

# We Moerner Or William E Moerner

List of Publications by Year  
in descending order

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418  
papers

34,877  
citations

3334

91  
h-index

4228

174  
g-index

451  
all docs

451  
docs citations

451  
times ranked

20778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring Cell Surface "Nanopillar Interactions with 3D Super-Resolution Microscopy. ACS Nano, 2022, 16, 192-210.	14.6	10
2	A bottom-up perspective on photodynamics and photoprotection in light-harvesting complexes using anti-Brownian trapping. Journal of Chemical Physics, 2022, 156, 070901.	3.0	5
3	Multi-color super-resolution imaging to study human coronavirus RNA during cellular infection. Cell Reports Methods, 2022, 2, 100170.	2.9	13
4	Autobiography of W. E. (William Esco) Moerner. Journal of Physical Chemistry B, 2022, 126, 1159-1159.	2.6	0
5	ATP-responsive biomolecular condensates tune bacterial kinase signaling. Science Advances, 2022, 8, eabm6570.	10.3	28
6	Fast and parallel nanoscale three-dimensional tracking of heterogeneous mammalian chromatin dynamics. Molecular Biology of the Cell, 2022, 33, mbcE21100514.	2.1	9
7	Ratiometric Sensing of Redox Environments Inside Individual Carboxysomes Trapped in Solution. Journal of Physical Chemistry Letters, 2022, 13, 4455-4462.	4.6	7
8	Identification and demonstration of roGFP2 as an environmental sensor for cryogenic correlative light and electron microscopy. Journal of Structural Biology, 2022, 214, 107881.	2.8	2
9	Genome-wide CRISPR screens reveal a specific ligand for the glycan-binding immune checkpoint receptor Siglec-7. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	73
10	A localized adaptor protein performs distinct functions at the <i>Caulobacter</i> cell poles. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
11	Cryogenic Super-Resolution Fluorescence and Electron Microscopy Correlated at the Nanoscale. Annual Review of Physical Chemistry, 2021, 72, 253-278.	10.8	44
12	Metabolic precision labeling enables selective probing of O-linked <i>N</i> -acetylgalactosamine glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25293-25301.	7.1	55
13	Opposing Effects of Cohesin and Transcription on CTCF Organization Revealed by Super-resolution Imaging. Molecular Cell, 2020, 80, 699-711.e7.	9.7	45
14	Super-resolution Microscopy with Single Molecules in Biology and Beyond "Essentials, Current Trends, and Future Challenges. Journal of the American Chemical Society, 2020, 142, 17828-17844.	13.7	108
15	Cryogenic Correlative Single-Particle Photoluminescence Spectroscopy and Electron Tomography for Investigation of Nanomaterials. Angewandte Chemie, 2020, 132, 15772-15778.	2.0	1
16	Viewpoint: Single Molecules at 31: What's Next?. Nano Letters, 2020, 20, 8427-8429.	9.1	12
17	T-Plastin reinforces membrane protrusions to bridge matrix gaps during cell migration. Nature Communications, 2020, 11, 4818.	12.8	23
18	Cryogenic single-molecule fluorescence annotations for electron tomography reveal in situ organization of key proteins in <i>Caulobacter</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13937-13944.	7.1	73

