Ricardo Henriques

List of Publications by Citations

80 papers	3,104 citations	27 h-index	55 g-index
105 ext. papers	4,647 ext. citations	10.5 avg, IF	5.34 L-index

#	Paper	IF	Citations
80	Content-aware image restoration: pushing the limits of fluorescence microscopy. *Nature Methods*, **2018**, 15, 1090-1097	21.6	369
79	QuickPALM: 3D real-time photoactivation nanoscopy image processing in ImageJ. *Nature Methods*, **2010**, 7, 339-40	21.6	327
78	Fast live-cell conventional fluorophore nanoscopy with ImageJ through super-resolution radial fluctuations. *Nature Communications*, **2016**, 7, 12471	17.4	278
77	TNF and IL-1 exhibit distinct ubiquitin requirements for inducing NEMO-IKK supramolecular structures. *Journal of Cell Biology*, **2014**, 204, 231-45	7.3	269
76	Quantitative mapping and minimization of super-resolution optical imaging artifacts. *Nature Methods*, **2018**, 15, 263-266	21.6	145
75	PALM and STORM: unlocking live-cell super-resolution. *Biopolymers*, **2011**, 95, 322-31	2.2	132
74	Super-resolution fight club: assessment of 2D and 3D single-molecule localization microscopy software. *Nature Methods*, **2019**, 16, 387-395	21.6	123
73	Superresolution imaging of HIV in infected cells with FlAsH-PALM. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 8564-9	11.5	118
72	Nuclear pores as versatile reference standards for quantitative superresolution microscopy. *Nature Methods*, **2019**, 16, 1045-1053	21.6	105
71	Regulated vesicle fusion generates signaling nanoterritories that control T cell activation at the immunological synapse. *Journal of Experimental Medicine*, **2013**, 210, 2415-33	16.6	101
70	SRRF: Universal live-cell super-resolution microscopy. *International Journal of Biochemistry and Cell Biology*, **2018**, 101, 74-79	5.6	71
69	Democratising deep learning for microscopy with ZeroCostDL4Mic. *Nature Communications*, **2021**, 12, 2276	17.4	69
68	NanoJ: a high-performance open-source super-resolution microscopy toolbox. *Journal Physics D: Applied Physics*, **2019**, 52, 163001	3	58
67	Mitochondria mediate septin cage assembly to promote autophagy of Shigella. *EMBO Reports*, **2016** , 17, 1029-43	6.5	58
66	The Role of Mitotic Cell-Substrate Adhesion Re-modeling in Animal Cell Division. *Developmental Cell*, **2018**, 45, 132-145.e3	10.2	55
65	K63-Linked Ubiquitination Targets Toxoplasma gondii for Endo-lysosomal Destruction in IFNγ-Stimulated Human Cells. *PLoS Pathogens*, **2016**, 12, e1006027	7.6	55
64	Artificial intelligence for microscopy: what you should know. *Biochemical Society Transactions*, **2019**, 47, 1029-1040	5.1	39

63	Single-molecule localization super-resolution microscopy: deeper and faster. *Microscopy and Microanalysis*, **2012**, 18, 1419-29	0.5	38
62	Septins Recognize and Entrap Dividing Bacterial Cells for Delivery to Lysosomes. *Cell Host and Microbe*, **2018**, 24, 866-874.e4	23.4	37
61	The cell biologist's guide to super-resolution microscopy. *Journal of Cell Science*, **2020**, 133,	5.3	36
60	Automating multimodal microscopy with NanoJ-Fluidics. *Nature Communications*, **2019**, 10, 1223	17.4	35
59	PALM and STORM: Into large fields and high-throughput microscopy with sCMOS detectors. *Methods*, **2015**, 88, 109-21	4.6	35
58	PALM and STORM: what hides beyond the Rayleigh limit?. *Biotechnology Journal*, **2009**, 4, 846-57	5.6	35
57	VirusMapper: open-source nanoscale mapping of viral architecture through super-resolution microscopy. *Scientific Reports*, **2016**, 6, 29132	4.9	33
56	Hierarchies of host factor dynamics at the entry site of Shigella flexneri during host cell invasion. *Infection and Immunity*, **2012**, 80, 2548-57	3.7	30
55	Fix Your Membrane Receptor Imaging: Actin Cytoskeleton and CD4 Membrane Organization Disruption by Chemical Fixation. *Frontiers in Immunology*, **2019**, 10, 675	8.4	28
54	Fluctuation-Based Super-Resolution Traction Force Microscopy. *Nano Letters*, **2020**, 20, 2230-2245	11.5	28
53	The proteasome controls ESCRT-III-mediated cell division in an archaeon. *Science*, **2020**, 369,	33.3	27
52	ZeroCostDL4Mic: an open platform to use Deep-Learning in Microscopy		24
51	High-throughput SNP genotyping: combining tag SNPs and molecular beacons. *Methods in Molecular Biology*, **2009**, 578, 255-76	1.4	23
50	Between life and death: strategies to reduce phototoxicity in super-resolution microscopy. *Journal Physics D: Applied Physics*, **2020**, 53, 163001	3	21
49	Closed mitosis requires local disassembly of the nuclear envelope. *Nature*, **2020**, 585, 119-123	50.4	21
48	Live Imaging of a Hyperthermophilic Archaeon Reveals Distinct Roles for Two ESCRT-III Homologs in Ensuring a Robust and Symmetric Division. *Current Biology*, **2020**, 30, 2852-2859.e4	6.3	20
47	High-content 3D multicolor super-resolution localization microscopy. *Methods in Cell Biology*, **2015**, 125, 95-117	1.8	20
46	TMEM16F activation by Ca triggers plasma membrane expansion and directs PD-1 trafficking. *Scientific Reports*, **2019**, 9, 619	4.9	19

