Martin L Jones

List of Publications by Year in descending order

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Version: 2024-02-01

30 papers	1,722 citations	623734 14 h-index	454955 30 g-index
45 all docs	45 docs citations	45 times ranked	2666 citing authors

#	Article	IF	Citations
1	The role of differential VE-cadherin dynamics in cell rearrangement during angiogenesis. Nature Cell Biology, 2014, 16, 309-321.	10.3	328
2	Democratising deep learning for microscopy with ZeroCostDL4Mic. Nature Communications, 2021, 12, 2276.	12.8	295
3	Dynamic Endothelial Cell Rearrangements Drive Developmental Vessel Regression. PLoS Biology, 2015, 13, e1002125.	5.6	231
4	Non-canonical Wnt signalling modulates the endothelial shear stress flow sensor in vascular remodelling. ELife, 2016, 5, e07727.	6.0	125
5	Synchronization of endothelial Dll4-Notch dynamics switch blood vessels from branching to expansion. ELife, 2016, 5, .	6.0	115
6	Mycobacterium tuberculosis replicates within necrotic human macrophages. Journal of Cell Biology, 2017, 216, 583-594.	5.2	105
7	Computer simulations reveal complex distribution of haemodynamic forces in a mouse retina model of angiogenesis. Journal of the Royal Society Interface, 2014, 11, 20140543.	3.4	87
8	3D correlative light and electron microscopy of cultured cells using serial blockface scanning electron microscopy. Journal of Cell Science, 2017, 130, 278-291.	2.0	84
9	Deep learning for automatic segmentation of the nuclear envelope in electron microscopy data, trained with volunteer segmentations. Traffic, 2021, 22, 240-253.	2.7	34
10	PolNet: A Tool to Quantify Network-Level Cell Polarity and Blood Flow in Vascular Remodeling. Biophysical Journal, 2018, 114, 2052-2058.	0.5	29
11	Predicting the future: Towards symbiotic computational and experimental angiogenesis research. Experimental Cell Research, 2013, 319, 1240-1246.	2.6	27
12	Precision measurements of quantum defects in thenP_{3/2}Rydberg states of⁸⁵Rb. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 165004.	1.5	26
13	Computational fluid dynamics assisted characterization of parafoveal hemodynamics in normal and diabetic eyes using adaptive optics scanning laser ophthalmoscopy. Biomedical Optics Express, 2016, 7, 4958.	2.9	24
14	ultraLM and miniLM: Locator tools for smart tracking of fluorescent cells in correlative light and electron microscopy. Wellcome Open Research, 2016, 1, 26.	1.8	22
15	Segmentation and Modelling of the Nuclear Envelope of HeLa Cells Imaged with Serial Block Face Scanning Electron Microscopy. Journal of Imaging, 2019, 5, 75.	3.0	17
16	Standard fluorescent proteins as dual-modality probes for correlative experiments in an integrated light and electron microscope. Journal of Chemical Biology, 2015, 8, 179-188.	2.2	15
17	Semantic segmentation of HeLa cells: An objective comparison between one traditional algorithm and four deep-learning architectures. PLoS ONE, 2020, 15, e0230605.	2.5	15
18	Automated detection of fluorescent cells in inâ€resin fluorescence sections for integrated light and electron microscopy. Journal of Microscopy, 2018, 271, 109-119.	1.8	14

#	Article	IF	Citations
19	Quantum measurements of atoms using cavity QED. Physical Review A, 2011, 83, .	2.5	9
20	Single microwave photon detection in the micromaser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145501.	1.5	7
21	Evolutionary optimization of state selective field ionization for quantum computing. Applied Soft Computing Journal, 2011, 11, 2079-2082.	7.2	5
22	Creating and observingN-partite entanglement with atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 035504.	1.5	4
23	Dephasing of entangled atoms as an improved test of quantized space time. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 224003.	1.5	4
24	The crowd storms the ivory tower. Nature Methods, 2018, 15, 579-580.	19.0	4
25	Volumetric Semantic Instance Segmentation of the Plasma Membrane of HeLa Cells. Journal of Imaging, 2021, 7, 93.	3.0	4
26	Automated Segmentation of HeLa Nuclear Envelope from Electron Microscopy Images. Communications in Computer and Information Science, 2018, , 241-250.	0.5	3
27	Harnessing the Power of the Crowd for Bioimage Analysis. Microscopy and Microanalysis, 2019, 25, 1372-1373.	0.4	2
28	Segmentation And Modelling of Helanuclear Envelope. , 2019, , .		2
29	Universal Continuous Variable Quantum Computation in the Micromaser. Lecture Notes in Computer Science, 2010, , 152-163.	1.3	2
30	Emerging technologies and outlook. , 0, , .		1