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19	Accurate and rapid background estimation in single-molecule localization microscopy using the deep neural network BGnet. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 60-67.	7.1	46
20	Selective sequestration of signalling proteins in a membraneless organelle reinforces the spatial regulation of asymmetry in <i>Caulobacter crescentus</i> . Nature Microbiology, 2020, 5, 418-429.	13.3	81
21	Novel fibrillar structure in the inversin compartment of primary cilia revealed by 3D single-molecule superresolution microscopy. Molecular Biology of the Cell, 2020, 31, 619-639.	2.1	32
22	Cryogenic Correlative Single-Particle Photoluminescence Spectroscopy and Electron Tomography for Investigation of Nanomaterials. Angewandte Chemie - International Edition, 2020, 59, 15642-15648.	13.8	8
23	Deep learning in single-molecule microscopy: fundamentals, caveats, and recent developments [Invited]. Biomedical Optics Express, 2020, 11, 1633.	2.9	65
24	Addressing systematic errors in axial distance measurements in single-emitter localization microscopy. Optics Express, 2020, 28, 18616.	3.4	18
25	Interferometric Scattering Enables Fluorescence-Free Electrokinetic Trapping of Single Nanoparticles in Free Solution. Nano Letters, 2019, 19, 4112-4117.	9.1	24
26	Topologically-guided continuous protein crystallization controls bacterial surface layer self-assembly. Nature Communications, 2019, 10, 2731.	12.8	25
27	Quantitative Super-Resolution Microscopy of the Mammalian Glycocalyx. Developmental Cell, 2019, 50, 57-72.e6.	7.0	74
28	Single-molecule trapping and spectroscopy reveals photophysical heterogeneity of phycobilisomes quenched by Orange Carotenoid Protein. Nature Communications, 2019, 10, 1172.	12.8	45
29	Motional dynamics of single Patched1 molecules in cilia are controlled by Hedgehog and cholesterol. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5550-5557.	7.1	45
30	Asymmetric division yields progeny cells with distinct modes of regulating cell cycle-dependent chromosome methylation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15661-15670.	7.1	15
31	Accurate phase retrieval of complex 3D point spread functions with deep residual neural networks. Applied Physics Letters, 2019, 115, 251106.	3.3	33
32	Revealing Nanoscale Morphology of the Primary Cilium Using Super-Resolution Fluorescence Microscopy. Biophysical Journal, 2019, 116, 319-329.	0.5	21
33	Localization microscopy of single molecules enhanced by 3D imaging and light sheet illumination. Journal Physics D: Applied Physics, 2019, 52, 011001.	2.8	0
34	Spatial organization and dynamics of RNase E and ribosomes in <i>Caulobacter crescentus</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3712-E3721.	7.1	64
35	Single-molecule diffusometry reveals the nucleotide-dependent oligomerization pathways of <i>Nicotiana tabacum</i> Rubisco activase. Journal of Chemical Physics, 2018, 148, 123319.	3.0	25
36	3D single-molecule super-resolution microscopy with a tilted light sheet. Nature Communications, 2018, 9, 123.	12.8	143

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37	Anti-Brownian Traps. , 2018, , 1-8.		3
38	Precise Measurement of Single-Molecule Rotational Diffusivity in Solution. Biophysical Journal, 2018, 114, 170a.	0.5	1
39	Identification of PAMKate as a Red Photoactivatable Fluorescent Protein for Cryogenic Super-Resolution Imaging. Journal of the American Chemical Society, 2018, 140, 12310-12313.	13.7	43
40	Light sheet approaches for improved precision in 3D localization-based super-resolution imaging in mammalian cells [Invited]. Optics Express, 2018, 26, 13122.	3.4	46
41	Resolving Mixtures in Solution by Single-Molecule Rotational Diffusivity. Nano Letters, 2018, 18, 5279-5287.	9.1	15
42	Tilted light sheet microscopy with 3D point spread functions for single-molecule super-resolution imaging in mammalian cells. , 2018, 10500, .		3
43	Three-Dimensional Localization of Single Molecules for Super-Resolution Imaging and Single-Particle Tracking. Chemical Reviews, 2017, 117, 7244-7275.	47.7	381
44	Super-Resolution Microscopy and Single-Protein Tracking in Live Bacteria Using a Genetically Encoded, Photostable Fluoromodule. Current Protocols in Cell Biology, 2017, 75, 4.32.1-4.32.22.	2.3	1
45	Direct single-molecule measurements of phycocyanobilin photophysics in monomeric C-phycocyanin. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9779-9784.	7.1	39
46	Single-Molecule Imaging of Wnt3A Protein Diffusion on Living Cell Membranes. Biophysical Journal, 2017, 113, 2762-2767.	0.5	5
47	Observation of live chromatin dynamics in cells via 3D localization microscopy using Tetrapod point spread functions. Biomedical Optics Express, 2017, 8, 5735.	2.9	33
48	Measurement-based estimation of global pupil functions in 3D localization microscopy. Optics Express, 2017, 25, 7945.	3.4	57
49	Removing orientation-induced localization biases in single-molecule microscopy using a broadband metasurface mask. Nature Photonics, 2016, 10, 459-462.	31.4	98
50	Super-resolution Imaging of Live Bacteria Cells Using a Genetically Directed, Highly Photostable Fluoromodule. Journal of the American Chemical Society, 2016, 138, 10398-10401.	13.7	53
51	Delayed emergence of subdiffraction-sized mutant huntingtin fibrils following inclusion body formation. Quarterly Reviews of Biophysics, 2016, 49, e2.	5.7	39
52	Multicolour localization microscopy by point-spread-function engineering. Nature Photonics, 2016, 10, 590-594.	31.4	128
53	Enhanced DNA imaging using super-resolution microscopy and simultaneous single-molecule orientation measurements. Optica, 2016, 3, 659.	9.3	103
54	Enhanced DNA Imaging Using Super-Resolution Microscopy and Simultaneous Single-Molecule Orientation Measurements. , 2016, , .		0

