

We Moerner Or William E Moerner

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.

360
papers

29,084
citations

83
h-index

161
g-index

451
ext. papers

32,838
ext. citations

8.6
avg, IF

7.4
L-index

#	Paper	IF	Citations
360	A bottom-up perspective on photodynamics and photoprotection in light-harvesting complexes using anti-Brownian trapping.. <i>Journal of Chemical Physics</i> , 2022 , 156, 070901	3.9	2
359	Multi-color super-resolution imaging to study human coronavirus RNA during cellular infection.. <i>Cell Reports Methods</i> , 2022 , 100170		2
358	Autobiography of W. E. (William Esco) Moerner.. <i>Journal of Physical Chemistry B</i> , 2022 , 126, 1159	3.4	
357	ATP-responsive biomolecular condensates tune bacterial kinase signaling.. <i>Science Advances</i> , 2022 , 8, eabm6570	14.3	3
356	Fast and parallel nanoscale 3D tracking of heterogeneous mammalian chromatin dynamics.. <i>Molecular Biology of the Cell</i> , 2022 , mbcE21100514	3.5	1
355	Ratiometric Sensing of Redox Environments Inside Individual Carboxysomes Trapped in Solution.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4455-4462	6.4	1
354	Cryogenic Super-Resolution Fluorescence and Electron Microscopy Correlated at the Nanoscale. <i>Annual Review of Physical Chemistry</i> , 2021 , 72, 253-278	15.7	10
353	Genome-wide CRISPR screens reveal a specific ligand for the glycan-binding immune checkpoint receptor Siglec-7. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	27
352	A localized adaptor protein performs distinct functions at the cell poles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
351	Cryogenic single-molecule fluorescence annotations for electron tomography reveal in situ organization of key proteins in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13937-13944	11.5	37
350	Accurate and rapid background estimation in single-molecule localization microscopy using the deep neural network BGnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 60-67	11.5	24
349	Selective sequestration of signalling proteins in a membraneless organelle reinforces the spatial regulation of asymmetry in <i>Caulobacter crescentus</i> . <i>Nature Microbiology</i> , 2020 , 5, 418-429	26.6	37
348	Novel fibrillar structure in the inversin compartment of primary cilia revealed by 3D single-molecule superresolution microscopy. <i>Molecular Biology of the Cell</i> , 2020 , 31, 619-639	3.5	14
347	Cryogenic Correlative Single-Particle Photoluminescence Spectroscopy and Electron Tomography for Investigation of Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15642-15648	16.4	5
346	Deep learning in single-molecule microscopy: fundamentals, caveats, and recent developments [Invited]. <i>Biomedical Optics Express</i> , 2020 , 11, 1633-1661	3.5	32
345	Addressing systematic errors in axial distance measurements in single-emitter localization microscopy. <i>Optics Express</i> , 2020 , 28, 18616-18632	3.3	5
344	Metabolic precision labeling enables selective probing of O-linked -acetylgalactosamine glycosylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25293-25301	11.5	24

