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	Interpretable deep learning systems for multi-class segmentation and classification of non-melanoma skin cancer. Medical Image Analysis, 2021, 68, 101915.	11.6	85
2	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
3	Non-melanoma skin cancer segmentation for histopathology dataset. Data in Brief, 2021, 39, 107587.	1.0	9
4	Anillin Promotes Cell Contractility by Cyclic Resetting of RhoA Residence Kinetics. Developmental Cell, 2019, 49, 894-906.e12.	7.0	75
5	Nephron progenitor commitment is a stochastic process influenced by cell migration. ELife, 2019, 8, .	6.0	47
6	Branching morphogenesis in the developing kidney is not impacted by nephron formation or integration. ELife, 2018, 7, .	6.0	25
7	Self-organisation after embryonic kidney dissociation is driven via selective adhesion of ureteric epithelial cells.. Development (Cambridge), 2017, 144, 1087-1096.	2.5	22
8	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
9	Tyrosine dephosphorylated cortactin downregulates contractility at the epithelial zonula adherens through SRGAP1. Nature Communications, 2017, 8, 790.	12.8	27
10	Branching morphogenesis in the developing kidney is governed by rules that pattern the ureteric tree. Development (Cambridge), 2017, 144, 4377-4385.	2.5	24
11	An integrated cell, tissue and whole organ profile of kidney morphogenesis. Mechanisms of Development, 2017, 145, S152-S153.	1.7	0
12	Image-Based Analysis of Phagocytosis: Measuring Engulfment and Internalization. Methods in Molecular Biology, 2017, 1519, 201-214.	0.9	3
13	Rapid Surveillance for Vector Presence (RSVP): Development of a novel system for detecting Aedes aegypti and Aedes albopictus. PLoS Neglected Tropical Diseases, 2017, 11, e0005505.	3.0	23
14	Analysed cap mesenchyme track data from live imaging of mouse kidney development. Data in Brief, 2016, 9, 149-154.	1.0	2
15	Cap mesenchyme cell swarming during kidney development is influenced by attraction, repulsion, and adhesion to the ureteric tip. Developmental Biology, 2016, 418, 297-306.	2.0	71
16	Functional characterization of retromer in GLUT4 storage vesicle formation and adipocyte differentiation. FASEB Journal, 2016, 30, 1037-1050.	0.5	27
17	Dynamic imaging of the recycling endosomal network in macrophages. Methods in Cell Biology, 2015, 130, 1-18.	1.1	6
18	A spatially-averaged mathematical model of kidney branching morphogenesis. Journal of Theoretical Biology, 2015, 379, 24-37.	1.7	22

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19	Feedback regulation through myosin II confers robustness on RhoA signalling at E-cadherin junctions. Nature Cell Biology, 2015, 17, 1282-1293.	10.3	148
20	Comparing and distinguishing the structure of biological branching. Journal of Theoretical Biology, 2015, 365, 226-237.	1.7	10
21	An integrated pipeline for the multidimensional analysis of branching morphogenesis. Nature Protocols, 2014, 9, 2859-2879.	12.0	44
22	Cortical F-actin stabilization generates apicalâ€“lateral patterns of junctional contractility that integrate cells into epithelia. Nature Cell Biology, 2014, 16, 167-178.	10.3	199
23	The Vps35 <scp>D620N</scp> Mutation Linked to Parkinson's Disease Disrupts the Cargo Sorting Function of Retromer. Traffic, 2014, 15, 230-244.	2.7	186
24	Global Quantification of Tissue Dynamics in the Developing Mouse Kidney. Developmental Cell, 2014, 29, 188-202.	7.0	225
25	On linear models and parameter identifiability in experimental biological systems. Journal of Theoretical Biology, 2014, 358, 102-121.	1.7	3
26	Modelling cell turnover in a complex tissue during development. Journal of Theoretical Biology, 2013, 338, 66-79.	1.7	10
27	Centrobin regulates centrosome function in interphase cells by limiting pericentriolar matrix recruitment. Cell Cycle, 2013, 12, 899-906.	2.6	15
28	Some novel techniques of parameter estimation for dynamical models in biological systems. IMA Journal of Applied Mathematics, 2013, 78, 235-260.	1.6	23
29	High-throughput quantification of early stages of phagocytosis. BioTechniques, 2013, 55, 115-124.	1.8	23
30	Postlipolytic insulin-dependent remodeling of micro lipid droplets in adipocytes. Molecular Biology of the Cell, 2012, 23, 1826-1837.	2.1	59
31	Recycling endosome-dependent and -independent mechanisms for IL-10 secretion in LPS-activated macrophages. Journal of Leukocyte Biology, 2012, 92, 1227-1239.	3.3	39
32	Open Source Tools for Fluorescent Imaging. Methods in Enzymology, 2012, 504, 393-417.	1.0	7
33	Fast Parallel Markov Clustering in Bioinformatics Using Massively Parallel Computing on GPU with CUDA and ELLPACK-R Sparse Format. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 679-692.	3.0	40
34	Multicomponent Analysis of Junctional Movements Regulated by Myosin II Isoforms at the Epithelial Zonula Adherens. PLoS ONE, 2011, 6, e22458.	2.5	34
35	The Recycling Endosome Protein Rab17 Regulates Melanocytic Filopodia Formation and Melanosome Trafficking. Traffic, 2011, 12, 627-643.	2.7	83
36	Hepatocyte Growth Factor Acutely Perturbs Actin Filament Anchorage at the Epithelial Zonula Adherens. Current Biology, 2011, 21, 503-507.	3.9	37