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55	Chromosomal locus tracking with proper accounting of static and dynamic errors. Physical Review E, 2015, 91, 062716.	2.1	69
56	Single-Molecule Spectroscopy, Imaging, and Photocontrol: Foundations for Super-Resolution Microscopy (Nobel Lecture). Angewandte Chemie - International Edition, 2015, 54, 8067-8093.	13.8	191
57	Motion of chromosomal loci and the mean-squared displacement of a fractional Brownian motion in the presence of static and dynamic errors. , 2015, , .		1
58	Correcting field-dependent aberrations with nanoscale accuracy in three-dimensional single-molecule localization microscopy. Optica, 2015, 2, 985.	9.3	87
59	Single-molecule spectroscopy and imaging over the decades. Faraday Discussions, 2015, 184, 9-36.	3.2	79
60	Single-molecule exploration of photoprotective mechanisms in light-harvesting complexes. , 2015, , .		0
61	Single-Molecule Identification of Quenched and Unquenched States of LHCII. Journal of Physical Chemistry Letters, 2015, 6, 860-867.	4.6	88
62	Single-molecule imaging of Hedgehog pathway protein Smoothed in primary cilia reveals binding events regulated by Patched1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8320-8325.	7.1	89
63	Precise Three-Dimensional Scan-Free Multiple-Particle Tracking over Large Axial Ranges with Tetrapod Point Spread Functions. Nano Letters, 2015, 15, 4194-4199.	9.1	210
64	Determining the rotational mobility of a single molecule from a single image: a numerical study. Optics Express, 2015, 23, 4255.	3.4	41
65	Optimal Point Spread Function for 3D High-Precision Imaging. , 2015, , .		0
66	Pigment-Specific Fluorescence Spectroscopy of Single Antenna Complexes in Solution. Biophysical Journal, 2015, 108, 368a.	0.5	0
67	Dissecting pigment architecture of individual photosynthetic antenna complexes in solution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13880-13885.	7.1	37
68	Determining the Rotational Mobility of a Single Molecule from a Single Image: A Numerical Study. , 2015, , .		0
69	An Azimuthal Polarizer Assures Localization Accuracy in Single-Molecule Super-Resolution Fluorescence Microscopy. , 2015, , .		0
70	Maximally Informative Point Spread Functions for 3D Super-Resolution Imaging. , 2015, , .		0
71	Bacterial scaffold directs pole-specific centromere segregation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2046-55.	7.1	91
72	The regulatory switch of F <sub>1</sub> -ATPase studied by single-molecule FRET in the ABEL trap. Proceedings of SPIE, 2014, 8950, 89500H.	0.8	21

