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Precise nanometer localization analysis for individual fluorescent probes

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2071	Optical tracking of spherical micro-objects in spatially periodic interference fields. <b>2007</b> , 15, 2262		
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2069	Three dimensional tracking of fluorescent microparticles using a photon-limited double-helix response system. <b>2008</b> , 16, 22048		
2068	PSF shaping using adaptive optics for three-dimensional single-molecule super-resolution imaging and tracking. <b>2012</b> , 20, 4957		
2067	PSF shaping using adaptive optics for three-dimensional single-molecule super-resolution imaging and tracking. <b>2012</b> , 20, 4957		
2066	PSF shaping using adaptive optics for three-dimensional single-molecule super-resolution imaging and tracking. <b>2012</b> , 20, 4957		
2065	Maximum precision closed-form solution for localizing diffraction-limited spots in noisy images. <b>2012</b> , 20, 18478		
2064	Maximum precision closed-form solution for localizing diffraction-limited spots in noisy images. <b>2012</b> , 20, 18478		
2063	Label-free multi-color superlocalization of plasmonic emission within metallic nano-interstice using femtosecond chirp-manipulated four wave mixing. <b>2015</b> , 23, 32113		
2062	Correcting field-dependent aberrations with nanoscale accuracy in three-dimensional single-molecule localization microscopy. <b>2015</b> , 2, 985		
2061	PSF shaping using adaptive optics for three-dimensional single-molecule super-resolution imaging and tracking. <b>2012</b> , 20, 4957		
2060	Label-free multi-color superlocalization of plasmonic emission within metallic nano-interstice using femtosecond chirp-manipulated four wave mixing. <b>2015</b> , 23, 32113		
2059	Combined Morpho-Chemical Profiling of Individual Extracellular Vesicles and Functional Nanoparticles without Labels.		
2058			
2057	Nanoscopy of Single Charge Carrier Jumps in a Conjugated Polymer Nanoparticle.		
2056	Revealing the Activity Distribution of a Single Nanocatalyst by Locating Single Nanobubbles with Super-Resolution Microscopy.		
2055	Anomalous Dynamics of in Vivo Cargo Delivery by Motor Protein Multiplexes.		

## (2000-)

2054	Nanoscale Surface-Induced Unfolding of Single Fibronectin Is Restricted by Serum Albumin Crowding.
2053	Improved Superresolution Imaging Using Telegraph Noise in Organic Semiconductor Nanoparticles.
2052	Deciphering Charging Status, Absolute Quantum Efficiency and Absorption Cross Section of Multicarrier States in Single Colloidal Quantum Dots.
2051	Nanoscopic Visualization of Restricted Nonvolume Cholinergic and Monoaminergic Transmission with Genetically Encoded Sensors.
2050	Imaging Catalytic Hotspots on Single Plasmonic Nanostructures via Correlated Super-Resolution and Electron Microscopy.
2049	Super-resolution Mapping of Enhanced Emission by Collective Plasmonic Resonances.
2048	All-Optical Self-Referenced Transverse Position Sensing with Subnanometer Precision.
2047	Cellular Force Nanoscopy with 50 nm Resolution Based on Integrin Molecular Tension Imaging and Localization.
2046	Quaternary Piperazine-Substituted Rhodamines with Enhanced Brightness for Super-Resolution Imaging.
2045	Dimensionality of Diffusion in Flow-Aligned Surfactant-Templated Mesoporous Silica: A Single Molecule Tracking Study of Pore Wall Permeability.
2044	How To Characterize Individual Nanosize Liposomes with Simple Self-Calibrating Fluorescence Microscopy.
2043	Far-Field Super-resolution Detection of Plasmonic Near-Fields.
2042	Development of Lipid-Coated Semiconductor Nanosensors for Recording of Membrane Potential in Neurons.
2041	Observing Extremely Weak ProteinProtein Interactions with Conventional Single-Molecule Fluorescence Microscopy.
2040	Correction to Genetic Code Expansion Enables Live-Cell and Super-Resolution Imaging of Site-Specifically Labeled Cellular Proteins.
2039	Strategy to Lengthen the On-Time of Photochromic Rhodamine Spirolactam for Super-resolution Photoactivated Localization Microscopy.
2038	Efficient Modulation of Amyloid Peptide Fibrillation with Polymer Nanoparticles Revealed by Super-Resolution Optical Microscopy.
2037	Membrane Dynamics: Fluorescence Spectroscopy. <b>2000</b> , 1-29

2036	High-resolution colocalization of single dye molecules by fluorescence lifetime imaging microscopy. <b>2002</b> , 74, 3511-7	92
2035	Single Protein Molecules Visualized and Tracked in the Interior of Eukaryotic Cells. <b>2002</b> , 3, 267-274	22
2034	Automatic fluorescent tag detection in 3D with super-resolution: application to the analysis of chromosome movement. <b>2002</b> , 208, 49-64	162
2033	Direct imaging of lateral movements of AMPA receptors inside synapses. <b>2003</b> , 22, 4656-65	297
2032	Pixel-based criteria-oriented analysis of time-lapse Ca2+-fluorescence images. <b>2003</b> , 127, 157-66	2
2031	Myosin V walks hand-over-hand: single fluorophore imaging with 1.5-nm localization. <b>2003</b> , 300, 2061-5	1555
2030	Single metallic nanoparticle imaging for protein detection in cells. <b>2003</b> , 100, 11350-5	303
2029	Nanometre resolution tracking of myosin-1b motility. <b>2003</b> , 150, 134-40	1
2028	Diffusion dynamics of glycine receptors revealed by single-quantum dot tracking. 2003, 302, 442-5	1283
2027	From the Cover: The dynamics of genomic-length DNA molecules in 100-nm channels. <b>2004</b> , 101, 10979-83	427
2026	Nanometer-localized multiple single-molecule fluorescence microscopy. <b>2004</b> , 101, 11298-303	256
2025	Segmentation of bionano images for understanding cell dynamics. <b>2004</b> , 2004, 1759-62	1
2024	Single-molecule high-resolution imaging with photobleaching. <b>2004</b> , 101, 6462-5	306
2023	Bionanoimaging analysis in cell behavior study.	1
2022	Nanometre localization of single ReAsH molecules. <b>2004</b> , 216, 199-205	23
2021	Dynamic tracking and mobility analysis of single GLUT4 storage vesicle in live 3T3-L1 cells. <b>2004</b> , 14, 480-6	36
2020	Optical trapping. <b>2004</b> , 75, 2787-809	1759
2019	Micro- and nanofluidics for DNA analysis. <b>2004</b> , 378, 1678-92	256

2018 Molecular fluorescence, phosphorescence, and chemiluminescence spectrometry. <b>2004</b> , 76, 4614-34		72
2017 Multiparameter microscopy and spectroscopy for single-molecule analytics. <b>2004</b> , 76, 1633-40		33
Nanometer localization of single green fluorescent proteins: evidence that myosin V walks hand-over-hand via telemark configuration. <i>Biophysical Journal</i> , <b>2004</b> , 87, 1776-83	2.9	87
Three-dimensional tracking of single secretory granules in live PC12 cells. <i>Biophysical Journal</i> , <b>2004</b> , 87, 1991-2001	2.9	40
2014 Single-molecule optics. <b>2004</b> , 55, 585-611		209
Second-harmonic microscopy of unstained living cardiac myocytes: measurements of sarcomere length with 20-nm accuracy. <b>2004</b> , 29, 2031-3		80
2012 Localization accuracy in single-molecule microscopy. <i>Biophysical Journal</i> , <b>2004</b> , 86, 1185-200	2.9	435
2011 Extended depth of field of microscope objective for particle tracking. <b>2004</b> ,		
Multiphoton microscopy using intrinsic signals for pharmacological studies in unstained cardiac and vascular tissue. <b>2005</b> ,		1
2009 Non-exponential bleaching of single bioconjugated Cy5 molecules. <b>2005</b> , 404, 13-18		33
2008 Position control and optical manipulation for nanotechnology applications. <b>2005</b> , 46, 1-8		37
High-resolution colocalization of single molecules within the resolution gap of far-field microscopy. <b>2005</b> , 6, 949-55		22
2006 Direct measurement of the end-to-end distance of individual polyfluorene polymer chains. <b>2005</b> , 6, 228	6-94	48
Sizing-up finite fluorescent particles with nanometer-scale precision by convolution and correlation image analysis. <b>2005</b> , 34, 181-99		15
Improved fluorescent proteins for single-molecule research in molecular tracking and co-localization. <b>2005</b> , 15, 707-21		34
2003 Visualization of retrovirus budding with correlated light and electron microscopy. <b>2005</b> , 102, 15453-8		100
2002 Molecular motors one at a time: FIONA to the rescue. <b>2005</b> , 17, S3979-95		18
2001 Nuclear transport of single molecules: dwell times at the nuclear pore complex. <b>2005</b> , 168, 233-43		204

2000	Single synaptic vesicle tracking in individual hippocampal boutons at rest and during synaptic activity. <b>2005</b> , 25, 11034-44		45
1999	Single quantum dot tracking based on perceptual grouping using minimal paths in a spatiotemporal volume. <b>2005</b> , 14, 1384-95		109
1998	Tracking Single Quantum Dots in Live Cells with Minimal Paths.		2
1997	A maximum-likelihood formalism for sub-resolution axial localization of fluorescent nanoparticles. <i>Optics Express</i> , <b>2005</b> , 13, 10503-22	3.3	71
1996	Feature point tracking and trajectory analysis for video imaging in cell biology. 2005, 151, 182-95		1016
1995	Static and dynamic errors in particle tracking microrheology. <i>Biophysical Journal</i> , <b>2005</b> , 88, 623-38	2.9	383
1994	Cholesterol dictates the freedom of EGF receptors and HER2 in the plane of the membrane. <i>Biophysical Journal</i> , <b>2005</b> , 89, 1362-73	2.9	94
1993	Fluorescence imaging with one nanometer accuracy: application to molecular motors. 2005, 38, 574-82		286
1992	Observation of individual microtubule motor steps in living cells with endocytosed quantum dots. <b>2005</b> , 109, 24220-4		142
1991	Tracking individual proteins in living cells using single quantum dot imaging. 2006, 414, 211-28		28
1990	Registration of single quantum dots using cryogenic laser photolithography. <b>2006</b> , 88, 193106		29
1989	Accuracy of single quantum dot registration using cryogenic laser photolithography. 2006,		
1988	A non-Gaussian distribution quantifies distances measured with fluorescence localization techniques. <i>Biophysical Journal</i> , <b>2006</b> , 90, 668-71	2.9	80
1987	Analysis method for measuring submicroscopic distances with blinking quantum dots. <i>Biophysical Journal</i> , <b>2006</b> , 91, 3050-60	2.9	51
1986	Ultra-high resolution imaging by fluorescence photoactivation localization microscopy. <i>Biophysical Journal</i> , <b>2006</b> , 91, 4258-72	2.9	2548
1985	Quantum Dots Nano-Particles Full Field Imaging With Optical Sectioning and 3D Localization.		
1984	Single molecule measurements of repressor protein 1D diffusion on DNA. <b>2006</b> , 97, 048302		268
1983	Methods to track single-molecule trajectories. <b>2006</b> , 22, 5266-72		39

## (2006-2006)

1982 Biotemplated nanopatterning of planar surfaces with molecular motors. <b>2006</b> , 6, 2177-83	49
1981 Single-molecule nanoprobes explore defects in spin-grown crystals. <b>2006</b> , 110, 18939-44	40
Full-field optical sectioning and three-dimensional localization of fluorescent particles using focal plane modulation. <b>2006</b> , 31, 1274-6	8
1979 Polarization effect on position accuracy of fluorophore localization. <i>Optics Express</i> , <b>2006</b> , 14, 8111-20 3.3	3 153
1978 4Pi microscopy of quantum dot-labeled cellular structures. <b>2006</b> , 156, 517-23	25
Visualizing single molecules interacting with nuclear pore complexes by narrow-field epifluorescence microscopy. <b>2006</b> , 39, 316-28	35
1976 Spatial resolution and position accuracy. 89-133	4
1975 Tracking fluorescent spots in wide-field microscopy images. <b>2006</b> ,	
Live cell imaging of the endocytosis and the intracellular trafficking of multifunctional lipid nanoparticles. <b>2006</b> ,	
1973 Precise determination of object position in 1D optical lattice. <b>2006</b> , 6326, 549	
1972 Calibration and standardization of the emission light path of confocal microscopes. <b>2006</b> , 223, 15-25	14
1971 Optical trapping and integration of semiconductor nanowire assemblies in water. <b>2006</b> , 5, 97-101	323
1970 Single-molecule mountains yield nanoscale cell images. <b>2006</b> , 3, 781-2	64
1969 Sub-diffraction-limit imaging by stochastic optical reconstruction microscopy (STORM). <b>2006</b> , 3, 793-5	5236
1968 Nanotribology: bringing friction to a halt. <b>2006</b> , 1, 20-1	16
1967 Imaging: pointillist microscopy. <b>2006</b> , 1, 19-20	5
1966 Visualization of single fluorophores in living cells. <b>2006</b> , 51, 406-417	1
1965 DNA primase acts as a molecular brake in DNA replication. <b>2006</b> , 439, 621-4	231

1964	Spincoated polyethylene films for single-molecule optics. <b>2006</b> , 417, 383-388	16
1963	A single-molecule study of polycrystalline microstructure by fluorescence polarization spectroscopy. <b>2006</b> , 118, 111-122	12
1962	Imaging intracellular fluorescent proteins at nanometer resolution. <b>2006</b> , 313, 1642-5	5929
1961	4Pi Microscopy. <b>2006</b> , 561-570	9
1960	A Stochastic Analysis of Performance Limits for Optical Microscopes. <b>2006</b> , 17, 27-57	48
1959	From analog to digital: exploring cell dynamics with single quantum dots. <b>2006</b> , 125, 451-6	15
1958	Single-molecule tracking in eukaryotic cell nuclei. <b>2007</b> , 387, 41-4	21
1957	A base-excision DNA-repair protein finds intrahelical lesion bases by fast sliding in contact with DNA. <b>2006</b> , 103, 5752-7	379
1956	A noise thermometry investigation of the melting point of gallium at the NIM. 2006, 43, 273-277	7
1955	Beyond Rayleigh@criterion: a resolution measure with application to single-molecule microscopy. <b>2006</b> , 103, 4457-62	180
1954	Using photon statistics to boost microscopy resolution. <b>2006</b> , 103, 4797-8	35
1953	Precise localization and correlation of single nanoparticle optical responses and morphology. <b>2006</b> , 88, 263111	23
1952	Detecting single quantum dot motion with nanometer resolution for applications in cell biology. <b>2006</b> , 5, 246-50	8
1951	Encyclopedic Reference of Genomics and Proteomics in Molecular Medicine. <b>2005</b> , 587-587	
1950	Encyclopedic Reference of Genomics and Proteomics in Molecular Medicine. <b>2005</b> , 576-578	1
1949	Commentary on the pleasures of solving impossible problems of experimental physiology. <b>2006</b> , 68, 1-28	8
1948	Living cells as test tubes. <b>2006</b> , 312, 228-30	218
1947	Wide-field subdiffraction imaging by accumulated binding of diffusing probes. <b>2006</b> , 103, 18911-6	686

1946	Intranuclear binding kinetics and mobility of single native U1 snRNP particles in living cells. <b>2006</b> , 17, 5017-27	32
1945	DEVELOPING PHOTOACTIVATED LOCALIZATION MICROSCOPY (PALM). 2007,	1
1944	Precise 3-D localization of fluorescent probes without numerical fitting. <b>2007</b> , 2007, 4181-4	2
1943	Dynamic clustered distribution of hemagglutinin resolved at 40 nm in living cell membranes discriminates between raft theories. <b>2007</b> , 104, 17370-5	322
1942	Detection of fractional steps in cargo movement by the collective operation of kinesin-1 motors. <b>2007</b> , 104, 10847-52	116
1941	Statistical analysis of neuronal growth: edge dynamics and the effect of a focused laser on growth cone motility. <b>2007</b> , 9, 426-426	11
1940	Precise particle tracking against a complicated background: polynomial fitting with Gaussian weight. <b>2007</b> , 4, 220-7	147
1939	Rapid DNA mapping by fluorescent single molecule detection. <b>2007</b> , 35, e16	83
1938	Single-molecule fluorescence analysis of cellular nanomachinery components. <b>2007</b> , 36, 371-94	12
1937	Detection and localization of antibody\(\text{Antigen interactions with high spatial resolution on collagen tendons. \(\textbf{2007}\), 2, 139-146	2
1936	PRECISE LOCALIZATION OF FLUORESCENT PROBES WITHOUT NUMERICAL FITTING. 2007,	2
1935	Detectors for single-molecule fluorescence imaging and spectroscopy. <b>2007</b> , 54, 239	95
1934	Position estimation of fluorescent probes in a confocal microscope. 2007,	4
1933	Single-molecule analysis of 1D diffusion and transcription elongation of T7 RNA polymerase along individual stretched DNA molecules. <b>2007</b> , 35, 3848-58	92
1932	Evolution of soliton-like train in Klein©ordon lattice system. 2007, 16, 223-227	2
1931	Probabilistic Teleportation of an Unknown One-Particle State by a Three-Particle General W State. <b>2007</b> , 47, 625-628	7
1930	New directions in single-molecule imaging and analysis. <b>2007</b> , 104, 12596-602	376
1929	Bioconjugated Nanoparticles for Ultrasensitive Detection of Molecular Biomarkers and Infectious Agents. 207-222	О

1928	A novel 3D resolution measure for optical microscopes with applications to single molecule imaging. <b>2007</b> ,		2
1927	Optical tracking of spherical micro-objects in spatially periodic interference fields. <i>Optics Express</i> , <b>2007</b> , 15, 2262-72	3.3	7
1926	The transport of alpha(1A)-adrenergic receptor with 33-nm step size in live cells. 2007, 353, 231-7		9
1925	Three-dimensional nanometry of vesicle transport in living cells using dual-focus imaging optics. <b>2007</b> , 359, 1-7		50
1924	Analysis of the orientation of primary cilia in growth plate cartilage: a mathematical method based on multiphoton microscopical images. <b>2007</b> , 158, 293-306		24
1923	New fluorescent tools for watching nanometer-scale conformational changes of single molecules. <b>2007</b> , 36, 349-69		64
1922	Single molecule EDNA stretching studied by microfluidics and single particle tracking. <b>2007</b> , 102, 074703		10
1921	FIONA in the trap: the advantages of combining optical tweezers and fluorescence. <b>2007</b> , 9, S157-S163		21
1920	Dual-color superresolution imaging of genetically expressed probes within individual adhesion complexes. <b>2007</b> , 104, 20308-13		425
1919	Three-dimensional particle tracking via bifocal imaging. <b>2007</b> , 7, 2043-5		174
1918	(Un)confined diffusion of CD59 in the plasma membrane determined by high-resolution single molecule microscopy. <i>Biophysical Journal</i> , <b>2007</b> , 92, 3719-28	2.9	101
1917	Single-particle tracking of membrane protein diffusion in a potential: simulation, detection, and application to confined diffusion of CFTR Cl- channels. <i>Biophysical Journal</i> , <b>2007</b> , 93, 1079-88	2.9	66
1916	Nanopipette delivery of individual molecules to cellular compartments for single-molecule fluorescence tracking. <i>Biophysical Journal</i> , <b>2007</b> , 93, 3120-31	2.9	81
1915	Fluorescence nanoscopy in whole cells by asynchronous localization of photoswitching emitters. <i>Biophysical Journal</i> , <b>2007</b> , 93, 3285-90	2.9	227
1914	Beyond the diffraction limit: far-field fluorescence imaging with ultrahigh resolution. <b>2007</b> , 3, 781-93		29
1913	. 2007,		21
1912	Determination of haplotypes from single DNA molecules: a method for single-molecule barcoding. <b>2007</b> , 28, 913-21		20
1911	Nanoparticle scanning and detection on flat and structured surfaces using fluorescence microscopy. <b>2007</b> , 70, 534-8		4

#### (2008-2007)

1910	A new detection algorithm for image analysis of single, fluorescence-labeled proteins in living cells.  2007, 70, 763-70	17
1909	Heterogeneous transportation of alpha1B-adrenoceptor in living cells. <b>2007</b> , 127, 149-54	8
1908	Single molecule fluorescence detection of BODIPY-FL molecules for monitoring protein synthesis. <b>2007</b> , 127, 264-268	11
190 <del>7</del>	Real-time detection of alpha1A-AR movement stimulated by phenylephrine in single living cells. <b>2007</b> , 28, 796-802	2
1906	5 Intracellular objects tracking. <b>2007</b> , 86, 569-78	38
1905	Multicolor super-resolution imaging with photo-switchable fluorescent probes. <b>2007</b> , 317, 1749-53	1119
1902	Single-molecule fluorescence to study molecular motors. <b>2007</b> , 40, 87-111	60
1903	Resolution of [//10 in fluorescence microscopy using fast single molecule photo-switching. <b>2007</b> , 88, 223-226	67
1902	Two-color far-field fluorescence nanoscopy based on photoswitchable emitters. <b>2007</b> , 88, 161-165	133
1901	Exploring dynamics in living cells by tracking single particles. <b>2007</b> , 48, 1-15	116
1900	Confocal microscopy of colloidal particles: towards reliable, optimum coordinates. <b>2008</b> , 136, 65-92	92
1899	Chromatin dynamics during interphase explored by single-particle tracking. <b>2008</b> , 16, 439-49	21
1898	Optimising the precision for localising fluorescent proteins in living cells by 2D Gaussian fitting of digital images: application to COPII-coated endoplasmic reticulum exit sites. <b>2008</b> , 37, 1335-49	6
189 <del>7</del>	Photoswitching microscopy with standard fluorophores. <b>2008</b> , 93, 725-731	90
1896	Exchange of microtubule molecular motors during melanosome transport in Xenopus laevis melanophores is triggered by collisions with intracellular obstacles. <b>2008</b> , 52, 191-201	14
1895	Fluorescence nanoscopy with optical sectioning by two-photon induced molecular switching using continuous-wave lasers. <b>2008</b> , 9, 321-6	73
1894	Organelle tracking in a living cell with microsecond time resolution and nanometer spatial precision. <b>2008</b> , 9, 707-12	127
1893	Tracking bio-molecules in live cells using quantum dots. <b>2008</b> , 1, 287-98	98

1892	Subdiffraction-resolution fluorescence imaging with conventional fluorescent probes. <b>2008</b> , 47, 6172-6	1341
1891	Fluoreszenzmikroskopie unterhalb der optischen Aufl\u00ddungsgrenze mit konventionellen Fluoreszenzsonden. <b>2008</b> , 120, 6266-6271	94
1890	Implementation of alternating excitation schemes in a biochip-reader for quasi-simultaneous multi-color single-molecule detection. <b>2008</b> , 23, 1891-5	5
1889	Super-resolution microscopy by nanoscale localization of photo-switchable fluorescent probes. <b>2008</b> , 12, 505-14	163
1888	Confocal, three-dimensional tracking of individual quantum dots in high-background environments. <b>2008</b> , 80, 9830-4	49
1887	Single-molecule approach to molecular biology in living bacterial cells. <b>2008</b> , 37, 417-44	286
1886	Direct observation of the mechanochemical coupling in myosin Va during processive movement. <b>2008</b> , 455, 128-32	119
1885	Single-RNA counting reveals alternative modes of gene expression in yeast. <b>2008</b> , 15, 1263-71	507
1884	Actin restricts FcepsilonRI diffusion and facilitates antigen-induced receptor immobilization. <b>2008</b> , 10, 955-63	240
1883	Biosensing with plasmonic nanosensors. <b>2008</b> , 7, 442-53	5254
		5354
1882	Do-it-yourself guide: how to use the modern single-molecule toolkit. <b>2008</b> , 5, 475-89	268
1882	Do-it-yourself guide: how to use the modern single-molecule toolkit. <b>2008</b> , 5, 475-89  Super-resolution imaging in live Caulobacter crescentus cells using photoswitchable EYFP. <b>2008</b> , 5, 947-9	
1882		268
1882	Super-resolution imaging in live Caulobacter crescentus cells using photoswitchable EYFP. <b>2008</b> , 5, 947-9	268 294
1882 1881 1880	Super-resolution imaging in live Caulobacter crescentus cells using photoswitchable EYFP. 2008, 5, 947-9  Quantum-dot-assisted characterization of microtubule rotations during cargo transport. 2008, 3, 552-6	268 294 93 1050
1882 1881 1880	Super-resolution imaging in live Caulobacter crescentus cells using photoswitchable EYFP. 2008, 5, 947-9  Quantum-dot-assisted characterization of microtubule rotations during cargo transport. 2008, 3, 552-6  Fluorescent probes for super-resolution imaging in living cells. 2008, 9, 929-43  Bayesian inference for improved single molecule fluorescence tracking. <i>Biophysical Journal</i> , 2008,	268 294 93 1050
1882 1881 1880 1879	Super-resolution imaging in live Caulobacter crescentus cells using photoswitchable EYFP. 2008, 5, 947-9  Quantum-dot-assisted characterization of microtubule rotations during cargo transport. 2008, 3, 552-6  Fluorescent probes for super-resolution imaging in living cells. 2008, 9, 929-43  Bayesian inference for improved single molecule fluorescence tracking. <i>Biophysical Journal</i> , 2008, 94, 4932-47  Differential evanescence nanometry: live-cell fluorescence measurements with 10-nm axial	268 294 93 1050 42

