## We Moerner Or William E Moerner

List of Publications by Year in descending order

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418 papers

34,877 citations

91 h-index 174 g-index

451 all docs

451 docs citations

451 times ranked

20778 citing authors

#	Article	IF	Citations
1	Large single-molecule fluorescence enhancements produced by a bowtie nanoantenna. Nature Photonics, 2009, 3, 654-657.	15.6	1,788
2	On/off blinking and switching behaviour of single molecules of green fluorescent protein. Nature, 1997, 388, 355-358.	13.7	1,281
3	Illuminating Single Molecules in Condensed Matter. Science, 1999, 283, 1670-1676.	6.0	1,071
4	Optical detection and spectroscopy of single molecules in a solid. Physical Review Letters, 1989, 62, 2535-2538.	2.9	1,036
5	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.	3.3	924
6	Improving the Mismatch between Light and Nanoscale Objects with Gold Bowtie Nanoantennas. Physical Review Letters, 2005, 94, 017402.	2.9	913
7	Methods of single-molecule fluorescence spectroscopy and microscopy. Review of Scientific Instruments, 2003, 74, 3597-3619.	0.6	783
8	Polymeric photorefractive materials. Chemical Reviews, 1994, 94, 127-155.	23.0	768
9	Single photons on demand from a single molecule at room temperature. Nature, 2000, 407, 491-493.	13.7	700
10	Observation of the photorefractive effect in a polymer. Physical Review Letters, 1991, 66, 1846-1849.	2.9	585
11	Gap-Dependent Optical Coupling of Single "Bowtie―Nanoantennas Resonant in the Visible. Nano Letters, 2004, 4, 957-961.	4.5	577
12	Photon antibunching in the fluorescence of a single dye molecule trapped in a solid. Physical Review Letters, 1992, 69, 1516-1519.	2.9	503
13	Organic Photorefractives:  Mechanisms, Materials, and Applications. Chemical Reviews, 2004, 104, 3267-3314.	23.0	464
14	New directions in single-molecule imaging and analysis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12596-12602.	3.3	418
15	Toward Nanometer-Scale Optical Photolithography:Â Utilizing the Near-Field of Bowtie Optical Nanoantennas. Nano Letters, 2006, 6, 355-360.	4.5	394
16	A Dozen Years of Single-Molecule Spectroscopy in Physics, Chemistry, and Biophysics. Journal of Physical Chemistry B, 2002, 106, 910-927.	1.2	393
17	Orientationally enhanced photorefractive effect in polymers. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 320.	0.9	389
18	Three-Dimensional Localization of Single Molecules for Super-Resolution Imaging and Single-Particle Tracking. Chemical Reviews, 2017, 117, 7244-7275.	23.0	381

#	Article	IF	CITATIONS
19	Three-Dimensional Imaging of Single Molecules Solvated in Pores of Poly(acrylamide) Gels. Science, 1996, 274, 966-968.	6.0	364
20	Detection and spectroscopy of single pentacene molecules in apâ€terphenyl crystal by means of fluorescence excitation. Journal of Chemical Physics, 1991, 95, 7150-7163.	1.2	339
21	Super-resolution imaging in live Caulobacter crescentus cells using photoswitchable EYFP. Nature Methods, 2008, 5, 947-949.	9.0	339
22	Fluorescence spectroscopy and spectral diffusion of single impurity molecules in a crystal. Nature, 1991, 349, 225-227.	13.7	335
23	A spindle-like apparatus guides bacterial chromosome segregation. Nature Cell Biology, 2010, 12, 791-798.	4.6	308
24	Photon antibunching in single CdSe/ZnS quantum dot fluorescence. Chemical Physics Letters, 2000, 329, 399-404.	1.2	301
25	Fluorescence correlation spectroscopy reveals fast optical excitation-driven intramolecular dynamics of yellow fluorescent proteins. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 151-156.	3.3	297
26	A Polymeric Protein Anchors the Chromosomal Origin/ParB Complex at a Bacterial Cell Pole. Cell, 2008, 134, 945-955.	13.5	295
27	PHOTOREFRACTIVE POLYMERS. Annual Review of Materials Research, 1997, 27, 585-623.	5.5	279
28	Optimal Point Spread Function Design for 3D Imaging. Physical Review Letters, 2014, 113, 133902.	2.9	277
29	Exploring the chemical enhancement for surface-enhanced Raman scattering with Au bowtie nanoantennas. Journal of Chemical Physics, 2006, 124, 061101.	1.2	276
30	Magnetic resonance of a single molecular spin. Nature, 1993, 363, 242-244.	13.7	260
31	Translational Diffusion of Individual Class II MHC Membrane Proteinsin Cells. Biophysical Journal, 2002, 83, 2681-2692.	0.2	255
32	Field enhancement and gap-dependent resonance in a system of two opposing tip-to-tip Au nanotriangles. Physical Review B, 2005, 72, .	1.1	242
33	Suppressing Brownian motion of individual biomolecules in solution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4362-4365.	3.3	237
34	Exploring bacterial cell biology with single-molecule tracking and super-resolution imaging. Nature Reviews Microbiology, 2014, 12, 9-22.	13.6	232
35	Method for trapping and manipulating nanoscale objects in solution. Applied Physics Letters, 2005, 86, 093109.	1.5	218
36	Examining Nanoenvironments in Solids on the Scale of a Single, Isolated Impurity Molecule. Science, 1994, 265, 46-53.	6.0	214