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73	Optimal Point Spread Function Engineering for 3D Super-Resolution Imaging. , 2014, , .		0
74	Spectroscopic and transport measurements of single molecules in solution using an electrokinetic trap. Proceedings of SPIE, 2014, , .	0.8	0
75	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
76	From "There's Plenty of Room at the Bottom" to Seeing What is Actually There. ChemPhysChem, 2014, 15, 547-549.	2.1	1
77	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
78	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
79	Single-molecule motions enable direct visualization of biomolecular interactions in solution. Nature Methods, 2014, 11, 555-558.	19.0	102
80	Exploring bacterial cell biology with single-molecule tracking and super-resolution imaging. Nature Reviews Microbiology, 2014, 12, 9-22.	28.6	232
81	Single-molecule spectroscopy of photosynthetic proteins in solution: exploration of structure-function relationships. Chemical Science, 2014, 5, 2933-2939.	7.4	26
82	Super-Resolution Fluorescence of Huntingtin Reveals Growth of Globular Species into Short Fibers and Coexistence of Distinct Aggregates. ACS Chemical Biology, 2014, 9, 2767-2778.	3.4	58
83	Cby1 promotes Ahi1 recruitment to a ring-shaped domain at the centriole-cilium interface and facilitates proper cilium formation and function. Molecular Biology of the Cell, 2014, 25, 2919-2933.	2.1	55
84	Azimuthal Polarization Filtering for Accurate, Precise, and Robust Single-Molecule Localization Microscopy. Nano Letters, 2014, 14, 6407-6413.	9.1	54
85	Robust hypothesis tests for detecting statistical evidence of two-dimensional and three-dimensional interactions in single-molecule measurements. Physical Review E, 2014, 89, 052705.	2.1	7
86	Small-Molecule Labeling of Live Cell Surfaces for Three-Dimensional Super-Resolution Microscopy. Journal of the American Chemical Society, 2014, 136, 14003-14006.	13.7	108
87	Optimal Point Spread Function Design for 3D Imaging. Physical Review Letters, 2014, 113, 133902.	7.8	277
88	Extending Single-Molecule Microscopy Using Optical Fourier Processing. Journal of Physical Chemistry B, 2014, 118, 8313-8329.	2.6	129
89	Single-molecule orientation measurements with a quadrated pupil. Proceedings of SPIE, 2014, , .	0.8	0
90	Quantitative Multicolor Subdiffraction Imaging of Bacterial Protein Ultrastructures in Three Dimensions. Nano Letters, 2013, 13, 987-993.	9.1	94

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91	Super-resolution fluorescence imaging with single molecules. <i>Current Opinion in Structural Biology</i> , 2013, 23, 778-787.	5.7	127
92	Photo-Induced Conformational Flexibility in Single Solution-Phase Peridinin-Chlorophyll-Proteins. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8399-8406.	2.5	18
93	Super-resolution fluorescence imaging of intracellular mutant huntingtin protein reveals a population of fibrillar aggregates co-existing with compact perinuclear inclusion bodies. <i>Molecular Neurodegeneration</i> , 2013, 8, O18.	10.8	1
94	Rotational Mobility of Single Molecules Affects Localization Accuracy in Super-Resolution Fluorescence Microscopy. <i>Nano Letters</i> , 2013, 13, 3967-3972.	9.1	101
95	Lifetime and Spectrally Resolved Characterization of the Photodynamics of Single Fluorophores in Solution Using the Anti-Brownian Electrokinetic Trap. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4641-4648.	2.6	53
96	Enzymatic activation of nitro-aryl fluorogens in live bacterial cells for enzymatic turnover-activated localization microscopy. <i>Chemical Science</i> , 2013, 4, 220-225.	7.4	56
97	Quantifying Transient 3D Dynamical Phenomena of Single mRNA Particles in Live Yeast Cell Measurements. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15701-15713.	2.6	15
98	The double-helix point spread function enables precise and accurate measurement of 3D single-molecule localization and orientation. <i>Proceedings of SPIE</i> , 2013, 8590, 85900.	0.8	25
99	Single-molecule orientation measurements with a quadrated pupil. <i>Optics Letters</i> , 2013, 38, 1521.	3.3	60
100	Single-molecule spectroscopy reveals photosynthetic LH2 complexes switch between emissive states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10899-10903.	7.1	78
101	The Double-Helix Microscope Enables Precise and Accurate Measurement of 3D Single-Molecule Orientation and Localization Beyond the Diffraction Limit. , 2013, , .		0
102	Measuring the 3D Position and Orientation of Single Molecules Simultaneously and Accurately with the Double Helix Microscope. , 2013, , .		0
103	Optical Methods for Measuring Single-Molecule Orientation and Position: Implications for Super-Resolution Microscopy. , 2013, , .		0
104	Single-Molecule Orientation Measurements with a Quadrated Pupil. , 2013, , .		0
105	Cellular Inclusion Bodies of Mutant Huntingtin Exon 1 Obscure Small Fibrillar Aggregate Species. <i>Scientific Reports</i> , 2012, 2, 895.	3.3	74
106	Single-Molecule Photocontrol and Nanoscopy. <i>Springer Series on Fluorescence</i> , 2012, , 87-110.	0.8	0
107	The double-helix microscope super-resolves extended biological structures by localizing single blinking molecules in three dimensions with nanoscale precision. <i>Applied Physics Letters</i> , 2012, 100, 153701.	3.3	48
108	QnAs with W. E. Moerner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6357-6357.	7.1	1

