# Nico Stuurman

## List of Publications by Year in descending order



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|---|---|---|---|
| 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 | Pycro-Manager: open-source software for customized and reproducible microscope control. Nature Methods, 2021, 18, 226-228. | 19.0 | 54 |
| 2 | Three-color single-molecule imaging reveals conformational dynamics of dynein undergoing motility. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 9 |
| 3 | High-content imaging-based pooled CRISPR screens in mammalian cells. Journal of Cell Biology, 2021, 220, . | 5.2 | 53 |
| 4 | A 6-nm ultra-photostable DNA FluoroCube for fluorescence imaging. Nature Methods, 2020, 17, 437-441. | 19.0 | 41 |
| 5 | Epi-illumination SPIM for volumetric imaging with high spatial-temporal resolution. Nature Methods, 2019, 16, 501-504. | 19.0 | 125 |
| 6 | Nanometer-accuracy distance measurements between fluorophores at the single-molecule level. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4275-4284. | 7.1 | 31 |
| 7 | A New Method (Sigma-SHREC) for Two-Color Fluorescent Distance Measurements with Nanometer Accuracy. Biophysical Journal, 2018, 114, 14a-15a. | 0.5 | 0 |
| 8 | Cellular aspect ratio and cell division mechanics underlie the patterning of cell progeny in diverse mammalian epithelia. ELife, 2018, 7, . | 6.0 | 69 |
| 9 | Visualizing Calcium Flux in Freely Moving Nematode Embryos. Biophysical Journal, 2017, 112, 1975-1983. | 0.5 | 31 |
| 10 | Tracking Dynein Stepping along Microtubules using Multi-Color High Resolution Imaging. Biophysical Journal, 2017, 112, 261a. | 0.5 | 0 |
| 11 | Micro-Magellan: open-source, sample-adaptive, acquisition software for optical microscopy. Nature Methods, 2016, 13, 807-809. | 19.0 | 24 |
| 12 | An acquisition and analysis pipeline for scanning angle interference microscopy. Nature Methods, 2016, 13, 897-898. | 19.0 | 11 |
| 13 | Impact of New Camera Technologies on Discoveries in Cell Biology. Biological Bulletin, 2016, 231, 5-13. | 1.8 | 18 |
| 14 | Quantitative evaluation of software packages for single-molecule localization microscopy. Nature Methods, 2015, 12, 717-724. | 19.0 | 347 |
| 15 | Advanced methods of microscope control using Î¼Manager software. Journal of Biological Methods, 2014, 1, e10. | 0.6 | 1,556 |
| 16 | High-resolution imaging of cardiomyocyte behavior reveals two distinct steps in ventricular trabeculation. Development (Cambridge), 2014, 141, 585-593. | 2.5 | 116 |
| 17 | Genes involved in centrosome-independent mitotic spindle assembly in Drosophila S2 cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19808-19813. | 7.1 | 62 |
| 18 | Software Tools, Data Structures, and Interfaces for Microscope Imaging. Cold Spring Harbor Protocols, 2012, 2012, pdb.top067504. | 0.3 | 11 |

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|---|---|---|---|
| 19 | Chromophore-assisted laser inactivation in neural development. Neuroscience Bulletin, 2012, 28, 333-341. | 2.9 | 3 |
| 20 | Biological imaging software tools. Nature Methods, 2012, 9, 697-710. | 19.0 | 462 |
| 21 | Computer Control of Microscopes Using ÂµManager. Current Protocols in Molecular Biology, 2010, 92, Unit14.20. | 2.9 | 1,352 |
| 22 | Polarized Myosin Produces Unequal-Size Daughters During Asymmetric Cell Division. Science, 2010, 330, 677-680. | 12.6 | 145 |
| 23 | Determining Single-Molecule Intensity as a Function of Power Density: Figure 1.. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5398. | 0.3 | 2 |
| 24 | Imaging Single Molecular Motor Motility with Total Internal Reflection Fluorescence Microscopy (TIRFM): Movie 1.. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5399. | 0.3 | 4 |
| 25 | Imaging Single Molecules Using Total Internal Reflection Fluorescence Microscopy (TIRFM). Cold Spring Harbor Protocols, 2010, 2010, pdb.top73. | 0.3 | 31 |
| 26 | Computer Control of Microscopes Using ÂµManager. , 2010, 92, 14.20.1. | | 1 |
| 27 | Functional genomic screen reveals genes involved in lipid-droplet formation and utilization. Nature, 2008, 453, 657-661. | 27.8 | 626 |
| 28 | Augmin: a protein complex required for centrosome-independent microtubule generation within the spindle. Journal of Cell Biology, 2008, 181, 421-429. | 5.2 | 357 |
| 29 | Spindly, a novel protein essential for silencing the spindle assembly checkpoint, recruits dynein to the kinetochore. Journal of Cell Biology, 2007, 177, 1005-1015. | 5.2 | 206 |
| 30 | High throughput microscopy: from raw images to discoveries. Journal of Cell Science, 2007, 120, 3715-3722. | 2.0 | 90 |
| 31 | Genes Required for Mitotic Spindle Assembly in Drosophila S2 Cells. Science, 2007, 316, 417-421. | 12.6 | 501 |
| 32 | Î¼Manager: Open Source Software for Light Microscope Imaging. Microscopy Today, 2007, 15, 42-43. | 0.3 | 84 |
| 33 | Single-molecule observations of neck linker conformational changes in the kinesin motor protein. Nature Structural and Molecular Biology, 2006, 13, 887-894. | 8.2 | 101 |
| 34 | Length Control of the Metaphase Spindle. Current Biology, 2005, 15, 1979-1988. | 3.9 | 249 |
| 35 | Use of RNA interference in Drosophila S2 cells to identify host pathways controlling compartmentalization of an intracellular pathogen. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13646-13651. | 7.1 | 118 |
| 36 | Distinct pathways control recruitment and maintenance of myosin II at the cleavage furrow during cytokinesis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13473-13478. | 7.1 | 103 |