#	Article	IF	Citations
37	Precise Three-Dimensional Scan-Free Multiple-Particle Tracking over Large Axial Ranges with Tetrapod Point Spread Functions. Nano Letters, 2015, 15, 4194-4199.	4.5	210
38	A Photoactivatable Pushâ^'Pull Fluorophore for Single-Molecule Imaging in Live Cells. Journal of the American Chemical Society, 2008, 130, 9204-9205.	6.6	200
39	Single molecules of the bacterial actin MreB undergo directed treadmilling motion in Caulobacter crescentus. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10929-10934.	3.3	195
40	Optical Spectroscopy of Single Impurity Molecules in Solids. Angewandte Chemie International Edition in English, 1993, 32, 457-476.	4.4	192
41	Singleâ€Molecule Spectroscopy, Imaging, and Photocontrol: Foundations for Superâ€Resolution Microscopy (Nobel Lecture). Angewandte Chemie - International Edition, 2015, 54, 8067-8093.	7.2	191
42	High-speed photorefractive polymer composites. Applied Physics Letters, 1998, 73, 1490-1492.	1.5	186
43	Simultaneous Imaging of Individual Molecules Aligned Both Parallel and Perpendicular to the Optic Axis. Physical Review Letters, 1998, 81, 5322-5325.	2.9	180
44	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.	3.3	176
45	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.	4.5	164
46	Superresolution Imaging of Targeted Proteins in Fixed and Living Cells Using Photoactivatable Organic Fluorophores. Journal of the American Chemical Society, 2010, 132, 15099-15101.	6.6	164
47	Optical Probing of Single Molecules of Terrylene in a Shpol'kii Matrix: A Two-State Single-Molecule Switch. The Journal of Physical Chemistry, 1994, 98, 7382-7389.	2.9	162
48	ADP-induced rocking of the kinesin motor domain revealed by single-molecule fluorescence polarization microscopy. Nature Structural Biology, 2001, 8, 540-544.	9.7	160
49	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.	3.3	157
50	Optical modification of a single impurity molecule in a solid. Nature, 1992, 355, 335-337.	13.7	151
51	SINGLE-MOLECULE FLUORESCENCE SPECTROSCOPY AND MICROSCOPY OF BIOMOLECULAR MOTORS. Annual Review of Physical Chemistry, 2004, 55, 79-96.	4.8	151
52	Controlling Brownian motion of single protein molecules and single fluorophores in aqueous buffer. Optics Express, 2008, 16, 6941.	1.7	148
53	Watching conformational- and photodynamics of single fluorescent proteins in solution. Nature Chemistry, 2010, 2, 179-186.	6.6	143
54	3D single-molecule super-resolution microscopy with a tilted light sheet. Nature Communications, 2018, 9, 123.	5.8	143