45	Highly dynamic host actin reorganization around developing Plasmodium inside hepatocytes. *PLoS ONE*, **2012**, 7, e29408	3.7	19
44	Frontiers in fluorescence microscopy. *International Journal of Developmental Biology*, **2009**, 53, 1569-79	1.9	17
43	Super-resolution microscopy reveals a preformed NEMO lattice structure that is collapsed in incontinentia pigmenti. *Nature Communications*, **2016**, 7, 12629	17.4	13
42	Content-Aware Image Restoration: Pushing the Limits of Fluorescence Microscopy		13
41	Heterogeneous localisation of membrane proteins in Staphylococcus aureus. *Scientific Reports*, **2018**, 8, 3657	4.9	12
40	Nanoscale polarization of the entry fusion complex of vaccinia virus drives efficient fusion. *Nature Microbiology*, **2019**, 4, 1636-1644	26.6	12
39	Infection Counter: Automated Quantification of in Vitro Virus Replication by Fluorescence Microscopy. *Viruses*, **2016**, 8,	6.2	12
38	HIV-1 Nef Impairs the Formation of Calcium Membrane Territories Controlling the Signaling Nanoarchitecture at the Immunological Synapse. *Journal of Immunology*, **2016**, 197, 4042-4052	5.3	11
37	FtsZ treadmilling is essential for Z-ring condensation and septal constriction initiation in Bacillus subtilis cell division. *Nature Communications*, **2021**, 12, 2448	17.4	10
36	A HIDDEN MARKOV MODEL APPROACH TO CHARACTERIZING THE PHOTO-SWITCHING BEHAVIOR OF FLUOROPHORES. *Annals of Applied Statistics*, **2019**, 13, 1397-1429	2.1	7
35	vLUME: 3D virtual reality for single-molecule localization microscopy. *Nature Methods*, **2020**, 17, 1097-1099	25.6	7
34	Super-beacons: Open-source probes with spontaneous tuneable blinking compatible with live-cell super-resolution microscopy. *Traffic*, **2020**, 21, 375-385	5.7	6
33	Avoiding a replication crisis in deep-learning-based bioimage analysis. *Nature Methods*, **2021**, 18, 1136-1144	25.6	6
32	**2017**,		6
31	NanoJ-SQUIRREL: quantitative mapping and minimisation of super-resolution optical imaging artefacts		5
30	FtsZ treadmilling is essential for Z-ring condensation and septal constriction initiation in Bacillus subtilis cell division		5
29	Open-source Single-particle Analysis for Super-resolution Microscopy with VirusMapper. *Journal of Visualized Experiments*, **2017**,	1.6	4
28	Super-resolution fight club: A broad assessment of 2D & 3D single-molecule localization microscopy software		4

27	Nuclear pores as versatile reference standards for quantitative superresolution microscopy		4
26	The Field Guide to 3D Printing in Optical Microscopy for Life Sciences. *Advanced Biology*, **2021**, e2100994		3
25	Proteasome-mediated protein degradation resets the cell division cycle and triggers ESCRT-III-mediated cytokinesis in an archaeon		3
24	The Field Guide to 3D Printing in Microscopy		3
23	Application of Super-Resolution and Advanced Quantitative Microscopy to the Spatio-Temporal Analysis of Influenza Virus Replication. *Viruses*, **2021**, 13,	6.2	3
22	FRAP and Other Photoperturbation Techniques **2017**, 99-141		2
21	Live Cell Imaging **2017**, 173-200		2
20	Nanoscale Polarization of the Vaccinia Virus Entry Fusion Complex Drives Efficient Fusion		2
19	NanoJ: a high-performance open-source super-resolution microscopy toolbox		2
18	Single-Molecule Super-Resolution Imaging of T-Cell Plasma Membrane CD4 Redistribution upon HIV-1 Binding. *Viruses*, **2021**, 13,	6.2	2
17	eHooke: A tool for automated image analysis of spherical bacteria based on cell cycle progression. **2021**, 1, e3		2
16	Co-Localisation and Correlation in Fluorescence Microscopy Data **2017**, 143-171		1
15	Digital Microscopy **2017**, 1-29		1
14	Super-Resolution Data Analysis **2017**, 201-226		1
13	Enhanced epifluorescence microscopy by uniform and intensity optimized illumination. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2012**, 81, 278-80	4.6	1
12	DeepBacs: Bacterial image analysis using open-source deep learning approaches		1
11	Automating multimodal microscopy with NanoJ-Fluidics		1
10	Closed mitosis requires local disassembly of the nuclear envelope		1

9	Regulated vesicle fusion generates signaling nanoterritories that control T cell activation at the immunological synapse. *Journal of General Physiology*, **2013**, 142, 1425OIA44	3.4	1
8	vLUME: 3D Virtual Reality for Single-molecule Localization Microscopy		1
7	A hidden Markov model approach to characterizing the photo-switching behavior of fluorophores		1
6	Measuring Molecular Dynamics and Interactions by Förster Resonance Energy Transfer (FRET) **2017**, 83-97		0
5	Presenting and Storing Data for Publication **2017**, 249-268		
4	Quantification of Image Data **2017**, 31-46		
3	Segmentation in Bioimaging **2017**, 47-81		
2	Big Data and Bio-Image Informatics **2017**, 227-248		
1	Regulated vesicle fusion generates signaling nanoterritories that control T-cell activation at the immunological synapse. *Journal of Cell Biology*, **2013**, 203, 2031OIA112	7.3	