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109	Anti-Brownian Electrokinetic (ABEL) trapping of single $\beta_2$ -adrenergic receptors in the absence and presence of agonist. , 2012, , .		3
110	Spectrally resolved anti-Brownian electrokinetic (ABEL) trapping of single peridinin-chlorophyll-proteins in solution. Proceedings of SPIE, 2012, , .	0.8	4
111	Probing Single Biomolecules in Solution Using the Anti-Brownian Electrokinetic (ABEL) Trap. Accounts of Chemical Research, 2012, 45, 1955-1964.	15.6	89
112	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
113	STED Microscopy with Optimized Labeling Density Reveals 9-Fold Arrangement of a Centriole Protein. Biophysical Journal, 2012, 102, 2926-2935.	0.5	106
114	Fluorescent Saxitoxins for Live Cell Imaging of Single Voltage-Gated Sodium Ion Channels beyond the Optical Diffraction Limit. Chemistry and Biology, 2012, 19, 902-912.	6.0	49
115	Fluorescence correlation spectroscopy at high concentrations using gold bowtie nanoantennas. Chemical Physics, 2012, 406, 3-8.	1.9	47
116	Analytical Tools To Distinguish the Effects of Localization Error, Confinement, and Medium Elasticity on the Velocity Autocorrelation Function. Biophysical Journal, 2012, 102, 2443-2450.	0.5	102
117	Extending Microscopic Resolution with Single-Molecule Imaging and Active Control. Annual Review of Biophysics, 2012, 41, 321-342.	10.0	107
118	Widespread mRNA Association with Cytoskeletal Motor Proteins and Identification and Dynamics of Myosin-Associated mRNAs in <i>S. cerevisiae</i> . PLoS ONE, 2012, 7, e31912.	2.5	16
119	A Selenium Analogue of Firefly $\beta$ -Galactosidase Luciferin with Red-Shifted Bioluminescence Emission. Angewandte Chemie - International Edition, 2012, 51, 3350-3353.	13.8	104
120	Three-Dimensional Super-Resolution Imaging of the Midplane Protein FtsZ in Live <i>Caulobacter crescentus</i> Cells Using Astigmatism. ChemPhysChem, 2012, 13, 1007-1012.	2.1	87
121	Microscopy beyond the diffraction limit using actively controlled single molecules. Journal of Microscopy, 2012, 246, 213-220.	1.8	112
122	Super-Resolution Imaging of the Nucleoid-Associated Protein HU in <i>Caulobacter crescentus</i> . Biophysical Journal, 2011, 100, L31-L33.	0.5	83
123	An Adaptive Anti-Brownian Electrokinetic Trap with Real-Time Information on Single-Molecule Diffusivity and Mobility. ACS Nano, 2011, 5, 5792-5799.	14.6	81
124	Corkscrew point spread function for far-field three-dimensional nanoscale localization of pointlike objects. Optics Letters, 2011, 36, 202.	3.3	124
125	Conformational Dynamics of Single G Protein-Coupled Receptors in Solution. Journal of Physical Chemistry B, 2011, 115, 13328-13338.	2.6	93
126	Sub-Diffraction Imaging of Huntingtin Protein Aggregates by Fluorescence Blink-Microscopy and Atomic Force Microscopy. ChemPhysChem, 2011, 12, 2387-2390.	2.1	47