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55	Single-Molecule Spectroscopy and Imaging of Biomolecules in Living Cells. Analytical Chemistry, 2010, 82, 2192-2203.	3.2	140
56	The Fluorescence Dynamics of Single Molecules of Green Fluorescent Protein. Journal of Physical Chemistry A, 1999, 103, 10553-10560.	1.1	139
57	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.	3.3	131
58	Photorefractive Properties of Poly(N-vinyl carbazole)-Based Composites for High-Speed Applications. Chemistry of Materials, 1999, 11, 1784-1791.	3.2	129
59	Extending Single-Molecule Microscopy Using Optical Fourier Processing. Journal of Physical Chemistry B, 2014, 118, 8313-8329.	1.2	129
60	Multicolour localization microscopy by point-spread-function engineering. Nature Photonics, 2016, 10, 590-594.	15.6	128
61	Visualization of the movement of single histidine kinase molecules in live Caulobacter cells.  Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15921-15926.	3.3	127
62	Super-resolution fluorescence imaging with single molecules. Current Opinion in Structural Biology, 2013, 23, 778-787.	2.6	127
63	Corkscrew point spread function for far-field three-dimensional nanoscale localization of pointlike objects. Optics Letters, 2011, 36, 202.	1.7	124
64	The Role of Molecular Dipole Orientation in Singleâ€Molecule Fluorescence Microscopy and Implications for Superâ€Resolution Imaging. ChemPhysChem, 2014, 15, 587-599.	1.0	121
65	Net two-beam-coupling gain in a polymeric photorefractive material. Optics Letters, 1993, 18, 1044.	1.7	119
66	Cholesterol Depletion Suppresses the Translational Diffusion of Class II Major Histocompatibility Complex Proteins in the Plasma Membrane. Biophysical Journal, 2005, 88, 334-347.	0.2	118
67	High performance photorefractive polymer with improved stability. Applied Physics Letters, 1997, 70, 1515-1517.	1.5	117
68	Near-Field Optical Spectroscopy of Individual Molecules in Solids. Physical Review Letters, 1994, 73, 2764-2767.	2.9	116
69	Structure and Dynamics in Solids As Probed by Optical Spectroscopy. The Journal of Physical Chemistry, 1996, 100, 13251-13262.	2.9	116
70	Microscopy beyond the diffraction limit using actively controlled single molecules. Journal of Microscopy, 2012, 246, 213-220.	0.8	112
71	Single-Molecule Fluorescence Resonant Energy Transfer in Calcium Concentration Dependent Cameleon. Journal of Physical Chemistry B, 2000, 104, 3676-3682.	1.2	108
72	Small-Molecule Labeling of Live Cell Surfaces for Three-Dimensional Super-Resolution Microscopy. Journal of the American Chemical Society, 2014, 136, 14003-14006.	6.6	108

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73	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.	6.6	108
74	Extending Microscopic Resolution with Single-Molecule Imaging and Active Control. Annual Review of Biophysics, 2012, 41, 321-342.	4.5	107
<b>7</b> 5	STED Microscopy with Optimized Labeling Density Reveals 9-Fold Arrangement of a Centriole Protein. Biophysical Journal, 2012, 102, 2926-2935.	0.2	106
76	Cholesterol Depletion Induces Solid-like Regions in the Plasma Membrane. Biophysical Journal, 2006, 90, 927-938.	0.2	105
77	Novel Fluorophores for Single-Molecule Imaging. Journal of the American Chemical Society, 2003, 125, 1174-1175.	6.6	104
78	Three-dimensional localization precision of the double-helix point spread function versus astigmatism and biplane. Applied Physics Letters, 2010, 97, 161103.	1.5	104
79	A Selenium Analogue of Firefly <scp>D</scp> â€Luciferin with Redâ€Shifted Bioluminescence Emission. Angewandte Chemie - International Edition, 2012, 51, 3350-3353.	7.2	104
80	Spectroscopic determination of trap density in C60-sensitized photorefractive polymers. Chemical Physics Letters, 1998, 291, 553-561.	1.2	103
81	Enhanced DNA imaging using super-resolution microscopy and simultaneous single-molecule orientation measurements. Optica, 2016, 3, 659.	4.8	103
82	Optical spectra and kinetics of single impurity molecules in a polymer: spectral diffusion and persistent spectral hole burning. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 829.	0.9	102
83	Analytical Tools To Distinguish the Effects of Localization Error, Confinement, and Medium Elasticity on the Velocity Autocorrelation Function. Biophysical Journal, 2012, 102, 2443-2450.	0.2	102
84	Single-molecule motions enable direct visualization of biomolecular interactions in solution. Nature Methods, 2014, 11, 555-558.	9.0	102
85	Rotational Mobility of Single Molecules Affects Localization Accuracy in Super-Resolution Fluorescence Microscopy. Nano Letters, 2013, 13, 3967-3972.	4.5	101
86	Spectral analysis of strongly enhanced visible light transmission through single C-shaped nanoapertures. Applied Physics Letters, 2004, 85, 648-650.	1.5	98
87	Removing orientation-induced localization biases in single-molecule microscopy using a broadband metasurface mask. Nature Photonics, 2016, 10, 459-462.	15.6	98
88	Photophysics of DsRed, a Red Fluorescent Protein, from the Ensemble to the Single-Molecule Level. Journal of Physical Chemistry B, 2001, 105, 5048-5054.	1.2	97
89	Spontaneous Oscillation and Self-Pumped Phase Conjugation in a Photorefractive Polymer Optical Amplifier. Science, 1997, 277, 549-552.	6.0	96
90	Azido Pushâ^'Pull Fluorogens Photoactivate to Produce Bright Fluorescent Labels. Journal of Physical Chemistry B, 2010, 114, 14157-14167.	1.2	96