343	Opposing Effects of Cohesin and Transcription on CTCF Organization Revealed by Super-resolution Imaging. <i>Molecular Cell</i> , 2020 , 80, 699-711.e7	17.6	16
342	Super-resolution Microscopy with Single Molecules in Biology and Beyond-Essentials, Current Trends, and Future Challenges. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17828-17844	16.4	45
341	Cryogenic Correlative Single-Particle Photoluminescence Spectroscopy and Electron Tomography for Investigation of Nanomaterials. <i>Angewandte Chemie</i> , 2020 , 132, 15772-15778	3.6	0
340	T-Plastin reinforces membrane protrusions to bridge matrix gaps during cell migration. <i>Nature Communications</i> , 2020 , 11, 4818	17.4	7
339	Interferometric Scattering Enables Fluorescence-Free Electrokinetic Trapping of Single Nanoparticles in Free Solution. <i>Nano Letters</i> , 2019 , 19, 4112-4117	11.5	13
338	Topologically-guided continuous protein crystallization controls bacterial surface layer self-assembly. <i>Nature Communications</i> , 2019 , 10, 2731	17.4	18
337	Quantitative Super-Resolution Microscopy of the Mammalian Glycocalyx. <i>Developmental Cell</i> , 2019 , 50, 57-72.e6	10.2	45
336	Single-molecule trapping and spectroscopy reveals photophysical heterogeneity of phycobilisomes quenched by Orange Carotenoid Protein. <i>Nature Communications</i> , 2019 , 10, 1172	17.4	28
335	Motional dynamics of single Patched1 molecules in cilia are controlled by Hedgehog and cholesterol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5550-5557	11.5	24
334	Asymmetric division yields progeny cells with distinct modes of regulating cell cycle-dependent chromosome methylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15661-15670	11.5	10
333	Accurate phase retrieval of complex 3D point spread functions with deep residual neural networks. <i>Applied Physics Letters</i> , 2019 , 115, 251106	3.4	14
332	Revealing Nanoscale Morphology of the Primary Cilium Using Super-Resolution Fluorescence Microscopy. <i>Biophysical Journal</i> , 2019 , 116, 319-329	2.9	13
331	Spatial organization and dynamics of RNase E and ribosomes in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3712-E3721	11.5	46
330	Single-molecule diffusometry reveals the nucleotide-dependent oligomerization pathways of <i>Nicotiana tabacum</i> Rubisco activase. <i>Journal of Chemical Physics</i> , 2018 , 148, 123319	3.9	17
329	3D single-molecule super-resolution microscopy with a tilted light sheet. <i>Nature Communications</i> , 2018 , 9, 123	17.4	96
328	Light sheet approaches for improved precision in 3D localization-based super-resolution imaging in mammalian cells [Invited]. <i>Optics Express</i> , 2018 , 26, 13122-13147	3.3	30
327	Resolving Mixtures in Solution by Single-Molecule Rotational Diffusivity. <i>Nano Letters</i> , 2018 , 18, 5279-5287	5	8
326	Tilted Light Sheet Microscopy with 3D Point Spread Functions for Single-Molecule Super-Resolution Imaging in Mammalian Cells. <i>Proceedings of SPIE</i> , 2018 , 10500,	1.7	1

