

Christophe Zimmer

List of Publications by Year in descending order

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59
papers

7,319
citations

81839

39
h-index

143943

57
g-index

66
all docs

66
docs citations

66
times ranked

10904
citing authors

#	ARTICLE	IF	CITATIONS
1	Galileo Magnetometer Measurements: A Stronger Case for a Subsurface Ocean at Europa. <i>Science</i> , 2000, 289, 1340-1343.	6.0	576
2	Deep learning massively accelerates super-resolution localization microscopy. <i>Nature Biotechnology</i> , 2018, 36, 460-468.	9.4	424
3	SAGA interacting factors confine sub-diffusion of transcribed genes to the nuclear envelope. <i>Nature</i> , 2006, 441, 770-773.	13.7	421
4	QuickPALM: 3D real-time photoactivation nanoscopy image processing in ImageJ. <i>Nature Methods</i> , 2010, 7, 339-340.	9.0	404
5	Single-molecule localization microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	390
6	Richardson's Lucy algorithm with total variation regularization for 3D confocal microscope deconvolution. <i>Microscopy Research and Technique</i> , 2006, 69, 260-266.	1.2	387
7	FISH-quant: automatic counting of transcripts in 3D FISH images. <i>Nature Methods</i> , 2013, 10, 277-278.	9.0	338
8	smiFISH and FISH-quant – a flexible single RNA detection approach with super-resolution capability. <i>Nucleic Acids Research</i> , 2016, 44, e165-e165.	6.5	312
9	Segmenting and tracking fluorescent cells in dynamic 3-D microscopy with coupled active surfaces. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 1396-1410.	6.0	284
10	Segmentation and tracking of migrating cells in videomicroscopy with parametric active contours: a tool for cell-based drug testing. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1212-1221.	5.4	247
11	Entrapment of Intracytosolic Bacteria by Septin Cage-like Structures. <i>Cell Host and Microbe</i> , 2010, 8, 433-444.	5.1	229
12	High-resolution statistical mapping reveals gene territories in live yeast. <i>Nature Methods</i> , 2008, 5, 1031-1037.	9.0	173
13	Imaging movement of malaria parasites during transmission by Anopheles mosquitoes. <i>Cellular Microbiology</i> , 2004, 6, 687-694.	1.1	171
14	A Predictive Computational Model of the Dynamic 3D Interphase Yeast Nucleus. <i>Current Biology</i> , 2012, 22, 1881-1890.	1.8	149
15	High-quality genome (re)assembly using chromosomal contact data. <i>Nature Communications</i> , 2014, 5, 5695.	5.8	142
16	Coupled parametric active contours. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2005, 27, 1838-1842.	9.7	141
17	Functional organization of cytoplasmic inclusion bodies in cells infected by respiratory syncytial virus. <i>Nature Communications</i> , 2017, 8, 563.	5.8	141
18	Super-Resolution Dynamic Imaging of Dendritic Spines Using a Low-Affinity Photoconvertible Actin Probe. <i>PLoS ONE</i> , 2011, 6, e15611.	1.1	137

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19	Chromosome arm length and nuclear constraints determine the dynamic relationship of yeast subtelomeres. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2025-2030.	3.3	135
20	Superresolution imaging of HIV in infected cells with FIAsh-PALM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8564-8569.	3.3	135
21	Regulated vesicle fusion generates signaling nanoterritories that control T cell activation at the immunological synapse. <i>Journal of Experimental Medicine</i> , 2013, 210, 2415-2433.	4.2	128
22	Principles of chromosomal organization: lessons from yeast. <i>Journal of Cell Biology</i> , 2011, 192, 723-733.	2.3	121
23	Species-specific impact of the autophagy machinery on Chikungunya virus infection. <i>EMBO Reports</i> , 2013, 14, 534-544.	2.0	121
24	Effect of nuclear architecture on the efficiency of double-strand break repair. <i>Nature Cell Biology</i> , 2013, 15, 694-699.	4.6	117
25	Chromatin organization at the nuclear pore favours HIV replication. <i>Nature Communications</i> , 2015, 6, 6483.	5.8	115
26	ImJoy: an open-source computational platform for the deep learning era. <i>Nature Methods</i> , 2019, 16, 1199-1200.	9.0	110
27	ZOLA-3D allows flexible 3D localization microscopy over an adjustable axial range. <i>Nature Communications</i> , 2018, 9, 2409.	5.8	89
28	A Dual Protein-mRNA Localization Screen Reveals Compartmentalized Translation and Widespread Co-translational RNA Targeting. <i>Developmental Cell</i> , 2020, 54, 773-791.e5.	3.1	88
29	Evidence for actin dual role in regulating chromosome organization and dynamics in yeast. <i>Journal of Cell Science</i> , 2016, 129, 681-92.	1.2	73
30	Myosin II and the Gal-GalNAc lectin play a crucial role in tissue invasion by <i>Entamoeba histolytica</i> . <i>Cellular Microbiology</i> , 2004, 7, 19-27.	1.1	68
31	EhPAK, a member of the p21-activated kinase family, is involved in the control of <i>Entamoeba histolytica</i> migration and phagocytosis. <i>Journal of Cell Science</i> , 2003, 116, 61-71.	1.2	66
32	Computational Models of Large-Scale Genome Architecture. <i>International Review of Cell and Molecular Biology</i> , 2014, 307, 275-349.	1.6	64
33	Chromatin stiffening underlies enhanced locus mobility after DNA damage in budding yeast. <i>EMBO Journal</i> , 2017, 36, 2595-2608.	3.5	64
34	Clustering and reverse transcription of HIV-1 genomes in nuclear niches of macrophages. <i>EMBO Journal</i> , 2021, 40, e105247.	3.5	62
35	Inferring the physical properties of yeast chromatin through Bayesian analysis of whole nucleus simulations. <i>Genome Biology</i> , 2017, 18, 81.	3.8	55
36	How the Genome Folds: The Biophysics of Four-Dimensional Chromatin Organization. <i>Annual Review of Biophysics</i> , 2019, 48, 231-253.	4.5	52

