

Joerg Bewersdorf

List of Publications by Citations

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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.

62

papers

3,903

citations

28

h-index

62

g-index

75

ext. papers

4,953

ext. citations

12.9

avg, IF

5.56

L-index

#	Paper	IF	Citations
62	Three-dimensional sub-100 nm resolution fluorescence microscopy of thick samples. <i>Nature Methods</i> , 2008 , 5, 527-9	21.6	617
61	Video-rate nanoscopy using sCMOS camera-specific single-molecule localization algorithms. <i>Nature Methods</i> , 2013 , 10, 653-8	21.6	376
60	Precisely and accurately localizing single emitters in fluorescence microscopy. <i>Nature Methods</i> , 2014 , 11, 253-66	21.6	341
59	A new wave of cellular imaging. <i>Annual Review of Cell and Developmental Biology</i> , 2010 , 26, 285-314	12.6	286
58	Adaptive optics enables 3D STED microscopy in aberrating specimens. <i>Optics Express</i> , 2012 , 20, 20998-1009	9.9	198
57	Ultra-High Resolution 3D Imaging of Whole Cells. <i>Cell</i> , 2016 , 166, 1028-1040	56.2	185
56	Lipidation of the LC3/GABARAP family of autophagy proteins relies on a membrane-curvature-sensing domain in Atg3. <i>Nature Cell Biology</i> , 2014 , 16, 415-24	23.4	168
55	Sample drift correction in 3D fluorescence photoactivation localization microscopy. <i>Optics Express</i> , 2011 , 19, 15009-19	3.3	132
54	Two-colour live-cell nanoscale imaging of intracellular targets. <i>Nature Communications</i> , 2016 , 7, 10778	17.4	132
53	Biological Insight from Super-Resolution Microscopy: What We Can Learn from Localization-Based Images. <i>Annual Review of Biochemistry</i> , 2018 , 87, 965-989	29.1	106
52	Super-resolution imaging of the Golgi in live cells with a bioorthogonal ceramide probe. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10242-6	16.4	103
51	Long time-lapse nanoscopy with spontaneously blinking membrane probes. <i>Nature Biotechnology</i> , 2017 , 35, 773-780	44.5	100
50	Molecular organization of cytokinesis nodes and contractile rings by super-resolution fluorescence microscopy of live fission yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5876-E5885	11.5	89
49	Lysosome size, motility and stress response regulated by fronto-temporal dementia modifier TMEM106B. <i>Molecular and Cellular Neurosciences</i> , 2014 , 61, 226-40	4.8	71
48	Congenital Heart Disease Genetics Uncovers Context-Dependent Organization and Function of Nucleoporins at Cilia. <i>Developmental Cell</i> , 2016 , 38, 478-92	10.2	66
47	Adaptive optics correction of specimen-induced aberrations in single-molecule switching microscopy. <i>Optica</i> , 2015 , 2, 177	8.6	66
46	Three-dimensional STED microscopy of aberrating tissue using dual adaptive optics. <i>Optics Express</i> , 2016 , 24, 8862-76	3.3	62

45	Dynamic nanoscale morphology of the ER surveyed by STED microscopy. <i>Journal of Cell Biology</i> , 2019 , 218, 83-96	7.3	62
44	Optical nanoscopy: from acquisition to analysis. <i>Annual Review of Biomedical Engineering</i> , 2012 , 14, 231-54	5.4	60
43	Labeling Strategies Matter for Super-Resolution Microscopy: A Comparison between HaloTags and SNAP-tags. <i>Cell Chemical Biology</i> , 2019 , 26, 584-592.e6	8.2	56
42	Dual Sensing of Physiologic pH and Calcium by EFCAB9 Regulates Sperm Motility. <i>Cell</i> , 2019 , 177, 1480-1494.e19	14.1	55
41	Three dimensional single molecule localization using a phase retrieved pupil function. <i>Optics Express</i> , 2013 , 21, 29462-87	3.3	55
40	Light-activated protein interaction with high spatial subcellular confinement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2238-E2245	11.5	49
39	Assessing photodamage in live-cell STED microscopy. <i>Nature Methods</i> , 2018 , 15, 755-756	21.6	47
38	Quantifying and optimizing single-molecule switching nanoscopy at high speeds. <i>PLoS ONE</i> , 2015 , 10, e0128135	3.7	44
37	Nanoscale subcellular architecture revealed by multicolor three-dimensional salvaged fluorescence imaging. <i>Nature Methods</i> , 2020 , 17, 225-231	21.6	41
36	A novel physiological role for ARF1 in the formation of bidirectional tubules from the Golgi. <i>Molecular Biology of the Cell</i> , 2017 , 28, 1676-1687	3.5	32
35	Light microscopy of proteins in their ultrastructural context. <i>Nature Communications</i> , 2020 , 11, 3850	17.4	31
34	Hypoxic HepG2 cell adaptation decreases ATP synthase dimers and ATP production in inflated cristae by mitofilin down-regulation concomitant to MICOS clustering. <i>FASEB Journal</i> , 2016 , 30, 1941-57	0.9	28
33	3D mapping of nanoscale crosslink heterogeneities in microgels. <i>Materials Horizons</i> , 2018 , 5, 1130-1136	14.4	27
32	Analysis of interphase node proteins in fission yeast by quantitative and superresolution fluorescence microscopy. <i>Molecular Biology of the Cell</i> , 2017 , 28, 3203-3214	3.5	19
31	TRIM15 is a focal adhesion protein that regulates focal adhesion disassembly. <i>Journal of Cell Science</i> , 2014 , 127, 3928-42	5.3	19
30	HIDE Probes: A New Toolkit for Visualizing Organelle Dynamics, Longer and at Super-Resolution. <i>Biochemistry</i> , 2017 , 56, 5194-5201	3.2	16
29	Simultaneously Measuring Image Features and Resolution in Live-Cell STED Images. <i>Biophysical Journal</i> , 2018 , 115, 951-956	2.9	14
28	Aberrations in 4Pi Microscopy. <i>Optics Express</i> , 2017 , 25, 14049-14058	3.3	13