3 ²⁵	Identification of PAMKate as a Red Photoactivatable Fluorescent Protein for Cryogenic Super-Resolution Imaging. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12310-12313	16.4	25
3 ²⁴	Three-Dimensional Localization of Single Molecules for Super-Resolution Imaging and Single-Particle Tracking. <i>Chemical Reviews</i> , 2017 , 117, 7244-7275	68.1	254
3 ²³	Super-Resolution Microscopy and Single-Protein Tracking in Live Bacteria Using a Genetically Encoded, Photostable Fluoromodule. <i>Current Protocols in Cell Biology</i> , 2017 , 75, 4.32.1-4.32.22	2.3	1
3 ²²	Direct single-molecule measurements of phycocyanobilin photophysics in monomeric C-phycocyanin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9779-9784	11.5	25
3 ²¹	Single-Molecule Imaging of Wnt3A Protein Diffusion on Living Cell Membranes. <i>Biophysical Journal</i> , 2017 , 113, 2762-2767	2.9	5
3 ²⁰	Observation of live chromatin dynamics in cells via 3D localization microscopy using Tetrapod point spread functions. <i>Biomedical Optics Express</i> , 2017 , 8, 5735-5748	3.5	24
3 ¹⁹	Measurement-based estimation of global pupil functions in 3D localization microscopy. <i>Optics Express</i> , 2017 , 25, 7945-7959	3.3	37
3 ¹⁸	Enhanced DNA imaging using super-resolution microscopy and simultaneous single-molecule orientation measurements. <i>Optica</i> , 2016 , 3, 3-6	8.6	75
3 ¹⁷	Removing Orientation-Induced Localization Biases in Single-Molecule Microscopy Using a Broadband Metasurface Mask. <i>Nature Photonics</i> , 2016 , 10, 459-462	33.9	81
3 ¹⁶	Super-resolution Imaging of Live Bacteria Cells Using a Genetically Directed, Highly Photostable Fluoromodule. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10398-401	16.4	49
3 ¹⁵	Delayed emergence of subdiffraction-sized mutant huntingtin fibrils following inclusion body formation. <i>Quarterly Reviews of Biophysics</i> , 2016 , 49, e2	7	29
3 ¹⁴	Multicolour localization microscopy by point-spread-function engineering. <i>Nature Photonics</i> , 2016 , 10, 590-594	33.9	86
3 ¹³	Single-molecule imaging of Hedgehog pathway protein Smoothed in primary cilia reveals binding events regulated by Patched1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8320-5	11.5	63
3 ¹²	Precise Three-Dimensional Scan-Free Multiple-Particle Tracking over Large Axial Ranges with Tetrapod Point Spread Functions. <i>Nano Letters</i> , 2015 , 15, 4194-9	11.5	133
3 ¹¹	Determining the rotational mobility of a single molecule from a single image: a numerical study. <i>Optics Express</i> , 2015 , 23, 4255-76	3.3	25
3 ¹⁰	Dissecting pigment architecture of individual photosynthetic antenna complexes in solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13880-5	11.5	26
3 ⁰⁹	Chromosomal locus tracking with proper accounting of static and dynamic errors. <i>Physical Review E</i> , 2015 , 91, 062716	2.4	46
3 ⁰⁸	Single-Molecule Spectroscopy, Imaging, and Photocontrol: Foundations for Super-Resolution Microscopy (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8067-93	16.4	148

307	Correcting field-dependent aberrations with nanoscale accuracy in three-dimensional single-molecule localization microscopy. <i>Optica</i> , 2015 , 2, 985-993	8.6	59
306	Single-molecule spectroscopy and imaging over the decades. <i>Faraday Discussions</i> , 2015 , 184, 9-36	3.6	52
305	Single-Molecule Identification of Quenched and Unquenched States of LHCII. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 860-7	6.4	70
304	The role of molecular dipole orientation in single-molecule fluorescence microscopy and implications for super-resolution imaging. <i>ChemPhysChem</i> , 2014 , 15, 587-99	3.2	79
303	Single-molecule motions enable direct visualization of biomolecular interactions in solution. <i>Nature Methods</i> , 2014 , 11, 555-8	21.6	76
302	Exploring bacterial cell biology with single-molecule tracking and super-resolution imaging. <i>Nature Reviews Microbiology</i> , 2014 , 12, 9-22	22.2	187
301	Single-molecule spectroscopy of photosynthetic proteins in solution: exploration of structure-function relationships. <i>Chemical Science</i> , 2014 , 5, 2933-2939	9.4	22
300	Super-resolution fluorescence of huntingtin reveals growth of globular species into short fibers and coexistence of distinct aggregates. <i>ACS Chemical Biology</i> , 2014 , 9, 2767-78	4.9	44
299	Cby1 promotes Ahi1 recruitment to a ring-shaped domain at the centriole-cilium interface and facilitates proper cilium formation and function. <i>Molecular Biology of the Cell</i> , 2014 , 25, 2919-33	3.5	46
298	Azimuthal polarization filtering for accurate, precise, and robust single-molecule localization microscopy. <i>Nano Letters</i> , 2014 , 14, 6407-13	11.5	42
297	Robust hypothesis tests for detecting statistical evidence of two-dimensional and three-dimensional interactions in single-molecule measurements. <i>Physical Review E</i> , 2014 , 89, 052705	2.4	7
296	Small-molecule labeling of live cell surfaces for three-dimensional super-resolution microscopy. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14003-6	16.4	91
295	Optimal point spread function design for 3D imaging. <i>Physical Review Letters</i> , 2014 , 113, 133902	7.4	176
294	Extending single-molecule microscopy using optical Fourier processing. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 8313-29	3.4	84
293	Bacterial scaffold directs pole-specific centromere segregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2046-55	11.5	73
292	The regulatory switch of F-ATPase studied by single-molecule FRET in the ABEL Trap. <i>Proceedings of SPIE</i> , 2014 , 8950, 89500H	1.7	18
291	A bisected pupil for studying single-molecule orientational dynamics and its application to three-dimensional super-resolution microscopy. <i>Applied Physics Letters</i> , 2014 , 104, 193701	3.4	40
290	Correlations of three-dimensional motion of chromosomal loci in yeast revealed by the double-helix point spread function microscope. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3619-29	3.5	46

