

# Nicholas A Hamilton

## List of Publications by Year in descending order

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76  
papers

3,444  
citations

201674

27  
h-index

155660

55  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5085  
citing authors

#	ARTICLE	IF	CITATIONS
1	Myosin II isoforms identify distinct functional modules that support integrity of the epithelial zonula adherens. <i>Nature Cell Biology</i> , 2010, 12, 696-702.	10.3	296
2	Visualization of image data from cells to organisms. <i>Nature Methods</i> , 2010, 7, S26-S41.	19.0	226
3	Global Quantification of Tissue Dynamics in the Developing Mouse Kidney. <i>Developmental Cell</i> , 2014, 29, 188-202.	7.0	225
4	Cortical F-actin stabilization generates apical-lateral patterns of junctional contractility that integrate cells into epithelia. <i>Nature Cell Biology</i> , 2014, 16, 167-178.	10.3	199
5	The Vps35 D620N Mutation Linked to Parkinson's Disease Disrupts the Cargo Sorting Function of Retromer. <i>Traffic</i> , 2014, 15, 230-244.	2.7	186
6	Feedback regulation through myosin II confers robustness on RhoA signalling at E-cadherin junctions. <i>Nature Cell Biology</i> , 2015, 17, 1282-1293.	10.3	148
7	Fast automated cell phenotype image classification. <i>BMC Bioinformatics</i> , 2007, 8, 110.	2.6	137
8	Phylogenetic identification of lateral genetic transfer events. <i>BMC Evolutionary Biology</i> , 2006, 6, 15.	3.2	129
9	Visualisation of macropinosome maturation by the recruitment of sorting nexins. <i>Journal of Cell Science</i> , 2006, 119, 3967-3980.	2.0	125
10	LOCATE: a mammalian protein subcellular localization database. <i>Nucleic Acids Research</i> , 2007, 36, D230-D233.	14.5	124
11	N-WASP regulates the epithelial junctional actin cytoskeleton through a non-canonical post-nucleation pathway. <i>Nature Cell Biology</i> , 2011, 13, 934-943.	10.3	122
12	Quantification and its Applications in Fluorescent Microscopy Imaging. <i>Traffic</i> , 2009, 10, 951-961.	2.7	116
13	Inhibition of the PtdIns(5) kinase PIKfyve disrupts intracellular replication of Salmonella. <i>EMBO Journal</i> , 2010, 29, 1331-1347.	7.8	95
14	Interpretable deep learning systems for multi-class segmentation and classification of non-melanoma skin cancer. <i>Medical Image Analysis</i> , 2021, 68, 101915.	11.6	85
15	The Recycling Endosome Protein Rab17 Regulates Melanocytic Filopodia Formation and Melanosome Trafficking. <i>Traffic</i> , 2011, 12, 627-643.	2.7	83
16	Anillin Promotes Cell Contractility by Cyclic Resetting of RhoA Residence Kinetics. <i>Developmental Cell</i> , 2019, 49, 894-906.e12.	7.0	75
17	Cap mesenchyme cell swarming during kidney development is influenced by attraction, repulsion, and adhesion to the ureteric tip. <i>Developmental Biology</i> , 2016, 418, 297-306.	2.0	71
18	Protein contact prediction using patterns of correlation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 56, 679-684.	2.6	63

