

Nico Stuurman

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

9,436
citations

117625

34
h-index

161849

54
g-index

69
all docs

69
docs citations

69
times ranked

13436
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced methods of microscope control using μ Manager software. <i>Journal of Biological Methods</i> , 2014, 1, e10.	0.6	1,556
2	Computer Control of Microscopes Using μ Manager. <i>Current Protocols in Molecular Biology</i> , 2010, 92, Unit14.20.	2.9	1,352
3	Nuclear Lamins: Their Structure, Assembly, and Interactions. <i>Journal of Structural Biology</i> , 1998, 122, 42-66.	2.8	653
4	Functional genomic screen reveals genes involved in lipid-droplet formation and utilization. <i>Nature</i> , 2008, 453, 657-661.	27.8	626
5	Genes Required for Mitotic Spindle Assembly in <i>Drosophila</i> S2 Cells. <i>Science</i> , 2007, 316, 417-421.	12.6	501
6	Biological imaging software tools. <i>Nature Methods</i> , 2012, 9, 697-710.	19.0	462
7	Molecular requirements for actin-based lamella formation in <i>Drosophila</i> S2 cells. <i>Journal of Cell Biology</i> , 2003, 162, 1079-1088.	5.2	382
8	Augmin: a protein complex required for centrosome-independent microtubule generation within the spindle. <i>Journal of Cell Biology</i> , 2008, 181, 421-429.	5.2	357
9	Quantitative evaluation of software packages for single-molecule localization microscopy. <i>Nature Methods</i> , 2015, 12, 717-724.	19.0	347
10	Role of Phosphatidylinositol(4,5)bisphosphate Organization in Membrane Transport by the Unc104 Kinesin Motor. <i>Cell</i> , 2002, 109, 347-358.	28.9	297
11	Simultaneous Imaging of <i>Pseudomonas fluorescens</i> WCS365 Populations Expressing Three Different Autofluorescent Proteins in the Rhizosphere: New Perspectives for Studying Microbial Communities. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 1170-1176.	2.6	266
12	Length Control of the Metaphase Spindle. <i>Current Biology</i> , 2005, 15, 1979-1988.	3.9	249
13	Spindly, a novel protein essential for silencing the spindle assembly checkpoint, recruits dynein to the kinetochore. <i>Journal of Cell Biology</i> , 2007, 177, 1005-1015.	5.2	206
14	Polarized Myosin Produces Unequal-Size Daughters During Asymmetric Cell Division. <i>Science</i> , 2010, 330, 677-680.	12.6	145
15	Use of Green Fluorescent Protein Color Variants Expressed on Stable Broad-Host-Range Vectors to Visualize Rhizobia Interacting with Plants. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 1163-1169.	2.6	140
16	Epi-illumination SPIM for volumetric imaging with high spatial-temporal resolution. <i>Nature Methods</i> , 2019, 16, 501-504.	19.0	125
17	Use of RNA interference in <i>Drosophila</i> S2 cells to identify host pathways controlling compartmentalization of an intracellular pathogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13646-13651.	7.1	118
18	High-resolution imaging of cardiomyocyte behavior reveals two distinct steps in ventricular trabeculation. <i>Development (Cambridge)</i> , 2014, 141, 585-593.	2.5	116

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19	Distinct pathways control recruitment and maintenance of myosin II at the cleavage furrow during cytokinesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13473-13478.	7.1	103
20	Single-molecule observations of neck linker conformational changes in the kinesin motor protein. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 887-894.	8.2	101
21	Mitochondrial positioning in fission yeast is driven by association with dynamic microtubules and mitotic spindle poles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11424-11428.	7.1	90
22	High throughput microscopy: from raw images to discoveries. <i>Journal of Cell Science</i> , 2007, 120, 3715-3722.	2.0	90
23	µManager: Open Source Software for Light Microscope Imaging. <i>Microscopy Today</i> , 2007, 15, 42-43.	0.3	84
24	Intermediate Filament Protein Polymerization: Molecular Analysis of <i>Drosophila</i> Nuclear Lamin Head-to-Tail Binding. <i>Journal of Structural Biology</i> , 1996, 117, 1-15.	2.8	77
25	Interactions among <i>Drosophila</i> Nuclear Envelope Proteins Lamin, Otefin, and YA. <i>Molecular and Cellular Biology</i> , 1998, 18, 4315-4323.	2.3	69
26	Cellular aspect ratio and cell division mechanics underlie the patterning of cell progeny in diverse mammalian epithelia. <i>ELife</i> , 2018, 7, .	6.0	69
27	Genes involved in centrosome-independent mitotic spindle assembly in <i>Drosophila</i> S2 cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19808-19813.	7.1	62
28	DNA from <i>Drosophila melanogaster</i> H ² -heterochromatin binds specifically to nuclear lamins in vitro and the nuclear envelope in situ. <i>Gene</i> , 1996, 171, 171-176.	2.2	58
29	Binding of matrix attachment regions to nuclear lamin is mediated by the rod domain and depends on the lamin polymerization state. <i>FEBS Letters</i> , 1996, 380, 161-164.	2.8	54
30	Pycro-Manager: open-source software for customized and reproducible microscope control. <i>Nature Methods</i> , 2021, 18, 226-228.	19.0	54
31	A <i>Lotus japonicus</i> Nodulation System Based on Heterologous Expression of the Fucosyl Transferase NodZ and the Acetyl Transferase Noll in <i>Rhizobium leguminosarum</i> . <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 475-479.	2.6	53
32	High-content imaging-based pooled CRISPR screens in mammalian cells. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	53
33	The protein composition of the nuclear matrix of murine P19 embryonal carcinoma cells is differentiation-stage dependent. <i>Experimental Cell Research</i> , 1989, 180, 460-466.	2.6	52
34	Interactions between coiled-coil proteins: <i>Drosophila</i> lamin Dm0 binds to the Bicaudal-D protein. <i>European Journal of Cell Biology</i> , 1999, 78, 278-287.	3.6	47
35	A 6-nm ultra-photostable DNA FluoroCube for fluorescence imaging. <i>Nature Methods</i> , 2020, 17, 437-441.	19.0	41
36	Stabilization of the nuclear matrix by disulfide bridges: Identification of matrix polypeptides that form disulfides. <i>Experimental Cell Research</i> , 1992, 200, 285-294.	2.6	36