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37	N-WASP regulates the epithelial junctional actin cytoskeleton through a non-canonical post-nucleation pathway. Nature Cell Biology, 2011, 13, 934-943.	10.3	122
38	Inhibition of the PtdIns(5) kinase PIKfyve disrupts intracellular replication of Salmonella. EMBO Journal, 2010, 29, 1331-1347.	7.8	95
39	Visualization of image data from cells to organisms. Nature Methods, 2010, 7, S26-S41.	19.0	226
40	CMap3D: a 3D visualization tool for comparative genetic maps. Bioinformatics, 2010, 26, 273-274.	4.1	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. Nature Cell Biology, 2010, 12, 696-702.	10.3	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. BMC Bioinformatics, 2009, 10, 94.	2.6	23
45	Automated organelleâ€based colocalization in wholeâ€cell imaging. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 941-950.	1.5	37
46	Quantification and its Applications in Fluorescent Microscopy Imaging. Traffic, 2009, 10, 951-961.	2.7	116
47	Visualizing and clustering high throughput sub-cellular localization imaging. BMC Bioinformatics, 2008, 9, 81.	2.6	15
48	Towards defining the nuclear proteome. Genome Biology, 2008, 9, R15.	9.6	29
49	An Introduction to Protein Contact Prediction. Methods in Molecular Biology, 2008, 453, 87-104.	0.9	7
50	LOCATE: a mammalian protein subcellular localization database. Nucleic Acids Research, 2007, 36, D230-D233.	14.5	124
51	Bilateral edge filter: Photometrically weighted, discontinuity based edge detection. Journal of Structural Biology, 2007, 160, 93-102.	2.8	18
52	Analyzing Realâ€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
53	Fast automated cell phenotype image classification. BMC Bioinformatics, 2007, 8, 110.	2.6	137
54	DomainDraw: a macromolecular feature drawing program. In Silico Biology, 2007, 7, 145-50.	0.9	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.	0.4	4
57	Visualisation of macropinosome maturation by the recruitment of sorting nexins. Journal of Cell Science, 2006, 119, 3967-3980.	2.0	125
58	Protein contact prediction using patterns of correlation. Proteins: Structure, Function and Bioinformatics, 2004, 56, 679-684.	2.6	63
59	On the spectrum of non-Denniston maximal arcs in PG(2,2h). European Journal of Combinatorics, 2004, 25, 415-421.	0.8	12
60	More maximal arcs in Desarguesian projective planes and their geometric structure. Advances in Geometry, 2003, 3, 251-261.	0.4	22
61	Degree 8 Maximal Arcs in PG(2,2h), h Odd. Journal of Combinatorial Theory - Series A, 2002, 100, 265-276.	0.8	10
62	Full Embeddings of (Î±, Î²) -Geometries in Projective Spaces. European Journal of Combinatorics, 2002, 23, 635-646.	0.8	5
63	Strongly regular graphs from differences of quadrics. Discrete Mathematics, 2002, 256, 465-469.	0.7	5
64	Existence and Non-existence ofm-systems of Polar Spaces. European Journal of Combinatorics, 2001, 22, 51-61.	0.8	9
65	Groups of Maximal Arcs. Journal of Combinatorial Theory - Series A, 2001, 94, 63-86.	0.8	16
66	Strongly Regular (Î±,ÂÎ²)-Geometries. Journal of Combinatorial Theory - Series A, 2001, 95, 234-250.	0.8	7
67	Sets of Type (a, b) From Subgroups of Î“L(1, pR). Journal of Algebraic Combinatorics, 2001, 13, 67-76.	0.8	14
68	Maximal arcs and disjoint maximal arcs in projective planes of order 16. Journal of Geometry, 2000, 67, 117-126.	0.4	9
69	{m}-systems of polar spaces and maximal arcs in projective planes. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2000, 7, .	0.2	6
70	Hyperovals and Unitals in Figueroa Planes. European Journal of Combinatorics, 1998, 19, 215-220.	0.8	14
71	On the Non-existence of Thas Maximal Arcs in Odd Order Projective Planes. European Journal of Combinatorics, 1998, 19, 413-417.	0.8	5
72	Some inherited maximal arcs in derived dual translation planes. Geometriae Dedicata, 1995, 55, 165-173.	0.3	7

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73	Some maximal arcs in Hall planes. Journal of Geometry, 1995, 52, 101-107.	0.4	6
74	Some Maximal Arcs in Derived Dual Hall Planes. European Journal of Combinatorics, 1994, 15, 525-532.	0.8	5
75	A characterisation of thas maximal arcs in translation planes of square order. Journal of Geometry, 1994, 51, 60-66.	0.4	6
76	Linear models for endocytic transformations from live cell imaging. ANZIAM Journal, 0, 51, 156.	0.0	1