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19	Postlipolytic insulin-dependent remodeling of micro lipid droplets in adipocytes. <i>Molecular Biology of the Cell</i> , 2012, 23, 1826-1837.	2.1	59
20	Nephron progenitor commitment is a stochastic process influenced by cell migration. <i>ELife</i> , 2019, 8, .	6.0	47
21	An integrated pipeline for the multidimensional analysis of branching morphogenesis. <i>Nature Protocols</i> , 2014, 9, 2859-2879.	12.0	44
22	Fast Parallel Markov Clustering in Bioinformatics Using Massively Parallel Computing on GPU with CUDA and ELLPACK-R Sparse Format. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012, 9, 679-692.	3.0	40
23	Recycling endosome-dependent and -independent mechanisms for IL-10 secretion in LPS-activated macrophages. <i>Journal of Leukocyte Biology</i> , 2012, 92, 1227-1239.	3.3	39
24	Automated organelle-based colocalization in whole-cell imaging. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 941-950.	1.5	37
25	Hepatocyte Growth Factor Acutely Perturbs Actin Filament Anchorage at the Epithelial Zonula Adherens. <i>Current Biology</i> , 2011, 21, 503-507.	3.9	37
26	Multicomponent Analysis of Junctional Movements Regulated by Myosin II Isoforms at the Epithelial Zonula Adherens. <i>PLoS ONE</i> , 2011, 6, e22458.	2.5	34
27	Towards defining the nuclear proteome. <i>Genome Biology</i> , 2008, 9, R15.	9.6	29
28	Functional characterization of retromer in GLUT4 storage vesicle formation and adipocyte differentiation. <i>FASEB Journal</i> , 2016, 30, 1037-1050.	0.5	27
29	Tyrosine dephosphorylated cortactin downregulates contractility at the epithelial zonula adherens through SRGAP1. <i>Nature Communications</i> , 2017, 8, 790.	12.8	27
30	Branching morphogenesis in the developing kidney is not impacted by nephron formation or integration. <i>ELife</i> , 2018, 7, .	6.0	25
31	Branching morphogenesis in the developing kidney is governed by rules that pattern the ureteric tree. <i>Development (Cambridge)</i> , 2017, 144, 4377-4385.	2.5	24
32	Statistical and visual differentiation of subcellular imaging. <i>BMC Bioinformatics</i> , 2009, 10, 94.	2.6	23
33	Some novel techniques of parameter estimation for dynamical models in biological systems. <i>IMA Journal of Applied Mathematics</i> , 2013, 78, 235-260.	1.6	23
34	High-throughput quantification of early stages of phagocytosis. <i>BioTechniques</i> , 2013, 55, 115-124.	1.8	23
35	Rapid Surveillance for Vector Presence (RSVP): Development of a novel system for detecting <i>Aedes aegypti</i> and <i>Aedes albopictus</i> . <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005505.	3.0	23
36	More maximal arcs in Desarguesian projective planes and their geometric structure. <i>Advances in Geometry</i> , 2003, 3, 251-261.	0.4	22

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37	A spatially-averaged mathematical model of kidney branching morphogenesis. <i>Journal of Theoretical Biology</i> , 2015, 379, 24-37.	1.7	22
38	Self-organisation after embryonic kidney dissociation is driven via selective adhesion of ureteric epithelial cells.. <i>Development (Cambridge)</i> , 2017, 144, 1087-1096.	2.5	22
39	CMap3D: a 3D visualization tool for comparative genetic maps. <i>Bioinformatics</i> , 2010, 26, 273-274.	4.1	20
40	Bilateral edge filter: Photometrically weighted, discontinuity based edge detection. <i>Journal of Structural Biology</i> , 2007, 160, 93-102.	2.8	18
41	Groups of Maximal Arcs. <i>Journal of Combinatorial Theory - Series A</i> , 2001, 94, 63-86.	0.8	16
42	Visualizing and clustering high throughput sub-cellular localization imaging. <i>BMC Bioinformatics</i> , 2008, 9, 81.	2.6	15
43	Centrobins regulate centrosome function in interphase cells by limiting pericentriolar matrix recruitment. <i>Cell Cycle</i> , 2013, 12, 899-906.	2.6	15
44	Hyperovals and Unitals in Figueroa Planes. <i>European Journal of Combinatorics</i> , 1998, 19, 215-220.	0.8	14
45	Sets of Type (a, b) From Subgroups of $\tilde{L}(1, pR)$ . <i>Journal of Algebraic Combinatorics</i> , 2001, 13, 67-76.	0.8	14
46	DomainDraw: a macromolecular feature drawing program. <i>In Silico Biology</i> , 2007, 7, 145-50.	0.9	13
47	On the spectrum of non-Denniston maximal arcs in $PG(2,2h)$ . <i>European Journal of Combinatorics</i> , 2004, 25, 415-421.	0.8	12
48	Degree 8 Maximal Arcs in $PG(2,2h)$ , $h$ Odd. <i>Journal of Combinatorial Theory - Series A</i> , 2002, 100, 265-276.	0.8	10
49	Modelling cell turnover in a complex tissue during development. <i>Journal of Theoretical Biology</i> , 2013, 338, 66-79.	1.7	10
50	Comparing and distinguishing the structure of biological branching. <i>Journal of Theoretical Biology</i> , 2015, 365, 226-237.	1.7	10
51	Maximal arcs and disjoint maximal arcs in projective planes of order 16. <i>Journal of Geometry</i> , 2000, 67, 117-126.	0.4	9
52	Existence and Non-existence of $m$ -systems of Polar Spaces. <i>European Journal of Combinatorics</i> , 2001, 22, 51-61.	0.8	9
53	Non-melanoma skin cancer segmentation for histopathology dataset. <i>Data in Brief</i> , 2021, 39, 107587.	1.0	9
54	Some inherited maximal arcs in derived dual translation planes. <i>Geometriae Dedicata</i> , 1995, 55, 165-173.	0.3	7