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37	Systematic characterization of the conformation and dynamics of budding yeast chromosome XII. <i>Journal of Cell Biology</i> , 2013, 202, 201-210.	2.3	51
38	Human Tumor Necrosis Factor is a Chemoattractant for the Parasite <i>Entamoeba histolytica</i> . <i>Infection and Immunity</i> , 2006, 74, 1407-1411.	1.0	47
39	A computational framework to study sub-cellular RNA localization. <i>Nature Communications</i> , 2018, 9, 4584.	5.8	47
40	Single-Molecule Localization Super-Resolution Microscopy: Deeper and Faster. <i>Microscopy and Microanalysis</i> , 2012, 18, 1419-1429.	0.2	45
41	FISH-quant v2: a scalable and modular tool for smFISH image analysis. <i>Rna</i> , 2022, 28, 786-795.	1.6	45
42	Membrane-cytoskeleton interactions during the formation of the immunological synapse and subsequent T-cell activation. <i>Immunological Reviews</i> , 2002, 189, 123-135.	2.8	39
43	Filling annotation gaps in yeast genomes using genome-wide contact maps. <i>Bioinformatics</i> , 2014, 30, 2105-2113.	1.8	36
44	Hierarchies of Host Factor Dynamics at the Entry Site of <i>Shigella flexneri</i> during Host Cell Invasion. <i>Infection and Immunity</i> , 2012, 80, 2548-2557.	1.0	34
45	Chromatin mobility upon DNA damage: state of the art and remaining questions. <i>Current Genetics</i> , 2019, 65, 1-9.	0.8	29
46	The imaging tsunami: Computational opportunities and challenges. <i>Current Opinion in Systems Biology</i> , 2017, 4, 105-113.	1.3	27
47	Molecular organization and mechanics of single vimentin filaments revealed by super-resolution imaging. <i>Science Advances</i> , 2022, 8, eabm2696.	4.7	21
48	Visualization of Arenavirus RNA Species in Individual Cells by Single-Molecule Fluorescence <i>In Situ</i> Hybridization Suggests a Model of Cyclical Infection and Clearance during Persistence. <i>Journal of Virology</i> , 2018, 92, .	1.5	20
49	How to build a yeast nucleus. <i>Nucleus</i> , 2013, 4, 361-366.	0.6	19
50	Sensitive visualization of SARS-CoV-2 RNA with CoronaFISH. <i>Life Science Alliance</i> , 2022, 5, e202101124.	1.3	19
51	Faster and less phototoxic 3D fluorescence microscopy using a versatile compressed sensing scheme. <i>Optics Express</i> , 2017, 25, 13668.	1.7	18
52	From dynamic chromatin architecture to DNA damage repair and back. <i>Nucleus</i> , 2018, 9, 161-170.	0.6	13
53	Listeriolysin S: A bacteriocin from <i>Listeria monocytogenes</i> that induces membrane permeabilization in a contact-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	10
54	FLAsH-PALM: Super-resolution Pointillist Imaging with FLAsH-Tetracysteine Labeling. <i>Methods in Molecular Biology</i> , 2014, 1174, 183-193.	0.4	10

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55	From microbes to numbers: extracting meaningful quantities from images. Cellular Microbiology, 2012, 14, 1828-1835.	1.1	9
56	Modulation of the intrinsic chromatin binding property of HIV-1 integrase by LEDGF/p75. Nucleic Acids Research, 2021, 49, 11241-11256.	6.5	9
57	Super-resolution visualization and modeling of human chromosomal regions reveals cohesin-dependent loop structures. Genome Biology, 2021, 22, 150.	3.8	7
58	Biophysical Active Contours for Cell Tracking I: Tension and Bending. , 2006, , .		6
59	Improving single particle localization with an empirically calibrated Gaussian kernel. , 2008, , .		4