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91	Integrated semiconductor vertical-cavity surface-emitting lasers and PIN photodetectors for biomedical fluorescence sensing. IEEE Journal of Quantum Electronics, 2004, 40, 491-498.	1.0	95
92	Mechanism of photon-gated persistent spectral hole burning in metal-tetrabenzoporphyrin/halomethane systems: donor-acceptor electron transfer. The Journal of Physical Chemistry, 1987, 91, 3998-4004.	2.9	94
93	Quantitative Multicolor Subdiffraction Imaging of Bacterial Protein Ultrastructures in Three Dimensions. Nano Letters, 2013, 13, 987-993.	4.5	94
94	High-Resolution Optical Spectroscopy of Single Molecules in Solids. Accounts of Chemical Research, 1996, 29, 563-571.	7.6	93
95	DCDHF Fluorophores for Singleâ€Molecule Imaging in Cells. ChemPhysChem, 2009, 10, 55-65.	1.0	93
96	Conformational Dynamics of Single G Protein-Coupled Receptors in Solution. Journal of Physical Chemistry B, 2011, 115, 13328-13338.	1.2	93
97	Fluorescence Behavior of Single-Molecule pH-Sensors. Single Molecules, 2000, 1, 17-23.	1.6	91
98	Bacterial scaffold directs pole-specific centromere segregation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2046-55.	3.3	91
99	Single molecule spectroscopy: maximum emission rate and saturation intensity. Optics Communications, 1995, 114, 83-88.	1.0	90
100	C60sensitization of a photorefractive polymer. Applied Physics Letters, 1992, 61, 2967-2969.	1.5	89
101	Probing Single Biomolecules in Solution Using the Anti-Brownian Electrokinetic (ABEL) Trap. Accounts of Chemical Research, 2012, 45, 1955-1964.	7.6	89
102	Single-molecule imaging of Hedgehog pathway protein Smoothened 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.	3.3	89
103	Single-Molecule Identification of Quenched and Unquenched States of LHCII. Journal of Physical Chemistry Letters, 2015, 6, 860-867.	2.1	88
104	Threeâ€Dimensional Superâ€Resolution Imaging of the Midplane Protein FtsZ in Live <i>Caulobacter crescentus</i> Cells Using Astigmatism. ChemPhysChem, 2012, 13, 1007-1012.	1.0	87
105	Correcting field-dependent aberrations with nanoscale accuracy in three-dimensional single-molecule localization microscopy. Optica, 2015, 2, 985.	4.8	87
106	Optical detection and probing of single dopant molecules of pentacene in a p-terphenyl host crystal by means of absorption spectroscopy. The Journal of Physical Chemistry, 1990, 94, 1237-1248.	2.9	85
107	Two-beam coupling measurements of grating phase in a photorefractive polymer. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 1642.	0.9	85
108	Principal-components analysis of shape fluctuations of single DNA molecules. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12622-12627.	3.3	85