## (2008-2008)

1874	Tumor suppressor p53 slides on DNA with low friction and high stability. <i>Biophysical Journal</i> , <b>2008</b> , 95, L01-3	2.9	144	
1873	High accuracy 3D quantum dot tracking with multifocal plane microscopy for the study of fast intracellular dynamics in live cells. <i>Biophysical Journal</i> , <b>2008</b> , 95, 6025-43	2.9	207	
1872	Single-molecule biophysics: at the interface of biology, physics and chemistry. <b>2008</b> , 5, 15-45		224	
1871	Advances in single-molecule fluorescence methods for molecular biology. <b>2008</b> , 77, 51-76		596	
1870	A photoactivatable push-pull fluorophore for single-molecule imaging in live cells. 2008, 130, 9204-5		166	
1869	Multicolor far-field fluorescence nanoscopy through isolated detection of distinct molecular species. <b>2008</b> , 8, 2463-8		175	
1868	Photoactivation and imaging of photoactivatable fluorescent proteins. 2008, Chapter 21, Unit 21.6		19	
1867	Nanoparticles in Biomedical Imaging. 2008,		23	
1866	Subdiffraction-resolution fluorescence imaging of proteins in the mitochondrial inner membrane with photoswitchable fluorophores. <b>2008</b> , 164, 250-4		86	
1865	Tracking single molecules in the live cell plasma membrane-Do@ and Don@. 2008, 46, 131-40		147	
1864	Three-dimensional super-resolution imaging by stochastic optical reconstruction microscopy. <b>2008</b> , 319, 810-3		1932	
1863	Gaussian profile estimation in two dimensions. <b>2008</b> , 47, 6842-51		20	
1862	Fast, bias-free algorithm for tracking single particles with variable size and shape. <i>Optics Express</i> , <b>2008</b> , 16, 14064-75	3.3	47	
1861	Localization of a fluorescent source without numerical fitting. Optics Express, 2008, 16, 18714-24	3.3	51	
1860	Isotropic 3D Nanoscopy based on single emitter switching. <i>Optics Express</i> , <b>2008</b> , 16, 20774-88	3.3	60	
1859	Nanoscale separation of molecular species based on their rotational mobility. <i>Optics Express</i> , <b>2008</b> , 16, 21093-104	3.3	32	
1858	Three dimensional tracking of fluorescent microparticles using a photon-limited double-helix response system. <i>Optics Express</i> , <b>2008</b> , 16, 22048-57	3.3	140	
1857	A direct role for FMRP in activity-dependent dendritic mRNA transport links filopodial-spine morphogenesis to fragile X syndrome. <b>2008</b> , 14, 926-39		376	

1856	A Multi-Aperture Image Sensor With 0.7 \$mu{hbox{m}}\$ Pixels in 0.11 \$mu{hbox{m}}\$ CMOS Technology. <b>2008</b> , 43, 2990-3005	22
1855	Cell biology of mRNA decay. <b>2008</b> , 448, 553-77	21
1854	Resolving sub-diffraction limit encounters in nanoparticle tracking using live cell plasmon coupling microscopy. <b>2008</b> , 8, 3386-93	98
1853	Superresolution microscopy on the basis of engineered dark states. <b>2008</b> , 130, 16840-1	172
1852	Nanometer-scale mapping and single-molecule detection with color-coded nanoparticle probes. <b>2008</b> , 105, 3298-303	82
1851	Subdiffraction far-field imaging of luminescent single-walled carbon nanotubes. <b>2008</b> , 8, 749-53	30
1850	Photoswitchable nanoparticles enable high-resolution cell imaging: PULSAR microscopy. <b>2008</b> , 130, 15279-81	99
1849	Super-resolution imaging by random adsorbed molecule probes. <b>2008</b> , 8, 1159-62	29
1848	Microrheology of bacterial biofilms in vitro: Staphylococcus aureus and Pseudomonas aeruginosa. <b>2008</b> , 24, 13549-55	88
1847	Passive control and synchronization of hyperchaotic Chen system. <b>2008</b> , 17, 492-497	23
1846	Photoactivated localization microscopy (PALM) of adhesion complexes. 2008, Chapter 4, Unit 4.21	43
1845	See me, feel me: methods to concurrently visualize and manipulate single DNA molecules and associated proteins. <b>2008</b> , 36, 4381-9	76
1844	Autonomy and robustness of translocation through the nuclear pore complex: a single-molecule study. <b>2008</b> , 183, 77-86	80
1843	Towards registered single quantum dot photonic devices. <b>2008</b> , 19, 455307	4
1842	Quantitative differential interference contrast microscopy based on structured-aperture interference. <b>2008</b> , 93, 091113	13
1841	Fluorescent proteins for photoactivation experiments. <b>2008</b> , 85, 45-61	76
	Fluorescent proteins for photoactivation experiments. <b>2008</b> , 85, 45-61  Imaging and Molecular Motors. 41-85	76

 ${\tt 1838}$   $\,$  A Road Map to Single Molecule Dynamics. 1-10

1837	Automated nuclear analysis of Leishmania major telomeric clusters reveals changes in their organization during the parasite@ life cycle. <b>2008</b> , 3, e2313	10
1836	mKikGR, a monomeric photoswitchable fluorescent protein. <b>2008</b> , 3, e3944	155
1835	A Quantitative Comparison of the Photophysical Properties of Selected Quantum Dots and Organic Fluorophores. <b>2008</b> , 222, 833-849	8
1834	Evaluation of Diffusion Coefficient in a Dextrin-Based Photo-Curable Material by Single Molecule Tracking. <b>2009</b> , 2, 075004	8
1833	Collagen-based mechanical anisotropy of the tectorial membrane: implications for inter-row coupling of outer hair cell bundles. <b>2009</b> , 4, e4877	32
1832	Investigating sub-spine actin dynamics in rat hippocampal neurons with super-resolution optical imaging. <b>2009</b> , 4, e7724	67
1831	Single Molecule Fluorescence in Membrane Biology. <b>2009</b> , 253-288	
1830	Steerable filters for orientation estimation and localization of fluorescent dipoles. 2009,	1
1829	Hotspots of GPI-anchored proteins and integrin nanoclusters function as nucleation sites for cell adhesion. <b>2009</b> , 106, 18557-62	187
1828	The Tracking of Individual Molecules in Cells and Tissues. 25-42	
1827	Proliferating cell nuclear antigen uses two distinct modes to move along DNA. <b>2009</b> , 284, 17700-10	96
1826	Accurately determining single molecule trajectories of molecular motion on surfaces. <b>2009</b> , 130, 164710	28
1825	Non-blinking and photostable upconverted luminescence from single lanthanide-doped nanocrystals. <b>2009</b> , 106, 10917-21	562
1824	Lithography process for KrF in the sub-0.11 th node. <b>2009</b> , 30, 096004	
1823	Sub-wavelength Ripple Formation on Silicon Induced by Femtosecond Laser Radiation. <b>2009</b> , 26, 037901	5
1822	Dual objective fluorescence microscopy for single molecule imaging applications. <b>2009</b> , 7184, 71840C	
1821	Biosensing with plasmonic nanosensors. <b>2009</b> , 308-319	79

1820	Superresolution imaging in live Caulobacter crescentus cells using photoswitchable enhanced yellow fluorescent protein. <b>2009</b> ,	10
1819	Photoactivatable DCDHF fluorophores for single-molecule imaging. 2009,	
1818	Three-dimensional super-resolution imaging with a double-helix microscope. 2009,	
1817	Self-organization of the Escherichia coli chemotaxis network imaged with super-resolution light microscopy. <b>2009</b> , 7, e1000137	264
1816	A hidden Markov model for single particle tracks quantifies dynamic interactions between LFA-1 and the actin cytoskeleton. <b>2009</b> , 5, e1000556	87
1815	Multi Dromion-Solitoff and Fractal Excitations for (2+1)-Dimensional BoitileonMannaPempinelli System. <b>2009</b> , 52, 641-645	16
1814	Localizing GABA Receptors and Glutamate Transporters Using Conjugated Quantum Dots in Rat Cerebellum Slices. <b>2009</b> , 1241, 1241-XX03-07-01	
1813	Single-molecule electrocatalysis by single-walled carbon nanotubes. <b>2009</b> , 9, 3968-73	92
1812	Optically resolving individual microtubules in live axons. <b>2009</b> , 17, 1433-41	40
1811	In vivo protein architecture of the eukaryotic kinetochore with nanometer scale accuracy. <b>2009</b> , 19, 694-9	153
1810	Single molecule approaches to transcription factor kinetics in living cells. <b>2009</b> , 583, 3979-83	20
1809	Fluorescence single-molecule study of cobra phospholipase A2 action on a supported gel-phase lipid bilayer. <b>2009</b> , 10, 549-58	8
1808	Probing dynein and kinesin stepping with mechanical manipulation in a living cell. 2009, 10, 1511-6	65
1807	Photoswitches: Key molecules for subdiffraction-resolution fluorescence imaging and molecular quantification. <b>2009</b> , 3, 180-202	218
1806	Hochaufl\( Bende Mikroskopie mit kleinen organischen Farbstoffen. \) 2009, 121, 7036-7041	38
	Hochaufl\( \text{Bende Mikroskopie mit kleinen organischen Farbstoffen. } \) 2009, 121, 7036-7041  Super-resolution imaging with small organic fluorophores. 2009, 48, 6903-8	330
1805		

## (2009-2009)

1802	Does the cellulose-binding module move on the cellulose surface?. <b>2009</b> , 16, 587-597	38
1801	The dynamic nature of the bacterial cytoskeleton. <b>2009</b> , 66, 3353-62	41
1800	Linear optimal control for tracking a single fluorescent particle in a confocal microscope. <b>2009</b> , 94, 403-409	7
1799	Probing complexes with single fluorophores: factors contributing to dispersion of FRET in DNA/RNA duplexes. <b>2009</b> , 38, 395-405	24
1798	Multiple objects tracking in fluorescence microscopy. <b>2009</b> , 58, 57-80	25
1797	High-aperture cryogenic light microscopy. <b>2009</b> , 235, 1-8	105
1796	Molecular genetics and imaging technologies for circuit-based neuroanatomy. 2009, 461, 900-7	73
1795	High-speed nanoscopic tracking of the position and orientation of a single virus. <b>2009</b> , 6, 923-7	252
1794	Optically monitoring the mechanical assembly of single molecules. <b>2009</b> , 4, 45-9	58
1793	Nano-imaging with Storm. <b>2009</b> , 3, 365-367	116
1792	Imaging biological structures with fluorescence photoactivation localization microscopy. <b>2009</b> , 4, 291-308	148
1791	Lifetime-limited zero-phonon spectra of single molecules in methyl methacrylate. <b>2009</b> , 472, 44-47	6
1790	Interferometric fluorescent super-resolution microscopy resolves 3D cellular ultrastructure. <b>2009</b> , 106, 3125-30	686
1789	Super-resolution fluorescence microscopy. <b>2009</b> , 78, 993-1016	1159
1788	Controlling the fluorescence of ordinary oxazine dyes for single-molecule switching and superresolution microscopy. <b>2009</b> , 106, 8107-12	224
1787	PALM and STORM: what hides beyond the Rayleigh limit?. <b>2009</b> , 4, 846-57	35
1786	Ultrahigh resolution imaging of biomolecules by fluorescence photoactivation localization microscopy. <i>Methods in Molecular Biology</i> , <b>2009</b> , 544, 483-522	30
1785	The single molecule probe: nanoscale vectorial mapping of photonic mode density in a metal nanocavity. <b>2009</b> , 9, 1189-95	29

1784	Micrometer-scale translation and monitoring of individual nanocars on glass. <b>2009</b> , 3, 351-6		61
1783	Cell-penetrating HIV1 TAT peptides float on model lipid bilayers. <b>2009</b> , 48, 4728-37		34
1782	Microscopic Structure and Mobility of Guest Molecules in Mesoporous Hybrid Organosilica: Evaluation with Single-Molecule Tracking <b>2009</b> , 113, 11884-11891		28
1781	Lighting up individual DNA binding proteins with quantum dots. <b>2009</b> , 9, 1598-603		46
1780	Suppression of quantum dot blinking in DTT-doped polymer films. <b>2009</b> , 113, 11541-11545		34
1779	Quantum dot triexciton imaging with three-dimensional subdiffraction resolution. <b>2009</b> , 9, 2466-70		27
1778	Nanometer distance measurements between multicolor quantum dots. <b>2009</b> , 9, 2199-205		21
1777	Hidden markov analysis of short single molecule intensity trajectories. <b>2009</b> , 113, 13886-90		17
1776	Single-Molecule Analysis of Biomembranes. <b>2009</b> , 19-42		3
1775	Complexity of mitochondrial dynamics in neurons and its control by ADP produced during synaptic activity. <b>2009</b> , 41, 2005-14		30
1774	Fluorescence microscopy below the diffraction limit. <b>2009</b> , 20, 886-93		38
1773	Super-resolution orientation estimation and localization of fluorescent dipoles using 3-D steerable filters. <i>Optics Express</i> , <b>2009</b> , 17, 6829-48	.3	76
1772	Improved single particle localization accuracy with dual objective multifocal plane microscopy.  Optics Express, 2009, 17, 6881-98	.3	48
1771	Quantitative study of single molecule location estimation techniques. <i>Optics Express</i> , <b>2009</b> , 17, 23352-73 <sub>3</sub>	.3	114
1770	Advances in light microscopy for neuroscience. <b>2009</b> , 32, 435-506		217
1769	Around-the-objective total internal reflection fluorescence microscopy. <b>2009</b> , 48, 6120-31		16
1768	Single-molecule imaging of a fluorescent unnatural amino acid incorporated into nicotinic receptors. <i>Biophysical Journal</i> , <b>2009</b> , 96, 226-37	.9	58
1767	Mitotic chromosome structure: reproducibility of folding and symmetry between sister chromatids.  Biophysical Journal, <b>2009</b> , 96, 1617-28	.9	32

#### (2009-2009)

1766	Theoretical limits on errors and acquisition rates in localizing switchable fluorophores. <i>Biophysical Journal</i> , <b>2009</b> , 96, L16-8	2.9	34
1765	Using the bias from flow to elucidate single DNA repair protein sliding and interactions with DNA.  Biophysical Journal, <b>2009</b> , 96, 1911-7	2.9	23
1764	Lucky imaging: improved localization accuracy for single molecule imaging. <i>Biophysical Journal</i> , <b>2009</b> , 96, 2912-7	2.9	12
1763	A novel approach to high accuracy of video-based microrheology. <i>Biophysical Journal</i> , <b>2009</b> , 96, 5103-11 <sub>2</sub>	<u>2</u> .9	22
1762	Novel ways to determine kinesin-10 run length and randomness using fluorescence microscopy. <i>Biophysical Journal</i> , <b>2009</b> , 97, 2287-94	2.9	16
1761	Physikalische Chemie 2008. <b>2009</b> , 57, 287-296		
1760	Polymers and single molecule fluorescence spectroscopy, what can we learn?. 2009, 38, 313-28		178
1759	Multicolor photoswitching microscopy for subdiffraction-resolution fluorescence imaging. <b>2009</b> , 8, 465-9		104
1758	3D particle trajectories observed by orthogonal tracking microscopy. <b>2009</b> , 3, 609-14		33
1757	Image analysis with rapid and accurate two-dimensional Gaussian fitting. <b>2009</b> , 25, 8152-60		99
1756	Fluctuations as a source of information in fluorescence microscopy. <b>2009</b> , 6,		14
1755	Three-dimensional localization with nanometer accuracy using a detector-limited double-helix point spread function system. <b>2009</b> , 95, 021103		38
1754	Handbook of Single-Molecule Biophysics. <b>2009</b> ,		49
1753	Micro and Nano Technologies in Bioanalysis. <i>Methods in Molecular Biology</i> , <b>2009</b> ,	۱.4	4
1752	Fundamental Concepts in Biophysics. 2009,		6
1751	Mapping the emitting sites within a single conjugated polymer molecule. <b>2009</b> , 4868-70		51
1750	Diffusion processes of single fluorescent molecules in a polymer-based thin material with three-dimensional network. <b>2009</b> , 6165-7		9
1749	Synthetic biology of minimal systems. <b>2009</b> , 44, 223-42		97

Confocal and force probe imaging system for simultaneous three-dimensional optical and mechanical spectroscopic evaluation of biological samples. <b>2009</b> , 80, 055110	6
Three-dimensional, single-molecule fluorescence imaging beyond the diffraction limit by using a double-helix point spread function. <b>2009</b> , 106, 2995-9	700
Approaches for stoichiometry and distance determination of nanometer bio-complex by dual-channel single molecule imaging. <b>2009</b> , 2009, 124-127	5
1745 Single Particle Tracking. <b>2009</b> , 1-33	12
1744 Nanoscale 3D tracking with conjugated polymer nanoparticles. <b>2009</b> , 131, 18410-4	119
1743 Photoswitching microscopy with subdiffraction-resolution. <b>2009</b> ,	
Single Molecule Fluorescence Monitoring in Eukaryotic Cells: Intranuclear Dynamics of Splicing Factors. 1-17	
1741 Spectral dynamics and spatial localization of single molecules in a polymer. <b>2009</b> , 107, 1897-1909	5
1740 Single-quantum dot imaging with a photon counting camera. <b>2009</b> , 10, 543-58	33
1739 Comparison of estimation algorithms in single-molecule localization. <b>2010</b> , 7570, 757004	1
1738 A single molecule study of cellulase hydrolysis of crystalline cellulose. <b>2010</b> ,	4
Super-resolved position and orientation estimation of fluorescent dipoles using 3-D steerable filters. <b>2010</b> ,	
Nuclear physics: quantitative single-cell approaches to nuclear organization and gene expression. <b>2010</b> , 75, 113-26	14
Optimal measurement constellation of the fluoroBancroft localization algorithm for position estimation in tracking confocal microscopy. <b>2010</b> , 43, 435-440	1
1734 Single Particle Tracking. <b>2010</b> , 5-1-5-17	7
1733 Controlled placement of single photon sources for quantum integration. <b>2010</b> ,	
1732 Four-focus single-particle position determination in a confocal microscope. <b>2010</b> ,	2
1731 Likelihood inference for particle location in fluorescence microscopy. <b>2010</b> , 4,	7

#### (2010-2010)

Localizing and Tracking Single Emitters in Three Dimensions Using a Double Helix Point Spread Function. **2010**,

1729 Optical imaging of nanoscale cellular structures. <b>2010</b> , 2, 147-158	26
1728 Single-molecule fluorescence characterization in native environment. <b>2010</b> , 2, 159-167	7
Advanced fluorescence microscopy methods illuminate the transfection pathway of nucleic acid nanoparticles. <b>2010</b> , 148, 69-74	39
Beyond co-localization: inferring spatial interactions between sub-cellular structures from microscopy images. <b>2010</b> , 11, 372	62
1725 Tension management in the kinetochore. <b>2010</b> , 20, R1040-8	19
1724 Make them blink: probes for super-resolution microscopy. <b>2010</b> , 11, 2475-90	161
1723 PALM imaging and cluster analysis of protein heterogeneity at the cell surface. <b>2010</b> , 3, 446-54	204
Super-resolution imaging and statistical analysis of CdSe/CdS Core/Shell semiconductor nanocrystals. <b>2010</b> , 3, 437-45	5
The effect of photoswitching kinetics and labeling densities on super-resolution fluorescence imaging. <b>2010</b> , 149, 260-6	110
1720 Fluorescence microscopy beyond the diffraction limit. <b>2010</b> , 149, 243-51	92
1719 Super-resolution optical microscopy: multiple choices. <b>2010</b> , 14, 10-4	124
Ways and means of coping with uncertainties of the relationship of the genetic blue print to protein structure and function in the cell. <b>2010</b> , 8, 26	1
Imaging individual proteins and nanodomains on intact cell membranes with a probe-based optical antenna. <b>2010</b> , 6, 270-5	59
1716 Real-time computation of subdiffraction-resolution fluorescence images. <b>2010</b> , 237, 12-22	195
Initiation complex dynamics direct the transitions between distinct phases of early HIV reverse transcription. <b>2010</b> , 17, 1453-60	54
In vivo imaging of labelled endogenous tctin mRNA during nucleocytoplasmic transport. <b>2010</b> , 467, 604-7	234
1713 Nanoscale architecture of integrin-based cell adhesions. <b>2010</b> , 468, 580-4	1039

1712 Adaptive optics via pupil segmentation for high-resolution imaging in biological tissues. <b>2010</b> , 7, 141	-7 391
1711 Probing cellular events, one quantum dot at a time. <b>2010</b> , 7, 275-85	340
Optimized localization analysis for single-molecule tracking and super-resolution microscopy. <b>2010</b> , 7, 377-81	609
1709 Live-cell super-resolution imaging with trimethoprim conjugates. <b>2010</b> , 7, 717-9	274
1708 Monitoring multiple distances within a single molecule using switchable FRET. <b>2010</b> , 7, 831-6	85
1707 The economy of photons. <b>2010</b> , 7, 357-9	12
1706 Light sheet microscopy for single molecule tracking in living tissue. <b>2010</b> , 5, e11639	118
Condensed mitotic chromosome structure at nanometer resolution using PALM and EGFP-histones. <b>2010</b> , 5, e12768	69
Covalent quantum dot receptor linkage via the acyl carrier protein for single-molecule tracking, internalization, and trafficking studies. <b>2010</b> , 49, 574-9	14
1703 GE Prize-winning essay. A new approach to fluorescence microscopy. <b>2010</b> , 330, 1334-5	2
1702 Three-dimensional single particle tracking using off-axis digital holographic microscopy. <b>2010</b> ,	2
1701 Direct mapping of nanoscale compositional connectivity on intact cell membranes. <b>2010</b> , 107, 15437	<b>'-42</b> 81
1700 Nanometer resolution imaging by single molecule switching. <b>2010</b> , 1,	2
Fast microtubule dynamics in meiotic spindles measured by single molecule imaging: evidence that the spindle environment does not stabilize microtubules. <b>2010</b> , 21, 323-33	66
Anomalous diffusion of kv2.1 channels observed by single molecule tracking in live cells. <b>2010</b> , 2010, 3005-8	3
1697 Nanometer positioning of single quantum dots by flow control. <b>2010</b> ,	
1696 Coherent nonlinear single-molecule microscopy. <b>2010</b> , 82,	21
FISHER INFORMATION FOR EMCCD IMAGING WITH APPLICATION TO SINGLE MOLECULE MICROSCOPY. <b>2010</b> , 1085-1089	1

1694	Near-isotropic 3D optical nanoscopy with photon-limited chromophores. <b>2010</b> , 107, 10068-73	55
1693	Measuring Colocalization by Dual Color Single Molecule Imaging. <b>2010</b> , 21-40	4
1692	A Hypothesis Testing Approach for Fluorescent Blob Identification. 2010,	
1691	In vivo Three-Dimensional Superresolution Fluorescence Tracking using a Double-Helix Point Spread Function. <b>2010</b> , 7571, 75710Z	14
1690	dSTORM: real-time subdiffraction-resolution fluorescence imaging with organic fluorophores. <b>2010</b>	5
1689	Localization capability and limitation of electron-multiplying charge-coupled, scientific complementary metal-oxide semiconductor, and charge-coupled devices for superresolution imaging. <b>2010</b> , 15, 066005	51
1688	Extracting the mechanical properties of microtubules from thermal fluctuation measurements on an attached tracer particle. <b>2010</b> , 95, 601-15	3
1687	Recording single motor proteins in the cytoplasm of mammalian cells. <b>2010</b> , 475, 81-107	5
1686	Structure and dynamics of the kinesin-microtubule interaction revealed by fluorescence polarization microscopy. <b>2010</b> , 95, 505-19	7
1685	Quantitative detection of single molecules in fluorescence microscopy images. <b>2010</b> , 82, 189-96	37
1684	DNA fluorocode: A single molecule, optical map of DNA with nanometre resolution. <b>2010</b> , 1, 453	73
1683	Resolving rotational motions of nano-objects in engineered environments and live cells with gold nanorods and differential interference contrast microscopy. <b>2010</b> , 132, 16417-22	136
1682	Synthesis of fluorescent dye-tagged nanomachines for single-molecule fluorescence spectroscopy. <b>2010</b> , 75, 6631-43	14
1681	Multiple color single molecule TIRF imaging and tracking of MAPs and motors. <b>2010</b> , 95, 521-42	22
1680	A simple backscattering microscope for fast tracking of biological molecules. <b>2010</b> , 81, 113704	32
1679	Studying kinesin motors by optical 3D-nanometry in gliding motility assays. <b>2010</b> , 95, 247-71	40
1678	Mean square displacement analysis of single-particle trajectories with localization error: Brownian motion in an isotropic medium. <b>2010</b> , 82, 041914	390
1677	Analyzing mRNA expression using single mRNA resolution fluorescent in situ hybridization. <b>2010</b> , 470, 641-59	39

1676	Active RNA polymerases: mobile or immobile molecular machines?. <b>2010</b> , 8, e1000419		76
1675	Visualization of localization microscopy data. <b>2010</b> , 16, 64-72		101
1674	Visualizing the formation and collapse of DNA toroids. <i>Biophysical Journal</i> , <b>2010</b> , 98, 1902-10	2.9	41
1673	Simple dark-field microscopy with nanometer spatial precision and microsecond temporal resolution. <i>Biophysical Journal</i> , <b>2010</b> , 98, 2014-23	2.9	127
1672	Superresolution localization of single functional IP3R channels utilizing Ca2+ flux as a readout. Biophysical Journal, 2010, 99, 437-46	2.9	33
1671	Defining the limits of single-molecule FRET resolution in TIRF microscopy. <i>Biophysical Journal</i> , <b>2010</b> , 99, 3102-11	2.9	129
1670	Improved hidden Markov models for molecular motors, part 1: basic theory. <i>Biophysical Journal</i> , <b>2010</b> , 99, 3684-95	2.9	29
1669	Surfing on a new wave of single-molecule fluorescence methods. <b>2010</b> , 7, 031001		68
1668	Studies of Single Molecules in their Natural Form. <b>2010</b> , 49, 283-291		3
1667	Fast molecular tracking maps nanoscale dynamics of plasma membrane lipids. <b>2010</b> , 107, 6829-34		148
1666	Positioning and immobilization of individual quantum dots with nanoscale precision. <b>2010</b> , 10, 4673-9		26
1665	Manipulating quantum dots to nanometer precision by control of flow. <b>2010</b> , 10, 2525-30		37
1664	Fifteen-piconewton force detection from neural growth cones using nanowire arrays. <b>2010</b> , 10, 782-7		98
1663	Insights from a nanoparticle minuet: two-dimensional membrane profiling through silver plasmon ruler tracking. <b>2010</b> , 10, 230-8		42
1662	Super-resolution optical imaging of single-molecule SERS hot spots. <b>2010</b> , 10, 3777-84		262
1661	Statistics of camera-based single-particle tracking. <b>2010</b> , 82, 011917		148
1660	Resolving single-molecule assembled patterns with superresolution blink-microscopy. <b>2010</b> , 10, 645-51		68
1659	A sensitive and versatile laser scanning confocal optical microscope for single-molecule fluorescence at 77 K. <b>2010</b> , 81, 113705		12

