

Nicholas A Hamilton

List of Publications by Year in descending order

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76
papers

3,444
citations

201385

27
h-index

155451

55
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82
all docs

82
docs citations

82
times ranked

5085
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpretable deep learning systems for multi-class segmentation and classification of non-melanoma skin cancer. <i>Medical Image Analysis</i> , 2021, 68, 101915.	7.0	85
2	LLAMA: a robust and scalable machine learning pipeline for analysis of large scale 4D microscopy data: analysis of cell ruffles and filopodia. <i>BMC Bioinformatics</i> , 2021, 22, 410.	1.2	2
3	Non-melanoma skin cancer segmentation for histopathology dataset. <i>Data in Brief</i> , 2021, 39, 107587.	0.5	9
4	Anillin Promotes Cell Contractility by Cyclic Resetting of RhoA Residence Kinetics. <i>Developmental Cell</i> , 2019, 49, 894-906.e12.	3.1	75
5	Nephron progenitor commitment is a stochastic process influenced by cell migration. <i>ELife</i> , 2019, 8, .	2.8	47
6	Branching morphogenesis in the developing kidney is not impacted by nephron formation or integration. <i>ELife</i> , 2018, 7, .	2.8	25
7	Self-organisation after embryonic kidney dissociation is driven via selective adhesion of ureteric epithelial cells.. <i>Development (Cambridge)</i> , 2017, 144, 1087-1096.	1.2	22
8	RAZA: A Rapid 3D z-crossings algorithm to segment electron tomograms and extract organelles and macromolecules. <i>Journal of Structural Biology</i> , 2017, 200, 73-86.	1.3	3
9	Tyrosine dephosphorylated cortactin downregulates contractility at the epithelial zonula adherens through SRGAP1. <i>Nature Communications</i> , 2017, 8, 790.	5.8	27
10	Branching morphogenesis in the developing kidney is governed by rules that pattern the ureteric tree. <i>Development (Cambridge)</i> , 2017, 144, 4377-4385.	1.2	24
11	An integrated cell, tissue and whole organ profile of kidney morphogenesis. <i>Mechanisms of Development</i> , 2017, 145, S152-S153.	1.7	0
12	Image-Based Analysis of Phagocytosis: Measuring Engulfment and Internalization. <i>Methods in Molecular Biology</i> , 2017, 1519, 201-214.	0.4	3
13	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.	1.3	23
14	Analysed cap mesenchyme track data from live imaging of mouse kidney development. <i>Data in Brief</i> , 2016, 9, 149-154.	0.5	2
15	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.	0.9	71
16	Functional characterization of retromer in GLUT4 storage vesicle formation and adipocyte differentiation. <i>FASEB Journal</i> , 2016, 30, 1037-1050.	0.2	27
17	Dynamic imaging of the recycling endosomal network in macrophages. <i>Methods in Cell Biology</i> , 2015, 130, 1-18.	0.5	6
18	A spatially-averaged mathematical model of kidney branching morphogenesis. <i>Journal of Theoretical Biology</i> , 2015, 379, 24-37.	0.8	22