27	Point-spread function optimization in isoSTED nanoscopy. <i>Optics Letters</i> , 2015 , 40, 3627-30	3	12
26	Adaptive optics enables three-dimensional single particle tracking at the sub-millisecond scale. <i>Applied Physics Letters</i> , 2013 , 102, 173702	3.4	12
25	3D super-resolution deep-tissue imaging in living mice. <i>Optica</i> , 2021 , 8, 442-450	8.6	12
24	DNA-tudor interaction modules control the specificity of in vivo condensates. <i>Cell</i> , 2021 , 184, 3612-3625	6.17	9
23	Small cargoes pass through synthetically glued Golgi stacks. <i>FEBS Letters</i> , 2016 , 590, 1675-86	3.8	8
22	Fluorogenic probe for fast 3D whole-cell DNA-PAINT		8
21	3D Multicolor Nanoscopy at 10,000 Cells a Day		8
20	Circumventing the optical diffraction limit with customized speckles. <i>Optica</i> , 2021 , 8, 122	8.6	8
19	Absolute two-photon excitation spectra of red and far-red fluorescent probes. <i>Optics Letters</i> , 2015 , 40, 4915-8	3	7
18	STED Microscopy 2013 , 375-392		7
17	Three-dimensional adaptive optical nanoscopy for thick specimen imaging at sub-50-nm resolution. <i>Nature Methods</i> , 2021 , 18, 688-693	21.6	7
16	Implementation of a 4Pi-SMS super-resolution microscope. <i>Nature Protocols</i> , 2021 , 16, 677-727	18.8	7
15	Apical localization of inositol 1,4,5-trisphosphate receptors is independent of extended synaptotagmins in hepatocytes. <i>PLoS ONE</i> , 2014 , 9, e114043	3.7	6
14	Extremely Bright, Near-IR Emitting Spontaneously Blinking Fluorophores Enable Ratiometric Multicolor Nanoscopy in Live Cells. <i>ACS Central Science</i> , 2021 , 7, 1419-1426	16.8	6
13	A stable, high refractive index, switching buffer for super-resolution imaging		5
12	Accurate 4Pi single-molecule localization using an experimental PSF model. <i>Optics Letters</i> , 2020 , 45, 3765-3768	3	3
11	Sample Preparation and Imaging Conditions Affect mEos3.2 Photophysics in Fission Yeast Cells. <i>Biophysical Journal</i> , 2021 , 120, 21-34	2.9	2
10	Fluorogenic DNA-PAINT for faster, low-background super-resolution imaging.. <i>Nature Methods</i> , 2022 , 19, 554-559	21.6	2

9	Nanoscale subcellular architecture revealed by multicolor 3D salvaged fluorescence imaging		1
8	Light microscopy of proteins in their ultrastructural context		1
7	Pupil function design for multifocal confocal, STED, and isoSTED microscopy. <i>Applied Optics</i> , 2021 , 60, 5354-5359	1.7	1
6	Cryo-ET of a human GBP coatomer governing cell-autonomous innate immunity to infection		1
5	Precision analysis of mutant U2AF1 activity reveals deployment of stress granules in myeloid malignancies.. <i>Molecular Cell</i> , 2022 , 82, 1107-1122.e7	17.6	1
4	Multimodal imaging of synaptic vesicles with a single probe.. <i>Cell Reports Methods</i> , 2022 , 2, 100199		0
3	STED Microscopy 2017 , 321-338		
2	U2AF1 Mutations Enhance Stress Granule Response in Myeloid Malignancies. <i>Blood</i> , 2021 , 138, 321-321	2.2	
1	Nano-scale size holes in ER sheets provide an alternative to tubules for highly-curved membranes. <i>FASEB Journal</i> , 2018 , 32, 542.7		0.9