289	Quantitative multicolor subdiffraction imaging of bacterial protein ultrastructures in three dimensions. <i>Nano Letters</i> , 2013 , 13, 987-93	11.5	78
288	Super-resolution fluorescence imaging with single molecules. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 778-87	8.1	104
287	Photo-induced conformational flexibility in single solution-phase peridinin-chlorophyll-proteins. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 8399-406	2.8	14
286	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	19	78
285	Rotational mobility of single molecules affects localization accuracy in super-resolution fluorescence microscopy. <i>Nano Letters</i> , 2013 , 13, 3967-72	11.5	82
284	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, 4641-8	3.4	41
283	Enzymatic activation of nitro-aryl fluorogens in live bacterial cells for enzymatic turnover-activated localization microscopy. <i>Chemical Science</i> , 2013 , 42, 220-225	9.4	51
282	Quantifying transient 3D dynamical phenomena of single mRNA particles in live yeast cell measurements. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 15701-13	3.4	15
281	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	1.7	10
280	Single-molecule orientation measurements with a quadrated pupil. <i>Optics Letters</i> , 2013 , 38, 1521-3	3	39
279	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, 10899-903	11.5	61
278	Easy-DHPSF open-source software for three-dimensional localization of single molecules with precision beyond the optical diffraction limit. <i>Protocol Exchange</i> , 2013 ,		16
277	Microscopy beyond the diffraction limit using actively controlled single molecules. <i>Journal of Microscopy</i> , 2012 , 246, 213-20	1.9	88
276	Probing single biomolecules in solution using the anti-Brownian electrokinetic (ABEL) trap. <i>Accounts of Chemical Research</i> , 2012 , 45, 1955-64	24.3	69
275	Simultaneous, accurate measurement of the 3D position and orientation of single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19087-92	11.5	128
274	STED microscopy with optimized labeling density reveals 9-fold arrangement of a centriole protein. <i>Biophysical Journal</i> , 2012 , 102, 2926-35	2.9	81
273	Fluorescent saxitoxins for live cell imaging of single voltage-gated sodium ion channels beyond the optical diffraction limit. <i>Chemistry and Biology</i> , 2012 , 19, 902-12		42
272	Fluorescence correlation spectroscopy at high concentrations using gold bowtie nanoantennas. <i>Chemical Physics</i> , 2012 , 406, 3-8	2.3	40