## (2010-2010)

1658	Localizing and tracking single nanoscale emitters in three dimensions with high spatiotemporal resolution using a double-helix point spread function. <b>2010</b> , 10, 211-8	127
1657	Single-molecule and superresolution imaging in live bacteria cells. <b>2010</b> , 2, a000448	41
1656	Metabolic cycling in single yeast cells from unsynchronized steady-state populations limited on glucose or phosphate. <b>2010</b> , 107, 6946-51	76
1655	Azido push-pull fluorogens photoactivate to produce bright fluorescent labels. <b>2010</b> , 114, 14157-67	80
1654	Superresolution imaging using single-molecule localization. <b>2010</b> , 61, 345-67	439
1653	Photoactivated localization microscopy (PALM): an optical technique for achieving ~10-nm resolution. <b>2010</b> , 2010, pdb.top91	9
1652	Precision analysis for standard deviation measurements of immobile single fluorescent molecule images. <i>Optics Express</i> , <b>2010</b> , 18, 6563-76	19
1651	Ultra-fast, high-precision image analysis for localization-based super resolution microscopy. <i>Optics Express</i> , <b>2010</b> , 18, 11867-76	68
1650	Single-image separation measurements of two unresolved fluorophores. <i>Optics Express</i> , <b>2010</b> , 18, 16628 <sub>3</sub> 39	8
1649	Accuracy of the gaussian point spread function model in 2D localization microscopy. <i>Optics Express</i> , <b>2010</b> , 18, 24461-76	139
1648	Performance limits on three-dimensional particle localization in photon-limited microscopy. <b>2010</b> , 35, 3306-8	34
1647	Imaging single molecules using total internal reflection fluorescence microscopy (TIRFM). <b>2010</b> , 2010, pdb.top73	21
1646	Uncovering chromatin@ contribution to the mitotic spindle: Applications of computational and polymer models. <b>2010</b> , 92, 1741-8	3
1645	Dynamics of lipid droplets induced by the hepatitis C virus core protein. <b>2010</b> , 399, 518-24	40
1644	Switch between large hand-over-hand and small inchworm-like steps in myosin VI. <b>2010</b> , 142, 879-88	59
1643	Breaking the diffraction barrier: super-resolution imaging of cells. <b>2010</b> , 143, 1047-58	864
1642	Single-molecule discrimination of discrete perisynaptic and distributed sites of actin filament assembly within dendritic spines. <b>2010</b> , 67, 86-99	221
1641	Spiropyrans as molecular optical switches. <b>2010</b> , 9, 213-20	61

1640	DNA in nanochannelsdirectly visualizing genomic information. <b>2010</b> , 39, 985-99	131
1639	Superresolution imaging of targeted proteins in fixed and living cells using photoactivatable organic fluorophores. <b>2010</b> , 132, 15099-101	148
1638	Fast, single-molecule localization that achieves theoretically minimum uncertainty. <b>2010</b> , 7, 373-5	360
1637	Super-accuracy and super-resolution getting around the diffraction limit. <b>2010</b> , 475, 1-26	15
1636	Molecules and methods for super-resolution imaging. <b>2010</b> , 475, 27-59	44
1635	A bird@ eye view tracking slow nanometer-scale movements of single molecular nano-assemblies. <b>2010</b> , 475, 121-48	27
1634	Single-particle tracking photoactivated localization microscopy for mapping single-molecule dynamics. <b>2010</b> , 475, 109-20	50
1633	Single mRNA tracking in live cells. <b>2010</b> , 472, 387-406	54
1632	Single Molecule Spectroscopy in Chemistry, Physics and Biology. <b>2010</b> ,	22
1631	Visualizing DNA replication at the single-molecule level. <b>2010</b> , 475, 259-78	33
	Visualizing DNA replication at the single-molecule level. <b>2010</b> , 475, 259-78  Single-molecule fluorescence imaging of nanocatalytic processes. <b>2010</b> , 39, 4560-70	33 121
1630		
1630	Single-molecule fluorescence imaging of nanocatalytic processes. <b>2010</b> , 39, 4560-70	121
1630 1629	Single-molecule fluorescence imaging of nanocatalytic processes. <b>2010</b> , 39, 4560-70  Single-molecule nanoscale electrocatalysis. <b>2010</b> , 12, 6555-63  Note: Interference technique for minimally invasive, subnanometer, microsecond measurements of	121
1630 1629 1628	Single-molecule fluorescence imaging of nanocatalytic processes. <b>2010</b> , 39, 4560-70  Single-molecule nanoscale electrocatalysis. <b>2010</b> , 12, 6555-63  Note: Interference technique for minimally invasive, subnanometer, microsecond measurements of displacements. <b>2010</b> , 81, 016103  Combining optical trapping, fluorescence microscopy and micro-fluidics for single molecule studies	34
1630 1629 1628 1627	Single-molecule fluorescence imaging of nanocatalytic processes. 2010, 39, 4560-70  Single-molecule nanoscale electrocatalysis. 2010, 12, 6555-63  Note: Interference technique for minimally invasive, subnanometer, microsecond measurements of displacements. 2010, 81, 016103  Combining optical trapping, fluorescence microscopy and micro-fluidics for single molecule studies of DNA-protein interactions. 2011, 13, 7263-72  Trajectory angle determination in one dimensional single molecule tracking data by orthogonal	121 34 65
1630 1629 1628 1627	Single-molecule fluorescence imaging of nanocatalytic processes. 2010, 39, 4560-70  Single-molecule nanoscale electrocatalysis. 2010, 12, 6555-63  Note: Interference technique for minimally invasive, subnanometer, microsecond measurements of displacements. 2010, 81, 016103  Combining optical trapping, fluorescence microscopy and micro-fluidics for single molecule studies of DNA-protein interactions. 2011, 13, 7263-72  Trajectory angle determination in one dimensional single molecule tracking data by orthogonal regression analysis. 2011, 13, 1827-35	<ul><li>121</li><li>34</li><li>65</li><li>35</li></ul>

1622	Molecular weight dependence of emission intensity and emitting sites distribution within single conjugated polymer molecules. <b>2011</b> , 13, 1743-53		55	
1621	Super-resolution fluorescence nanoscopy applied to imaging core-shell photoswitching nanoparticles and their self-assemblies. <b>2011</b> , 47, 1258-60		48	
1620	3-Dimensional electrokinetic tweezing for micro and nano assembly. <b>2011</b> ,			
1619	Molecular strategies to read and write at the nanoscale with far-field optics. <b>2011</b> , 3, 59-70		26	
1618	3-dimensional electrokinetic tweezing. <b>2011</b> ,			
1617	Selective nano-assembly of single quantum dots on a two dimensional surface. <b>2011</b> ,			
1616	Quantitative fluorescence microscopy to determine molecular occupancy of phospholipid vesicles. <b>2011</b> , 83, 5128-36		13	
1615	Single myosin cross-bridge orientation in cardiac papillary muscle detects lever-arm shear strain in transduction. <b>2011</b> , 50, 7809-21		16	
1614	Two-photon 3D FIONA of individual quantum dots in an aqueous environment. <b>2011</b> , 11, 4074-8		36	
1613	In situ measurements of the formation and morphology of intracellular hamyloid fibrils by super-resolution fluorescence imaging. <b>2011</b> , 133, 12902-5		129	
1612	Response to Kang etlal. <i>Biophysical Journal</i> , <b>2011</b> , 100, 793-794	2.9		
1611	Analysis of molecular diffusion by first-passage time variance identifies the size of confinement zones. <i>Biophysical Journal</i> , <b>2011</b> , 100, 1463-72	2.9	15	
1610	Super-resolution imaging of the nucleoid-associated protein HU in Caulobacter crescentus. <i>Biophysical Journal</i> , <b>2011</b> , 100, L31-3	2.9	75	
1609	Tracking single particles and elongated filaments with nanometer precision. <i>Biophysical Journal</i> , <b>2011</b> , 100, 2820-8	2.9	186	
1608	Steps and bumps: precision extraction of discrete states of molecular machines. <i>Biophysical Journal</i> , <b>2011</b> , 101, 477-85	2.9	26	
1607	Interactive, computer-assisted tracking of speckle trajectories in fluorescence microscopy: application to actin polymerization and membrane fusion. <i>Biophysical Journal</i> , <b>2011</b> , 101, 1794-804	2.9	68	
1606	Fluorescence imaging with one nanometer accuracy: in vitro and in vivo studies of molecular motors. <i>Methods in Molecular Biology</i> , <b>2011</b> , 778, 33-56	1.4	12	
1605	Chemically induced photoswitching of fluorescent probesa general concept for super-resolution		83	

1604	Localization imaging using blinking quantum dots. <b>2011</b> , 136, 1608-13		39
1603	Tracking Nanometer-Scale Fluorescent Particles in Two Dimensions With a Confocal Microscope. <b>2011</b> , 19, 1269-1278		17
1602	Limit of the Accuracy of Parameter Estimation for Moving Single Molecules Imaged by Fluorescence Microscopy. <b>2011</b> , 59, 895-911		25
1601	3D nanometer images of biological fibers by directed motion of gold nanoparticles. <b>2011</b> , 11, 4656-60		12
1600	A brief introduction to single-molecule fluorescence methods. <i>Methods in Molecular Biology</i> , <b>2011</b> , 783, 81-99	1.4	12
1599	DNA Recombination. <i>Methods in Molecular Biology</i> , <b>2011</b> ,	1.4	
1598	Nonperturbative visualization of nanoscale plasmonic field distributions via photon localization microscopy. <b>2011</b> , 106, 037402		36
1597	Optical Fluorescence Microscopy. <b>2011</b> ,		8
1596	Single Molecule Enzymology. <i>Methods in Molecular Biology</i> , <b>2011</b> ,	1.4	3
1595	Detection of single molecules illuminated by a light-emitting diode. <b>2011</b> , 11, 905-16		15
1595 1594	Detection of single molecules illuminated by a light-emitting diode. <b>2011</b> , 11, 905-16  Single-molecule-based super-resolution images in the presence of multiple fluorophores. <b>2011</b> , 11, 509	0-6	15 72
1594		0-6	· .
1594	Single-molecule-based super-resolution images in the presence of multiple fluorophores. <b>2011</b> , 11, 509	0-6	72
1594 1593	Single-molecule-based super-resolution images in the presence of multiple fluorophores. <b>2011</b> , 11, 509  Quantum dot blueing and blinking enables fluorescence nanoscopy. <b>2011</b> , 11, 245-50		7 <sup>2</sup> 8 <sub>4</sub>
1594 1593 1592	Single-molecule-based super-resolution images in the presence of multiple fluorophores. <b>2011</b> , 11, 509  Quantum dot blueing and blinking enables fluorescence nanoscopy. <b>2011</b> , 11, 245-50  Single Molecule Analysis. <i>Methods in Molecular Biology</i> , <b>2011</b> ,  Three-dimensional electrokinetic tweezing: device design, modeling, and control algorithms. <b>2011</b> ,		7 <sup>2</sup> 8 <sub>4</sub>
1594 1593 1592 1591	Single-molecule-based super-resolution images in the presence of multiple fluorophores. 2011, 11, 509  Quantum dot blueing and blinking enables fluorescence nanoscopy. 2011, 11, 245-50  Single Molecule Analysis. <i>Methods in Molecular Biology</i> , 2011,  Three-dimensional electrokinetic tweezing: device design, modeling, and control algorithms. 2011, 21, 027004  Single molecule experimentation in biological physics: exploring the living component of soft		7 <sup>2</sup> 8 <sub>4</sub> 10
1594 1593 1592 1591 1590	Single-molecule-based super-resolution images in the presence of multiple fluorophores. 2011, 11, 509  Quantum dot blueing and blinking enables fluorescence nanoscopy. 2011, 11, 245-50  Single Molecule Analysis. <i>Methods in Molecular Biology</i> , 2011,  Three-dimensional electrokinetic tweezing: device design, modeling, and control algorithms. 2011, 21, 027004  Single molecule experimentation in biological physics: exploring the living component of soft condensed matter one molecule at a time. 2011, 23, 503101		72 84 10 18

1586	Shot noise limited characterization of ultraweak femtosecond pulse trains. <i>Optics Express</i> , <b>2011</b> , 19, 679-36	2
1585	Simultaneous multi-lifetime multi-color STED imaging for colocalization analyses. <i>Optics Express</i> , <b>2011</b> , 19, 3130-43	177
1584	Minimizing detection errors in single molecule localization microscopy. <i>Optics Express</i> , <b>2011</b> , 19, 3226-35 <sub>3.3</sub>	36
1583	Measuring localization performance of super-resolution algorithms on very active samples. <i>Optics Express</i> , <b>2011</b> , 19, 7020-33	66
1582	High-density localization of active molecules using Structured Sparse Model and Bayesian Information Criterion. <i>Optics Express</i> , <b>2011</b> , 19, 16963-74	63
1581	Resolution enhancement of random adsorbed single-molecule localization based on surface plasmon resonance illumination. <b>2011</b> , 36, 4242-4	4
1580	Fast Fourier domain localization algorithm of a single molecule with nanometer precision. <b>2011</b> , 36, 4317-9	22
1579	Probing Structure and Dynamics of the Cell Membrane with Single Fluorescent Proteins. <b>2011</b> , 185-212	2
1578	A fluorescent GTP analog as a specific, high-precision label of microtubules. <b>2011</b> , 51, 43-8	8
1577	Biological Imaging by Superresolution Light Microscopy. <b>2011</b> , 579-589	
1576	Single molecule fluorescence image patterns linked to dipole orientation and axial position: application to myosin cross-bridges in muscle fibers. <b>2011</b> , 6, e16772	14
1575	Spatial association of signaling proteins and F-actin effects on cluster assembly analyzed via photoactivation localization microscopy in T cells. <b>2011</b> , 6, e23586	22
1574	What can we learn from single molecule trajectories?. <b>2011</b> , 12, 714-24	8
1573	Flux Control Analysis and Stoichiometric Network Modeling: Basic Principles and Industrial Applications. <b>2011</b> , 185-220	6
1572	Single-molecule Photoswitching and Localization. <b>2011</b> , 64, 503	18
1571	Inside the microcluster: antigen receptor signalling viewed with molecular imaging tools. <b>2011</b> , 133, 271-7	5
1570	Photon event distribution sampling: an image formation technique for scanning microscopes that permits tracking of sub-diffraction particles with high spatial and temporal resolutions. <b>2011</b> , 241, 54-68	4
1569	MicrobeTracker: quantitative image analysis designed for the smallest organisms. <b>2011</b> , 80, 577-9	11

1568	A mixture model for quantum dot images of kinesin motor assays. <b>2011</b> , 67, 588-95	1
1567	Protein localization in electron micrographs using fluorescence nanoscopy. <b>2011</b> , 8, 80-4	302
1566	A transgenic mouse for in vivo detection of endogenous labeled mRNA. <b>2011</b> , 8, 165-70	268
1565	Validating transcripts with probes and imaging technology. <b>2011</b> , 8, S12-9	170
1564	Fast, three-dimensional super-resolution imaging of live cells. <b>2011</b> , 8, 499-508	585
1563	Moving into the cell: single-molecule studies of molecular motors in complex environments. <b>2011</b> , 12, 163-76	131
1562	Transcription of functionally related constitutive genes is not coordinated. <b>2011</b> , 18, 27-34	86
1561	Lighting up the nuclear pore complex. <b>2011</b> , 90, 751-8	13
1560	Super-resolution fluorescence microscopy as a tool to study the nanoscale organization of chromosomes. <b>2011</b> , 15, 838-44	41
1559	A starter kit for point-localization super-resolution imaging. <b>2011</b> , 15, 813-21	18
1558	Switchable fluorophores for protein labeling in living cells. <b>2011</b> , 15, 768-74	30
1558 1557	Switchable fluorophores for protein labeling in living cells. <b>2011</b> , 15, 768-74  Evaluation of fluorophores for optimal performance in localization-based super-resolution imaging. <b>2011</b> , 8, 1027-36	30 925
	Evaluation of fluorophores for optimal performance in localization-based super-resolution imaging.	
1557	Evaluation of fluorophores for optimal performance in localization-based super-resolution imaging. <b>2011</b> , 8, 1027-36	925
1557 1556	Evaluation of fluorophores for optimal performance in localization-based super-resolution imaging. 2011, 8, 1027-36  Central dogma at the single-molecule level in living cells. 2011, 475, 308-15	925 316
1557 1556 1555	Evaluation of fluorophores for optimal performance in localization-based super-resolution imaging. 2011, 8, 1027-36  Central dogma at the single-molecule level in living cells. 2011, 475, 308-15  Direct stochastic optical reconstruction microscopy with standard fluorescent probes. 2011, 6, 991-1009  A perspective of the dynamic structure of the nucleus explored at the single-molecule level. 2011,	925 316 690
1557 1556 1555 1554	Evaluation of fluorophores for optimal performance in localization-based super-resolution imaging.  2011, 8, 1027-36  Central dogma at the single-molecule level in living cells. 2011, 475, 308-15  Direct stochastic optical reconstruction microscopy with standard fluorescent probes. 2011, 6, 991-1009  A perspective of the dynamic structure of the nucleus explored at the single-molecule level. 2011, 19, 117-29  Combining FISH with localisation microscopy: Super-resolution imaging of nuclear genome	925 316 690

Hacking the optical diffraction limit: Review on recent developments of fluorescence nanoscopy. <b>2011</b> , 56, 1857-1876	16
1549 Super-resolution microscopy for nanosensing. <b>2011</b> , 3, 247-55	4
1548 Super-Resolution Fluorescence Imaging. <b>2011</b> , 219-240	
1547 Facilitated intracellular transport of TrkA by an interaction with nerve growth factor. <b>2011</b> , 71, 634-49	8
1546 HochauflBende Mikroskopie mit reversiblen chemischen Reaktionen. <b>2011</b> , 123, 2996-3001	4
Long-Term Real-Time Tracking of Lanthanide Ion Doped Upconverting Nanoparticles in Living Cells.  2011, 123, 6217-6221	49
1544 Far-field nanoscopy with reversible chemical reactions. <b>2011</b> , 50, 2940-5	41
Long-term real-time tracking of lanthanide ion doped upconverting nanoparticles in living cells. <b>2011</b> , 50, 6093-7	200
Bead size effects on protein-mediated DNA looping in tethered-particle motion experiments. <b>2011</b> , 95, 144-50	13
DNA and chromatin imaging with super-resolution fluorescence microscopy based on single-molecule localization. <b>2011</b> , 95, 290-7	50
1540 Optical mapping of DNA: single-molecule-based methods for mapping genomes. <b>2011</b> , 95, 298-311	81
1539 Moving toward the future of single-molecule-based super-resolution imaging. <b>2011</b> , 95, 287-9	4
Bleaching/blinking assisted localization microscopy for superresolution imaging using standard fluorescent molecules. <b>2011</b> , 108, 21081-6	160
1537 3-D tracking of fluorescent nanoparticles in a confocal microscope. <b>2011</b> ,	3
Coupled, circumferential motions of the cell wall synthesis machinery and MreB filaments in B. subtilis. <b>2011</b> , 333, 222-5	406
1535 Probes for Nanoscopy: Fluorescent Proteins. <b>2011</b> , 111-158	3
The 64th Symposium of the Society for General Physiologists: optogenetics and superresolution microscopy take center stage. <b>2011</b> , 138, 1-11	2
1533 Super-resolution microscopy at a glance. <b>2011</b> , 124, 1607-11	180

1532	Controlling transfer of quantum correlations among bi-partitions of a composite quantum system by combining different noisy environments. <b>2011</b> , 20, 110302	3
1531	STED Super-resolution Microscopy in Tissue and in Mammalian Cells. <b>2011</b> , 7910,	6
1530	Photoactivation and imaging of optical highlighter fluorescent proteins. <b>2011</b> , Chapter 12, Unit 12.23	8
1529	Cotranscriptional effect of a premature termination codon revealed by live-cell imaging. <b>2011</b> , 17, 2094-107	39
1528	Optical tweezers setup with optical height detection and active height regulation under white light illumination. <b>2011</b> , 13, 115302	6
1527	Critical current density enhancement in strongly reactiveex situMgB2bulk and tapes prepared by high energy milling. <b>2011</b> , 24, 075011	31
1526	Cortactin phosphorylation regulates cell invasion through a pH-dependent pathway. <b>2011</b> , 195, 903-20	164
1525	Targeting and imaging single biomolecules in living cells by complementation-activated light microscopy with split-fluorescent proteins. <b>2011</b> , 108, E201-10	56
1524	Enhancing single molecule imaging in optofluidics and microfluidics. <b>2011</b> , 12, 5135-56	18
1523	Live-cell imaging of clathrin coats. <b>2012</b> , 505, 59-80	11
1523 1522	Live-cell imaging of clathrin coats. <b>2012</b> , 505, 59-80  Probes for Nanoscopy: Photoswitchable Fluorophores. <b>2012</b> , 189-213	4
1522	Probes for Nanoscopy: Photoswitchable Fluorophores. <b>2012</b> , 189-213  Characterization of dynamic actin associations with T-cell receptor microclusters in primary T cells.	4
1522 1521	Probes for Nanoscopy: Photoswitchable Fluorophores. <b>2012</b> , 189-213  Characterization of dynamic actin associations with T-cell receptor microclusters in primary T cells. <b>2012</b> , 125, 735-42	47
1522 1521 1520 1519	Probes for Nanoscopy: Photoswitchable Fluorophores. <b>2012</b> , 189-213  Characterization of dynamic actin associations with T-cell receptor microclusters in primary T cells. <b>2012</b> , 125, 735-42  Nanoscale studies of plasmonic hot spots using super-resolution optical imaging. <b>2012</b> , 37, 745-751	47
1522 1521 1520 1519	Probes for Nanoscopy: Photoswitchable Fluorophores. 2012, 189-213  Characterization of dynamic actin associations with T-cell receptor microclusters in primary T cells. 2012, 125, 735-42  Nanoscale studies of plasmonic hot spots using super-resolution optical imaging. 2012, 37, 745-751  Optimization of precision localization microscopy using CMOS camera technology. 2012,	4 47 14 4
1522 1521 1520 1519	Probes for Nanoscopy: Photoswitchable Fluorophores. 2012, 189-213  Characterization of dynamic actin associations with T-cell receptor microclusters in primary T cells. 2012, 125, 735-42  Nanoscale studies of plasmonic hot spots using super-resolution optical imaging. 2012, 37, 745-751  Optimization of precision localization microscopy using CMOS camera technology. 2012,  Wavelet analysis for single molecule localization microscopy. Optics Express, 2012, 20, 2081-95  3-3  Localizer: fast, accurate, open-source, and modular software package for superresolution	4 47 14 4

1514	Fast maximum likelihood algorithm for localization of fluorescent molecules. <b>2012</b> , 37, 413-5		20
1513	Single-Molecule Photocontrol and Nanoscopy. <b>2012</b> , 87-110		
1512	Far-Field Nanoscopy with Conventional Fluorophores: Photostability, Photophysics, and Transient Binding. <b>2012</b> , 215-242		2
1511	PSF shaping using adaptive optics for three-dimensional single-molecule super-resolution imaging and tracking. <i>Optics Express</i> , <b>2012</b> , 20, 4957-67	3.3	109
1510	Drift estimation for single marker switching based imaging schemes. <i>Optics Express</i> , <b>2012</b> , 20, 7274-89	3.3	41
1509	Using fixed fiduciary markers for stage drift correction. <i>Optics Express</i> , <b>2012</b> , 20, 12177-83	3.3	61
1508	Optimal laser scan path for localizing a fluorescent particle in two or three dimensions. <i>Optics Express</i> , <b>2012</b> , 20, 16381	3.3	4
1507	Localization-based super-resolution microscopy with an sCMOS camera part II: experimental methodology for comparing sCMOS with EMCCD cameras. <i>Optics Express</i> , <b>2012</b> , 20, 17741-59	3.3	56
1506	Maximum precision closed-form solution for localizing diffraction-limited spots in noisy images. <i>Optics Express</i> , <b>2012</b> , 20, 18478-93	3.3	5
1505	New error bounds for M-testing and estimation of source location with subdiffractive error. <b>2012</b> , 29, 354-66		2
1504	Single-image axial localization precision analysis for individual fluorophores. <i>Optics Express</i> , <b>2012</b> , 20, 3057-65	3.3	11
1503	Validation of a nonlinear reactive control law for three-dimensional particle tracking in confocal microscopy. <b>2012</b> ,		2
1502	The double-helix microscope super-resolves extended biological structures by localizing single blinking molecules in three dimensions with nanoscale precision. <b>2012</b> , 100, 153701-1537013		38
1501	Polarization-controlled photoswitching resolves dipole directions with subwavelength resolution. <b>2012</b> , 109, 248101		6
1500	Feedback Control of MEMS to Atoms. <b>2012</b> ,		О
1499	3D Tracking of the Brownian Motion of Polystyrene Beads with DHM. <b>2012</b> ,		
1498	The effect of background on localization uncertainty in single emitter imaging. 2012,		12
1497	Fluorescence microscopy for simultaneous observation of 3D orientation and movement and its application to quantum rod-tagged myosin V. <b>2012</b> , 109, 5294-8		63