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55	Strongly Regular $(\hat{1}, \hat{1}^2)$ -Geometries. Journal of Combinatorial Theory - Series A, 2001, 95, 234-250.	0.8	7
56	Analyzing Real-Time Video Microscopy: The Dynamics and Geometry of Vesicles and Tubules in Endocytosis. Current Protocols in Cell Biology, 2007, 35, Unit 4.16.	2.3	7
57	An Introduction to Protein Contact Prediction. Methods in Molecular Biology, 2008, 453, 87-104.	0.9	7
58	Open Source Tools for Fluorescent Imaging. Methods in Enzymology, 2012, 504, 393-417.	1.0	7
59	A characterisation of the maximal arcs in translation planes of square order. Journal of Geometry, 1994, 51, 60-66.	0.4	6
60	Some maximal arcs in Hall planes. Journal of Geometry, 1995, 52, 101-107.	0.4	6
61	Dynamic imaging of the recycling endosomal network in macrophages. Methods in Cell Biology, 2015, 130, 1-18.	1.1	6
62	$\{m\}$ -systems of polar spaces and maximal arcs in projective planes. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2000, 7, .	0.2	6
63	Some Maximal Arcs in Derived Dual Hall Planes. European Journal of Combinatorics, 1994, 15, 525-532.	0.8	5
64	On the Non-existence of the Maximal Arcs in Odd Order Projective Planes. European Journal of Combinatorics, 1998, 19, 413-417.	0.8	5
65	Full Embeddings of $(\hat{1}, \hat{1}^2)$ -Geometries in Projective Spaces. European Journal of Combinatorics, 2002, 23, 635-646.	0.8	5
66	Strongly regular graphs from differences of quadrics. Discrete Mathematics, 2002, 256, 465-469.	0.7	5
67	Fast Parallel Markov Clustering in Bioinformatics Using Massively Parallel Graphics Processing Unit Computing. , 2010, , .		5
68	Maximal arcs in $PG(2, q)$ and partial flocks of the quadratic cone. Advances in Geometry, 2006, 6, 39-51.	0.4	4
69	A GPU Implementation of Fast Parallel Markov Clustering in Bioinformatics Using ELLPACK-R Sparse Data Format. , 2010, , .		3
70	On linear models and parameter identifiability in experimental biological systems. Journal of Theoretical Biology, 2014, 358, 102-121.	1.7	3
71	RAZA: A Rapid 3D z-crossings algorithm to segment electron tomograms and extract organelles and macromolecules. Journal of Structural Biology, 2017, 200, 73-86.	2.8	3
72	Image-Based Analysis of Phagocytosis: Measuring Engulfment and Internalization. Methods in Molecular Biology, 2017, 1519, 201-214.	0.9	3

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73	Analysed cap mesenchyme track data from live imaging of mouse kidney development. Data in Brief, 2016, 9, 149-154.	1.0	2
74	LLAMA: a robust and scalable machine learning pipeline for analysis of large scale 4D microscopy data: analysis of cell ruffles and filopodia. BMC Bioinformatics, 2021, 22, 410.	2.6	2
75	Linear models for endocytic transformations from live cell imaging. ANZIAM Journal, 0, 51, 156.	0.0	1
76	An integrated cell, tissue and whole organ profile of kidney morphogenesis. Mechanisms of Development, 2017, 145, S152-S153.	1.7	0