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19	Feedback regulation through myosin II confers robustness on RhoA signalling at E-cadherin junctions. <i>Nature Cell Biology</i> , 2015, 17, 1282-1293.	4.6	148
20	Comparing and distinguishing the structure of biological branching. <i>Journal of Theoretical Biology</i> , 2015, 365, 226-237.	0.8	10
21	An integrated pipeline for the multidimensional analysis of branching morphogenesis. <i>Nature Protocols</i> , 2014, 9, 2859-2879.	5.5	44
22	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.	4.6	199
23	The Vps35 ^{D620N} Mutation Linked to Parkinson's Disease Disrupts the Cargo Sorting Function of Retromer. <i>Traffic</i> , 2014, 15, 230-244.	1.3	186
24	Global Quantification of Tissue Dynamics in the Developing Mouse Kidney. <i>Developmental Cell</i> , 2014, 29, 188-202.	3.1	225
25	On linear models and parameter identifiability in experimental biological systems. <i>Journal of Theoretical Biology</i> , 2014, 358, 102-121.	0.8	3
26	Modelling cell turnover in a complex tissue during development. <i>Journal of Theoretical Biology</i> , 2013, 338, 66-79.	0.8	10
27	Centrobin regulates centrosome function in interphase cells by limiting pericentriolar matrix recruitment. <i>Cell Cycle</i> , 2013, 12, 899-906.	1.3	15
28	Some novel techniques of parameter estimation for dynamical models in biological systems. <i>IMA Journal of Applied Mathematics</i> , 2013, 78, 235-260.	0.8	23
29	High-throughput quantification of early stages of phagocytosis. <i>BioTechniques</i> , 2013, 55, 115-124.	0.8	23
30	Postlipolytic insulin-dependent remodeling of micro lipid droplets in adipocytes. <i>Molecular Biology of the Cell</i> , 2012, 23, 1826-1837.	0.9	59
31	Recycling endosome-dependent and -independent mechanisms for IL-10 secretion in LPS-activated macrophages. <i>Journal of Leukocyte Biology</i> , 2012, 92, 1227-1239.	1.5	39
32	Open Source Tools for Fluorescent Imaging. <i>Methods in Enzymology</i> , 2012, 504, 393-417.	0.4	7
33	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.	1.9	40
34	Multicomponent Analysis of Junctional Movements Regulated by Myosin II Isoforms at the Epithelial Zonula Adherens. <i>PLoS ONE</i> , 2011, 6, e22458.	1.1	34
35	The Recycling Endosome Protein Rab17 Regulates Melanocytic Filopodia Formation and Melanosome Trafficking. <i>Traffic</i> , 2011, 12, 627-643.	1.3	83
36	Hepatocyte Growth Factor Acutely Perturbs Actin Filament Anchorage at the Epithelial Zonula Adherens. <i>Current Biology</i> , 2011, 21, 503-507.	1.8	37

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37	N-WASP regulates the epithelial junctional actin cytoskeleton through a non-canonical post-nucleation pathway. <i>Nature Cell Biology</i> , 2011, 13, 934-943.	4.6	122
38	Inhibition of the PtdIns(5) kinase PIKfyve disrupts intracellular replication of Salmonella. <i>EMBO Journal</i> , 2010, 29, 1331-1347.	3.5	95
39	Visualization of image data from cells to organisms. <i>Nature Methods</i> , 2010, 7, S26-S41.	9.0	226
40	CMap3D: a 3D visualization tool for comparative genetic maps. <i>Bioinformatics</i> , 2010, 26, 273-274.	1.8	20
41	Fast Parallel Markov Clustering in Bioinformatics Using Massively Parallel Graphics Processing Unit Computing. , 2010, , .		5
42	Myosin II isoforms identify distinct functional modules that support integrity of the epithelial zonula adherens. <i>Nature Cell Biology</i> , 2010, 12, 696-702.	4.6	296
43	A GPU Implementation of Fast Parallel Markov Clustering in Bioinformatics Using ELLPACK-R Sparse Data Format. , 2010, , .		3
44	Statistical and visual differentiation of subcellular imaging. <i>BMC Bioinformatics</i> , 2009, 10, 94.	1.2	23
45	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.	1.1	37
46	Quantification and its Applications in Fluorescent Microscopy Imaging. <i>Traffic</i> , 2009, 10, 951-961.	1.3	116
47	Visualizing and clustering high throughput sub-cellular localization imaging. <i>BMC Bioinformatics</i> , 2008, 9, 81.	1.2	15
48	Towards defining the nuclear proteome. <i>Genome Biology</i> , 2008, 9, R15.	13.9	29
49	An Introduction to Protein Contact Prediction. <i>Methods in Molecular Biology</i> , 2008, 453, 87-104.	0.4	7
50	LOCATE: a mammalian protein subcellular localization database. <i>Nucleic Acids Research</i> , 2007, 36, D230-D233.	6.5	124
51	Bilateral edge filter: Photometrically weighted, discontinuity based edge detection. <i>Journal of Structural Biology</i> , 2007, 160, 93-102.	1.3	18
52	Analyzing Real-time Video Microscopy: The Dynamics and Geometry of Vesicles and Tubules in Endocytosis. <i>Current Protocols in Cell Biology</i> , 2007, 35, Unit 4.16.	2.3	7
53	Fast automated cell phenotype image classification. <i>BMC Bioinformatics</i> , 2007, 8, 110.	1.2	137
54	DomainDraw: a macromolecular feature drawing program. <i>In Silico Biology</i> , 2007, 7, 145-50.	0.4	13