Optimal 3D single-molecule super-resolution microscopy with engineered point spread functions. **2012**,

1495	IMPROVED VARIABLE STAR SEARCH IN LARGE PHOTOMETRIC DATA SETS: NEW VARIABLES INCOROTFIELD LRa02 DETECTED BY BEST II. <b>2012</b> , 143, 140		18
1494	Localization accuracy in single molecule microscopy using electron-multiplying charge-coupled device cameras. <b>2012</b> , 8227,		4
1493	Optimal acquisition schemes for superresolution localization microscopy of bleachable fluorophores. <b>2012</b> ,		
1492	Single-Molecule Fluorescence Spectroscopy: The Ultimate Limit of Analytical Chemistry in the Condensed Phase. <b>2012</b> , 711-735		1
1491	A multi-walled carbon nanotube cantilever for interaction force sensing in liquid. <b>2012</b> , 2, 012144		2
1490	Resolution and localization. 86-130		1
1489	Distinguishing positional uncertainty from true mobility in single-molecule trajectories that exhibit multiple diffusive modes. <b>2012</b> , 18, 793-7		9
1488	Video-based tracking of single molecules exhibiting directed in-frame motion. <b>2012</b> , 18, 781-92		2
1487	- Location and Biomarker Characterization of Circulating Tumor Cells. <b>2012</b> , 282-299		
1486	Counting single photoactivatable fluorescent molecules by photoactivated localization microscopy (PALM). <b>2012</b> , 109, 17436-41		250
1485	Single-mRNA counting using fluorescent in situ hybridization in budding yeast. <b>2012</b> , 7, 408-19		86
1484	Probing local electromagnetic field enhancements on the surface of plasmonic nanoparticles. <b>2012</b> , 87, 209-220		13
1483	Single-molecule super-resolution imaging in bacteria. <b>2012</b> , 15, 758-63		25
1482	Super-resolution SERS imaging beyond the single-molecule limit: an isotope-edited approach. <b>2012</b> , 12, 5103-10		62
1481	Shedding Light on Surface-Enhanced Raman Scattering Hot Spots through Single-Molecule Super-Resolution Imaging. <b>2012</b> , 3, 1286-94		76
1480	Single-molecule tracking of carbohydrate-binding modules on cellulose using fluorescence microscopy. <i>Methods in Molecular Biology</i> , <b>2012</b> , 908, 129-40	1.4	1
1479	Imaging nanometre-scale structure in cells using in situ aberration correction. <b>2012</b> , 248, 90-101		4

1478	Optimal 3D single-molecule localization for superresolution microscopy with aberrations and engineered point spread functions. <b>2012</b> , 109, 675-9		99
1477	STED microscopy with optimized labeling density reveals 9-fold arrangement of a centriole protein.  Biophysical Journal, <b>2012</b> , 102, 2926-35	9	81
1476	Visualizing cell structure and function with point-localization superresolution imaging. <b>2012</b> , 23, 1092-102	) -	82
1475	Development in the STORM. <b>2012</b> , 23, 1103-10		43
1474	Wanted: a positive control for anomalous subdiffusion. <i>Biophysical Journal</i> , <b>2012</b> , 103, 2411-22 2.	9	89
1473	Motor transport of self-assembled cargos in crowded environments. <b>2012</b> , 109, 20814-9		55
1472	Fluorescence fluctuation spectroscopy enables quantitative imaging of single mRNAs in living cells.  Biophysical Journal, 2012, 102, 2936-44	9	133
1471	Interferometric scattering microscopy (iSCAT): new frontiers in ultrafast and ultrasensitive optical microscopy. <b>2012</b> , 14, 15625-36		179
1470	Towards automatic reconstruction of axonal structures in volumetric microscopy images depicting only active synapses. <b>2012</b> ,		
1469	On axis holography by random particles encoding. <b>2012</b> ,		
1468	Rational design of ZnSalen as a single and two photon activatable fluorophore in living cells. <b>2012</b> , 3, 3315		54
1467	Using the dynamics of fluorescent cations to probe and map charged surfaces. <b>2012</b> , 8, 12017		6
1466	Far-field photostable optical nanoscopy (PHOTON) for real-time super-resolution single-molecular imaging of signaling pathways of single live cells. <b>2012</b> , 4, 2797-812		32
1465	Nuclear export of single native mRNA molecules observed by light sheet fluorescence microscopy. <b>2012</b> , 109, 9426-31		99
1464	A Practical Guide to dSTORM: Super-Resolution Imaging with Standard Fluorescent Probes. <b>2012</b> , 65-84		0
1463	Photoactivatable Fluorophores for Super-Resolution Imaging Based on Oxazine Auxochromes. <b>2012</b> , 116, 6058-6068		111
1462	Super-resolution optical measurement of nanoscale photoacid distribution in lithographic materials. <b>2012</b> , 6, 9496-502		16
1461	Measuring single-walled carbon nanotube length distributions from diffusional trajectories. <b>2012</b> , 6, 8424-31		44

1460	Three-dimensional super-localization and tracking of single gold nanoparticles in cells. <b>2012</b> , 84, 4111-7	49
1459	Dynein achieves processive motion using both stochastic and coordinated stepping. <b>2012</b> , 19, 193-200	159
1458	Single-Molecule Tracking Studies of Millimeter-Scale Cylindrical Domain Alignment in Polystyrene <b>P</b> oly(ethylene oxide) Diblock Copolymer Films Induced by Solvent Vapor Penetration. <b>2012</b> , 3, 1968-1973	31
1457	Quantitative Measurements of the Size Scaling of Linear and Circular DNA in Nanofluidic Slitlike Confinement. <b>2012</b> , 45, 1602-1611	29
1456	Live-cell super-resolution imaging with synthetic fluorophores. <b>2012</b> , 63, 519-40	218
1455	A unique series of reversibly switchable fluorescent proteins with beneficial properties for various applications. <b>2012</b> , 109, 4455-60	99
1454	Photophysics of fluorescent probes for single-molecule biophysics and super-resolution imaging. <b>2012</b> , 63, 595-617	481
1453	Optics Far Beyond the Diffraction Limit. <b>2012</b> , 1359-1397	13
1452	Colocalization of fluorescent probes: accurate and precise registration with nanometer resolution. <b>2012</b> , 2012, 141-9	21
1451	Intra-nuclear mobility and target search mechanisms of transcription factors: a single-molecule perspective on gene expression. <b>2012</b> , 1819, 482-93	33
1450	Blind assessment of localisation microscope image resolution. <b>2012</b> , 1, 12	29
1449	Finding, defining and breaking the diffraction barrier in microscopy la historical perspective. <b>2012</b> , 1, 8	28
1449	Finding, defining and breaking the diffraction barrier in microscopy historical perspective. 2012, 1, 8  Restricted diffusion of OXPHOS complexes in dynamic mitochondria delays their exchange between cristae and engenders a transitory mosaic distribution. 2013, 126, 103-16	28 97
	1, 8  Restricted diffusion of OXPHOS complexes in dynamic mitochondria delays their exchange	
1448	Restricted diffusion of OXPHOS complexes in dynamic mitochondria delays their exchange between cristae and engenders a transitory mosaic distribution. <b>2013</b> , 126, 103-16	97
1448	1, 8  Restricted diffusion of OXPHOS complexes in dynamic mitochondria delays their exchange between cristae and engenders a transitory mosaic distribution. 2013, 126, 103-16  Superresolution microscopy for microbiology. 2012, 14, 1808-18	97
1448 1447 1446	Restricted diffusion of OXPHOS complexes in dynamic mitochondria delays their exchange between cristae and engenders a transitory mosaic distribution. 2013, 126, 103-16  Superresolution microscopy for microbiology. 2012, 14, 1808-18  From microbes to numbers: extracting meaningful quantities from images. 2012, 14, 1828-35	97 93 8

1442 5.17 Single Molecule Measurements in Membranes. **2012**, 337-365

1441	Photoactivatable Synthetic Dyes for Fluorescence Imaging at the Nanoscale. <b>2012</b> , 3, 2379-85		59
1440	Super-Resolution Optical Microscopy. <b>2012</b> , 1		2
1439	Fluorescence Microscopy. <b>2012</b> , 327-348		1
1438	In vivo architecture and action of bacterial structural maintenance of chromosome proteins. <b>2012</b> , 338, 528-31		187
1437	A caged, localizable rhodamine derivative for superresolution microscopy. <b>2012</b> , 7, 289-93		63
1436	Adaptation at the output of the chemotaxis signalling pathway. <b>2012</b> , 484, 233-6		111
1435	Flow Control of Small Objects on Chip: Manipulating Live Cells, Quantum Dots, and Nanowires. <b>2012</b> , 32, 26-53		35
1434	Ensemble and single particle fluorimetric techniques in concerted action to study the diffusion and aggregation of the glycine receptor B isoforms in the cell plasma membrane. <b>2012</b> , 1818, 3131-40		25
1433	Super-resolution imaging of C-type lectin and influenza hemagglutinin nanodomains on plasma membranes using blink microscopy. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1534-42	2.9	37
1432	Analytical tools to distinguish the effects of localization error, confinement, and medium elasticity on the velocity autocorrelation function. <i>Biophysical Journal</i> , <b>2012</b> , 102, 2443-50	2.9	74
1431	Membrane cholesterol strongly influences confined diffusion of prestin. <i>Biophysical Journal</i> , <b>2012</b> , 103, 1627-36	2.9	14
1430	Video-rate confocal microscopy for single-molecule imaging in live cells and superresolution fluorescence imaging. <i>Biophysical Journal</i> , <b>2012</b> , 103, 1691-7	2.9	30
1429	Multiphoton Microscopy Advances Toward Super Resolution. <b>2012</b> , 121-140		1
1428	Superlocalization spectral imaging microscopy of a multicolor quantum dot complex. <b>2012</b> , 84, 1504-9		23
1427	Rapid, accurate particle tracking by calculation of radial symmetry centers. <b>2012</b> , 9, 724-6		252
1426	Near-Field Optical Nanoscopy of Biological Membranes. <b>2012</b> , 339-363		
1425	CHAPTER 2:Fluorophore Conjugates for Single Molecule Work. <b>2012</b> , 34-74		

1424	A cell biologist@guide to high resolution imaging. <b>2012</b> , 504, 29-55	19
1423	2.4 Super-Resolution Microscopy. <b>2012</b> , 39-58	O
1422	SIM and PALM as tools to study protein structural organization, numbers, interaction and dynamics. <b>2012</b> ,	
1421	STED-FCS Nanoscopy of Membrane Dynamics. <b>2012</b> , 291-309	9
1420	Local nucleosome dynamics facilitate chromatin accessibility in living mammalian cells. <b>2012</b> , 2, 1645-56	133
1419	Total internal reflection fluorescence microscopy imaging-guided confocal single-molecule fluorescence spectroscopy. <b>2012</b> , 83, 013110	9
1418	Optimal diffusion coefficient estimation in single-particle tracking. <b>2012</b> , 85, 061916	181
1417	Optical techniques for imaging membrane domains in live cells (live-cell palm of protein clustering). <b>2012</b> , 504, 221-35	21
1416	Visualizing cell architecture and molecular location using soft x-ray tomography and correlated cryo-light microscopy. <b>2012</b> , 63, 225-39	73
1415	Plasmonics: Metal-worthy methods and materials in nanophotonics. <b>2012</b> , 37, 717-724	58
1414	Nanoscale organization of mitochondrial microcompartments revealed by combining tracking and localization microscopy. <b>2012</b> , 12, 610-6	95
1413	Single-molecule studies of nucleocytoplasmic transport: from one dimension to three dimensions. <b>2012</b> , 4, 10-21	26
1412	Extending microscopic resolution with single-molecule imaging and active control. 2012, 41, 321-42	90
1411	2.13 The Basics and Potential of Single-Molecule Tracking in Cellular Biophysics. <b>2012</b> , 260-272	3
1410	Optimization of cell morphology measurement via single-molecule tracking PALM. <b>2012</b> , 7, e36751	19
1409	Analysis of the native structure, stability and aggregation of biotinylated human lysozyme. <b>2012</b> , 7, e50192	20
1408	mMaple: a photoconvertible fluorescent protein for use in multiple imaging modalities. <b>2012</b> , 7, e51314	98
1407	Accurate construction of photoactivated localization microscopy (PALM) images for quantitative measurements. <b>2012</b> , 7, e51725	42

1406	Nanoscale imaging in DNA nanotechnology. <b>2012</b> , 4, 66-81	17
1405	Simultaneous observation of the lever arm and head explains myosin VI dual function. <b>2012</b> , 8, 3035-40	12
1404	Rational design of true monomeric and bright photoactivatable fluorescent proteins. <b>2012</b> , 9, 727-9	317
1403	Fluorescence axial localization with nanometer accuracy and precision. <b>2012</b> , 12, 3731-5	12
1402	Spatial arrangement of an RNA zipcode identifies mRNAs under post-transcriptional control. <b>2012</b> , 26, 43-53	103
1401	Biomimetic Surface Engineering of Lanthanide-Doped Upconversion Nanoparticles as Versatile Bioprobes. <b>2012</b> , 124, 6225-6229	51
1400	Biomimetic surface engineering of lanthanide-doped upconversion nanoparticles as versatile bioprobes. <b>2012</b> , 51, 6121-5	220
1399	Visualizing and quantifying cell phenotype using soft X-ray tomography. <b>2012</b> , 34, 320-7	43
1398	Quantitative analysis of photoactivated localization microscopy (PALM) datasets using pair-correlation analysis. <b>2012</b> , 34, 396-405	51
1397	Three-dimensional super-resolution imaging of the midplane protein FtsZ in live Caulobacter crescentus cells using astigmatism. <b>2012</b> , 13, 1007-12	83
1396	Mapping of surface-enhanced fluorescence on metal nanoparticles using super-resolution photoactivation localization microscopy. <b>2012</b> , 13, 973-81	60
1395	Dynamic reconfiguration of long human genes during one transcription cycle. <b>2012</b> , 32, 2738-47	32
1394	Optical nanoscopy: from acquisition to analysis. <b>2012</b> , 14, 231-54	60
1393	Single-cell systems biology by super-resolution imaging and combinatorial labeling. <b>2012</b> , 9, 743-8	316
1392	Conformation and energy transfer in single conjugated polymers. <b>2012</b> , 45, 1992-2001	74
1391	Fisher information matrix for branching processes with application to electron-multiplying charge-coupled devices. <b>2012</b> , 23, 349-379	28
1390	Advances in light-based imaging of three-dimensional cellular ultrastructure. <b>2012</b> , 24, 125-33	26
1389	Microscopy beyond the diffraction limit using actively controlled single molecules. <b>2012</b> , 246, 213-20	88

1388	Optimal measurement constellation of the fluoroBancroft localization algorithm for position estimation in tracking confocal microscopy. <b>2012</b> , 22, 320-326		5
1387	A novel video-based microsphere localization algorithm for low contrast silica particles under white light illumination. <b>2012</b> , 50, 423-439		16
1386	ATP alters the diffusion mechanics of MutS on mismatched DNA. 2012, 20, 1264-1274		72
1385	Live-cell dSTORM of cellular DNA based on direct DNA labeling. <b>2012</b> , 13, 298-301		53
1384	The influence of movement on the localization precision of sub-resolution particles in fluorescence microscopy. <b>2012</b> , 5, 97-109		54
1383	Multicolor super-resolution fluorescence imaging via multi-parameter fluorophore detection. <b>2012</b> , 13, 99-107		107
1382	Simultaneous detection and localization of secondary ions and electrons from single large cluster impacts. <b>2013</b> , 45, 529		1
1381	Single-molecule localization microscopy-near-molecular spatial resolution in light microscopy with photoswitchable fluorophores. <b>2013</b> , 15, 14919-30		71
1380	Localization-based super-resolution imaging of cellular structures. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1046, 59-84	4	6
1379	Single-molecule nanometry for biological physics. <b>2013</b> , 76, 016601		31
1378	Surface plasmon delocalization in silver nanoparticle aggregates revealed by subdiffraction supercontinuum hot spots. <b>2013</b> , 3, 2090		36
1377	Tunable graphene-based SPR sensors. <b>2013</b> ,		1
1376	Four-dimensional spatial nanometry of single particles in living cells using polarized quantum rods.  Biophysical Journal, 2013, 105, 555-64	9	13
1375	Molecular Length Dependence of Single Molecule Wobbling within Surfactant- and Solvent-Filled Silica Mesopores. <b>2013</b> , 117, 15438-15446		18
1374	A novel method for automatic single molecule tracking of blinking molecules at low intensities. <b>2013</b> , 15, 6196-205		25
1373	Fabrication of nanoassemblies using flow control. <b>2013</b> , 13, 3936-41		5
1372	Ultrafast, accurate, and robust localization of anisotropic dipoles. <b>2013</b> , 4, 598-606		11
1371	STED nanoscopy combined with optical tweezers reveals protein dynamics on densely covered DNA. <b>2013</b> , 10, 910-6		147

## (2013-2013)

	fluorescent particles. <b>2013</b> , 139, 391-402		13
1369	Fluorescence nanoscopy. Methods and applications. <b>2013</b> , 6, 97-120		30
1368	Imaging cells at the nanoscale. <b>2013</b> , 45, 1669-78		21
1367	Measuring transcription dynamics in living cells using fluctuation analysis. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1042, 47-60	1.4	14
1366	Monitoring dynamic binding of chromatin proteins in vivo by single-molecule tracking. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1042, 117-37	1.4	26
1365	Fluorescent nanowire heterostructures as a versatile tool for biology applications. <b>2013</b> , 13, 4728-32		38
1364	New tools for investigating electromagnetic hot spots in single-molecule surface-enhanced Raman scattering. <b>2013</b> , 14, 3186-95		12
1363	Imaging Gene Expression. Methods in Molecular Biology, 2013,	1.4	О
1362	Asymmetric packaging of polymerases within vesicular stomatitis virus. 2013, 440, 271-6		12
1361	Monitoring actin cortex thickness in live cells. <i>Biophysical Journal</i> , <b>2013</b> , 105, 570-80	2.9	156
1360	Correlative microscopy methods that maximize specimen fidelity and data completeness, and improve molecular localization capabilities. <b>2013</b> , 184, 12-20		25
1360		2.9	
	improve molecular localization capabilities. <b>2013</b> , 184, 12-20  Long-lived intracellular single-molecule fluorescence using electroporated molecules. <i>Biophysical</i>	2.9	
1359	improve molecular localization capabilities. <b>2013</b> , 184, 12-20  Long-lived intracellular single-molecule fluorescence using electroporated molecules. <i>Biophysical Journal</i> , <b>2013</b> , 105, 2439-50  Stochastic optical reconstruction microscopy (STORM): a method for superresolution fluorescence	2.9	64
1359	<ul> <li>improve molecular localization capabilities. 2013, 184, 12-20</li> <li>Long-lived intracellular single-molecule fluorescence using electroporated molecules. <i>Biophysical Journal</i>, 2013, 105, 2439-50</li> <li>Stochastic optical reconstruction microscopy (STORM): a method for superresolution fluorescence imaging. 2013, 2013, 498-520</li> <li>3D super-resolution imaging with blinking quantum dots. 2013, 13, 5233-41</li> </ul>	2.9	64 58
1359 1358 1357	<ul> <li>improve molecular localization capabilities. 2013, 184, 12-20</li> <li>Long-lived intracellular single-molecule fluorescence using electroporated molecules. <i>Biophysical Journal</i>, 2013, 105, 2439-50</li> <li>Stochastic optical reconstruction microscopy (STORM): a method for superresolution fluorescence imaging. 2013, 2013, 498-520</li> <li>3D super-resolution imaging with blinking quantum dots. 2013, 13, 5233-41</li> </ul>	2.9	<ul><li>64</li><li>58</li><li>86</li></ul>
1359 1358 1357 1356	improve molecular localization capabilities. 2013, 184, 12-20  Long-lived intracellular single-molecule fluorescence using electroporated molecules. <i>Biophysical Journal</i> , 2013, 105, 2439-50  Stochastic optical reconstruction microscopy (STORM): a method for superresolution fluorescence imaging. 2013, 2013, 498-520  3D super-resolution imaging with blinking quantum dots. 2013, 13, 5233-41  Super-resolution mbPAINT for optical localization of single-stranded DNA. 2013, 5, 9338-43	2.9	<ul><li>64</li><li>58</li><li>86</li><li>38</li></ul>

1352	Extending single molecule fluorescence observation time by amplitude-modulated excitation. <b>2013</b> , 1, 037001-37001	11
1351	Biochemical and imaging methods to study receptor membrane organization and association with lipid rafts. <b>2013</b> , 117, 105-22	7
1350	Recent advances in super-resolution fluorescence imaging and its applications in biology. <b>2013</b> , 40, 583-95	41
1349	An imaging spectrometer based on high resolution microscopy of fluorescent aluminum oxide crystal detectors. <b>2013</b> , 56, 273-276	13
1348	Super-resolution imaging of PDMS nanochannels by single-molecule micelle-assisted blink microscopy. <b>2013</b> , 117, 4406-11	11
1347	Encyclopedia of Biophysics. <b>2013</b> , 2015-2015	
1346	Following Single Molecules to a Better Understanding of Self-Assembled One-Dimensional Nanostructures. <b>2013</b> , 4, 3095-3103	29
1345	References. <b>2013</b> , 1017-1094	
1344	Superresolution imaging with switchable fluorophores based on oxazine auxochromes. 2013, 89, 1391-8	21
1343	High-resolution three-dimensional mapping of mRNA export through the nuclear pore. <b>2013</b> , 4, 2414	84
1342	Ultrasensitive imaging in live cells using fluorescent quantum dots. <b>2013</b> , 2013,	2
1341	Super-Resolution 3D Reconstruction of Thick Biological Samples: A Computer Vision Perspective. <b>2013</b> ,	1
1340	Sub-picometer structural information of graphene hidden in a 50 pm resolved image. <b>2013</b> , 5, 8874-8	
1339	Image processing for super-resolution localization in fluorescence microscopy. 2013,	
1338	A critical survey of methods to detect plasma membrane rafts. <b>2013</b> , 368, 20120033	69
1337	Single-molecule analysis of gene expression using two-color RNA labeling in live yeast. <b>2013</b> , 10, 119-21	208
1336	Studying genomic processes at the single-molecule level: introducing the tools and applications. <b>2013</b> , 14, 9-22	65
1335	Ground state depletion microscopy for imaging interactions between gold nanowires and fluorophore-labeled ligands. <b>2013</b> , 15, 4136-45	27

1334	Super-resolution imaging by localization microscopy. <i>Methods in Molecular Biology</i> , <b>2013</b> , 950, 81-93 1.4	9
1333	Photoswitching-enabled novel optical imaging: innovative solutions for real-world challenges in fluorescence detections. <b>2013</b> , 46, 269-79	126
1332	Single cell optical imaging and spectroscopy. <i>Chemical Reviews</i> , <b>2013</b> , 113, 2469-527 68.1	207
1331	High-frequency promoter firing links THO complex function to heavy chromatin formation. <b>2013</b> , 5, 1082-94	13
1330	Superresolution imaging with standard fluorescent probes. <b>2013</b> , 60, 21.8.1-21.8.17	1
1329	Nonlinear cross-bridge elasticity and post-power-stroke events in fast skeletal muscle actomyosin. <i>Biophysical Journal</i> , <b>2013</b> , 105, 1871-81	24
1328	Investigating cellular structures at the nanoscale with organic fluorophores. <b>2013</b> , 20, 8-18	44
1327	Quantitative analysis of end-to-end distance of single polymer chain in ultra-thin film by super-resolution fluorescence imaging. <b>2013</b> , 419, 54-58	6
1326	Extracting the stepping dynamics of molecular motors in living cells from trajectories of single particles. <b>2013</b> , 65, 1-11	4
1325	Photoactivated Localization Microscopy (PALM) of adhesion complexes. <b>2013</b> , Chapter 4, Unit4.21	6
1324	Temporal and spatial characterization of nonsense-mediated mRNA decay. 2013, 27, 541-51	91
1323	Microspectroscopy reveals mechanisms of lymphocyte activation. <b>2013</b> , 5, 300-11	2
1322	Enzymatic activation of nitro-aryl fluorogens in live bacterial cells for enzymatic turnover-activated localization microscopy 2013, 42, 220-225	51
1321	Super-resolution imaging of interactions between molecules and plasmonic nanostructures. <b>2013</b> , 15, 5345-54	27
1320	Encyclopedia of Biophysics. <b>2013</b> , 1236-1236	
1319	Single-molecule imaging of transcription factor binding to DNA in live mammalian cells. <b>2013</b> , 10, 421-6	345
1318	Smaller, faster, brighter: advances in optical imaging of living plant cells. <b>2013</b> , 64, 351-75	44
1317	Dendrimer probes for enhanced photostability and localization in fluorescence imaging. <i>Biophysical Journal</i> , <b>2013</b> , 104, 1566-75	29