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127	Live cell single-molecule and superresolution imaging of proteins in bacteria. Proceedings of SPIE, 2011, , .	0.8	0
128	Redox cycling and kinetic analysis of single molecules of solution-phase nitrite reductase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17269-17274.	7.1	53
129	Sensing cooperativity in ATP hydrolysis for single multisubunit enzymes in solution. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16962-16967.	7.1	73
130	STED super-resolution microscopy in Drosophila tissue and in mammalian cells. Proceedings of SPIE, 2011, 7910, .	0.8	8
131	Three-dimensional superresolution colocalization of intracellular protein superstructures and the cell surface in live <i>Caulobacter crescentus</i> . Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1102-10.	7.1	131
132	Exploring Protein Superstructures and Dynamics in Live Bacterial Cells Using Single-Molecule and Superresolution Imaging. Methods in Molecular Biology, 2011, 783, 139-158.	0.9	9
133	High-Resolution Single-Molecule Spectroscopy. , 2011, , 381-417.		12
134	Super-Resolution 3D Co-Localization of Protein Superstructures and the Cellular Surface in Live <i>Caulobacter crescentus</i> . , 2011, , .		0
135	An Adaptive Anti-Brownian Electrokinetic Trap for Prolonged Observation of Single Molecules in Solution. , 2011, , .		0
136	Optical Explorations of Single Biomolecules and Enzymes in Solution with an Anti-Brownian Electrokinetic Trap. , 2011, , .		0
137	Three-Dimensional Super-Resolution Imaging with a Corkscrew Point Spread Function. , 2011, , .		0
138	Studying Subunit Cooperativity by Counting Hydrolyzed ATP on Single Chaperonin Nanomachines in Solution. , 2011, , .		0
139	Single-Molecule Approaches for Superresolution Imaging, Trapping, and Nanophotonics. , 2010, , .		0
140	Localizing and Tracking Single Emitters in Three Dimensions Using a Double Helix Point Spread Function. , 2010, , .		0
141	Optimal strategy for trapping single fluorescent molecules in solution using the ABEL trap. Applied Physics B: Lasers and Optics, 2010, 99, 23-30.	2.2	69
142	A spindle-like apparatus guides bacterial chromosome segregation. Nature Cell Biology, 2010, 12, 791-798.	10.3	308
143	Watching conformational- and photodynamics of single fluorescent proteins in solution. Nature Chemistry, 2010, 2, 179-186.	13.6	143
144	Three-dimensional localization precision of the double-helix point spread function versus astigmatism and biplane. Applied Physics Letters, 2010, 97, 161103.	3.3	104