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55	Phylogenetic identification of lateral genetic transfer events. BMC Evolutionary Biology, 2006, 6, 15.	3.2	129
56	Maximal arcs in $PG(2, q)$ and partial flocks of the quadratic cone. Advances in Geometry, 2006, 6, 39-51.	0.2	4
57	Visualisation of macropinosome maturation by the recruitment of sorting nexins. Journal of Cell Science, 2006, 119, 3967-3980.	1.2	125
58	Protein contact prediction using patterns of correlation. Proteins: Structure, Function and Bioinformatics, 2004, 56, 679-684.	1.5	63
59	On the spectrum of non-Denniston maximal arcs in $PG(2,2h)$. European Journal of Combinatorics, 2004, 25, 415-421.	0.5	12
60	More maximal arcs in Desarguesian projective planes and their geometric structure. Advances in Geometry, 2003, 3, 251-261.	0.2	22
61	Degree 8 Maximal Arcs in $PG(2,2h)$, h Odd. Journal of Combinatorial Theory - Series A, 2002, 100, 265-276.	0.5	10
62	Full Embeddings of $(\hat{1}\pm, \hat{1}^2)$ -Geometries in Projective Spaces. European Journal of Combinatorics, 2002, 23, 635-646.	0.5	5
63	Strongly regular graphs from differences of quadrics. Discrete Mathematics, 2002, 256, 465-469.	0.4	5
64	Existence and Non-existence of m -systems of Polar Spaces. European Journal of Combinatorics, 2001, 22, 51-61.	0.5	9
65	Groups of Maximal Arcs. Journal of Combinatorial Theory - Series A, 2001, 94, 63-86.	0.5	16
66	Strongly Regular $(\hat{1}\pm, \hat{1}^2)$ -Geometries. Journal of Combinatorial Theory - Series A, 2001, 95, 234-250.	0.5	7
67	Sets of Type (a, b) From Subgroups of $\hat{1}^L(1, pR)$. Journal of Algebraic Combinatorics, 2001, 13, 67-76.	0.4	14
68	Maximal arcs and disjoint maximal arcs in projective planes of order 16. Journal of Geometry, 2000, 67, 117-126.	0.1	9
69	$\{m\}$ -systems of polar spaces and maximal arcs in projective planes. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2000, 7, .	0.1	6
70	Hyperovals and Unitals in Figueroa Planes. European Journal of Combinatorics, 1998, 19, 215-220.	0.5	14
71	On the Non-existence of T Maximal Arcs in Odd Order Projective Planes. European Journal of Combinatorics, 1998, 19, 413-417.	0.5	5
72	Some inherited maximal arcs in derived dual translation planes. Geometriae Dedicata, 1995, 55, 165-173.	0.1	7

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73	Some maximal arcs in Hall planes. <i>Journal of Geometry</i> , 1995, 52, 101-107.	0.1	6
74	Some Maximal Arcs in Derived Dual Hall Planes. <i>European Journal of Combinatorics</i> , 1994, 15, 525-532.	0.5	5
75	A characterisation of thas maximal arcs in translation planes of square order. <i>Journal of Geometry</i> , 1994, 51, 60-66.	0.1	6
76	Linear models for endocytic transformations from live cell imaging. <i>ANZIAM Journal</i> , 0, 51, 156.	0.0	1