

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	Quantum diamond spectrometer for nanoscale NMR and ESR spectroscopy. Nature Protocols, 2019, 14, 2707-2747.	12.0	57
2	Fundamental Precision Bounds for Three-Dimensional Optical Localization Microscopy with Poisson Statistics. Physical Review Letters, 2018, 121, 023904.	7.8	57
3	Cytoplasmic RNA-Protein Particles Exhibit Non-Gaussian Subdiffusive Behavior. Biophysical Journal, 2017, 112, 532-542.	0.5	162
4	Diamond-Based Magnetic Imaging with Fourier Optical Processing. Physical Review Applied, 2017, 8, .	3.8	11
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	Chromosomal locus tracking with proper accounting of static and dynamic errors. Physical Review E, 2015, 91, 062716.	2.1	69
7	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
8	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
9	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
10	Single-molecule orientation measurements with a quadrated pupil. Proceedings of SPIE, 2014, , .	0.8	0
11	Quantitative Multicolor Subdiffraction Imaging of Bacterial Protein Ultrastructures in Three Dimensions. Nano Letters, 2013, 13, 987-993.	9.1	94
12	Rotational Mobility of Single Molecules Affects Localization Accuracy in Super-Resolution Fluorescence Microscopy. Nano Letters, 2013, 13, 3967-3972.	9.1	101
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	Single-molecule orientation measurements with a quadrated pupil. Optics Letters, 2013, 38, 1521.	3.3	60
15	The Double-Helix Microscope Enables Precise and Accurate Measurement of 3D Single-Molecule Orientation and Localization Beyond the Diffraction Limit. , 2013, , .		0
16	Measuring the 3D Position and Orientation of Single Molecules Simultaneously and Accurately with the Double Helix Microscope. , 2013, , .		0
17	Optical Methods for Measuring Single-Molecule Orientation and Position: Implications for Super-Resolution Microscopy. , 2013, , .		0
18	Single-Molecule Orientation Measurements with a Quadrated Pupil. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
19	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