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145	In vivo three-dimensional superresolution fluorescence tracking using a double-helix point spread function. Proceedings of SPIE, 2010, 7571, 75710Z.	0.8	15
146	Photoactivatable Azido Push-Pull Fluorophores for Single-Molecule Imaging in and out of Cells. Biophysical Journal, 2010, 98, 203a.	0.5	0
147	Single-Molecule Spectroscopy and Imaging of Biomolecules in Living Cells. Analytical Chemistry, 2010, 82, 2192-2203.	6.5	140
148	Watching Conformational and Photo-Dynamics of Single Fluorescent Proteins in Solution. Biophysical Journal, 2010, 98, 186a.	0.5	0
149	Localizing and Tracking Single Nanoscale Emitters in Three Dimensions with High Spatiotemporal Resolution Using a Double-Helix Point Spread Function. Nano Letters, 2010, 10, 211-218.	9.1	164
150	Single-Molecule and Superresolution Imaging in Live Bacteria Cells. Cold Spring Harbor Perspectives in Biology, 2010, 2, a000448-a000448.	5.5	43
151	Azido Push-Pull Fluorogens Photoactivate to Produce Bright Fluorescent Labels. Journal of Physical Chemistry B, 2010, 114, 14157-14167.	2.6	96
152	Action of the Chaperonin GroEL/ES on a Non-native Substrate Observed with Single-Molecule FRET. Journal of Molecular Biology, 2010, 401, 553-563.	4.2	19
153	Superresolution Imaging of Targeted Proteins in Fixed and Living Cells Using Photoactivatable Organic Fluorophores. Journal of the American Chemical Society, 2010, 132, 15099-15101.	13.7	164
154	Molecules and Methods for Super-Resolution Imaging. Methods in Enzymology, 2010, 475, 27-59.	1.0	49
155	Three-dimensional tracking of single mRNA particles in <i>Saccharomyces cerevisiae</i> using a double-helix point spread function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17864-17871.	7.1	157
156	Single-Molecule Optical Spectroscopy and Imaging: From Early Steps to Recent Advances. Springer Series in Chemical Physics, 2010, , 25-60.	0.2	8
157	Suppression of Brownian Motion Explores Cooperativity for Single Multi-Subunit Enzymes in Solution. , 2010, , .		0
158	Large Single-Molecule Fluorescence Enhancements Produced by a Bowtie Nanoantenna. , 2009, , .		4
159	Anti-Brownian Electrokinetic (ABEL) Trapping of Single High Density Lipoprotein (HDL) Particles. , 2009, , .		0
160	Superresolution imaging in live <i>Caulobacter crescentus</i> cells using photoswitchable enhanced yellow fluorescent protein. Proceedings of SPIE, 2009, , .	0.8	12
161	Photoactivatable DCDHF fluorophores for single-molecule imaging. Proceedings of SPIE, 2009, , .	0.8	0
162	Three-dimensional super-resolution imaging with a double-helix microscope. , 2009, , .		0

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163	Photoactivatable Push-Pull Fluorophores for Single-Molecule Imaging in and out of Cells. , 2009, , .		0
164	DCDHF Fluorophores for Single-Molecule Imaging in Cells. ChemPhysChem, 2009, 10, 55-65.	2.1	93
165	Triblock supramolecules: Small 21/2009. Small, 2009, 5, NA-NA.	10.0	0
166	Micrometer-sized DNA Single-Fluorophore DNA Supramolecule: Synthesis and Single-Molecule Characterization. Small, 2009, 5, 2418-2423.	10.0	12
167	Large single-molecule fluorescence enhancements produced by a bowtie nanoantenna. Nature Photonics, 2009, 3, 654-657.	31.4	1,788
168	Bright, Red Single-Molecule Emitters: Synthesis and Properties of Environmentally Sensitive Dicyanomethylenedihydrofuran (DCDHF) Fluorophores with Bisaromatic Conjugation. Chemistry of Materials, 2009, 21, 797-810.	6.7	45
169	Three-dimensional, single-molecule fluorescence imaging beyond the diffraction limit by using a double-helix point spread function. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2995-2999.	7.1	924
170	Lithographic positioning of fluorescent molecules on high-Q photonic crystal cavities. Applied Physics Letters, 2009, 95, 123113.	3.3	26
171	Determining Single-Molecule ATP Binding Stoichiometry in a Multi-Subunit Enzyme with a Hardware-Based Anti-Brownian Electrokinetic Trap. , 2009, , .		0
172	Three-Dimensional Superresolution Using Single-Molecule Photoswitches and a Double-Helix PSF. , 2009, , .		0
173	Localization Precision of Three-Dimensional Superresolution Fluorescence Imaging Using a Double-Helix Point Spread Function. , 2009, , .		0
174	An FPGA-based Anti-Brownian Electrokinetic trap for studying single molecules in solution. , 2009, , .		0
175	Single-Molecule Biophysical Imaging, Superresolution, and Trapping. , 2009, , .		0
176	Watching Photophysics in Action: Single-Molecule Solution-Phase studies of a Trapped Photosynthetic Antenna Protein. , 2009, , .		0
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