 8, e60064.	2.5	11
13	Positional Signaling and Expression of ENHANCER OF TRY AND CPC1 Are Tuned to Increase Root Hair Density in Response to Phosphate Deficiency in Arabidopsis thaliana. PLoS ONE, 2013, 8, e75452.	2.5	59
14	The Inheritance of Process: A Dynamical Systems Approach. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2012, 318, 591-612.	1.3	56
15	Reply to Correspondence: No Oscillations in Real Activatorâ€"Inhibitor Systems in Accomplishing Pattern Formation. Bulletin of Mathematical Biology, 2012, 74, 2268-2271.	1.9	0
16	A Shift toward Smaller Cell Size via Manipulation of Cell Cycle Gene Expression Acts to Smoothen Arabidopsis Leaf Shape Â. Plant Physiology, 2011, 156, 2196-2206.	4.8	20
17	Modelling and Analysis of Planar Cell Polarity. Bulletin of Mathematical Biology, 2010, 72, 645-680.	1.9	32
18	The Influence of Gene Expression Time Delays onÂGiererâ€"Meinhardt Pattern Formation Systems. Bulletin of Mathematical Biology, 2010, 72, 2139-2160.	1.9	54

#	Article	IF	Citations
19	<scp>leafprocessor</scp>: a new leaf phenotyping tool using contour bending energy and shape cluster analysis. New Phytologist, 2010, 187, 251-261.	7.3	58
20	Robustness of positional specification by the Hedgehog morphogen gradient. Developmental Biology, 2010, 342, 180-193.	2.0	22
21	Dissecting the dynamics of the Hes1 genetic oscillator. Journal of Theoretical Biology, 2008, 254, 784-798.	1.7	65
22	The flowering of systems approaches in plant and crop biology. New Phytologist, 2008, 179, 567-568.	7.3	7
23	Regulative feedback in pattern formation: towards a general relativistic theory of positional information. Development (Cambridge), 2008, 135, 3175-3183.	2.5	89
24	A Mutual Support Mechanism through Intercellular Movement of CAPRICE and GLABRA3 Can Pattern the Arabidopsis Root Epidermis. PLoS Biology, 2008, 6, e235.	5.6	78
25	Gene Expression Time Delays and Turing Pattern Formation Systems. Bulletin of Mathematical Biology, 2006, 68, 99-130.	1.9	78
26	Complex pattern formation in reactionâ€"diffusion systems with spatially varying parameters. Physica D: Nonlinear Phenomena, 2005, 202, 95-115.	2.8	104
27	Effect of time delay on pattern formation: Competition between homogenisation and patterning. Physica D: Nonlinear Phenomena, 2005, 207, 254-271.	2.8	19
28	Asymmetric fixation. Nature, 2004, 427, 111-112.	27.8	2
29	Development: Dissecting the Dynamics of Segment Determination. Current Biology, 2004, 14, R705-R707.	3.9	1
30	Pattern formation in spatially heterogeneous Turing reactionâ€"diffusion models. Physica D: Nonlinear Phenomena, 2003, 181, 80-101.	2.8	67
31	Unravelling Nature's Networks: From Microarray and Proteomic Analysis to Systems Biology: University of Sheffield, 21â€"22 July 2003. Biochemist, 2003, 25, 40-41.	0.5	0
32	A Model of Primitive Streak Initiation in the Chick Embryo. Journal of Theoretical Biology, 2001, 208, 419-438.	1.7	12
33	Restricted-range Gradients and Travelling Fronts in a Model of Juxtacrine Cell Relay. Bulletin of Mathematical Biology, 1998, 60, 901-918.	1.9	26
34	The flow of substance: a reply to Horsting & Hartjes. EMBO Reports, 0, , .	4.5	1