271	Analytical tools to distinguish the effects of localization error, confinement, and medium elasticity on the velocity autocorrelation function. <i>Biophysical Journal</i> , 2012 , 102, 2443-50	2.9	74
270	Extending microscopic resolution with single-molecule imaging and active control. <i>Annual Review of Biophysics</i> , 2012 , 41, 321-42	21.1	90
269	Widespread mRNA association with cytoskeletal motor proteins and identification and dynamics of myosin-associated mRNAs in <i>S. cerevisiae</i> . <i>PLoS ONE</i> , 2012 , 7, e31912	3.7	12
268	A selenium analogue of firefly D-luciferin with red-shifted bioluminescence emission. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3350-3	16.4	93
267	A Selenium Analogue of Firefly D-Luciferin with Red-Shifted Bioluminescence Emission. <i>Angewandte Chemie</i> , 2012 , 124, 3406-3409	3.6	19
266	Three-dimensional super-resolution imaging of the midplane protein FtsZ in live <i>Caulobacter crescentus</i> cells using astigmatism. <i>ChemPhysChem</i> , 2012 , 13, 1007-12	3.2	83
265	Cellular inclusion bodies of mutant huntingtin exon 1 obscure small fibrillar aggregate species. <i>Scientific Reports</i> , 2012 , 2, 895	4.9	62
264	Single-Molecule Photocontrol and Nanoscopy. <i>Springer Series on Fluorescence</i> , 2012 , 87-110	0.5	
263	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, 153701-153701	2.4	38
262	Anti-Brownian Electrokinetic (ABEL) trapping of single β_2 -adrenergic receptors in the absence and presence of agonist 2012 ,		3
261	Spectrally resolved anti-Brownian electrokinetic (ABEL) trapping of single peridinin-chlorophyll-proteins in solution 2012 ,		4
260	Super-resolution imaging of the nucleoid-associated protein HU in <i>Caulobacter crescentus</i> . <i>Biophysical Journal</i> , 2011 , 100, L31-3	2.9	75
259	An Adaptive Anti-Brownian Electrokinetic trap with real-time information on single-molecule diffusivity and mobility. <i>ACS Nano</i> , 2011 , 5, 5792-9	16.7	59
258	Corkscrew point spread function for far-field three-dimensional nanoscale localization of pointlike objects. <i>Optics Letters</i> , 2011 , 36, 202-4	3	81
257	Conformational dynamics of single G protein-coupled receptors in solution. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 13328-38	3.4	81
256	Sub-diffraction imaging of huntingtin protein aggregates by fluorescence blink-microscopy and atomic force microscopy. <i>ChemPhysChem</i> , 2011 , 12, 2387-90	3.2	44
255	Redox cycling and kinetic analysis of single molecules of solution-phase nitrite reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17269-74	11.5	46
254	Sensing cooperativity in ATP hydrolysis for single multisubunit enzymes in solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16962-7	11.5	61

253	STED Super-resolution Microscopy in Tissue and in Mammalian Cells. <i>Proceedings of SPIE</i> , 2011 , 7910,	1.7	6
252	Three-dimensional superresolution colocalization of intracellular protein superstructures and the cell surface in live <i>Caulobacter crescentus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E1102-10	11.5	106
251	High-Resolution Single-Molecule Spectroscopy 2011 , 381-417		11
250	Exploring protein superstructures and dynamics in live bacterial cells using single-molecule and superresolution imaging. <i>Methods in Molecular Biology</i> , 2011 , 783, 139-58	1.4	9
249	A spindle-like apparatus guides bacterial chromosome segregation. <i>Nature Cell Biology</i> , 2010 , 12, 791-8	23.4	264
248	Watching conformational- and photo-dynamics of single fluorescent proteins in solution. <i>Nature Chemistry</i> , 2010 , 2, 179-86	17.6	105
247	Three-dimensional localization precision of the double-helix point spread function versus astigmatism and biplane. <i>Applied Physics Letters</i> , 2010 , 97, 161103	3.4	89
246	In vivo Three-Dimensional Superresolution Fluorescence Tracking using a Double-Helix Point Spread Function. <i>Proceedings of SPIE</i> , 2010 , 7571, 75710Z	1.7	14
245	Single-molecule spectroscopy and imaging of biomolecules in living cells. <i>Analytical Chemistry</i> , 2010 , 82, 2192-203	7.8	125
244	Localizing and tracking single nanoscale emitters in three dimensions with high spatiotemporal resolution using a double-helix point spread function. <i>Nano Letters</i> , 2010 , 10, 211-8	11.5	127
243	Single-molecule and superresolution imaging in live bacteria cells. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010 , 2, a000448	10.2	41
242	Azido push-pull fluorogens photoactivate to produce bright fluorescent labels. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14157-67	3.4	80
241	Action of the chaperonin GroEL/ES on a non-native substrate observed with single-molecule FRET. <i>Journal of Molecular Biology</i> , 2010 , 401, 553-63	6.5	16
240	Superresolution imaging of targeted proteins in fixed and living cells using photoactivatable organic fluorophores. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15099-101	16.4	148
239	Molecules and methods for super-resolution imaging. <i>Methods in Enzymology</i> , 2010 , 475, 27-59	1.7	44
238	Three-dimensional tracking of single mRNA particles in <i>Saccharomyces cerevisiae</i> using a double-helix point spread function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17864-71	11.5	123
237	Optimal strategy for trapping single fluorescent molecules in solution using the ABEL trap. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 99, 23-30	1.9	46
236	Single-Molecule Optical Spectroscopy and Imaging: From Early Steps to Recent Advances. <i>Springer Series in Chemical Physics</i> , 2010 , 25-60	0.3	7