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109	Fluorescence bleaching reveals asymmetric compartment formation prior to cell division inCaulobacter. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8235-8240.	3.3	83
110	Super-Resolution Imaging of the Nucleoid-Associated Protein HU in Caulobacter crescentus. Biophysical Journal, 2011, 100, L31-L33.	0.2	83
111	Those Blinking Single Molecules. Science, 1997, 277, 1059-1060.	6.0	82
112	An Adaptive Anti-Brownian Electrokinetic Trap with Real-Time Information on Single-Molecule Diffusivity and Mobility. ACS Nano, 2011, 5, 5792-5799.	7.3	81
113	Selective sequestration of signalling proteins in a membraneless organelle reinforces the spatial regulation of asymmetry in Caulobacter crescentus. Nature Microbiology, 2020, 5, 418-429.	5.9	81
114	Nonlinear Optical Chromophores as Nanoscale Emitters for Single-Molecule Spectroscopy. Accounts of Chemical Research, 2005, 38, 549-556.	7.6	80
115	Vibronic Spectroscopy of Individual Molecules in Solids. The Journal of Physical Chemistry, 1994, 98, 10377-10390.	2.9	79
116	Single-molecule spectroscopy and imaging over the decades. Faraday Discussions, 2015, 184, 9-36.	1.6	79
117	Single-molecule spectroscopy reveals photosynthetic LH2 complexes switch between emissive states. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10899-10903.	3.3	78
118	Optische Spektroskopie von einzelnen Dotierungsmolekülen in Festkörpern. Angewandte Chemie, 1993, 105, 537-557.	1.6	77
119	Experimental and Theoretical Investigations of Environmentally Sensitive Single-Molecule Fluorophoresâ€. Journal of Physical Chemistry B, 2004, 108, 10465-10473.	1.2	76
120	Long-Wavelength Analogue of PRODAN:Â Synthesis and Properties of Anthradan, a Fluorophore with a 2,6-Donorâ°'Acceptor Anthracene Structure. Journal of Organic Chemistry, 2006, 71, 9651-9657.	1.7	75
121	Single-molecule mountains yield nanoscale cell images. Nature Methods, 2006, 3, 781-782.	9.0	74
122	Cellular Inclusion Bodies of Mutant Huntingtin Exon 1 Obscure Small Fibrillar Aggregate Species. Scientific Reports, 2012, 2, 895.	1.6	74
123	Quantitative Super-Resolution Microscopy of the Mammalian Glycocalyx. Developmental Cell, 2019, 50, 57-72.e6.	3.1	74
124	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.	3.3	73
125	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.	3.3	73
126	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, .	3.3	73

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127	Cy3-Cy5 Covalent Heterodimers for Single-Molecule Photoswitching. Journal of Physical Chemistry B, 2008, 112, 11878-11880.	1.2	72
128	Photophysical Properties of Acene DCDHF Fluorophores:Â Long-Wavelength Single-Molecule Emitters Designed for Cellular Imaging. Journal of Physical Chemistry A, 2007, 111, 8934-8941.	1.1	70
129	Statistical Fine Structure of Inhomogeneously Broadened Absorption Lines. Physical Review Letters, 1987, 59, 2705-2708.	2.9	69
130	Systematics of two-wave mixing in a photorefractive polymer. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 905.	0.9	69
131	Gold bowtie nanoantennas for surface-enhanced Raman scattering under controlled electrochemical potential. Chemical Physics Letters, 2007, 446, 339-343.	1.2	69
132	Optimal strategy for trapping single fluorescent molecules inÂsolution using the ABEL trap. Applied Physics B: Lasers and Optics, 2010, 99, 23-30.	1.1	69
133	Chromosomal locus tracking with proper accounting of static and dynamic errors. Physical Review E, 2015, 91, 062716.	0.8	69
134	Vibrational analysis of the dispersed fluorescence from single molecules of terrylene in polyethylene. Chemical Physics Letters, 1993, 213, 325-332.	1.2	68
135	Polarized Fluorescence Microscopy of Individual and Many Kinesin Motors Bound to Axonemal Microtubules. Biophysical Journal, 2001, 81, 2851-2863.	0.2	68
136	Monolithically integrated semiconductor fluorescence sensor for microfluidic applications. Sensors and Actuators B: Chemical, 2005, 105, 393-399.	4.0	68
137	A bisected pupil for studying single-molecule orientational dynamics and its application to three-dimensional super-resolution microscopy. Applied Physics Letters, 2014, 104, 193701.	1.5	68
138	Optical studies of single terrylene molecules in polyethylene. Journal of Luminescence, 1993, 56, 1-14.	1.5	67
139	Title is missing!. Advanced Functional Materials, 2002, 12, 621-629.	7.8	65
140	Deep learning in single-molecule microscopy: fundamentals, caveats, and recent developments [Invited]. Biomedical Optics Express, 2020, 11, 1633.	1.5	65
141	Photoconductivity studies of photorefractive polymers. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 2059.	0.9	64
142	Poly(silane)-based high-mobility photorefractive polymers. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 2306.	0.9	64
143	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.	3.3	64
144	Single-molecule optical spectroscopy of autofluorescent proteins. Journal of Chemical Physics, 2002, 117, 10925-10937.	1.2	63