1316 Single-Molecule Microscopy in the Life Sciences. **2013**, 293-343

1315	Single-molecule catalysis mapping quantifies site-specific activity and uncovers radial activity gradient on single 2D nanocrystals. <b>2013</b> , 135, 1845-52	160
1314	Fluorescence microscopy-a historical and technical perspective. <b>2013</b> , 83, 767-79	51
1313	High-content super-resolution imaging of live cell by uPAINT. <i>Methods in Molecular Biology</i> , <b>2013</b> , 950, 95-110	29
1312	Encyclopedia of Biophysics. <b>2013</b> , 814-815	
1311	Encyclopedia of Biophysics. <b>2013</b> , 1286-1286	
1310	Encyclopedia of Biophysics. 2013, 1862-1862	
1309	The Qdot-labeled actin super-resolution motility assay measures low-duty cycle muscle myosin step size. <b>2013</b> , 52, 1611-21	25
1308	A random motility assay based on image correlation spectroscopy. <i>Biophysical Journal</i> , <b>2013</b> , 104, 2362-7229	2
1307	Encyclopedia of Biophysics. <b>2013</b> , 765-768	2
1306	Encyclopedia of Biophysics. 2013, 1225-1225	
1305	Promoter type influences transcriptional topography by targeting genes to distinct nucleoplasmic sites. <b>2013</b> , 126, 2052-9	11
1304	Encyclopedia of Biophysics. <b>2013</b> , 1912-1919	
1303	Measuring mRNA copy number in individual Escherichia coli cells using single-molecule fluorescent in situ hybridization. <b>2013</b> , 8, 1100-13	115
1302	Photoswitchable fluorophores for single-molecule localization microscopy. <i>Methods in Molecular Biology</i> , <b>2013</b> , 950, 131-51	7
1301	Scalable Parallel Screening of Catalyst Activity at the Single-Particle Level and Subdiffraction Resolution. <b>2013</b> , 3, 1448-1453	53
1300	Optical Methods to Study Protein-DNA Interactions in Vitro and in Living Cells at the Single-Molecule Level. <b>2013</b> , 14, 3961-92	32
1299	Plasmon-enhanced emission from single fluorescent proteins. 2013,	3

1298	Multiplex localization imaging and sub-diffraction limited measurement. <b>2013</b> , 60, 414-421	3
1297	Understanding super-resolution nanoscopy and its biological applications in cell imaging. <b>2013</b> , 15, 14856-61	5
1296	Quantifying spatial organization in point-localization superresolution images using pair correlation analysis. <b>2013</b> , 8, 345-54	102
1295	Photoswitching Emission with Rhodamine Spiroamides for Super-resolution Fluorescence nanoscopies. <b>2013</b> , 53, 267-279	14
1294	Parallel nanometric 3D tracking of intracellular gold nanorods using multifocal two-photon microscopy. <b>2013</b> , 13, 980-6	50
1293	Fast and efficient molecule detection in localization-based super-resolution microscopy by parallel adaptive histogram equalization. <b>2013</b> , 7, 5207-14	26
1292	Probing single-molecule fluorescence spectral modulation within individual hotspots with subdiffraction-limit image resolution. <b>2013</b> , 85, 3789-93	23
1291	Super-resolution microscopy of live cells using single molecule localization. <b>2013</b> , 58, 4519-4527	1
1290	Single Molecule Wobbling in Cylindrical Mesopores. <b>2013</b> , 117, 3668-3673	20
1289	Single-Molecule Tracking Photoactivated Localization Microscopy to Map Nano-Scale Structure and Dynamics in Living Spines. <b>2013</b> , 65, 2.20.1-2.20.19	5
1288	Improved analysis for determining diffusion coefficients from short, single-molecule trajectories with photoblinking. <b>2013</b> , 29, 228-34	23
1287	Quantifying transient 3D dynamical phenomena of single mRNA particles in live yeast cell measurements. <b>2013</b> , 117, 15701-13	15
1286	Frozen translational and rotational motion of human immunodeficiency virus transacting activator of transcription peptide-modified nanocargo on neutral lipid bilayer. <b>2013</b> , 85, 5169-75	16
1285	Single-particle tracking reveals switching of the HIV fusion peptide between two diffusive modes in membranes. <b>2013</b> , 117, 13308-21	26
1284	Wide-field multispectral super-resolution imaging using spin-dependent fluorescence in nanodiamonds. <b>2013</b> , 13, 2073-7	68
1283	Localization microscopy for the study of amyloid fibril formation. 2013,	2
1282	Two approximations for the geometric model of signal amplification in an electron-multiplying charge-coupled device detector. <b>2013</b> , 8589, 858905	4
1281	Measurement and modeling of transcriptional noise in the cell cycle regulatory network. <b>2013</b> , 12, 3203-18	12

1280	Short-time movement of E. coli chromosomal loci depends on coordinate and subcellular localization. <b>2013</b> , 4, 3003		84
1279	A sub wavelength localization scheme in optical imaging using conical diffraction. <i>Optics Express</i> , <b>2013</b> , 21, 10133-8	3.3	18
1278	Simple buffers for 3D STORM microscopy. <b>2013</b> , 4, 885-99		82
1277	Using a quartz paraboloid for versatile wide-field TIR microscopy with sub-nanometer localization accuracy. <i>Optics Express</i> , <b>2013</b> , 21, 3523-39	3.3	14
1276	Correcting chromatic offset in multicolor super-resolution localization microscopy. <i>Optics Express</i> , <b>2013</b> , 21, 10978-88	3.3	37
1275	Nanoscale optical properties of metal nanoparticles probed by Second Harmonic Generation microscopy. <i>Optics Express</i> , <b>2013</b> , 21, 12318-26	3.3	15
1274	Optimization of nonlinear optical localization using electromagnetic surface fields (NOLES) imaging. <b>2013</b> , 138, 214202		21
1273	Encyclopedia of Biophysics. <b>2013</b> , 1249-1250		O
1272	Spatial cluster analysis of nanoscopically mapped serotonin receptors for classification of fixed brain tissue. <b>2014</b> , 19, 011021		6
1271	Correlation of dual colour single particle trajectories for improved detection and analysis of interactions in living cells. <b>2013</b> , 14, 16485-514		12
1270	Transcription-factor-mediated DNA looping probed by high-resolution, single-molecule imaging in live E. coli cells. <b>2013</b> , 11, e1001591		44
1269	Quantified colocalization reveals heterotypic histocompatibility class I antigen associations on trophoblast cell membranes: relevance for human pregnancy. <b>2013</b> , 89, 94		9
1268	Localization microscopy coming of age: from concepts to biological impact. <b>2013</b> , 126, 3505-13		77
1267	Inferring diffusion in single live cells at the single-molecule level. <b>2013</b> , 368, 20120029		73
1266	Development of new photon-counting detectors for single-molecule fluorescence microscopy. <b>2013</b> , 368, 20120035		81
1265	Real-time single-molecule imaging reveals a direct interaction between UvrC and UvrB on DNA tightropes. <b>2013</b> , 41, 4901-12		39
1264	Dual-color 3D PALM/dSTORM imaging of centrosomal proteins using MicAO 3DSR. 2013,		7
1263	Aptamer-based single-molecule imaging of insulin receptors in living cells. <b>2014</b> , 19, 051204		9

1262	Space exploration by the promoter of a long human gene during one transcription cycle. <b>2013</b> , 41, 2216-27	21
1261	Fluorescent microscopy beyond diffraction limits using speckle illumination and joint support recovery. <b>2013</b> , 3, 2075	52
1260	Encyclopedia of Biophysics. <b>2013</b> , 779-784	
1259	The effects of uncertainty under a cap-and-trade policy on afforestation in the United States. <b>2013</b> , 8, 044020	11
1258	Single-molecule imaging can be achieved in live obligate anaerobic bacteria. 2013,	5
1257	Elements of image processing in localization microscopy. <b>2013</b> , 15, 094012	29
1256	Regular attractors and nonautonomous perturbations of them. <b>2013</b> , 204, 1-42	11
1255	Bleed-through correction for rendering and correlation analysis in multi-colour localization microscopy. <b>2013</b> , 15,	16
1254	Boundary conditions for metric fluctuations in Lifshitz. <b>2013</b> , 30, 195017	11
1253	Encyclopedia of Biophysics. <b>2013</b> , 1226-1233	
1253	Encyclopedia of Biophysics. 2013, 1226-1233  Ultrahigh-resolution imaging reveals formation of neuronal SNARE/Munc18 complexes in situ. 2013, 110, E2812-20	84
	Ultrahigh-resolution imaging reveals formation of neuronal SNARE/Munc18 complexes in situ. <b>2013</b>	23
1252	Ultrahigh-resolution imaging reveals formation of neuronal SNARE/Munc18 complexes in situ. <b>2013</b> , 110, E2812-20	,
1252	Ultrahigh-resolution imaging reveals formation of neuronal SNARE/Munc18 complexes in situ. 2013, 110, E2812-20  Distinct, but not completely separate spatial transport routes in the nuclear pore complex. 2013, 4, 166-75  Imaging the invisible: resolving cellular microcompartments by superresolution microscopy	23
1252 1251 1250 1249	Ultrahigh-resolution imaging reveals formation of neuronal SNARE/Munc18 complexes in situ. 2013, 110, E2812-20  Distinct, but not completely separate spatial transport routes in the nuclear pore complex. 2013, 4, 166-75  Imaging the invisible: resolving cellular microcompartments by superresolution microscopy techniques. 2013, 394, 1097-113  Improving resolution of fluorescent microscopy using speckle illumination and joint sparse	23
1252 1251 1250 1249	Ultrahigh-resolution imaging reveals formation of neuronal SNARE/Munc18 complexes in situ. 2013, ,110, E2812-20  Distinct, but not completely separate spatial transport routes in the nuclear pore complex. 2013, 4, 166-75  Imaging the invisible: resolving cellular microcompartments by superresolution microscopy techniques. 2013, 394, 1097-113  Improving resolution of fluorescent microscopy using speckle illumination and joint sparse recovery. 2013,	23
1252 1251 1250 1249	Ultrahigh-resolution imaging reveals formation of neuronal SNARE/Munc18 complexes in situ. 2013, 110, E2812-20  Distinct, but not completely separate spatial transport routes in the nuclear pore complex. 2013, 4, 166-75  Imaging the invisible: resolving cellular microcompartments by superresolution microscopy techniques. 2013, 394, 1097-113  Improving resolution of fluorescent microscopy using speckle illumination and joint sparse recovery. 2013,  Numerical simulations of optical centroid measurements with nonclassical fields. 2013, 87,  Measuring three-dimensional interaction potentials using optical interference. Optics Express, 2013,	23 17

1244	Single molecule localization microscopy for superresolution. <b>2013</b> , 15, 094001	39
1243	Binding and movement of individual Cel7A cellobiohydrolases on crystalline cellulose surfaces revealed by single-molecule fluorescence imaging. <b>2013</b> , 288, 24164-72	33
1242	Plasmon-enhanced fluorescence intensities and rates permit super-resolution imaging of enhanced local fields. <b>2013</b> ,	
1241	Visualization and analysis of mRNA molecules using fluorescence in situ hybridization in Saccharomyces cerevisiae. <b>2013</b> , e50382	12
1240	Test samples for optimizing STORM super-resolution microscopy. <b>2013</b> ,	29
1239	Simultaneous multicolor imaging of biological structures with fluorescence photoactivation localization microscopy. <b>2013</b> , e50680	6
1238	Precise monitoring of chemical changes through localization analysis of dynamic spectra (LADS). <b>2013</b> , 67, 187-95	2
1237	Ultrafast force-clamp spectroscopy to probe lac repressor-DNA interactions. 2013,	
1236	Probing light-matter interactions at the nanoscale with a deterministically positioned single quantum dot. <b>2013</b> ,	
1235	Super-Resolution Imaging Through Stochastic Switching and Localization of Single Molecules: An Overview. <b>2013</b> , 27-64	4
1234	A non-invasive imaging for the in vivo tracking of high-speed vesicle transport in mouse neutrophils. <b>2013</b> , 3, 1913	18
1233	Super-resolution microscopy heads towards 3D dynamics. <b>2013</b> , 2,	2
1232	Measuring EGFR separations on cells with $\sim$ 10 nm resolution via fluorophore localization imaging with photobleaching. <b>2013</b> , 8, e62331	32
1231	Super resolution microscopy reveals that caveolin-1 is required for spatial organization of CRFB1 and subsequent antiviral signaling in zebrafish. <b>2013</b> , 8, e68759	24
1230	Resolution doubling in 3D-STORM imaging through improved buffers. <b>2013</b> , 8, e69004	124
1229	Super-resolution imaging strategies for cell biologists using a spinning disk microscope. <b>2013</b> , 8, e74604	21
1228	Nanoscale imaging by superresolution fluorescence microscopy and its emerging applications in biomedical research. <b>2013</b> , 41, 281-308	8
1227	Fusion FISH imaging: single-molecule detection of gene fusion transcripts in situ. <b>2014</b> , 9, e93488	21

1226	Cross-talk-free multi-color STORM imaging using a single fluorophore. <b>2014</b> , 9, e101772	57
1225	Differential interaction kinetics of a bipolar structure-specific endonuclease with DNA flaps revealed by single-molecule imaging. <b>2014</b> , 9, e113493	6
1224	Single-molecule tracking in live cells reveals distinct target-search strategies of transcription factors in the nucleus. <b>2014</b> , 3,	196
1223	Imaging live cells at the nanometer-scale with single-molecule microscopy: obstacles and achievements in experiment optimization for microbiology. <b>2014</b> , 19, 12116-49	38
1222	In vivo single-molecule imaging identifies altered dynamics of calcium channels in dystrophin-mutant C. elegans. <b>2014</b> , 5, 4974	38
1221	Single-spin stochastic optical reconstruction microscopy. <b>2014</b> , 111, 14669-74	54
1220	Stochastic 3D optical mapping by holographic localization of Brownian scatterers. <i>Optics Express</i> , <b>2014</b> , 22, 29191-203	18
1219	An Evaluation of the Faster STORM Method for Super-resolution Microscopy. 2014,	
1218	Single molecule localization microscopy of the distribution of chromatin using Hoechst and DAPI fluorescent probes. <b>2014</b> , 5, 331-40	62
1217	Single-molecule fluorescence imaging by total internal reflection fluorescence microscopy (IUPAC Technical Report). <b>2014</b> , 86, 1303-1320	8
1216	Nano-scale measurement of biomolecules by optical microscopy and semiconductor nanoparticles. <b>2014</b> , 5, 273	9
1215	ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging. <b>2014</b> , 30, 2389-90	744
1214	Actin restructuring during Salmonella typhimurium infection investigated by confocal and super-resolution microscopy. <b>2014</b> , 19, 16011	11
1213	Fluorescence tracking of motor proteins in vitro. <b>2014</b> , 105, 211-34	1
1212	Super-resolution microscopy: a virusœye view of the cell. <b>2014</b> , 6, 1365-78	26
1211	Membrane microdomains: from seeing to understanding. <b>2014</b> , 5, 18	26
<b>12</b> 10	Single-molecule imaging and kinetic analysis of cooperative cofilin-actin filament interactions. <b>2014</b> , 111, 9810-5	45
1209	Optical magnetometry of single NV center scanning local magnetic field in micro fluid devices. <b>2014</b> ,	

1208	Shot-noise limited localization of single 20 nm gold particles with nanometer spatial precision within microseconds. <i>Optics Express</i> , <b>2014</b> , 22, 9159-70	3.3	47
1207	Ray tracing analysis of inclined illumination techniques. <i>Optics Express</i> , <b>2014</b> , 22, 18940-8	3.3	8
1206	3D superresolution microscopy by supercritical angle detection. <i>Optics Express</i> , <b>2014</b> , 22, 29081-91	3.3	49
1205	Improved localization accuracy in stochastic super-resolution fluorescence microscopy by K-factor image deshadowing. <b>2013</b> , 5, 244-58		5
1204	Cubic B-spline calibration for 3D super-resolution measurements using astigmatic imaging. <i>Optics Express</i> , <b>2014</b> , 22, 10304-16	3.3	17
1203	Asymptotics of Bayesian error probability and source super-localization in three dimensions. <i>Optics Express</i> , <b>2014</b> , 22, 16008-28	3.3	3
1202	Asymptotics of Bayesian error probability and 2D pair superresolution. <i>Optics Express</i> , <b>2014</b> , 22, 16029	<b>-43</b> .3	4
1201	Optical depth localization of nitrogen-vacancy centers in diamond with nanometer accuracy. <i>Optics Express</i> , <b>2014</b> , 22, 29986-95	3.3	9
<b>12</b> 00	Conformational distribution of surface-adsorbed fibronectin molecules explored by single molecule localization microscopy. <b>2014</b> , 2, 883-892		12
1199	BRCA2 diffuses as oligomeric clusters with RAD51 and changes mobility after DNA damage in live cells. <b>2014</b> , 207, 599-613		42
1198	Orbital Single Particle Tracking on a commercial confocal microscope using piezoelectric stage feedback. <b>2014</b> , 2,		11
1197	Second harmonic super-resolution microscopy for quantification of mRNA at single copy sensitivity. <b>2014</b> , 8, 12418-27		31
1196	Multiple spatial and kinetic subpopulations of CaMKII in spines and dendrites as resolved by single-molecule tracking PALM. <b>2014</b> , 34, 7600-10		56
1195	Molecule motion at polymer brush interfaces from single-molecule experimental perspectives. <b>2014</b> , 52, 85-103		12
1194	Single-molecule super-resolution light-sheet microscopy. <b>2014</b> , 15, 577-86		28
1193	Coordinate-targeted and coordinate-stochastic super-resolution microscopy with the reversibly switchable fluorescent protein Dreiklang. <b>2014</b> , 15, 756-62		17
1192	The lateral and axial localization uncertainty in super-resolution light microscopy. <b>2014</b> , 15, 664-70		74
1191	Increasing the brightness of cyanine fluorophores for single-molecule and superresolution imaging. <b>2014</b> , 15, 637-41		53

1190	Reversible photoswitching specifically responds to mercury(II) ions: the gated photochromism of bis(dithiazole)ethene. <b>2014</b> , 50, 14205-8	35
1189	Mechanics of protein-DNA interaction studied with ultra-fast optical tweezers. <b>2014</b> ,	
1188	Single-molecule diffusion and conformational dynamics by spatial integration of temporal fluctuations. <b>2014</b> , 5, 5123	20
1187	Accelerating localization microscopy. 2014,	
1186	System size expansion using Feynman rules and diagrams. <b>2014</b> , 47, 455007	8
1185	ON THE ORIGIN OF HIGHLY IONIZED X-RAY ABSORBERS DETECTED IN THE GALACTIC X-RAY BINARIES. <b>2014</b> , 780, 170	13
1184	Improved localization accuracy in double-helix point spread function super-resolution fluorescence microscopy using selective-plane illumination. <b>2014</b> ,	2
1183	The Role of Image Analysis Algorithms in Super-resolution Localization Microscopy. <b>2014</b> , 227-242	2
1182	High Spatiotemporal Bioimaging Techniques to Study the Plasma Membrane Nanoscale Organization. <b>2014</b> , 49-63	2
1181	Probing Amyloid Aggregation and Morphology In Situ by Multiparameter Imaging and Super-Resolution Fluorescence Microscopy. <b>2014</b> , 105-120	3
1180	TRF1 and TRF2 use different mechanisms to find telomeric DNA but share a novel mechanism to search for protein partners at telomeres. <b>2014</b> , 42, 2493-504	49
1179	Elucidating heterogeneity in nanoplasmonic structures using nonlinear photon localization microscopy. <b>2014</b> , 16, 114014	3
1178	QUANTUM CHEMICAL ROVIBRATIONAL DATA FOR THE INTERSTELLAR DETECTION OFc-C3HII <b>2014</b> , 796, 139	16
1177	NuSTAR DISCOVERY OF A YOUNG, ENERGETIC PULSAR ASSOCIATED WITH THE LUMINOUS GAMMA-RAY SOURCE HESS J1640465. <b>2014</b> , 788, 155	38
1176	SPECTRAL ENERGY DISTRIBUTION FITTING OF HETDEX PILOT SURVEY LyEMITTERS IN COSMOS AND GOODS-N. <b>2014</b> , 786, 59	37
1175	Superresolution microscope image reconstruction by spatiotemporal object decomposition and association: application in resolving t-tubule structure in skeletal muscle. <i>Optics Express</i> , <b>2014</b> , 22, 12160 <sup>2</sup> 76	11
1174	Microscopic diamond solid-immersion-lenses fabricated around single defect centers by focused ion beam milling. <b>2014</b> , 85, 123703	65
1173	Fluorescence microscopy for biological imaging. <b>2014</b> , 31-48	

1172 Fluorescent proteins for live-cell imaging with super-resolution. <b>2014</b> , 43, 1088-106	250
Discovering anomalous hybridization kinetics on DNA nanostructures using single-molecule fluorescence microscopy. <b>2014</b> , 67, 177-84	17
Tracking of fluorescence nanoparticles with nanometre resolution in a biological system: assessocial viscosity and microrheology. <b>2014</b> , 13, 275-88	ssing 7
1169 Bending the rules: widefield microscopy and the Abbe limit of resolution. <b>2014</b> , 229, 132-8	31
1168 Single molecule rotational probing of supercooled liquids. <b>2014</b> , 43, 977-89	28
1167 How to switch a fluorophore: from undesired blinking to controlled photoswitching. <b>2014</b> , 43,	1076-87 128
1166 Imaging of molecular surface dynamics in brain slices using single-particle tracking. <b>2014</b> , 5, 30	024 63
Single-molecule in vivo imaging of bacterial respiratory complexes indicates delocalized oxida phosphorylation. <b>2014</b> , 1837, 811-24	tive 73
1164 Biomolecular dynamics and binding studies in the living cell. <b>2014</b> , 11, 1-30	27
1163 Super-Resolution Microscopy Techniques in the Neurosciences. <b>2014</b> ,	4
1162 Cryogenic colocalization microscopy for nanometer-distance measurements. <b>2014</b> , 15, 763-70	33
1161 Super-resolution microscopy: going live and going fast. <b>2014,</b> 15, 630-6	28
1160 Nanoscale Imaging of Synapses. <b>2014</b> ,	
1159 Foundations of Sted Microscopy. <b>2014</b> , 41-71	1
Super-resolution localization microscopy with photoactivatable fluorescent marker proteins. 2 251, 349-62	2014,
A simple method to estimate the average localization precision of a single-molecule localization microscopy experiment. <b>2014</b> , 141, 629-38	on <sub>135</sub>
1156 Eight years of single-molecule localization microscopy. <b>2014</b> , 141, 561-75	99
The antidepressant fluoxetine mobilizes vesicles to the recycling pool of rat hippocampal synatorious during high activity. <b>2014</b> , 49, 916-30	apses 9

1154	Precisely and accurately localizing single emitters in fluorescence microscopy. <b>2014</b> , 11, 253-66		341
1153	Localization microscopy: mapping cellular dynamics with single molecules. <b>2014</b> , 254, 1-8		15
1152	Applying Super-Resolution Imaging Techniques to Problems in Single-Molecule SERS. <b>2014</b> , 193-217		
1151	Insights into adhesion biology using single-molecule localization microscopy. <b>2014</b> , 15, 606-18		8
1150	High-resolution tracking of single-molecule diffusion in membranes by confocalized and spatially differentiated fluorescence photon stream recording. <b>2014</b> , 15, 771-83		13
1149	Approaches to single-nanoparticle catalysis. <b>2014</b> , 65, 395-422		118
1148	High-density single-particle tracking: quantifying molecule organization and dynamics at the nanoscale. <b>2014</b> , 141, 587-95		22
1147	Multicolor fluorescence nanoscopy by photobleaching: concept, verification, and its application to resolve selective storage of proteins in platelets. <b>2014</b> , 8, 4358-65		20
1146	Visualizing site-specific redox potentials on the surface of plasmonic nanoparticle aggregates with superlocalization SERS microscopy. <b>2014</b> , 14, 939-45		89
1145	Superresolution localization methods. <b>2014</b> , 65, 107-25		28
1145	Superresolution localization methods. <b>2014</b> , 65, 107-25  Photoswitchable fluorescent proteins for superresolution fluorescence microscopy circumventing the diffraction limit of light. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1076, 793-812	1.4	13
.,	Photoswitchable fluorescent proteins for superresolution fluorescence microscopy circumventing	1.4 68.1	13
1144	Photoswitchable fluorescent proteins for superresolution fluorescence microscopy circumventing the diffraction limit of light. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1076, 793-812  Superresolution imaging of biological systems using photoactivated localization microscopy.	,	13
1144	Photoswitchable fluorescent proteins for superresolution fluorescence microscopy circumventing the diffraction limit of light. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1076, 793-812  Superresolution imaging of biological systems using photoactivated localization microscopy. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3189-202  Molecular machines like myosin use randomness to behave predictably. <i>Chemical Reviews</i> , <b>2014</b> ,	68.1	13
1144 1143 1142	Photoswitchable fluorescent proteins for superresolution fluorescence microscopy circumventing the diffraction limit of light. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1076, 793-812  Superresolution imaging of biological systems using photoactivated localization microscopy. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3189-202  Molecular machines like myosin use randomness to behave predictably. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3318-34	68.1	13 106 26
1144 1143 1142 1141	Photoswitchable fluorescent proteins for superresolution fluorescence microscopy circumventing the diffraction limit of light. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1076, 793-812  Superresolution imaging of biological systems using photoactivated localization microscopy. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3189-202  Molecular machines like myosin use randomness to behave predictably. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3318-34  Fundamentals of Fluorescence Microscopy. <b>2014</b> ,  Probing subdiffraction limit separations with plasmon coupling microscopy: concepts and	68.1	13 106 26
1144 1143 1142 1141 1140	Photoswitchable fluorescent proteins for superresolution fluorescence microscopy circumventing the diffraction limit of light. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1076, 793-812  Superresolution imaging of biological systems using photoactivated localization microscopy. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3189-202  Molecular machines like myosin use randomness to behave predictably. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3318-34  Fundamentals of Fluorescence Microscopy. <b>2014</b> ,  Probing subdiffraction limit separations with plasmon coupling microscopy: concepts and applications. <b>2014</b> , 43, 3884-97	68.1	13 106 26 19

