

Jonas Ries

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103 papers	5,645 citations	38 h-index	74 g-index
129 ext. papers	7,187 ext. citations	10.8 avg, IF	5.96 L-index

#	Paper	IF	Citations
103	DRP1 interacts directly with BAX to induce its activation and apoptosis.. <i>EMBO Journal</i> , 2022 , e108587	13	5
102	The interplay between BAX and BAK tunes apoptotic pore growth to control mitochondrial-DNA-mediated inflammation.. <i>Molecular Cell</i> , 2022 ,	17.6	9
101	Super-Resolution Microscopy for Structural Cell Biology.. <i>Annual Review of Biophysics</i> , 2022 ,	21.1	8
100	3D particle averaging and detection of macromolecular symmetry in localization microscopy. <i>Nature Communications</i> , 2021 , 12, 2847	17.4	6
99	Site-Specifically-Labeled Antibodies for Super-Resolution Microscopy Reveal Linkage Errors. <i>ACS Nano</i> , 2021 ,	16.7	7
98	Nanoscale Pattern Extraction from Relative Positions of Sparse 3D Localizations. <i>Nano Letters</i> , 2021 , 21, 1213-1220	11.5	0
97	Implementation of a 4Pi-SMS super-resolution microscope. <i>Nature Protocols</i> , 2021 , 16, 677-727	18.8	7
96	Direct supercritical angle localization microscopy for nanometer 3D superresolution. <i>Nature Communications</i> , 2021 , 12, 1180	17.4	8
95	Systematic Tuning of Rhodamine Spirocyclization for Super-resolution Microscopy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14592-14600	16.4	16
94	Three-dimensional superresolution fluorescence microscopy maps the variable molecular architecture of the nuclear pore complex. <i>Molecular Biology of the Cell</i> , 2021 , 32, 1523-1533	3.5	7
93	Deep learning enables fast and dense single-molecule localization with high accuracy. <i>Nature Methods</i> , 2021 , 18, 1082-1090	21.6	13
92	MINFLUX nanoscopy delivers 3D multicolor nanometer resolution in cells. <i>Nature Methods</i> , 2020 , 17, 217-224	21.6	204
91	Topological data analysis quantifies biological nano-structure from single molecule localization microscopy. <i>Bioinformatics</i> , 2020 , 36, 1614-1621	7.2	6
90	Cost-efficient open source laser engine for microscopy. <i>Biomedical Optics Express</i> , 2020 , 11, 609-623	3.5	10
89	Accurate 4Pi single-molecule localization using an experimental PSF model. <i>Optics Letters</i> , 2020 , 45, 3765-3768	3.5	3
88	Identification of novel synaptonemal complex components in C. elegans. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	22
87	Nanoscale subcellular architecture revealed by multicolor three-dimensional salvaged fluorescence imaging. <i>Nature Methods</i> , 2020 , 17, 225-231	21.6	41

86	Quantitative Data Analysis in Single-Molecule Localization Microscopy. <i>Trends in Cell Biology</i> , 2020 , 30, 837-851	18.3	20
85	EMU: reconfigurable graphical user interfaces for Micro-Manager. <i>BMC Bioinformatics</i> , 2020 , 21, 456	3.6	5
84	How good are my data? Reference standards in superresolution microscopy. <i>Molecular Biology of the Cell</i> , 2020 , 31, 2093-2096	3.5	6
83	Optimizing imaging speed and excitation intensity for single-molecule localization microscopy. <i>Nature Methods</i> , 2020 , 17, 909-912	21.6	30
82	SMAP: a modular super-resolution microscopy analysis platform for SMLM data. <i>Nature Methods</i> , 2020 , 17, 870-872	21.6	30
81	Direct Visualization of Single Nuclear Pore Complex Proteins Using Genetically-Encoded Probes for DNA-PAINT. <i>Angewandte Chemie</i> , 2019 , 131, 13138-13142	3.6	13
80	Nuclear pores as versatile reference standards for quantitative superresolution microscopy. <i>Nature Methods</i> , 2019 , 16, 1045-1053	21.6	105
79	A tessellation-based colocalization analysis approach for single-molecule localization microscopy. <i>Nature Communications</i> , 2019 , 10, 2379	17.4	31
78	Super-resolution fight club: assessment of 2D and 3D single-molecule localization microscopy software. <i>Nature Methods</i> , 2019 , 16, 387-395	21.6	123
77	Direct Visualization of Single Nuclear Pore Complex Proteins Using Genetically-Encoded Probes for DNA-PAINT. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13004-13008	16.4	57
76	Photoactivation of silicon rhodamines via a light-induced protonation. <i>Nature Communications</i> , 2019 , 10, 4580	17.4	19
75	Depth-dependent PSF calibration and aberration correction for 3D single-molecule localization. <i>Biomedical Optics Express</i> , 2019 , 10, 2708-2718	3.5	17
74	Type-I myosins promote actin polymerization to drive membrane bending in endocytosis. <i>ELife</i> , 2019 , 8,	8.9	9
73	Organotypic slice culture model demonstrates inter-neuronal spreading of alpha-synuclein aggregates. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 213	7.3	28
72	Real-time 3D single-molecule localization using experimental point spread functions. <i>Nature Methods</i> , 2018 , 15, 367-369	21.6	133
71	Dual-Color and 3D Super-Resolution Microscopy of Multi-protein Assemblies. <i>Methods in Molecular Biology</i> , 2018 , 1764, 237-251	1.4	7
70	Systematic Nanoscale Analysis of Endocytosis Links Efficient Vesicle Formation to Patterned Actin Nucleation. <i>Cell</i> , 2018 , 174, 884-896.e17	56.2	99
69	Site-Specific Labeling of Affimers for DNA-PAINT Microscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11060-11063	16.4	55