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145	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.	0.9	63
146	Measurement of quantum efficiencies for persistent spectral hole burning. The Journal of Physical Chemistry, 1984, 88, 6459-6460.	2.9	62
147	Holographic digital data storage in a photorefractive polymer. Optics Letters, 1996, 21, 890.	1.7	60
148	Image amplification and novelty filtering with a photorefractive polymer. Applied Physics Letters, 2000, 76, 3358-3360.	1.5	60
149	A Comparison of Through-the-Objective Total Internal Reflection Microscopy and Epifluorescence Microscopy for Single-Molecule Fluorescence Imaging. Single Molecules, 2001, 2, 191-201.	1.6	60
150	Single-molecule orientation measurements with a quadrated pupil. Optics Letters, 2013, 38, 1521.	1.7	60
151	Two-color, photon-gated spectral hole-burning in an organic material. Chemical Physics Letters, 1985, 118, 611-616.	1.2	58
152	Can single-photon processes provide useful materials for frequency-domain optical storage?. Journal of the Optical Society of America B: Optical Physics, 1985, 2, 915.	0.9	58
153	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.	1.6	58
154	Homodyne detection of ultrasonic surface displacements using two-wave mixing in photorefractive polymers. Optics Communications, 1999, 162, 79-84.	1.0	57
155	Distinct Constrictive Processes, Separated in Time and Space, Divide Caulobacter Inner and Outer Membranes. Journal of Bacteriology, 2005, 187, 6874-6882.	1.0	57
156	Measurement-based estimation of global pupil functions in 3D localization microscopy. Optics Express, 2017, 25, 7945.	1.7	57
157	Enzymatic activation of nitro-aryl fluorogens in live bacterial cells for enzymatic turnover-activated localization microscopy. Chemical Science, 2013, 4, 220-225.	3.7	56
158	Photorefractive Polymers Based on Dual-Function Dopants. The Journal of Physical Chemistry, 1995, 99, 4096-4105.	2.9	55
159	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.	0.9	55
160	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.	3.3	55
161	Diffusion of Lipid-like Single-Molecule Fluorophores in the Cell Membrane. Journal of Physical Chemistry B, 2006, 110, 8151-8157.	1.2	54
162	Single-Molecule Motions of Oligoarginine Transporter Conjugates on the Plasma Membrane of Chinese Hamster Ovary Cells. Journal of the American Chemical Society, 2008, 130, 9364-9370.	6.6	54

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163	Azimuthal Polarization Filtering for Accurate, Precise, and Robust Single-Molecule Localization Microscopy. Nano Letters, 2014, 14, 6407-6413.	4.5	54
164	Comment on â€~â€~Single pentacene molecules detected by fluorescence excitation in ap-terphenyl crystal'â€ Physical Review Letters, 1991, 66, 1376-1376.	тм 2.9	53
165	Dispersed fluorescence spectra of single molecules of pentacene in p-terphenyl. The Journal of Physical Chemistry, 1993, 97, 2491-2493.	2.9	53
166	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.	3.3	53
167	Lifetime and Spectrally Resolved Characterization of the Photodynamics of Single Fluorophores in Solution Using the Anti-Brownian Electrokinetic Trap. Journal of Physical Chemistry B, 2013, 117, 4641-4648.	1.2	53
168	Super-resolution Imaging of Live Bacteria Cells Using a Genetically Directed, Highly Photostable Fluoromodule. Journal of the American Chemical Society, 2016, 138, 10398-10401.	6.6	53
169	Second-order cascading as the origin of large third-order effects in organic single-crystal-core fibers. Optics Letters, 1994, 19, 868.	1.7	51
170	Single-photon sources based on single molecules in solids. New Journal of Physics, 2004, 6, 88-88.	1.2	50
171	Molecules and Methods for Super-Resolution Imaging. Methods in Enzymology, 2010, 475, 27-59.	0.4	49
172	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.	6.2	49
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174	Excitation of a single molecule on the surface of a spherical microcavity. Applied Physics Letters, 1997, 71, 297-299.	1.5	47
175	The influence of tetrahydroquinoline rings in dicyanomethylenedihydrofuran (DCDHF) single-molecule fluorophores. Tetrahedron, 2007, 63, 103-114.	1.0	47
176	Subâ€Diffraction Imaging of Huntingtin Protein Aggregates by Fluorescence Blinkâ€Microscopy and Atomic Force Microscopy. ChemPhysChem, 2011, 12, 2387-2390.	1.0	47
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