Mark Bates

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7500795/publications.pdf

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30	16,325	304368	454577
papers	citations	22 h-index	30 g-index

36	36	36	15176
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sub-diffraction-limit imaging by stochastic optical reconstruction microscopy (STORM). Nature Methods, 2006, 3, 793-796.	9.0	6,819
2	Three-Dimensional Super-Resolution Imaging by Stochastic Optical Reconstruction Microscopy. Science, 2008, 319, 810-813.	6.0	2,470
3	Super-Resolution Fluorescence Microscopy. Annual Review of Biochemistry, 2009, 78, 993-1016.	5.0	1,450
4	Multicolor Super-Resolution Imaging with Photo-Switchable Fluorescent Probes. Science, 2007, 317, 1749-1753.	6.0	1,347
5	Evaluation of fluorophores for optimal performance in localization-based super-resolution imaging. Nature Methods, 2011, 8, 1027-1036.	9.0	1,198
6	Measuring image resolution in optical nanoscopy. Nature Methods, 2013, 10, 557-562.	9.0	650
7	Photoswitching Mechanism of Cyanine Dyes. Journal of the American Chemical Society, 2009, 131, 18192-18193.	6.6	336
8	Short-Range Spectroscopic Ruler Based on a Single-Molecule Optical Switch. Physical Review Letters, 2005, 94, 108101.	2.9	308
9	The 2015 super-resolution microscopy roadmap. Journal Physics D: Applied Physics, 2015, 48, 443001.	1.3	291
10	Super-resolution microscopy by nanoscale localization of photo-switchable fluorescent probes. Current Opinion in Chemical Biology, 2008, 12, 505-514.	2.8	194
11	Nanobodies: site-specific labeling for super-resolution imaging, rapid epitope-mapping and native protein complex isolation. ELife, 2015, 4, e11349.	2.8	177
12	Fluorescent Photoswitchable Diarylethenes for Biolabeling and Single-Molecule Localization Microscopies with Optical Superresolution. Journal of the American Chemical Society, 2017, 139, 6611-6620.	6.6	177
13	Multicolor Superâ€Resolution Fluorescence Imaging via Multiâ€Parameter Fluorophore Detection. ChemPhysChem, 2012, 13, 99-107.	1.0	137
14	Dynamics of DNA Molecules in a Membrane Channel Probed by Active Control Techniques. Biophysical Journal, 2003, 84, 2366-2372.	0.2	136
15	mMaple: A Photoconvertible Fluorescent Protein for Use in Multiple Imaging Modalities. PLoS ONE, 2012, 7, e51314.	1.1	125
16	A toolbox of antiâ€“mouse and antiâ€“rabbit IgG secondary nanobodies. Journal of Cell Biology, 2018, 217, 1143-1154.	2.3	111
17	Stochastic Optical Reconstruction Microscopy (STORM): A Method for Superresolution Fluorescence Imaging. Cold Spring Harbor Protocols, 2013, 2013, pdb.top075143.	0.2	92
18	3D Multicolor Super-Resolution Imaging Offers Improved Accuracy in Neuron Tracing. PLoS ONE, 2012, 7, e30826.	1.1	67

#	Article	IF	Citations
19	Quantitative Localization Microscopy: Effects of Photophysics and Labeling Stoichiometry. PLoS ONE, 2015, 10, e0127989.	1.1	50
20	Gpufit: An open-source toolkit for GPU-accelerated curve fitting. Scientific Reports, 2017, 7, 15722.	1.6	45
21	3D particle averaging and detection of macromolecular symmetry in localization microscopy. Nature Communications, 2021, 12, 2847.	5.8	32
22	Super-resolution Microscopy of Clickable Amino Acids Reveals the Effects of Fluorescent Protein Tagging on Protein Assemblies. ACS Nano, 2015, 9, 11034-11041.	7.3	26
23	Q&A: Single-molecule localization microscopy for biological imaging. BMC Biology, 2010, 8, 106.	1.7	22
24	Optimal precision and accuracy in 4Pi-STORM using dynamic spline PSF models. Nature Methods, 2022, 19, 603-612.	9.0	21
25	Preparation of Photoswitchable Labeled Antibodies for STORM Imaging. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot075168.	0.2	15
26	Sub-Diffraction-Limit Imaging with Stochastic Optical Reconstruction Microscopy. Springer Series in Chemical Physics, 2010, , 399-415.	0.2	7
27	Transfection of Genetically Encoded Photoswitchable Probes for STORM Imaging. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot075150.	0.2	4
28	Single-particle analysis for fluorescence nanoscopy. Nature Methods, 2018, 15, 771-772.	9.0	4
29	Nanoscopyâ€"imaging life at the nanoscale: a Nobel Prize achievement with a bright future. Physica Scripta, 2015, 90, 108010.	1.2	3
30	A New Approach to Fluorescence Microscopy. Science, 2010, 330, 1334-1335.	6.0	2