68	ChromoTrace: Computational reconstruction of 3D chromosome configurations for super-resolution microscopy. <i>PLoS Computational Biology</i> , 2018 , 14, e1006002	5	1
67	Ortsspezifische Funktionalisierung von Affimern ff die DNA-PAINT-Mikroskopie. <i>Angewandte Chemie</i> , 2018 , 130, 11226-11230	3.6	10
66	Scanning Fluorescence Correlation Spectroscopy for Quantification of the Dynamics and Interactions in Tube Organelles of Living Cells. <i>ChemPhysChem</i> , 2018 , 19, 3273	3.2	3
65	Aurora-B kinase pathway controls the lateral to end-on conversion of kinetochore-microtubule attachments in human cells. <i>Nature Communications</i> , 2017 , 8, 150	17.4	46
64	Nanoscale invaginations of the nuclear envelope: Shedding new light on wormholes with elusive function. <i>Nucleus</i> , 2017 , 8, 506-514	3.9	15
63	Specific protein labeling with caged fluorophores for dual-color imaging and super-resolution microscopy in living cells. <i>Chemical Science</i> , 2017 , 8, 559-566	9.4	32
62	Bax assembly into rings and arcs in apoptotic mitochondria is linked to membrane pores. <i>EMBO Journal</i> , 2016 , 35, 389-401	13	187
61	Acetylated tubulin is essential for touch sensation in mice. <i>ELife</i> , 2016 , 5,	8.9	51
60	Efficient homogeneous illumination and optical sectioning for quantitative single-molecule localization microscopy. <i>Optics Express</i> , 2016 , 24, 28080-28090	3.3	47
59	Supercritical Angle Localization Microscopy. <i>Biophysical Journal</i> , 2016 , 110, 648a	2.9	
58	Absolute Arrangement of Subunits in Cytoskeletal Septin Filaments in Cells Measured by Fluorescence Microscopy. <i>Nano Letters</i> , 2015 , 15, 3859-64	11.5	22
57	Visualizing the functional architecture of the endocytic machinery. <i>ELife</i> , 2015 , 4,	8.9	80
56	Molecular architecture of native fibronectin fibrils. <i>Nature Communications</i> , 2015 , 6, 7275	17.4	62
55	Scanning fluorescence correlation spectroscopy on biomembranes. <i>Methods in Molecular Biology</i> , 2015 , 1232, 181-97	1.4	4
54	Localization microscopy in yeast. <i>Methods in Cell Biology</i> , 2014 , 123, 253-71	1.8	13
53	Tracking single serotonin transporter molecules at the endoplasmic reticulum and plasma membrane. <i>Biophysical Journal</i> , 2014 , 106, L33-5	2.9	18
52	3D superresolution microscopy by supercritical angle detection. <i>Optics Express</i> , 2014 , 22, 29081-91	3.3	49
51	Conformational distribution of surface-adsorbed fibronectin molecules explored by single molecule localization microscopy. <i>Biomaterials Science</i> , 2014 , 2, 883-892	7.4	12

