

Mikael P Backlund

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,162
citations

687363

13
h-index

1058476

14
g-index

19
all docs

19
docs citations

19
times ranked

1332
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous, accurate measurement of the 3D position and orientation of single molecules. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19087-19092.	7.1	176
2	Cytoplasmic RNA-Protein Particles Exhibit Non-Gaussian Subdiffusive Behavior. Biophysical Journal, 2017, 112, 532-542.	0.5	162
3	The Role of Molecular Dipole Orientation in Single-Molecule Fluorescence Microscopy and Implications for Super-Resolution Imaging. ChemPhysChem, 2014, 15, 587-599.	2.1	121
4	Rotational Mobility of Single Molecules Affects Localization Accuracy in Super-Resolution Fluorescence Microscopy. Nano Letters, 2013, 13, 3967-3972.	9.1	101
5	Removing orientation-induced localization biases in single-molecule microscopy using a broadband metasurface mask. Nature Photonics, 2016, 10, 459-462.	31.4	98
6	Quantitative Multicolor Subdiffraction Imaging of Bacterial Protein Ultrastructures in Three Dimensions. Nano Letters, 2013, 13, 987-993.	9.1	94
7	Chromosomal locus tracking with proper accounting of static and dynamic errors. Physical Review E, 2015, 91, 062716.	2.1	69
8	A bisected pupil for studying single-molecule orientational dynamics and its application to three-dimensional super-resolution microscopy. Applied Physics Letters, 2014, 104, 193701.	3.3	68
9	Correlations of three-dimensional motion of chromosomal loci in yeast revealed by the double-helix point spread function microscope. Molecular Biology of the Cell, 2014, 25, 3619-3629.	2.1	63
10	Single-molecule orientation measurements with a quadrated pupil. Optics Letters, 2013, 38, 1521.	3.3	60
11	Fundamental Precision Bounds for Three-Dimensional Optical Localization Microscopy with Poisson Statistics. Physical Review Letters, 2018, 121, 023904.	7.8	57
12	Quantum diamond spectrometer for nanoscale NMR and ESR spectroscopy. Nature Protocols, 2019, 14, 2707-2747.	12.0	57
13	The double-helix point spread function enables precise and accurate measurement of 3D single-molecule localization and orientation. Proceedings of SPIE, 2013, 8590, 85900.	0.8	25
14	Diamond-Based Magnetic Imaging with Fourier Optical Processing. Physical Review Applied, 2017, 8, .	3.8	11
15	Single-molecule orientation measurements with a quadrated pupil. Proceedings of SPIE, 2014, , .	0.8	0
16	The Double-Helix Microscope Enables Precise and Accurate Measurement of 3D Single-Molecule Orientation and Localization Beyond the Diffraction Limit. , 2013, , .		0
17	Measuring the 3D Position and Orientation of Single Molecules Simultaneously and Accurately with the Double Helix Microscope. , 2013, , .		0
18	Optical Methods for Measuring Single-Molecule Orientation and Position: Implications for Super-Resolution Microscopy. , 2013, , .		0

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19	Single-Molecule Orientation Measurements with a Quadrated Pupil. , 2013, , .		0