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|---|---|---|---|
| 37 | Molecular requirements for actin-based lamella formation in Drosophila S2 cells. Journal of Cell Biology, 2003, 162, 1079-1088. | 5.2 | 382 |
| 38 | Mitochondrial positioning in fission yeast is driven by association with dynamic microtubules and mitotic spindle poles. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11424-11428. | 7.1 | 90 |
| 39 | Role of Phosphatidylinositol(4,5)bisphosphate Organization in Membrane Transport by the Unc104 Kinesin Motor. Cell, 2002, 109, 347-358. | 28.9 | 297 |
| 40 | A Lotus japonicus Nodulation System Based on Heterologous Expression of the Fucosyl Transferase NodZ and the Acetyl Transferase NolL in Rhizobium leguminosarum. Molecular Plant-Microbe Interactions, 2000, 13, 475-479. | 2.6 | 53 |
| 41 | Use of Green Fluorescent Protein Color Variants Expressed on Stable Broad-Host-Range Vectors to Visualize Rhizobia Interacting with Plants. Molecular Plant-Microbe Interactions, 2000, 13, 1163-1169. | 2.6 | 140 |
| 42 | Simultaneous Imaging of Pseudomonas fluorescens WCS365 Populations Expressing Three Different Autofluorescent Proteins in the Rhizosphere: New Perspectives for Studying Microbial Communities. Molecular Plant-Microbe Interactions, 2000, 13, 1170-1176. | 2.6 | 266 |
| 43 | Interactions between coiled-coil proteins: Drosophila lamin Dm0 binds to the Bicaudal-D protein. European Journal of Cell Biology, 1999, 78, 278-287. | 3.6 | 47 |
| 44 | Phosphorylation of the MajorDrosophilaLamin In Vivo:Â Site Identification during Both M-Phase (Meiosis) and Interphase by Electrospray Ionization Tandem Mass Spectrometryâ€. Biochemistry, 1999, 38, 4620-4632. | 2.5 | 36 |
| 45 | Ectopic Overexpression ofDrosophilaLamin C Is Stage-Specific Lethal. Experimental Cell Research, 1999, 248, 350-357. | 2.6 | 20 |
| 46 | Assembly of Drosophila lamin Dm0 and C mutant proteins studied with the baculovirus system. European Journal of Cell Biology, 1998, 77, 276-283. | 3.6 | 8 |
| 47 | Nuclear Lamins: Their Structure, Assembly, and Interactions. Journal of Structural Biology, 1998, 122, 42-66. | 2.8 | 653 |
| 48 | A TaillessDrosophilaLamin Dm0Fragment Reveals Lateral Associations of Dimers. Journal of Structural Biology, 1998, 123, 56-66. | 2.8 | 28 |
| 49 | Interactions among Drosophila Nuclear Envelope Proteins Lamin, Otefin, and YA. Molecular and Cellular Biology, 1998, 18, 4315-4323. | 2.3 | 69 |
| 50 | Identification of a conserved phosphorylation site modulating nuclear lamin polymerization. FEBS Letters, 1997, 401, 171-174. | 2.8 | 26 |
| 51 | In Vitro Assembly of Drosophila- Lamin Dm0 Lamin Polymerization Properties are Conserved. FEBS Journal, 1997, 250, 30-38. | 0.2 | 19 |
| 52 | DNA from Drosophila melanogaster Î²-heterochromatin binds specifically to nuclear lamins in vitro and the nuclear envelope in situ. Gene, 1996, 171, 171-176. | 2.2 | 58 |
| 53 | Binding of matrix attachment regions to nuclear lamin is mediated by the rod domain and depends on the lamin polymerization state. FEBS Letters, 1996, 380, 161-164. | 2.8 | 54 |
| 54 | Intermediate Filament Protein Polymerization: Molecular Analysis ofDrosophilaNuclear Lamin Head-to-Tail Binding. Journal of Structural Biology, 1996, 117, 1-15. | 2.8 | 77 |

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|---|---|---|---|
| 55 | Chapter 3 Chromosomes, chromatin, and the regulation of transcription. Principles of Medical Biology, 1995, 2, 55-71. | 0.1 | 0 |
| 56 | Induction of nuclear lamins A/C during in vitro-induced differentiation of F9 and P19 embryonal carcinoma cells. Experimental Cell Research, 1992, 203, 449-455. | 2.6 | 20 |
| 57 | Stabilization of the nuclear matrix by disulfide bridges: Identification of matrix polypeptides that form disulfides. Experimental Cell Research, 1992, 200, 285-294. | 2.6 | 36 |
| 58 | The protein composition of the nuclear matrix of murine P19 embryonal carcinoma cells is differentiation-stage dependent. Experimental Cell Research, 1989, 180, 460-466. | 2.6 | 52 |