1136	Top-hat and asymmetric Gaussian-based fitting functions for quantifying directional single-molecule motion. <b>2014</b> , 15, 712-20	11
1135	Organization and dynamics of AMPA receptors inside synapses-nano-organization of AMPA receptors and main synaptic scaffolding proteins revealed by super-resolution imaging. <b>2014</b> , 20, 120-6	11
1134	Super-resolution imaging of SERS hot spots. <b>2014</b> , 43, 3854-64	123
1133	Accessing the third dimension in localization-based super-resolution microscopy. <b>2014</b> , 16, 16340-8	31
1132	Imaging and quantification of trans-membrane protein diffusion in living bacteria. 2014, 16, 12625-34	33
1131	Fluorescent Methods for Molecular Motors. 2014,	
1130	Hybrid photonic antennas for subnanometer multicolor localization and nanoimaging of single molecules. <b>2014</b> , 14, 4895-900	28
1129	Super-resolution microscopy approaches for live cell imaging. <i>Biophysical Journal</i> , <b>2014</b> , 107, 1777-1784 2.9	164
1128	Small quantum dots conjugated to nanobodies as immunofluorescence probes for nanometric microscopy. <b>2014</b> , 25, 2205-11	25
1127	Effects of fixed pattern noise on single molecule localization microscopy. <b>2014</b> , 16, 21586-94	15
1126	Facile method to stain the bacterial cell surface for super-resolution fluorescence microscopy. <b>2014</b> , 139, 3174-8	18
1125	Characterization of organic fluorophores for in vivo FRET studies based on electroporated molecules. <b>2014</b> , 16, 12688-94	22
1124	Analytical comparison of natural and pharmaceutical ventricular myosin activators. <b>2014</b> , 53, 5298-306	25
1123	Single-Molecule Spectroscopic Imaging Studies of Polarity Gradients Prepared by Infusion-Withdrawal Dip-Coating. <b>2014</b> , 118, 6423-6432	20
1122	Lateral motion and bending of microtubules studied with a new single-filament tracking routine in living cells. <i>Biophysical Journal</i> , <b>2014</b> , 106, 2625-35	17
1121	Tethered fluorophore motion: studying large DNA conformational changes by single-fluorophore imaging. <i>Biophysical Journal</i> , <b>2014</b> , 107, 1205-1216	17
1120	Super-resolution imaging with stochastic single-molecule localization: concepts, technical developments, and biological applications. <b>2014</b> , 77, 502-9	27
1119	Azimuthal polarization filtering for accurate, precise, and robust single-molecule localization microscopy. <b>2014</b> , 14, 6407-13	42

1118	Dynamic submicroscopic signaling zones revealed by pair correlation tracking and localization microscopy. <b>2014</b> , 86, 8593-602	26
1117	Fixed pattern noise in localization microscopy. <b>2014</b> , 15, 677-86	4
1116	Imaging fluorescence-correlation spectroscopy for measuring fast surface diffusion at liquid/solid interfaces. <b>2014</b> , 86, 7618-26	27
1115	Mobility analysis of super-resolved proteins on optically stretched DNA: comparing imaging techniques and parameters. <b>2014</b> , 15, 727-33	16
1114	High-throughput phenotyping of chlamydomonas swimming mutants based on nanoscale video analysis. <i>Biophysical Journal</i> , <b>2014</b> , 107, 336-345	8
1113	Quantitative analysis of single-molecule superresolution images. <b>2014</b> , 28, 112-21	51
1112	Direct optical sensing of single unlabelled proteins and super-resolution imaging of their binding sites. <b>2014</b> , 5, 4495	161
1111	High-speed single-particle tracking of GM1 in model membranes reveals anomalous diffusion due to interleaflet coupling and molecular pinning. <b>2014</b> , 14, 5390-7	78
1110	Fluorophore localization algorithms for super-resolution microscopy. <b>2014</b> , 11, 267-79	220
1109	The changing point-spread function: single-molecule-based super-resolution imaging. <b>2014</b> , 141, 577-85	11
1108	Method for co-cluster analysis in multichannel single-molecule localisation data. <b>2014</b> , 141, 605-12	55
1107	SimpleSTORM: a fast, self-calibrating reconstruction algorithm for localization microscopy. <b>2014</b> , 141, 613-27	11
1106	Progress in quantitative single-molecule localization microscopy. <b>2014</b> , 142, 5-17	60
1105	Super-resolution imaging and tracking of protein-protein interactions in sub-diffraction cellular space. <b>2014</b> , 5, 4443	53
1104	Single molecule fluorescence approaches shed light on intracellular RNAs. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3224-65	65
1103	Robust hypothesis tests for detecting statistical evidence of two-dimensional and three-dimensional interactions in single-molecule measurements. <b>2014</b> , 89, 052705	7
1102	Plasmon-Enhanced Brightness and Photostability from Single Fluorescent Proteins Coupled to Gold Nanorods. <b>2014</b> , 118, 15027-15035	40
1101	Twinkle, twinkle little star: photoswitchable fluorophores for super-resolution imaging. <b>2014</b> , 588, 3603-12	97

1100 Imaging and physically probing kinetochores in live dividing cells. <b>2014</b> , 123, 467-87	1
1099 Localization microscopy in yeast. <b>2014</b> , 123, 253-71	13
1098 Imaging cellular ultrastructure by PALM, iPALM, and correlative iPALM-EM. <b>2014</b> , 123, 273-94	38
Small-molecule labeling of live cell surfaces for three-dimensional super-resolution microscopy. <b>2014</b> , 136, 14003-6	91
1096 Chiral nanostructures studied using polarization-dependent NOLES imaging. <b>2014</b> , 118, 8393-401	11
1095 Toward single-molecule optical mapping of the epigenome. <b>2014</b> , 8, 14-26	37
1094 Optimal point spread function design for 3D imaging. <b>2014</b> , 113, 133902	176
1093 Extending single-molecule microscopy using optical Fourier processing. <b>2014</b> , 118, 8313-29	84
1092 Quantitative super-resolution microscopy: pitfalls and strategies for image analysis. <b>2014</b> , 20, 22-8	56
Sub-diffraction imaging with confocal fluorescence microscopy by stochastic photobleaching. <b>2014</b> , 312, 62-67	8
1090 Unitary step of gliding machinery in Mycoplasma mobile. <b>2014</b> , 111, 8601-6	34
1089 Statistical denoising scheme for single molecule fluorescence microscopic images. <b>2014</b> , 10, 11-20	5
1088 Simultaneous electrochemical and 3D optical imaging of silver nanoparticle oxidation. <b>2014</b> , 597, 20-25	30
Tracking single serotonin transporter molecules at the endoplasmic reticulum and plasma membrane. <i>Biophysical Journal</i> , <b>2014</b> , 106, L33-5	18
1086 Characterization and development of photoactivatable fluorescent proteins for single-molecule-based superresolution imaging. <b>2014</b> , 111, 8452-7	253
1085 3D dual-virtual-pinhole assisted single particle tracking microscopy. <b>2014</b> , 16, 075703	1
Spatiotemporal catalytic dynamics within single nanocatalysts revealed by single-molecule microscopy. <b>2014</b> , 43, 1107-17	110
1083 Photocontrollable fluorescent proteins for superresolution imaging. <b>2014</b> , 43, 303-29	157

1082 In vivo single-molecule imaging of bacterial DNA replication, transcription, and repair. <b>2014</b> , 588, 3585-94	47
Direct observations of amyloid Belf-assembly in live cells provide insights into differences in the kinetics of A $(1-40)$ and A $(1-42)$ aggregation. <b>2014</b> , 21, 732-42	86
Correlated cryogenic photoactivated localization microscopy and cryo-electron tomography. <b>2014</b> , 11, 737-9	155
1079 Spatial organization of transcription in bacterial cells. <b>2014</b> , 30, 287-97	31
1078 Challenges in quantitative single molecule localization microscopy. <b>2014</b> , 588, 3595-602	51
1077 Processive cytoskeletal motors studied with single-molecule fluorescence techniques. <b>2014</b> , 588, 3520-5	18
1076 Advances in live-cell single-particle tracking and dynamic super-resolution imaging. <b>2014</b> , 20, 78-85	66
1075 Placing individual molecules in the center of nanoapertures. <b>2014</b> , 14, 391-5	29
1074 Optical nanoscopy with stimulated emission depletion. <b>2014</b> , 14-35	
Super-resolution molecular and functional imaging of nanoscale architectures in life and materials science. <b>2014</b> , 2, 20	17
1072 Kinetic competition during the transcription cycle results in stochastic RNA processing. <b>2014</b> , 3,	122
1071 Fluorescence Microscopy Techniques for the Structural Analysis of Polymer Materials. <b>2014</b> , 609-624	
1070 Fluorescence imaging with one-nanometer accuracy (FIONA). <b>2014</b> , 51774	3
Combining single-molecule manipulation and imaging for the study of protein-DNA interactions. <b>2014</b> ,	8
1068 Localization of single biological molecules out of the focal plane. <b>2014</b> ,	
1067 High speed fluorescence photoactivation localization microscopy imaging. <b>2014</b> ,	3
1066 The Study of Remaining Oil Location in Multi-Pores at Micro and Nano Scale. <b>2014</b> ,	
Demonstration of enhanced surface mobility of adsorbate cluster species by surface acoustic wave excitation induced by a pulsed laser. <b>2014</b> ,	7

1064	Point spread function optimization for STORM using adaptive optics. 2014,	1
1063	Characterization of the Distance Relationship Between Localized Serotonin Receptors and Glia Cells on Fluorescence Microscopy Images of Brain Tissue. <b>2015</b> , 21, 826-36	3
1062	Effect of finite sampling time on estimation of Brownian fluctuation. <b>2015</b> , 767, 65-84	4
1061	Dual-color dynamic tracking of GM-CSF receptors/JAK2 kinases signaling activation using temporal focusing multiphoton fluorescence excitation and astigmatic imaging. <i>Optics Express</i> , <b>2015</b> , 23, 30943-5 $\vec{S}$ .	2
1060	Chromosomal locus tracking with proper accounting of static and dynamic errors. <b>2015</b> , 91, 062716	46
1059	Recovering a stochastic process from super-resolution noisy ensembles of single-particle trajectories. <b>2015</b> , 92, 052109	13
1058	Method for simultaneous localization and parameter estimation in particle tracking experiments. <b>2015</b> , 92, 052707	23
1057	Nobel Lecture: Single-molecule spectroscopy, imaging, and photocontrol: Foundations for super-resolution microscopy*. <b>2015</b> , 87, 1183-1212	54
1056	Probing DNA interactions with proteins using a single-molecule toolbox: inside the cell, in a test tube and in a computer. <b>2015</b> , 43, 139-45	22
1055	Stochastic Optical Reconstruction Microscopy Imaging of Microtubule Arrays in Intact Arabidopsis thaliana Seedling Roots. <b>2015</b> , 5, 15694	15
1054	The fidelity of stochastic single-molecule super-resolution reconstructions critically depends upon robust background estimation. <b>2014</b> , 4, 3854	48
1053	Cellular imaging using temporally flickering nanoparticles. <b>2015</b> , 5, 8244	17
1052	Imaging and Probing Cells Beyond the Optical Diffraction Limit. <b>2015</b> , 469-502	
1051	Note: Time-gated 3D single quantum dot tracking with simultaneous spinning disk imaging. <b>2015</b> , 86, 126102	6
1050	Comparison between single-molecule and X-ray crystallography data on yeast F1-ATPase. <b>2015</b> , 5, 8773	7
1049	Three-dimensional super-resolution and localization of dense clusters of single molecules. <b>2014</b> , 4, 5388	34
1048	Promoter-Autonomous Functioning in a Controlled Environment using Single Molecule FISH. <b>2015</b> , 5, 9934	11
1047	K-factor image deshadowing for three-dimensional fluorescence microscopy. <b>2015</b> , 5, 13724	2

1046	Real-Time Intracellular Mg2+ Signaling and Wave Propagation by Subdiffraction-Limit Super-Resolution Microscopy. <b>2015</b> , 36, 2589-2595	1
1045	A transient ischemic environment induces reversible compaction of chromatin. 2015, 16, 246	47
1044	The Actin Filament as a Mechanosensor. <b>2015</b> , 55, 187-191	
1043	Nanoscopylmaging life at the nanoscale: a Nobel Prize achievement with a bright future. <b>2015</b> , 90, 108010	3
1042	Spektroskopie, Visualisierung und Photomanipulation einzelner Molekle: die Grundlage fil superhochauflBende Mikroskopie (Nobel-Aufsatz). <b>2015</b> , 127, 8182-8210	11
1041	Probing Channel, Pump, and Transporter Function Using Single-Molecule Fluorescence. <b>2015</b> , 299-326	
1040	Single-Molecule Spectroscopy, Imaging, and Photocontrol: Foundations for Super-Resolution Microscopy (Nobel Lecture). <b>2015</b> , 54, 8067-93	148
1039	. 2015,	9
1038	High-resolution Far-field Microscopy. <b>2015</b> , 1-31	
1037	Superresolution microscopy for bioimaging at the nanoscale: from concepts to applications in the nucleus. <b>2015</b> , 157	2
1036	Lipid Diffusion in Supported Lipid Bilayers: A Comparison between Line-Scanning Fluorescence Correlation Spectroscopy and Single-Particle Tracking. <b>2015</b> , 5, 702-21	21
1035	Accounting for limited detection efficiency and localization precision in cluster analysis in single molecule localization microscopy. <b>2015</b> , 10, e0118767	10
1034	Correlative stochastic optical reconstruction microscopy and electron microscopy. <b>2015</b> , 10, e0124581	64
1033	Virtual-@ght-sheet&ingle-molecule localisation microscopy enables quantitative optical sectioning for super-resolution imaging. <b>2015</b> , 10, e0125438	13
1032	Extracting Diffusive States of Rho GTPase in Live Cells: Towards In Vivo Biochemistry. <b>2015</b> , 11, e1004297	18
1031	MIISR: Molecular Interactions in Super-Resolution Imaging Enables the Analysis of Protein Interactions, Dynamics and Formation of Multi-protein Structures. <b>2015</b> , 11, e1004634	31
1030	Quantifying and optimizing single-molecule switching nanoscopy at high speeds. <b>2015</b> , 10, e0128135	44
1029	Inferring Latent States and Refining Force Estimates via Hierarchical Dirichlet Process Modeling in Single Particle Tracking Experiments. <b>2015</b> , 10, e0137633	20

1028	Label-free multi-color superlocalization of plasmonic emission within metallic nano-interstice using femtosecond chirp-manipulated four wave mixing. <i>Optics Express</i> , <b>2015</b> , 23, 32113-29	4
1027	Analysis of Membrane-Protein Complexes by Single-Molecule Methods. <b>2015</b> , 269-297	2
1026	Current approaches to studying membrane organization. <b>2015</b> , 4,	16
1025	Computational image analysis techniques for cell mechanobiology. 148-168	
1024	The coreceptor CD4 is expressed in distinct nanoclusters and does not colocalize with T-cell receptor and active protein tyrosine kinase p56lck. <b>2015</b> , 112, E1604-13	51
1023	Distribution of distances between DNA barcode labels in nanochannels close to the persistence length. <b>2015</b> , 142, 064902	40
1022	Imaging live-cell dynamics and structure at the single-molecule level. <b>2015</b> , 58, 644-59	330
1021	Two-dimensional arsenic monolayer sheet predicted from first-principles. <b>2015</b> , 24, 036301	8
1020	Investigating Plasmonic Structure-Dependent Light Amplification and Electronic Dynamics Using Advances in Nonlinear Optical Microscopy. <b>2015</b> , 119, 15779-15800	29
1019	Shuttling of PINK1 between Mitochondrial Microcompartments Resolved by Triple-Color Superresolution Microscopy. <b>2015</b> , 10, 1970-6	17
1018	Origin and compensation of imaging artefacts in localization-based super-resolution microscopy. <b>2015</b> , 88, 122-32	6
1017	Adaptive optics correction of specimen-induced aberrations in single-molecule switching microscopy. <b>2015</b> , 2, 177	66
1016	Tracking individual membrane proteins and their biochemistry: The power of direct observation. <b>2015</b> , 98, 22-30	15
1015	DNA motion capture reveals the mechanical properties of DNA at the mesoscale. <i>Biophysical Journal</i> , <b>2015</b> , 108, 2532-2540	14
1014	Correcting field-dependent aberrations with nanoscale accuracy in three-dimensional single-molecule localization microscopy. <b>2015</b> , 2, 985-993	59
1013	A review of progress in single particle tracking: from methods to biophysical insights. <b>2015</b> , 78, 124601	273
1012	Single-molecule spectroscopy and imaging over the decades. <b>2015</b> , 184, 9-36	52
1011	Drosophila germ granules are structured and contain homotypic mRNA clusters. <b>2015</b> , 6, 7962	110

## (2015-2015)

1010	Topological events in single molecules of E. coli DNA confined in nanochannels. <b>2015</b> , 140, 4887-94	36
1009	The nuclear basket mediates perinuclear mRNA scanning in budding yeast. <b>2015</b> , 211, 1131-40	45
1008	Super-Resolving the Distance-Dependent Plasmon-Enhanced Fluorescence of Single Dye and Fluorescent Protein Molecules. <b>2015</b> , 119, 19350-19358	34
1007	Base pair distance analysis in single DNA molecule by direct stochastic optical reconstruction microscopy. <b>2015</b> , 26, 1490-1495	5
1006	Quantitative Aspects of Single Molecule Microscopy. <b>2015</b> , 32, 58-69	14
1005	Image Processing and Analysis for Single-Molecule Localization Microscopy: Computation for nanoscale imaging. <b>2015</b> , 32, 49-57	6
1004	High-content 3D multicolor super-resolution localization microscopy. <b>2015</b> , 125, 95-117	20
1003	Magnetic-field-enabled resolution enhancement in super-resolution imaging. <b>2015</b> , 17, 6722-7	5
1002	Far-Field Optical Nanoscopy. <b>2015</b> ,	7
1001	Statistical analysis of molecule colocalization in bioimaging. <b>2015</b> , 87, 568-79	83
1000	Applying superresolution localization-based microscopy to neurons. <b>2015</b> , 69, 283-94	18
999	Extracting physics of life at the molecular level: A review of single-molecule data analyses. <b>2015</b> , 13, 107-37	19
998	Superresolution imaging of single DNA molecules using stochastic photoblinking of minor groove and intercalating dyes. <b>2015</b> , 88, 81-8	55
997	Actin-delimited adhesion-independent clustering of E-cadherin forms the nanoscale building blocks of adherens junctions. <b>2015</b> , 32, 139-54	121
996	Superresolution measurements in vivo: imaging Drosophila embryo by photoactivated localization microscopy. <b>2015</b> , 125, 119-42	2
995	Detecting protein association at the T cell plasma membrane. <b>2015</b> , 1853, 791-801	5
994	A nanoscale resolution view on synaptic vesicle dynamics. <b>2015</b> , 69, 256-67	8
993	Superresolution microscopy reveals spatial separation of UCP4 and F0F1-ATP synthase in neuronal mitochondria. <b>2015</b> , 112, 130-5	44

992	Clustering and dynamics of phototransducer signaling domains revealed by site-directed spin labeling electron paramagnetic resonance on SRII/HtrII in membranes and nanodiscs. <b>2015</b> , 54, 349-62	11
991	Image artifacts in single molecule localization microscopy: why optimization of sample preparation protocols matters. <b>2015</b> , 5, 7924	113
990	Optical super-resolution microscopy and its applications in nano-catalysis. <b>2015</b> , 8, 441-455	16
989	Single molecule analysis of functionally asymmetric G protein-coupled receptor (GPCR) oligomers reveals diverse spatial and structural assemblies. <b>2015</b> , 290, 3875-92	88
988	Polarization of excitation light influences molecule counting in single-molecule localization microscopy. <b>2015</b> , 143, 11-9	5
987	Quantitative evaluation of software packages for single-molecule localization microscopy. <b>2015</b> , 12, 717-24	247
986	Direct optical nanoscopy with axially localized detection. <b>2015</b> , 9, 587-593	82
985	Reflecting microscope system with a 0.99 numerical aperture designed for three-dimensional fluorescence imaging of individual molecules at cryogenic temperatures. <b>2015</b> , 5, 12833	12
984	Sifting noisy data for truths about noisy systems: Comment on "Extracting physics of life at the molecular level: A review of single-molecule data analyses" by W. Colomb and S.K. Sarkar. <b>2015</b> , 13, 141-3	1
983	iSBatch: a batch-processing platform for data analysis and exploration of live-cell single-molecule microscopy images and other hierarchical datasets. <b>2015</b> , 11, 2699-708	8
982	Three-dimensional nanometre localization of nanoparticles to enhance super-resolution microscopy. <b>2015</b> , 6, 7764	46
981	Lens-based fluorescence nanoscopy. <b>2015</b> , 48, 178-243	101
980	Tip localization of an atomic force microscope in transmission microscopy with nanoscale precision. <b>2015</b> , 86, 035109	4
979	Single-Molecule Investigations of Morphology and Mass Transport Dynamics in Nanostructured Materials. <b>2015</b> , 8, 193-216	42
978	Abundance and distribution of RNA polymerase II in Arabidopsis interphase nuclei. 2015, 66, 1687-98	35
977	Axial nanodisplacement measurement based on the double-helix point spread function generated using radially polarized beams with vortex phase modulation. <b>2015</b> , 54, 082501	1
976	A guide to use photocontrollable fluorescent proteins and synthetic smart fluorophores for nanoscopy. <b>2015</b> , 64, 263-77	31
975	PALM and STORM: Into large fields and high-throughput microscopy with sCMOS detectors. <b>2015</b> , 88, 109-21	35

## (2015-2015)

974	illumination based on wavelength-modulation. <b>2015</b> , 5, 11447	33
973	Single-Molecule Perspective on Mass Transport in Condensed Water Layers over Gradient Self-Assembled Monolayers. <b>2015</b> , 119, 9418-9428	22
972	Light microscopy: an ongoing contemporary revolution. <b>2015</b> , 56, 123-143	64
971	Advanced microscopy methods for visualizing chromatin structure. <b>2015</b> , 589, 3023-30	42
970	Drift correction for single-molecule imaging by molecular constraint field, a distance minimum metric. <b>2015</b> , 8, 1	6
969	Particle tracking in drug and gene delivery research: State-of-the-art applications and methods. <b>2015</b> , 91, 70-91	91
968	Modern Statistical Challenges in High-Resolution Fluorescence Microscopy. <b>2015</b> , 2, 163-202	20
967	Immunocytochemistry and Related Techniques. 2015,	1
966	Localizing exciton recombination sites in conformationally distinct single conjugated polymers by super-resolution fluorescence imaging. <b>2015</b> , 9, 3151-8	21
965	Wavefront correction using machine learning methods for single molecule localization microscopy. <b>2015</b> ,	1
964	Nanoscale probing of image-dipole interactions in a metallic nanostructure. <b>2015</b> , 6, 6558	43
963	CLASP2-dependent microtubule capture at the neuromuscular junction membrane requires LL5 and actin for focal delivery of acetylcholine receptor vesicles. <b>2015</b> , 26, 938-51	23
962	Single-molecule super-resolution microscopy reveals how light couples to a plasmonic nanoantenna on the nanometer scale. <b>2015</b> , 15, 2662-70	80
961	Multi-color quantum dot stochastic optical reconstruction microscopy (qSTORM). 2015,	1
960	3D high- and super-resolution imaging using single-objective SPIM. <b>2015</b> , 12, 641-4	126
959	Increased localization precision by interference fringe analysis. <b>2015</b> , 7, 10430-7	6
958	Diffraction-unlimited imaging: from pretty pictures to hard numbers. <b>2015</b> , 360, 151-78	38
957	Multicolor 3D super-resolution imaging by quantum dot stochastic optical reconstruction microscopy. <b>2015</b> , 9, 2917-25	62

956	Single emitter localization analysis in the presence of background. 2015,		1
955	Adaptive optics stochastic optical reconstruction microscopy (AO-STORM) using a genetic algorithm. <i>Optics Express</i> , <b>2015</b> , 23, 13677-92	3.3	40
954	B cell antigen receptors of the IgM and IgD classes are clustered in different protein islands that are altered during B cell activation. <b>2015</b> , 8, ra93		71
953	Quantum limits to optical point-source localization. <b>2015</b> , 2, 646		39
952	Brightness calibrates particle size in single particle fluorescence imaging. <b>2015</b> , 40, 1242-5		22
951	Labelling and imaging of single endogenous messenger RNA particles in vivo. <b>2015</b> , 128, 3695-706		7
950	Millisecond single-molecule localization microscopy combined with convolution analysis and automated image segmentation to determine protein concentrations in complexly structured, functional cells, one cell at a time. <b>2015</b> , 184, 401-24		46
949	Diffusion of myosin light chain kinase on actin: A mechanism to enhance myosin phosphorylation rates in smooth muscle. <b>2015</b> , 146, 267-80		15
948	Fast weighted centroid algorithm for single particle localization near the information limit. <b>2015</b> , 54, 6360-6		8
947	Investigation of the numerics of point spread function integration in single molecule localization. <i>Optics Express</i> , <b>2015</b> , 23, 16866-83	3.3	3
946	Faster super-resolution imaging of high density molecules via a cascading algorithm based on compressed sensing. <i>Optics Express</i> , <b>2015</b> , 23, 18563-76	3.3	2
945	Fast and background-free three-dimensional (3D) live-cell imaging with lanthanide-doped upconverting nanoparticles. <b>2015</b> , 7, 19397-402		26
944	Aro: a machine learning approach to identifying single molecules and estimating classification error in fluorescence microscopy images. <b>2015</b> , 16, 102		11
943	Deep and high-resolution three-dimensional tracking of single particles using nonlinear and multiplexed illumination. <b>2015</b> , 6, 7874		55
942	Nanoscale optical positioning of single quantum dots for bright and pure single-photon emission. <b>2015</b> , 6, 7833		164
941	Optimized measurements of separations and angles between intra-molecular fluorescent markers. <b>2015</b> , 6, 8621		26
940	Imaging the behavior of molecules in biological systems: breaking the 3D speed barrier with 3D multi-resolution microscopy. <b>2015</b> , 184, 359-79		10
939	Quantitative Analysis of Intracellular Fluorescent Foci in Live Bacteria. <i>Biophysical Journal</i> , <b>2015</b> , 109, 883-91	2.9	1