235	Superresolution imaging in live <i>Caulobacter crescentus</i> cells using photoswitchable enhanced yellow fluorescent protein 2009 ,		10
234	DCDHF fluorophores for single-molecule imaging in cells. <i>ChemPhysChem</i> , 2009 , 10, 55-65	3.2	84
233	Micrometer-sized DNA-single-fluorophore-DNA supramolecule: synthesis and single-molecule characterization. <i>Small</i> , 2009 , 5, 2418-23	11	12
232	Large single-molecule fluorescence enhancements produced by a bowtie nanoantenna. <i>Nature Photonics</i> , 2009 , 3, 654-657	33.9	1550
231	Bright, Red Single-Molecule Emitters: Synthesis and Properties of Environmentally Sensitive Dicyanomethylenedihydrofuran (DCDHF) Fluorophores with Bisaromatic Conjugation. <i>Chemistry of Materials</i> , 2009 , 21, 797	9.6	41
230	Three-dimensional, single-molecule fluorescence imaging beyond the diffraction limit by using a double-helix point spread function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2995-9	11.5	700
229	Lithographic positioning of fluorescent molecules on high-Q photonic crystal cavities. <i>Applied Physics Letters</i> , 2009 , 95, 123113	3.4	22
228	Super-resolution imaging in live <i>Caulobacter crescentus</i> cells using photoswitchable EYFP. <i>Nature Methods</i> , 2008 , 5, 947-9	21.6	294
227	A photoactivatable push-pull fluorophore for single-molecule imaging in live cells. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9204-5	16.4	166
226	Controlling Brownian motion of single protein molecules and single fluorophores in aqueous buffer. <i>Optics Express</i> , 2008 , 16, 6941-56	3.3	103
225	Single-molecule motions of oligoarginine transporter conjugates on the plasma membrane of Chinese hamster ovary cells. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9364-70	16.4	47
224	A polymeric protein anchors the chromosomal origin/ParB complex at a bacterial cell pole. <i>Cell</i> , 2008 , 134, 945-55	56.2	235
223	Hardware-based anti-Brownian electrokinetic trap (ABEL trap) for single molecules: Control loop simulations and application to ATP binding stoichiometry in multi-subunit enzymes. <i>Proceedings of SPIE</i> , 2008 , 7038, 1-12	1.7	13
222	Cy3-Cy5 covalent heterodimers for single-molecule photoswitching. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11878-80	3.4	63
221	Visualization of long human telomere mimics by single-molecule fluorescence imaging. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13184-7	3.4	11
220	Superresolution imaging in live bacterial cells by single-molecule active-control microscopy 2008 ,		1
219	Nanophotonics and Single Molecules. <i>Springer Series in Biophysics</i> , 2008 , 1-23		4
218	Photophysical properties of acene DCDHF fluorophores: long-wavelength single-molecule emitters designed for cellular imaging. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 8934-41	2.8	62