50	The yeast kinetochore - structural insights from optical microscopy. <i>Current Opinion in Chemical Biology</i> , 2014 , 20, 1-8	9.7	2
49	The bacterial SMC complex displays two distinct modes of interaction with the chromosome. <i>Cell Reports</i> , 2013 , 3, 1483-92	10.6	31
48	A paired RNAi and RabGAP overexpression screen identifies Rab11 as a regulator of β -amyloid production. <i>Cell Reports</i> , 2013 , 5, 1536-51	10.6	84
47	Superresolution imaging of amyloid fibrils with binding-activated probes. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 1057-61	5.7	54
46	Tuning the "roadblock" effect in kinesin-based transport. <i>Nano Letters</i> , 2012 , 12, 3466-71	11.5	21
45	A simple, versatile method for GFP-based super-resolution microscopy via nanobodies. <i>Nature Methods</i> , 2012 , 9, 582-4	21.6	423
44	Fluorescence correlation spectroscopy. <i>BioEssays</i> , 2012 , 34, 361-8	4.1	172
43	Binding-activated localization microscopy of DNA structures. <i>Nano Letters</i> , 2011 , 11, 4008-11	11.5	141
42	Cxcl12 evolution--subfunctionalization of a ligand through altered interaction with the chemokine receptor. <i>Development (Cambridge)</i> , 2011 , 138, 2909-14	6.6	25
41	Principles and Applications of Fluorescence Correlation Spectroscopy (FCS). <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2011 , 63-85	0.2	6
40	A comprehensive framework for fluorescence cross-correlation spectroscopy. <i>New Journal of Physics</i> , 2010 , 12, 113009	2.9	35
39	Scanning FCS for the characterization of protein dynamics in live cells. <i>Methods in Enzymology</i> , 2010 , 472, 317-43	1.7	30
38	Automated suppression of sample-related artifacts in Fluorescence Correlation Spectroscopy. <i>Optics Express</i> , 2010 , 18, 11073-82	3.3	19
37	DNA damage regulates the mobility of Brca2 within the nucleoplasm of living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 21937-42	11.5	32
36	Detergent-activated BAX protein is a monomer. <i>Journal of Biological Chemistry</i> , 2009 , 284, 23935-46	5.4	23
35	Fgf8 morphogen gradient forms by a source-sink mechanism with freely diffusing molecules. <i>Nature</i> , 2009 , 461, 533-6	50.4	283
34	Modular scanning FCS quantifies receptor-ligand interactions in living multicellular organisms. <i>Nature Methods</i> , 2009 , 6, 643-5	21.6	114
33	Membrane promotes tBID interaction with BCL(XL). <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 1178-85	17.6	106

32	Fluorescence correlation spectroscopy in membrane structure elucidation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 225-33	3.8	123
31	Accurate determination of membrane dynamics with line-scan FCS. <i>Biophysical Journal</i> , 2009 , 96, 1999-2008	3.8	136
30	Supercritical angle fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2008 , 94, 221-9	2.9	48
29	Total internal reflection fluorescence correlation spectroscopy: effects of lateral diffusion and surface-generated fluorescence. <i>Biophysical Journal</i> , 2008 , 95, 390-9	2.9	42
28	Efficient inhibition of the Alzheimer's disease beta-secretase by membrane targeting. <i>Science</i> , 2008 , 320, 520-3	33.3	225
27	Role of ceramide in membrane protein organization investigated by combined AFM and FCS. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 1356-64	3.8	81
26	New concepts for fluorescence correlation spectroscopy on membranes. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3487-97	3.6	103
25	Spatial regulators for bacterial cell division self-organize into surface waves in vitro. <i>Science</i> , 2008 , 320, 789-92	33.3	393
24	Plasma membranes are poised for activation of raft phase coalescence at physiological temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 10005-10	11.5	301
23	How to measure slow diffusion in yeast cell membranes 2008 ,		3
22	Rho regulates membrane transport in the endocytic pathway to control plasma membrane specialization in oligodendroglial cells. <i>Journal of Neuroscience</i> , 2007 , 27, 3560-70	6.6	47
21	Combined AFM and two-focus SFCS study of raft-exhibiting model membranes. <i>ChemPhysChem</i> , 2006 , 7, 2409-18	3.2	176
20	Effects of ceramide on liquid-ordered domains investigated by simultaneous AFM and FCS. <i>Biophysical Journal</i> , 2006 , 90, 4500-8	2.9	206
19	Studying slow membrane dynamics with continuous wave scanning fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2006 , 91, 1915-24	2.9	158
18	Quantum scissors: Teleportation of single-mode optical states by means of a nonlocal single photon. <i>Europhysics Letters</i> , 2003 , 64, 1-7	1.6	74
17	Experimental vacuum squeezing in rubidium vapor via self-rotation. <i>Physical Review A</i> , 2003 , 68,	2.6	62
16	SMAP A Modular Superresolution Microscopy Analysis Platform for SMLM Data		1
15	Topological data analysis quantifies biological nano-structure from single molecule localization microscopy		2

14	Type-I myosins promote actin polymerization to drive membrane bending in endocytosis	2
13	Depth-dependent PSF calibration and aberration correction for 3D single-molecule localization	1
12	Nanoscale subcellular architecture revealed by multicolor 3D salvaged fluorescence imaging	1
11	A real-time compression library for microscopy images	15
10	Fast, robust and precise 3D localization for arbitrary point spread functions	1
9	Nanoscale pattern extraction from relative positions of sparse 3D localisations	1
8	Deep learning enables fast and dense single-molecule localization with high accuracy	5
7	3D super-resolution fluorescence microscopy maps the variable molecular architecture of the Nuclear Pore Complex	1
6	Systematic analysis of the molecular architecture of endocytosis reveals a nanoscale actin nucleation template that drives efficient vesicle formation	5
5	Super-resolution fight club: A broad assessment of 2D & 3D single-molecule localization microscopy software	4
4	Nuclear pores as versatile reference standards for quantitative superresolution microscopy	4
3	MINFLUX nanoscopy delivers multicolor nanometer 3D-resolution in (living) cells	4
2	Photon-free (s)CMOS camera characterization for artifact reduction in high- and super-resolution microscopy	1
1	Maximum-likelihood model fitting for quantitative analysis of SMLM data	1