## (2016-2015)

938	SR-Tesseler: a method to segment and quantify localization-based super-resolution microscopy data. <b>2015</b> , 12, 1065-71	220
937	Three-Dimensional Superlocalization Imaging of Gliding Mycoplasma mobile by Extraordinary Light Transmission through Arrayed Nanoholes. <b>2015</b> , 9, 10896-908	22
936	Dimensionality of Diffusion in Flow-Aligned Surfactant-Templated Mesoporous Silica: A Single Molecule Tracking Study of Pore Wall Permeability. <b>2015</b> , 119, 26101-26110	9
935	Single-molecule tracking in live Vibrio cholerae reveals that ToxR recruits the membrane-bound virulence regulator TcpP to the toxT promoter. <b>2015</b> , 96, 4-13	42
934	Super-resolution imaging in live cells. <b>2015</b> , 401, 175-81	59
933	Tracking errors in 2D multiple particle tracking microrheology. <b>2015</b> , 26, 015302	19
932	Unveiling the inner workings of live bacteria using super-resolution microscopy. <b>2015</b> , 87, 42-63	45
931	Spectral imaging superlocalization microscopy for quantum dots. <b>2015</b> , 207, 308-312	7
930	Advanced Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1.4	1
929	RNA Polymerase II cluster dynamics predict mRNA output in living cells. <b>2016</b> , 5,	140
929 928	RNA Polymerase II cluster dynamics predict mRNA output in living cells. <b>2016</b> , 5,  Super-Resolution Imaging of Plasma Membrane Proteins with Click Chemistry. <b>2016</b> , 4, 98	140 16
928	Super-Resolution Imaging of Plasma Membrane Proteins with Click Chemistry. <b>2016</b> , 4, 98  Control of Transmembrane Protein Diffusion within the Postsynaptic Density Assessed by	16
928 927	Super-Resolution Imaging of Plasma Membrane Proteins with Click Chemistry. <b>2016</b> , 4, 98  Control of Transmembrane Protein Diffusion within the Postsynaptic Density Assessed by Simultaneous Single-Molecule Tracking and Localization Microscopy. <b>2016</b> , 8, 19	16
928 927 926	Super-Resolution Imaging of Plasma Membrane Proteins with Click Chemistry. <b>2016</b> , 4, 98  Control of Transmembrane Protein Diffusion within the Postsynaptic Density Assessed by Simultaneous Single-Molecule Tracking and Localization Microscopy. <b>2016</b> , 8, 19  Yeast Nanobiotechnology. <b>2016</b> , 2, 18	16 20 9
928 927 926 925	Super-Resolution Imaging of Plasma Membrane Proteins with Click Chemistry. 2016, 4, 98  Control of Transmembrane Protein Diffusion within the Postsynaptic Density Assessed by Simultaneous Single-Molecule Tracking and Localization Microscopy. 2016, 8, 19  Yeast Nanobiotechnology. 2016, 2, 18  Single-Molecule Light Microscopy. 2016, 1-9  A Stochastic Model of the Yeast Cell Cycle Reveals Roles for Feedback Regulation in Limiting	16 20 9
928 927 926 925	Super-Resolution Imaging of Plasma Membrane Proteins with Click Chemistry. 2016, 4, 98  Control of Transmembrane Protein Diffusion within the Postsynaptic Density Assessed by Simultaneous Single-Molecule Tracking and Localization Microscopy. 2016, 8, 19  Yeast Nanobiotechnology. 2016, 2, 18  Single-Molecule Light Microscopy. 2016, 1-9  A Stochastic Model of the Yeast Cell Cycle Reveals Roles for Feedback Regulation in Limiting Cellular Variability. 2016, 12, e1005230  Sialic Acid Glycobiology Unveils Trypanosoma cruzi Trypomastigote Membrane Physiology. 2016,	16 20 9 1 23

920	Real-time imaging of single synaptic vesicles in live neurons. <b>2016</b> , 11, 109-118	8
919	From single-molecule spectroscopy to super-resolution imaging of the neuron: a review. <b>2016</b> , 4, 022004	18
918	Super-resolution microscopy of single atoms in optical lattices. <b>2016</b> , 18, 053010	44
917	Drift estimation in sparse sequential dynamic imaging, with application to nanoscale fluorescence microscopy. <b>2016</b> , 78, 563-587	5
916	High-Resolution Vertical Observation of Intracellular Structure Using Magnetically Responsive Microplates. <b>2016</b> , 12, 3366-73	6
915	Optical imaging of individual biomolecules in densely packed clusters. <b>2016</b> , 11, 798-807	159
914	Temporal flickering of contrast agents for enhanced optical imaging. <b>2016</b> , 8, 439-48	О
913	Centroid precision and orientation precision of planar localization microscopy. <b>2016</b> , 263, 238-49	8
912	Monte Carlo simulations of protein micropatterning in biomembranes: effects of immobile sticky obstacles. <b>2016</b> , 49,	4
911	Methodology for Quantitative Characterization of Fluorophore Photoswitching to Predict Superresolution Microscopy Image Quality. <b>2016</b> , 6, 29687	10
910	Receptor dimer stabilization by hierarchical plasma membrane microcompartments regulates cytokine signaling. <b>2016</b> , 2, e1600452	18
909	Compressive Sensing Microscopy. <b>2016</b> , 255-237	
908	Botulinum neurotoxin type-A enters a non-recycling pool of synaptic vesicles. <b>2016</b> , 6, 19654	29
907	Transfer of motion through a microelectromechanical linkage at nanometer and microradian scales. <b>2016</b> , 2, 16055	5
906	High-Speed Localization Microscopy and Single-Particle Tracking. 2016, 121-128	
905	Multi-dimensional super-resolution imaging enables surface hydrophobicity mapping. <b>2016</b> , 7, 13544	97
904	Autophagy initiation by ULK complex assembly on ER tubulovesicular regions marked by ATG9 vesicles. <b>2016</b> , 7, 12420	172
903	Visualization of lipids and proteins at high spatial and temporal resolution via interferometric scattering (iSCAT) microscopy. <b>2016</b> , 49, 274002	38

902	Nanoscopy of bacterial cells immobilized by holographic optical tweezers. <b>2016</b> , 7, 13711	39
901	Single-Molecule Real-Time 3D Imaging of the Transcription Cycle by Modulation Interferometry. <b>2016</b> , 167, 1839-1852.e21	23
900	Particle detection and tracking in fluorescence time-lapse imaging: a contrario approach. <b>2016</b> , 27, 511-527	2
899	Important factors determining the nanoscale tracking precision of dynamic microtubule ends. <b>2016</b> , 261, 67-78	10
898	Nanoscale devices for linkerless long-term single-molecule observation. <b>2016</b> , 39, 105-112	15
897	Super-resolution measurement of distance between transcription sites using RNA FISH with intronic probes. <b>2016</b> , 98, 150-157	2
896	Resolving Fast, Confined Diffusion in Bacteria with Image Correlation Spectroscopy. <i>Biophysical Journal</i> , <b>2016</b> , 110, 2241-51	10
895	Single-Molecule Observation of DNA Replication Repair Pathways in E. coli. <b>2016</b> , 915, 5-16	10
894	Dynamic Measurements of the Position, Orientation, and DNA Content of Individual Unlabeled Bacteriophages. <b>2016</b> , 120, 6130-8	18
893	High Dynamic Range Pixel Array Detector for Scanning Transmission Electron Microscopy. <b>2016</b> , 22, 237-49	222
893 892	High Dynamic Range Pixel Array Detector for Scanning Transmission Electron Microscopy. <b>2016</b> , 22, 237-49  Super Resolution Fluorescence Localization Microscopy. <b>2016</b> , 70-75	222
		222
892	Super Resolution Fluorescence Localization Microscopy. <b>2016</b> , 70-75	
892 891	Super Resolution Fluorescence Localization Microscopy. <b>2016</b> , 70-75  Single-Molecule Studies in Live Cells. <b>2016</b> , 67, 565-85	44
892 891 890	Super Resolution Fluorescence Localization Microscopy. 2016, 70-75  Single-Molecule Studies in Live Cells. 2016, 67, 565-85  Characterisation of the effects of optical aberrations in single molecule techniques. 2016, 7, 1755-67  Subnuclear localization, rates and effectiveness of UVC-induced unscheduled DNA synthesis	44 11
892 891 890 889	Super Resolution Fluorescence Localization Microscopy. 2016, 70-75  Single-Molecule Studies in Live Cells. 2016, 67, 565-85  Characterisation of the effects of optical aberrations in single molecule techniques. 2016, 7, 1755-67  Subnuclear localization, rates and effectiveness of UVC-induced unscheduled DNA synthesis visualized by fluorescence widefield, confocal and super-resolution microscopy. 2016, 15, 1156-67	44 11 8
892 891 890 889 888	Super Resolution Fluorescence Localization Microscopy. 2016, 70-75  Single-Molecule Studies in Live Cells. 2016, 67, 565-85  Characterisation of the effects of optical aberrations in single molecule techniques. 2016, 7, 1755-67  Subnuclear localization, rates and effectiveness of UVC-induced unscheduled DNA synthesis visualized by fluorescence widefield, confocal and super-resolution microscopy. 2016, 15, 1156-67  Tracking and localization of calmodulin in live cells. 2016, 1863, 2017-26  Moving Kinetics of Nanocars with Hydrophobic Wheels on Solid Surfaces at Ambient Conditions.	44 11 8 8

Chemical Probes for Fluorescence Imaging in Living Mice. 2016, 358-377 884 Clustering and Functional Coupling of Diverse Ion Channels and Signaling Proteins Revealed by 883 41 Super-resolution STORM Microscopy in Neurons. 2016, 92, 461-478 Single-molecule analysis of fluorescent carbon dots towards localization-based super-resolution 882 15 microscopy. 2016, 4, 044006 madSTORM: a superresolution technique for large-scale multiplexing at single-molecule accuracy. 881 34 **2016**, 27, 3591-3600 Super-Resolution Genome Mapping in Silicon Nanochannels. 2016, 10, 9823-9830 880 40 TRICK: A Single-Molecule Method for Imaging the First Round of Translation in Living Cells and 879 17 Animals. 2016, 572, 123-57 Three-Fragment Fluorescence Complementation Coupled with Photoactivated Localization 878 17 Microscopy for Nanoscale Imaging of Ternary Complexes. **2016**, 10, 8482-90 Diffusion Tensor Analysis by Two-Dimensional Pair Correlation of Fluorescence Fluctuations in 2.9 16 Cells. Biophysical Journal, 2016, 111, 841-851 In the Realm of Super-Resolved Fluorescence Microscopy. 2016, 3-14 876 Image Analysis for Single-Molecule Localization Microscopy. 2016, 79-94 875 From single molecules to life: microscopy at the nanoscale. 2016, 408, 6885-911 874 70 Optical spectroscopy of single beryllium acceptors in GaAs/AlGaAs quantum well. 2016, 94, 873 872 Essential Basics of Light Matter Interaction in Biophotonics. 2016, 79-220 Fisher information theory for parameter estimation in single molecule microscopy: tutorial. 2016, 871 66 33, B36-57 A trans-synaptic nanocolumn aligns neurotransmitter release to receptors. 2016, 536, 210-4 870 333 869 High-resolution adaptive imaging of a single atom. **2016**, 10, 606-610 19 Motion blur filtering: A statistical approach for extracting confinement forces and diffusivity from a 868 25 single blurred trajectory. 2016, 93, 053303 Ashbya gossypii as a model system to study septin organization by single-molecule localization

microscopy. 2016, 136, 161-82

867

866	Interferometric Scattering Microscopy for the Study of Molecular Motors. <b>2016</b> , 581, 517-539	19
865	A Bayesian cluster analysis method for single-molecule localization microscopy data. <b>2016</b> , 11, 2499-2514	33
864	Single-molecule fluorescence resonance energy transfer in molecular biology. <b>2016</b> , 8, 19928-19944	47
863	Establishing super-resolution imaging for proteins in diatom biosilica. <b>2016</b> , 6, 36824	17
862	Quantitative Analysis of the Microtubule Interaction of Rabies Virus P3 Protein: Roles in Immune Evasion and Pathogenesis. <b>2016</b> , 6, 33493	18
861	Optical and force nanoscopy in microbiology. <b>2016</b> , 1, 16186	67
860	"Calibration-on-the-spot": How to calibrate an EMCCD camera from its images. <b>2016</b> , 6, 28680	17
859	Imaging cellular structures in super-resolution with SIM, STED and Localisation Microscopy: A practical comparison. <b>2016</b> , 6, 27290	116
858	Single-Molecule Localization Super-Resolution Microscopy of Synaptic Proteins. <b>2016</b> , 157-198	
857	In Situ Characterization of Bak Clusters Responsible for Cell Death Using Single Molecule Localization Microscopy. <b>2016</b> , 6, 27505	28
856	High resolution in vitro bioluminescence imaging using a multimodal optical system. <b>2016</b> , 11, C01035-C010	<b>935</b> o
855	In situ multi-modal monitoring of solvent vapor swelling in polymer thin films. <b>2016</b> , 87, 015106	15
854	Optical Fluorescence Microscopy for Spatially Characterizing Electron Transfer across a Solid-Liquid Interface on Heterogeneous Electrodes. <b>2016</b> , 1, 2867-2872	
853	3D Single-Molecule Imaging of Transmembrane Signaling by Targeting Nanodiamonds. <b>2016</b> , 26, 365-375	24
852	Extending the spatiotemporal resolution of super-resolution microscopies using photomodulatable fluorescent proteins. <b>2016</b> , 09, 1630009	3
851	Chromosome Architecture. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1.4	
850	A Photochromic Bioconjugate with Photoactivatable Fluorescence for Superresolution Imaging. <b>2016</b> , 120, 12860-12870	28
849	Multifluorophore localization as a percolation problem: limits to density and precision. <b>2016</b> , 33, B21-30	6

848	Resolving protein interactions and organization downstream the T cell antigen receptor using single-molecule localization microscopy: a review. <b>2016</b> , 4, 022002		6
847	Bacterial Chromosome Dynamics by Locus Tracking in Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1431, 161-73	1.4	
846	Super-Resolution Microscopy and Tracking of DNA-Binding Proteins in Bacterial Cells. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1431, 221-34	1.4	11
845	Single-Molecule Imaging to Characterize the Transport Mechanism of the Nuclear Pore Complex. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1431, 17-35	1.4	
844	PIF1-Interacting Transcription Factors and Their Binding Sequence Elements Determine the in Vivo Targeting Sites of PIF1. <b>2016</b> , 28, 1388-405		44
843	Practical limitations of superresolution imaging due to conventional sample preparation revealed by a direct comparison of CLSM, SIM and dSTORM. <b>2016</b> , 262, 306-15		18
842	Simultaneous nano-tracking of multiple motor proteins via spectral discrimination of quantum dots. <b>2016</b> , 7, 2475-93		7
841	Shank-cortactin interactions control actin dynamics to maintain flexibility of neuronal spines and synapses. <b>2016</b> , 43, 179-93		35
840	Quantitative nanoimmunosensor based on dark-field illumination with enhanced sensitivity and on-off switching using scattering signals. <b>2016</b> , 79, 709-14		5
839	Single-molecule studies of the dynamics and interactions of bacterial OXPHOS complexes. <b>2016</b> , 1857, 224-31		12
838	Precise multi-emitter localization method for fast super-resolution imaging. <b>2016</b> , 41, 72-5		15
837	Single-molecule imaging reveals the mechanism of Exo1 regulation by single-stranded DNA binding proteins. <b>2016</b> , 113, E1170-9		65
836	Exploring chromatin organization mechanisms through its dynamic properties. <b>2016</b> , 7, 27-33		26
835	Nanoscale three-dimensional single particle tracking by light-sheet-based double-helix point spread function microscopy. <b>2016</b> , 55, 449-53		12
834	Dynamic DNA binding licenses a repair factor to bypass roadblocks in search of DNA lesions. <b>2016</b> , 7, 10607		30
833	Single molecule localizations by pattern matching. <b>2016</b> ,		
832	Imaging single mRNAs to study dynamics of mRNA export in the yeast Saccharomyces cerevisiae. <b>2016</b> , 98, 104-114		9
831	Investigating the usage of point spread functions in point source and microsphere localization. <b>2016</b> , 9713,		

830	A high efficiency single molecule localisation algorithm with sub-pixel resolution based on fluorescence images. <b>2016</b> , 64, 50-56		2
829	Deciphering the Structure and Function of Nuclear Pores Using Single-Molecule Fluorescence Approaches. <b>2016</b> , 428, 2091-119		23
828	Single-molecule resolution of G protein-coupled receptor (GPCR) complexes. <b>2016</b> , 132, 55-72		29
827	Superresolution imaging of the local density of states in plasmon lattices. <b>2016</b> , 3, 289		27
826	Correlated confocal and super-resolution imaging by VividSTORM. <b>2016</b> , 11, 163-83		46
825	A Probabilistic Relaxation Labeling (PRL) Based Method for C. elegans Cell Tracking in Microscopic Image Sequences. <b>2016</b> , 10, 185-192		5
824	Simultaneous two color image capture for sub-diffraction localization fluorescence microscopy. <b>2016</b> , 80, 14-9		1
823	Localization microscopy of DNA in situ using Vybrant([] ) DyeCycle[Violet fluorescent probe: A new approach to study nuclear nanostructure at single molecule resolution. <b>2016</b> , 343, 97-106		20
822	Optical Super-Resolution Imaging of Mamyloid Aggregation In Vitro and In Vivo: Method and Techniques. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1303, 125-41	1.4	18
821	Plasmon-Enhanced Fluorescence from Single Proteins in Living Bacteria. <b>2016</b> , 120, 20512-20517		24
820	Three-Dimensional Localization of Single Molecules for Super-Resolution Imaging and Single-Particle Tracking. <i>Chemical Reviews</i> , <b>2017</b> , 117, 7244-7275	68.1	254
819	Super-Resolution Imaging and Plasmonics. <i>Chemical Reviews</i> , <b>2017</b> , 117, 7538-7582	68.1	173
818	Optogenetic Control of Synaptic Composition and Function. <b>2017</b> , 93, 646-660.e5		75
817	A Novel Application of Non-Destructive Readout Technology to Localisation Microscopy. <b>2017</b> , 7, 42313		1
816	Optical detection of nanometric thermal fluctuations to measure the stiffness of rigid superparamagnetic microrods. <b>2017</b> , 114, 2456-2461		3
815	Convergence of lateral dynamic measurements in the plasma membrane of live cells from single particle tracking and STED-FCS. <b>2017</b> , 50, 063001		36
814	Super-resolution mapping of scaffold nucleoporins in the nuclear pore complex. <b>2017</b> , 130, 1299-1306		12
813	Synthesis and Live-Cell Imaging of Fluorescent Sterols for Analysis of Intracellular Cholesterol Transport. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1583, 111-140	1.4	10

812	Super-Resolution Microscopy: Shedding Light on the Cellular Plasma Membrane. <i>Chemical Reviews</i> , <b>2017</b> , 117, 7457-7477	68.1	86
811	One-colour control of activation, excitation and deactivation of a fluorescent diarylethene derivative in super-resolution microscopy. <b>2017</b> , 53, 4066-4069		51
810	Single Molecule Tracking and Localization of Mitochondrial Protein Complexes in Live Cells. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1567, 273-291	1.4	13
809	Probing single processive molecular motors with high-speed optical tweezers and fluorescence microscopy. <b>2017</b> ,		
808	Turning single-molecule localization microscopy into a quantitative bioanalytical tool. <b>2017</b> , 12, 453-460		104
807	Genome organization in the nucleus: From dynamic measurements to a functional model. <b>2017</b> , 123, 128-137		11
806	Characterizing gelatin hydrogel viscoelasticity with diffusing colloidal probe microscopy. <b>2017</b> , 497, 73-8	32	16
805	Super-resolution Analysis of TCR-Dependent Signaling: Single-Molecule Localization Microscopy. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1584, 183-206	1.4	2
804	Stimulated Emission Depletion Microscopy. <i>Chemical Reviews</i> , <b>2017</b> , 117, 7377-7427	68.1	152
803	Super-resolution microscopy approaches to nuclear nanostructure imaging. <b>2017</b> , 123, 11-32		27
802	Measuring true localization accuracy in super resolution microscopy with DNA-origami nanostructures. <b>2017</b> , 19, 025013		11
801	Fluorescence Microscopy: A Concise Guide to Current Imaging Methods. <b>2017</b> , 79, 2.1.1-2.1.25		54
800	Automated Analysis of Intracellular Dynamic Processes. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1563, 209-2	284	7
799	Single-cell profiling reveals that eRNA accumulation at enhancer-promoter loops is not required to sustain transcription. <b>2017</b> , 45, 3017-3030		34
798	Fluorescent Photoswitchable Diarylethenes for Biolabeling and Single-Molecule Localization Microscopies with Optical Superresolution. <b>2017</b> , 139, 6611-6620		134
797	Unraveling the Thousand Word Picture: An Introduction to Super-Resolution Data Analysis. <i>Chemical Reviews</i> , <b>2017</b> , 117, 7276-7330	68.1	51
796	Single-molecule and super-resolution imaging of transcription in living bacteria. <b>2017</b> , 120, 103-114		34
795	Label-free, ultrahigh-speed, 3D observation of bidirectional and correlated intracellular cargo transport by coherent brightfield microscopy. <b>2017</b> , 9, 6567-6574		17

794	Reticulon 3-dependent ER-PM contact sites control EGFR nonclathrin endocytosis. 2017, 356, 617-624	85
793	A Single-Molecule View of Genome Editing Proteins: Biophysical Mechanisms for TALEs and CRISPR/Cas9. <b>2017</b> , 8, 577-597	9
792	Pointwise error estimates in localization microscopy. <b>2017</b> , 8, 15115	29
791	Time-resolved biophysical approaches to nucleocytoplasmic transport. <b>2017</b> , 15, 299-306	2
790	Single-Molecule Microscopy in the Life Sciences. <b>2017</b> , 365-404	
789	Metrology of DNA arrays by super-resolution microscopy. <b>2017</b> , 9, 10205-10211	15
788	Quantitative Co-Localization and Pattern Analysis of Endo-Lysosomal Cargo in Subcellular Image Cytometry and Validation on Synthetic Image Sets. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1594, 93-128	1
787	Cryogenic photoluminescence imaging system for nanoscale positioning of single quantum emitters. <b>2017</b> , 88, 023116	32
786	SPAD imagers for super resolution localization microscopy enable analysis of fast fluorophore blinking. <b>2017</b> , 7, 44108	22
785	Surrogate Wnt agonists that phenocopy canonical Wnt and 配atenin signalling. <b>2017</b> , 545, 234-237	165
7 <sup>8</sup> 4	Live-Cell Super-resolution Reveals F-Actin and Plasma Membrane Dynamics at the T Cell Synapse. <i>Biophysical Journal</i> , <b>2017</b> , 112, 1703-1713	34
783	Single Particle Tracking: From Theory to Biophysical Applications. <i>Chemical Reviews</i> , <b>2017</b> , 117, 7331-73 <b>76</b> 8.1	232
782	Single Molecule Catch and Release: Potential-Dependent Plasmid DNA Adsorption along Chemically Graded Electrode Surfaces. <b>2017</b> , 33, 8651-8662	9
781	Resolving mixed mechanisms of protein subdiffusion at the T cell plasma membrane. <b>2017</b> , 8, 15851	34
78o	Tip-enhanced Raman spectroscopy - from early developments to recent advances. <b>2017</b> , 46, 4077-4110	139
779	Fast Inertia-Free Volumetric Light-Sheet Microscope. <b>2017</b> , 4, 1797-1804	42
778	Three-Dimensional Localization of an Individual Fluorescent Molecule with Angstrom Precision. <b>2017</b> , 139, 8990-8994	12
777	Sub-diffraction-limit localization imaging of a plasmonic nanoparticle pair with wavelength-resolved dark-field microscopy. <b>2017</b> , 9, 8747-8755	14

776	Improved Superresolution Imaging Using Telegraph Noise in Organic Semiconductor Nanoparticles. <b>2017</b> , 17, 3896-3901		27
775	Background Estimation and Correction for High-Precision Localization Microscopy. <b>2017</b> , 4, 1730-1739		22
774	Chemical and Synthetic Approaches in Membrane Biology. 2017,		1
773	Quantification of fibrous spatial point patterns from single-molecule localization microscopy (SMLM) data. <b>2017</b> , 33, 1703-1711		7
772	Estimation of microscope drift using fluorescent nanodiamonds as fiducial markers. 2017, 266, 298-306		13
771	Spatiotemporal Regulation of Synaptic Vesicle Fusion Sites in Central Synapses. <b>2017</b> , 94, 65-73.e3		50
77º	Endocytic proteins are partitioned at the edge of the clathrin lattice in mammalian cells. 2017, 19, 352-367	ı	108
769	High-numerical-aperture cryogenic light microscopy for increased precision of superresolution reconstructions. <b>2017</b> , 114, 3832-3836		21
768	Statistical Methods for Large Ensembles of Super-Resolution Stochastic Single Particle Trajectories in Cell Biology. <b>2017</b> , 4, 189-223		19
767	Automated sub-5 nm image registration in integrated correlative fluorescence and electron microscopy using cathodoluminescence pointers. <b>2017</b> , 7, 43621		18
766	Optical Super-Resolution Imaging of Surface Reactions. <i>Chemical Reviews</i> , <b>2017</b> , 117, 7510-7537	3.1	90
765	Light Microscopy. <i>Methods in Molecular Biology</i> , <b>2017</b> ,	4	5
764	Navigating challenges in the application of superresolution microscopy. <b>2017</b> , 216, 53-63		60
763	Nanometer resolution imaging and tracking of fluorescent molecules with minimal photon fluxes. <b>2017</b> , 355, 606-612		485
762	Ultrahigh-Vacuum Tip-Enhanced Raman Spectroscopy. <i>Chemical Reviews</i> , <b>2017</b> , 117, 4961-4982	3.1	104
761	Light-Harvesting and Amplified Energy Transfer in Conjugated Polymer Nanoparticles. <i>Chemical Reviews</i> , <b>2017</b> , 117, 838-859	3.1	163
760	Single-pixel interior filling function approach for detecting and correcting errors in particle tracking. <b>2017</b> , 114, 221-226		9
759	Synapse Development. <i>Methods in Molecular Biology</i> , <b>2017</b> ,	4	1