217	The influence of tetrahydroquinoline rings in dicyanomethylenedihydrofuran (DCDHF) single-molecule fluorophores. <i>Tetrahedron</i> , 2007 , 63, 103-114	2.4	42
216	Modifications of DCDHF single molecule fluorophores to impart water solubility. <i>Tetrahedron Letters</i> , 2007 , 48, 3471-3474	2	22
215	Gold bowtie nanoantennas for surface-enhanced Raman scattering under controlled electrochemical potential. <i>Chemical Physics Letters</i> , 2007 , 446, 339-343	2.5	65
214	Interferometry of a single nanoparticle using the Gouy phase of a focused laser beam. <i>Optics Communications</i> , 2007 , 280, 487-491	2	35
213	Single-molecule electron spin resonance. <i>Applied Magnetic Resonance</i> , 2007 , 31, 665-676	0.8	2
212	Internal mechanical response of a polymer in solution. <i>Physical Review Letters</i> , 2007 , 98, 116001	7.4	29
211	Principal-components analysis of shape fluctuations of single DNA molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12622-7	11.5	66
210	New directions in single-molecule imaging and analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12596-602	11.5	376
209	Excitation and Emission Spectroscopy and Quantum Optical Measurements 2007 , 31-67		1
208	Polarization and Lifetime Measurements, External Perturbations and Microscopy 2007 , 69-107		1
207	Spectral Jumps of Single Molecules 2007 , 109-142		
206	Near-Field Optical Imaging and Spectroscopy of Single Molecules 2007 , 191-222		
205	Magnetic Resonance of Single Molecular Spins 2007 , 159-189		1
204	Physical Principles and Methods of Single-Molecule Spectroscopy in Solids 2007 , 1-30		2
203	Single-Molecule Detection in Analytical Chemistry 2007 , 223-243		
202	Theoretical Models for the Spectral Dynamics of Individual Molecules in Solids 2007 , 143-157		
201	Bulk and single-molecule characterization of an improved molecular beacon utilizing H-dimer excitonic behavior. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 7929-31	3.4	24
200	Single-molecule tracking. <i>Methods in Molecular Biology</i> , 2007 , 398, 193-219	1.4	22

199	OPTICAL FIELD ENHANCEMENT WITH PLASMON RESONANT BOWTIE NANOANTENNAS 2007 , 125-137		2
198	Exploring the chemical enhancement for surface-enhanced Raman scattering with Au bowtie nanoantennas. <i>Journal of Chemical Physics</i> , 2006 , 124, 61101	3.9	251
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10	Infrared hole-burning spectroscopy of matrix-isolated ReO ₄ (-)-molecules. <i>Optics Letters</i> , 1981 , 6, 431-3	3	13
9	Anharmonic Relaxation Times of Molecular Vibrational Modes in Alkali Halide Crystals. <i>Physical Review Letters</i> , 1981 , 47, 1082-1085	7.4	14
8	Improved transducer correction for standing-wave ultrasonic velocity measurements. <i>Journal of Applied Physics</i> , 1974 , 45, 549-552	2.5	9
7	Gold bowtie nanoantennas: improving the mismatch between light and nanoscale objects		3
6	Continuous, Topologically Guided Protein Crystallization Controls Bacterial Surface Layer Self-Assembly		1
5			
4	Single-molecule diffusometry reveals the nucleotide-dependent oligomerization pathways of <i>Nicotiana tabacum</i> Rubisco activase		1
3	Metabolic precision labeling enables selective probing of O-linked N-acetylgalactosamine glycosylation		2
2	ATP-responsive biomolecular condensates tune bacterial kinase signaling		1

1 Phospho-signal flow from a pole-localized microdomain spatially patterns transcription factor activity

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