

Mark Bates

List of Publications by Year in Descending Order

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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.

31
papers

12,640
citations

21
h-index

36
g-index

36
ext. papers

15,099
ext. citations

12.1
avg. IF

6.52
L-index

#	Paper	IF	Citations
31	Optimal precision and accuracy in 4Pi-STORM using dynamic spline PSF models.. <i>Nature Methods</i> , 2022 , 19, 603-612	21.6	1
30	3D particle averaging and detection of macromolecular symmetry in localization microscopy. <i>Nature Communications</i> , 2021 , 12, 2847	17.4	6
29	A toolbox of anti-mouse and anti-rabbit IgG secondary nanobodies. <i>Journal of Cell Biology</i> , 2018 , 217, 1143-1154	7.3	65
28	Single-particle analysis for fluorescence nanoscopy. <i>Nature Methods</i> , 2018 , 15, 771-772	21.6	2
27	Fluorescent Photoswitchable Diarylethenes for Biolabeling and Single-Molecule Localization Microscopies with Optical Superresolution. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6611-6620	16.4	134
26	Gpufit: An open-source toolkit for GPU-accelerated curve fitting. <i>Scientific Reports</i> , 2017 , 7, 15722	4.9	22
25	Super-resolution Microscopy of Clickable Amino Acids Reveals the Effects of Fluorescent Protein Tagging on Protein Assemblies. <i>ACS Nano</i> , 2015 , 9, 11034-41	16.7	22
24	Nanoscopy: imaging life at the nanoscale: a Nobel Prize achievement with a bright future. <i>Physica Scripta</i> , 2015 , 90, 108010	2.6	3
23	Nanobodies: site-specific labeling for super-resolution imaging, rapid epitope-mapping and native protein complex isolation. <i>ELife</i> , 2015 , 4, e11349	8.9	133
22	Quantitative localization microscopy: effects of photophysics and labeling stoichiometry. <i>PLoS ONE</i> , 2015 , 10, e0127989	3.7	35
21	The 2015 super-resolution microscopy roadmap. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 443001	3	211
20	Stochastic optical reconstruction microscopy (STORM): a method for superresolution fluorescence imaging. <i>Cold Spring Harbor Protocols</i> , 2013 , 2013, 498-520	1.2	58
19	Preparation of photoswitchable labeled antibodies for STORM imaging. <i>Cold Spring Harbor Protocols</i> , 2013 , 2013, 540-1	1.2	13
18	Measuring image resolution in optical nanoscopy. <i>Nature Methods</i> , 2013 , 10, 557-62	21.6	439
17	Transfection of genetically encoded photoswitchable probes for STORM imaging. <i>Cold Spring Harbor Protocols</i> , 2013 , 2013, 537-9	1.2	4
16	Multicolor super-resolution fluorescence imaging via multi-parameter fluorophore detection. <i>ChemPhysChem</i> , 2012 , 13, 99-107	3.2	107
15	mMaple: a photoconvertible fluorescent protein for use in multiple imaging modalities. <i>PLoS ONE</i> , 2012 , 7, e51314	3.7	98

14	3D multicolor super-resolution imaging offers improved accuracy in neuron tracing. <i>PLoS ONE</i> , 2012 , 7, e30826	3.7	60
13	Evaluation of fluorophores for optimal performance in localization-based super-resolution imaging. <i>Nature Methods</i> , 2011 , 8, 1027-36	21.6	925
12	GE Prize-winning essay. A new approach to fluorescence microscopy. <i>Science</i> , 2010 , 330, 1334-5	33.3	2
11	Q&A: Single-molecule localization microscopy for biological imaging. <i>BMC Biology</i> , 2010 , 8, 106	7.3	18
10	Sub-Diffraction-Limit Imaging with Stochastic Optical Reconstruction Microscopy. <i>Springer Series in Chemical Physics</i> , 2010 , 399-415	0.3	4
9	Super-resolution fluorescence microscopy. <i>Annual Review of Biochemistry</i> , 2009 , 78, 993-1016	29.1	1159
8	Photoswitching mechanism of cyanine dyes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18192-36.4	36.4	277
7	Three-dimensional super-resolution imaging by stochastic optical reconstruction microscopy. <i>Science</i> , 2008 , 319, 810-3	33.3	1932
6	Super-resolution microscopy by nanoscale localization of photo-switchable fluorescent probes. <i>Current Opinion in Chemical Biology</i> , 2008 , 12, 505-14	9.7	163
5	Multicolor super-resolution imaging with photo-switchable fluorescent probes. <i>Science</i> , 2007 , 317, 1749-53	33.3	1119
4	Sub-diffraction-limit imaging by stochastic optical reconstruction microscopy (STORM). <i>Nature Methods</i> , 2006 , 3, 793-5	21.6	5236
3	Short-range spectroscopic ruler based on a single-molecule optical switch. <i>Physical Review Letters</i> , 2005 , 94, 108101	7.4	266
2	Dynamics of DNA molecules in a membrane channel probed by active control techniques. <i>Biophysical Journal</i> , 2003 , 84, 2366-72	2.9	124
1	A toolbox of anti-mouse and rabbit IgG secondary nanobodies		2