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37	Phosphorylation of the Major <i>Drosophila</i> Lamin In Vivo: A Site Identification during Both M-Phase (Meiosis) and Interphase by Electrospray Ionization Tandem Mass Spectrometry. <i>Biochemistry</i> , 1999, 38, 4620-4632.	2.5	36
38	Imaging Single Molecules Using Total Internal Reflection Fluorescence Microscopy (TIRFM). <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.top73.	0.3	31
39	Visualizing Calcium Flux in Freely Moving Nematode Embryos. <i>Biophysical Journal</i> , 2017, 112, 1975-1983.	0.5	31
40	Nanometer-accuracy distance measurements between fluorophores at the single-molecule level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4275-4284.	7.1	31
41	A Tailless <i>Drosophila</i> Lamin Dm0 Fragment Reveals Lateral Associations of Dimers. <i>Journal of Structural Biology</i> , 1998, 123, 56-66.	2.8	28
42	Identification of a conserved phosphorylation site modulating nuclear lamin polymerization. <i>FEBS Letters</i> , 1997, 401, 171-174.	2.8	26
43	Micro-Magellan: open-source, sample-adaptive, acquisition software for optical microscopy. <i>Nature Methods</i> , 2016, 13, 807-809.	19.0	24
44	Induction of nuclear lamins A/C during in vitro-induced differentiation of F9 and P19 embryonal carcinoma cells. <i>Experimental Cell Research</i> , 1992, 203, 449-455.	2.6	20
45	Ectopic Overexpression of <i>Drosophila</i> Lamin C Is Stage-Specific Lethal. <i>Experimental Cell Research</i> , 1999, 248, 350-357.	2.6	20
46	In Vitro Assembly of <i>Drosophila</i> -Lamin Dm0 Lamin Polymerization Properties are Conserved. <i>FEBS Journal</i> , 1997, 250, 30-38.	0.2	19
47	Impact of New Camera Technologies on Discoveries in Cell Biology. <i>Biological Bulletin</i> , 2016, 231, 5-13.	1.8	18
48	Software Tools, Data Structures, and Interfaces for Microscope Imaging. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.top067504.	0.3	11
49	An acquisition and analysis pipeline for scanning angle interference microscopy. <i>Nature Methods</i> , 2016, 13, 897-898.	19.0	11
50	Three-color single-molecule imaging reveals conformational dynamics of dynein undergoing motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
51	Assembly of <i>Drosophila</i> lamin Dm0 and C mutant proteins studied with the baculovirus system. <i>European Journal of Cell Biology</i> , 1998, 77, 276-283.	3.6	8
52	Imaging Single Molecular Motor Motility with Total Internal Reflection Fluorescence Microscopy (TIRFM): Movie 1.. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5399.	0.3	4
53	Chromophore-assisted laser inactivation in neural development. <i>Neuroscience Bulletin</i> , 2012, 28, 333-341.	2.9	3
54	Determining Single-Molecule Intensity as a Function of Power Density: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5398.	0.3	2

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55	Computer Control of Microscopes Using ÅµManager. , 2010, 92, 14.20.1.		1
56	Chapter 3 Chromosomes, chromatin, and the regulation of transcription. Principles of Medical Biology, 1995, 2, 55-71.	0.1	0
57	Tracking Dynein Stepping along Microtubules using Multi-Color High Resolution Imaging. Biophysical Journal, 2017, 112, 261a.	0.5	0
58	A New Method (Sigma-SHREC) for Two-Color Fluorescent Distance Measurements with Nanometer Accuracy. Biophysical Journal, 2018, 114, 14a-15a.	0.5	0