758	Optimization of Spectral and Spatial Conditions to Improve Super-Resolution Imaging of Plasmonic Nanoparticles. <b>2017</b> , 8, 299-306		19	
757	Nanoscale architecture of cadherin-based celladhesions. <b>2017</b> , 19, 28-37		97	
756	3D d STORM Imaging of Fixed Brain Tissue. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1538, 169-184	1.4	11	
755	Localization-based super-resolution imaging meets high-content screening. <b>2017</b> , 14, 1184-1190		61	
754	Feedback-tracking microrheology in living cells. <b>2017</b> , 3, e1700318		32	
753	Super-resolution microscopy reveals functional organization of dopamine transporters into cholesterol and neuronal activity-dependent nanodomains. <b>2017</b> , 8, 740		47	
75 <sup>2</sup>	High-Density Super-Resolution Localization Imaging with Blinking Carbon Dots. <b>2017</b> , 89, 11831-11838		34	
751	Super-Resolution Microscopy. <i>Methods in Molecular Biology</i> , <b>2017</b> ,	1.4	5	
75°	Polarized super-resolution structural imaging inside amyloid fibrils using Thioflavine T. <b>2017</b> , 7, 12482		27	
749	Diatrack particle tracking software: Review of applications and performance evaluation. <b>2017</b> , 18, 840-8	352	32	
748	Real-time visualization and sub-diffraction limit localization of nanometer-scale pore formation by dielectric breakdown. <b>2017</b> , 9, 16437-16445		31	
747	The Detection of Nanoscale Membrane Bending with Polarized Localization Microscopy. <i>Biophysical Journal</i> , <b>2017</b> , 113, 1782-1794	2.9	16	
746	Objective-lens-free Fiber-based Position Detection with Nanometer Resolution in a Fiber Optical Trapping System. <b>2017</b> , 7, 13168		10	
745	Morphological analysis of oligomeric vs. fibrillar forms of		1	
744	Hardware and Software. <b>2017</b> , 83-116			
743	Localization Microscopy. <b>2017</b> , 179-262		1	
742	Sequential Super-Resolution Imaging of Bacterial Regulatory Proteins: The Nucleoid and the Cell Membrane in Single, Fixed E. coli Cells. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1624, 269-289	1.4	6	
741	Measuring Nanometer Distances Between Fluorescent Labels Step-by-Step. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1663, 189-203	1.4	2	

740	CTCF-Mediated Enhancer-Promoter Interaction Is a Critical Regulator of Cell-to-Cell Variation of Gene Expression. <b>2017</b> , 67, 1049-1058.e6		123
739	Enhanced information content for three-dimensional localization and tracking using the double-helix point spread function with variable-angle illumination epifluorescence microscopy. <b>2017</b> , 110, 211107		11
738	Highly Multiplexed, Super-resolution Imaging of T Cells Using madSTORM. 2017,		4
737	TestSTORM: Versatile simulator software for multimodal super-resolution localization fluorescence microscopy. <b>2017</b> , 7, 951		14
736	Cell-Shaping Micropatterns for Quantitative Super-Resolution Microscopy Imaging of Membrane Mechanosensing Proteins. <b>2017</b> , 9, 27575-27586		7
735	Super-Resolving the Actual Position of Single Fluorescent Molecules Coupled to a Plasmonic Nanoantenna. <b>2017</b> , 11, 8978-8987		24
734	Characterization of an industry-grade CMOS camera well suited for single molecule localization microscopy - high performance super-resolution at low cost. <b>2017</b> , 7, 14425		25
733	Three-dimensional nanoscale imaging by plasmonic Brownian microscopy. <b>2017</b> , 7, 489-495		1
732	3. Super-resolution Localization Microscopy. <b>2017</b> , 194-234		
731	Spin-manipulated nanoscopy for single nitrogen-vacancy center localizations in nanodiamonds. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e17085	16.7	20
730	Imaging cellulose synthase motility during primary cell wall synthesis in the grass Brachypodium distachyon. <b>2017</b> , 7, 15111		11
729	Superresolution Microscopy. <b>2017</b> , 845-865		
728	Correlative Super-resolution and Electron Microscopy to Resolve Protein Localization in Zebrafish Retina. <b>2017</b> ,		8
727	Resolution Optimization Based on Fluorophore Photophysics in Single-Molecule Localization Microscopy. <i>Biophysical Journal</i> , <b>2017</b> , 113, 1907-1908	2.9	
726	The Role of Probe Photophysics in Localization-Based Superresolution Microscopy. <i>Biophysical Journal</i> , <b>2017</b> , 113, 2037-2054	2.9	18
725	3D Bayesian cluster analysis of super-resolution data reveals LAT recruitment to the T cell synapse. <b>2017</b> , 7, 4077		27
724	Accuracy of the detection of binding events using 3D single particle tracking. 2017, 10, 3		2
723	Time multiplexing super-resolution nanoscopy based on the Brownian motion of gold nanoparticles. <b>2017</b> ,		

## (2017-2017)

722	Eigen-analysis reveals components supporting super-resolution imaging of blinking fluorophores. <b>2017</b> , 7, 4445		4
721	Extracting microtubule networks from superresolution single-molecule localization microscopy data. <b>2017</b> , 28, 333-345		32
720	Specific protein labeling with caged fluorophores for dual-color imaging and super-resolution microscopy in living cells. <b>2017</b> , 8, 559-566		32
719	Genetically encoding new bioreactivity. <b>2017</b> , 38, 16-25		40
718	Investigation of podosome ring protein arrangement using localization microscopy images. <b>2017</b> , 115, 9-16		6
717	In vivo single-RNA tracking shows that most tRNA diffuses freely in live bacteria. <b>2017</b> , 45, 926-937		28
716	Conformation and dynamics of single polymer chain studied by optical microscopy techniques beyond the diffraction limit. <b>2017</b> , 66, 223-233		2
715	Membrane Organization and Dynamics. 2017,		1
714	Determining Oligomerization of Membrane Proteins by Single Molecule Methods. <b>2017</b> , 167-193		1
713	Improving localization precision of Brillouin measurements using spectral autocorrelation analysis. <b>2017</b> , 10, 1742004		8
713 712			7
	<b>2017</b> , 10, 1742004		
712	<b>2017</b> , 10, 1742004  . <b>2017</b> ,		
712 711	2017, 10, 1742004  . 2017,  Bibliography. 2017, 507-517		7
712 711 710	2017, 10, 1742004  . 2017,  Bibliography. 2017, 507-517  Photobleaching of YOYO-1 in super-resolution single DNA fluorescence imaging. 2017, 8, 2296-2306  Stochastic Model of Acidification, Activation of Hemagglutinin and Escape of Influenza Viruses		7
712 711 710 709	2017, 10, 1742004  . 2017,  Bibliography. 2017, 507-517  Photobleaching of YOYO-1 in super-resolution single DNA fluorescence imaging. 2017, 8, 2296-2306  Stochastic Model of Acidification, Activation of Hemagglutinin and Escape of Influenza Viruses from an Endosome. 2017, 5,  Integrating Optical Tweezers, DNA Tightropes, and Single-Molecule Fluorescence Imaging: Pitfalls	3.3	7 11 9
712 711 710 709 708	2017, 10, 1742004  . 2017,  Bibliography. 2017, 507-517  Photobleaching of YOYO-1 in super-resolution single DNA fluorescence imaging. 2017, 8, 2296-2306  Stochastic Model of Acidification, Activation of Hemagglutinin and Escape of Influenza Viruses from an Endosome. 2017, 5,  Integrating Optical Tweezers, DNA Tightropes, and Single-Molecule Fluorescence Imaging: Pitfalls and Traps. 2017, 582, 171-192  High-power homogeneous illumination for super-resolution localization microscopy with large	3-3	7 11 9 5

704	Micro-Droplet Detection Method for Measuring the Concentration of Alkaline Phosphatase-Labeled Nanoparticles in Fluorescence Microscopy. <b>2017</b> , 17,	4
703	Superresolution Optical Microscopy. <b>2017</b> , 241-291	
702	Single-Molecule Methods for Nucleotide Excision Repair: Building a System to Watch Repair in Real Time. <b>2017</b> , 592, 213-257	13
701	Understanding and assessing low-light cameras for super-resolution localization microscopy. 2017,	
700	Revealing the Effects of Nanoscale Membrane Curvature on Lipid Mobility. 2017, 7,	10
699	Superresolved nanoscopy using Brownian motion of fluorescently labeled gold nanoparticles. <b>2017</b> , 56, 1365	5
698	Super-Resolution Localization Microscopy of EH2AX and Heterochromatin after Folate Deficiency. <b>2017</b> , 18,	23
697	Single Molecule Measurements in Membranes. 2017,	
696	The index of dispersion as a metric of quanta - unravelling the Fano factor. <b>2017</b> , 73, 675-695	4
695	Far-Field Photostable Optical Nanoscopy (PHOTON). <b>2017</b> , 566-570	
694	Interplay of Nanoparticle Resonance Frequency and Array Surface Coverage in Live-Cell Plasmon-Enhanced Single-Molecule Imaging. <b>2018</b> , 122, 5705-5709	6
693	Analysis of Microtubule Dynamics Heterogeneity in Cell Culture. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1745, 181-204	3
692	A Protocol for Real-time 3D Single Particle Tracking. <b>2018</b> ,	4
691	Quantitative super-resolution single molecule microscopy dataset of YFP-tagged growth factor receptors. <b>2018</b> , 7, 1-10	7
690	A peptide tag-specific nanobody enables high-quality labeling for dSTORM imaging. <b>2018</b> , 9, 930	93
689	Enrichment of ODMR-active nitrogen-vacancy centres in five-nanometre-sized detonation-synthesized nanodiamonds: Nanoprobes for temperature, angle and position. <b>2018</b> , 8, 5463	21
688	Flat-Field Super-Resolution Localization Microscopy with a Low-Cost Refractive Beam-Shaping Element. <b>2018</b> , 8, 5630	21
68 <sub>7</sub>	3DClusterViSu: 3D clustering analysis of super-resolution microscopy data by 3D Voronoi tessellations. <b>2018</b> , 34, 3004-3012	20

686	Single-Molecule Dynamics and Localization of DNA Repair Proteins in Cells. 2018, 600, 375-406		2
685	Versatile multiplexed super-resolution imaging of nanostructures by Quencher-Exchange-PAINT. <b>2018</b> , 11, 6141-6154		9
684	Using DNA origami nanorulers as traceable distance measurement standards and nanoscopic benchmark structures. <b>2018</b> , 8, 1780		24
683	Nitrogen-Doped Biocompatible Carbon Dot as a Fluorescent Probe for STORM Nanoscopy. <b>2018</b> , 122, 4704-4709		19
682	Colocalization and Disposition of Cellulosomes in as Revealed by Correlative Superresolution Imaging. <b>2018</b> , 9,		9
681	Bacterial Chemoreceptor Imaging at High Spatiotemporal Resolution Using Photoconvertible Fluorescent Proteins. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1729, 203-231	1.4	2
680	Spectrally Resolved and Functional Super-resolution Microscopy via Ultrahigh-Throughput Single-Molecule Spectroscopy. <b>2018</b> , 51, 697-705		39
679	Super-resolution optical microscopy resolves network morphology of smart colloidal microgels. <b>2018</b> , 20, 5074-5083		53
678	Super-resolution localization microscopy of radiation-induced histone H2AX-phosphorylation in relation to H3K9-trimethylation in HeLa cells. <b>2018</b> , 10, 4320-4331		33
677	Biophysical Techniques to Study B Cell Activation: Single-Molecule Imaging and Force Measurements. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1707, 51-68	1.4	3
676	An introduction to optical super-resolution microscopy for the adventurous biologist. <b>2018</b> , 6, 022003		95
675	Biological Insight from Super-Resolution Microscopy: What We Can Learn from Localization-Based Images. <b>2018</b> , 87, 965-989		106
674	Orthogonal Probing of Single-Molecule Heterogeneity by Correlative Fluorescence and Force Microscopy. <b>2018</b> , 12, 168-177		6
673	Super-Resolution Monitoring of Mitochondrial Dynamics upon Time-Gated Photo-Triggered Release of Nitric Oxide. <b>2018</b> , 90, 2164-2169		43
672	Single-molecule localization microscopy reveals molecular transactions during RAD51 filament assembly at cellular DNA damage sites. <b>2018</b> , 46, 2398-2416		20
671	Superresolution fluorescence microscopy for 3D reconstruction of thick samples. <b>2018</b> , 11, 17		10
670	3D super-resolution microscopy reflects mitochondrial cristae alternations and mtDNA nucleoid size and distribution. <b>2018</b> , 1859, 829-844		25

668	Non-heuristic automatic techniques for overcoming low signal-to-noise-ratio bias of localization microscopy and multiple signal classification algorithm. <b>2018</b> , 8, 4988	3
667	Cellular uptake efficiency of nanoparticles investigated by three-dimensional imaging. <b>2018</b> , 20, 11359-11368	3 14
666	Dual-Color and 3D Super-Resolution Microscopy of Multi-protein Assemblies. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1764, 237-251	7
665	Investigation of Nanoscopic Dynamics and Potentials by Interferometric Scattering Microscopy. <b>2018</b> ,	
664	Non-fluorescent Single-Molecule Approaches to Optical Microscopy. <b>2018</b> , 7-35	
663	Imaging the chemical activity of single nanoparticles with optical microscopy. <b>2018</b> , 47, 2485-2508	121
662	Identification of Individual Immobilized DNA Molecules by Their Hybridization Kinetics Using Single-Molecule Fluorescence Imaging. <b>2018</b> , 90, 5007-5014	13
661	Demonstration of Single-Barium-Ion Sensitivity for Neutrinoless Double-Beta Decay Using Single-Molecule Fluorescence Imaging. <b>2018</b> , 120, 132504	26
660	A single-atom 3D sub-attonewton force sensor. <b>2018</b> , 4, eaao4453	15
659	Single-Particle Tracking To Probe the Local Environment in Ice-Templated Crosslinked Colloidal Assemblies. <b>2018</b> , 34, 4603-4613	6
658	Overcoming diffraction limit: From microscopy to nanoscopy. <b>2018</b> , 53, 290-312	22
657	Quality of biological images, reconstructed using localization microscopy data. <b>2018</b> , 34, 845-852	4
656	Fluctuation localization imaging-based fluorescence in situ hybridization (fliFISH) for accurate detection and counting of RNA copies in single cells. <b>2018</b> , 46, e7	21
655	Single-Molecule Analysis for RISC Assembly and Target Cleavage. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1680, 145-164	2
654	Fluorescence Microscopy of Nanochannel-Confined DNA. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1665, 173- <b>1</b> .28	1
653	A Brief Introduction to Single-Molecule Fluorescence Methods. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1665, 93-113	5
652	Single-molecule techniques in biophysics: a review of the progress in methods and applications. <b>2018</b> , 81, 024601	84
651	Super-resolution morphological dissemination of intercalating dye in single DNA molecules via binding activated localization microscopy. <b>2018</b> , 29, 505-508	6

650	A green-light-emitting, spontaneously blinking fluorophore based on intramolecular spirocyclization for dual-colour super-resolution imaging. <b>2017</b> , 54, 102-105		36
649	Spatial cues and not spindle pole maturation drive the asymmetry of astral microtubules between new and preexisting spindle poles. <b>2018</b> , 29, 10-28		16
648	Cardiac and skeletal actin substrates uniquely tune cardiac myosin strain-dependent mechanics. <b>2018</b> , 8,		5
647	Tracking Photoluminescent Carbon Nanomaterials in Biological Systems. <b>2018</b> , 115-137		
646	A fluorescence nanoscopy marker for corticotropin-releasing hormone type 1 receptor: computer design, synthesis, signaling effects, super-resolved fluorescence imaging, and in situ affinity constant in cells. <b>2018</b> , 20, 29212-29220		6
645	The Precise Alignment and Auto-fusion of Correlative Cryo-SXT and Cryo-FM 2018, 24, 142-143		
644	Encyclopedia of Biophysics. <b>2018</b> , 1-7		
643	Spatial Organization of Single mRNPs at Different Stages of the Gene Expression Pathway. <b>2018</b> , 72, 727-738.e5		70
642	Theoretical analysis of spectral precision in spectroscopic single-molecule localization microscopy. <b>2018</b> , 89, 123703		15
641	Single-Nanoparticle Tracking with Angstrom Localization Precision and Microsecond Time Resolution. <i>Biophysical Journal</i> , <b>2018</b> , 115, 2413-2427	2.9	23
640		2.9	23
	Resolution. Biophysical Journal, <b>2018</b> , 115, 2413-2427	2.9	23
640	Resolution. <i>Biophysical Journal</i> , <b>2018</b> , 115, 2413-2427  Quantitative Super-Resolution Microscopy of Cardiomyocytes. <b>2018</b> , 37-73	2.9	
640	Resolution. <i>Biophysical Journal</i> , <b>2018</b> , 115, 2413-2427  Quantitative Super-Resolution Microscopy of Cardiomyocytes. <b>2018</b> , 37-73  Single cardiac ventricular myosins are autonomous motors. <b>2018</b> , 8,	2.9	12
640 639 638	Resolution. <i>Biophysical Journal</i> , <b>2018</b> , 115, 2413-2427  Quantitative Super-Resolution Microscopy of Cardiomyocytes. <b>2018</b> , 37-73  Single cardiac ventricular myosins are autonomous motors. <b>2018</b> , 8,  Photo-Induced Depletion of Binding Sites in DNA-PAINT Microscopy. <b>2018</b> , 23,	2.9	12 23
<ul><li>640</li><li>639</li><li>638</li><li>637</li></ul>	Resolution. <i>Biophysical Journal</i> , <b>2018</b> , 115, 2413-2427  Quantitative Super-Resolution Microscopy of Cardiomyocytes. <b>2018</b> , 37-73  Single cardiac ventricular myosins are autonomous motors. <b>2018</b> , 8,  Photo-Induced Depletion of Binding Sites in DNA-PAINT Microscopy. <b>2018</b> , 23,  Microscopy of the Heart. <b>2018</b> ,  mDia1/3 generate cortical F-actin meshwork in Sertoli cells that is continuous with contractile	2.9	12 23 1
<ul><li>640</li><li>639</li><li>638</li><li>637</li><li>636</li></ul>	Resolution. <i>Biophysical Journal</i> , <b>2018</b> , 115, 2413-2427  Quantitative Super-Resolution Microscopy of Cardiomyocytes. <b>2018</b> , 37-73  Single cardiac ventricular myosins are autonomous motors. <b>2018</b> , 8,  Photo-Induced Depletion of Binding Sites in DNA-PAINT Microscopy. <b>2018</b> , 23,  Microscopy of the Heart. <b>2018</b> ,  mDia1/3 generate cortical F-actin meshwork in Sertoli cells that is continuous with contractile F-actin bundles and indispensable for spermatogenesis and male fertility. <b>2018</b> , 16, e2004874  Differential Nanoscale Topography and Functional Role of GluN2-NMDA Receptor Subtypes at	2.9	12 23 1

632	Superresolution Diffuse Optical Imaging by Localization of Fluorescence. <b>2018</b> , 10,		5
631	Switchable Fluorophores for Single-Molecule Localization Microscopy. <i>Chemical Reviews</i> , <b>2018</b> , 118, 941	<b>269.4</b> 5	<b>4</b> 124
630	Single-Molecule Localization and Structured Illumination Microscopy of Platelet Proteins. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1812, 33-54	1.4	1
629	Subnanometer localization accuracy in widefield optical microscopy. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 31	16.7	18
628	Identification of PAmKate as a Red Photoactivatable Fluorescent Protein for Cryogenic Super-Resolution Imaging. <b>2018</b> , 140, 12310-12313		25
627	Single molecule tracking reveals that the bacterial SMC complex moves slowly relative to the diffusion of the chromosome. <b>2018</b> , 46, 7805-7819		18
626	The 2018 correlative microscopy techniques roadmap. <b>2018</b> , 51, 443001		63
625	Platelets and Megakaryocytes. <i>Methods in Molecular Biology</i> , <b>2018</b> ,	1.4	O
624	New ways of looking at very small holes using optical nanoscopy to visualize liver sinusoidal endothelial cell fenestrations. <b>2018</b> , 7, 575-596		13
623	Using Single Molecule mRNA Fluorescent in Situ Hybridization (RNA-FISH) to Quantify mRNAs in Individual Murine Oocytes and Embryos. <b>2018</b> , 8, 7930		15
622	MINFLUX monitors rapid molecular jumps with superior spatiotemporal resolution. <b>2018</b> , 115, 6117-612	22	65
621	Intranucleus Single-Molecule Imaging inLiving Cells. <i>Biophysical Journal</i> , <b>2018</b> , 115, 181-189	2.9	15
620	Breaking the Axial Diffraction Limit: A Guide to Axial Super-Resolution Fluorescence Microscopy. <b>2018</b> , 12, 1700333		24
619	Experimental assessment and analysis of super-resolution in fluorescence microscopy based on multiple-point spread function fitting of spectrally demultiplexed images. <b>2018</b> , 25, 384-390		
618	Understanding Protein Mobility in Bacteria by Tracking Single Molecules. 2018, 430, 4443-4455		29
617	Coordinating Multi-Protein Mismatch Repair by Managing Diffusion Mechanics on the DNA. <b>2018</b> , 430, 4469-4480		6
616	Multi-color Localization Microscopy of Single Membrane Proteins in Organelles of Live Mammalian Cells. <b>2018</b> ,		7
615	Molecular coordination of cell division. <b>2018</b> , 7,		40

614 Coupling effects in position observations due to residual misalignments of imaging axes in counter-propagating dual-beam optical traps. **2018**, 426, 642-647

613	Rhodamine-Derived Fluorescent Dye with Inherent Blinking Behavior for Super-Resolution Imaging. <b>2018</b> , 90, 9165-9173	24
612	Optimizing likelihood models for particle trajectory segmentation in multi-state systems. <b>2018</b> , 15, 066003	2
611	Force-activated catalytic pathway accelerates bacterial adhesion against flow. <b>2018</b> , 475, 2611-2620	1
610	Optimization of sample preparation and green color imaging using the mNeonGreen fluorescent protein in bacterial cells for photoactivated localization microscopy. <b>2018</b> , 8, 10137	7
609	Correlative Atomic Force and Single-Molecule Fluorescence Microscopy of Nucleoprotein Complexes. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1814, 339-359	O
608	Artifact-free high-density localization microscopy analysis. <b>2018</b> , 15, 689-692	59
607	Improving axial resolution for holographic tracking of colloids and bacteria over a wide depth of field by optimizing different factors. <i>Optics Express</i> , <b>2018</b> , 26, 9920-9930	4
606	Light sheet approaches for improved precision in 3D localization-based super-resolution imaging in mammalian cells [Invited]. <i>Optics Express</i> , <b>2018</b> , 26, 13122-13147	30
605	Super-Resolution Imaging as a Method to Study GPCR Dimers and Higher-Order Oligomers. <b>2018</b> , 329-343	
604	Using Persistent Homology as a New Approach for Super-Resolution Localization Microscopy Data Analysis and Classification of ℍ2AX Foci/Clusters. <b>2018</b> , 19,	24
603	Localization Microscopy Analyses of MRE11 Clusters in 3D-Conserved Cell Nuclei of Different Cell Lines. <b>2018</b> , 10,	19
602	Multicolor Tracking of Molecular Motors at Nanometer Resolution. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1805, 139-149	
601	TCRs are randomly distributed on the plasma membrane of resting antigen-experienced T cells. <b>2018</b> , 19, 821-827	58
600	Quantitative fibre analysis of single-molecule localization microscopy data. <b>2018</b> , 8, 10418	14
599	A Theoretical High-Density Nanoscopy Study Leads to the Design of UNLOC, a Parameter-free Algorithm. <i>Biophysical Journal</i> , <b>2018</b> , 115, 565-576	18
598	Optical characterization of surface adlayers and their compositional demixing at the nanoscale. <b>2018</b> , 9, 1435	7
597	Particle tracking by repetitive phase-shift interferometric super resolution microscopy. <b>2018</b> , 43, 2819-2822	3

596	All-Optical Self-Referenced Transverse Position Sensing with Subnanometer Precision. <b>2018</b> , 5, 3628-3633	4
595	Axial point source localization using variable displacementEhange point detection. 2018, 35, 1140	2
594	Resolving ESCRT-III Spirals at the Intercellular Bridge of Dividing Cells Using 3D STORM. <b>2018</b> , 24, 1756-1764	43
593	A High-Efficiency Super-Resolution Reconstruction Method for Ultrasound Microvascular Imaging. <b>2018</b> , 8, 1143	3
592	Malic Acid Carbon Dots: From Super-resolution Live-Cell Imaging to Highly Efficient Separation. <b>2018</b> , 12, 5741-5752	98
591	Optimized protocol for combined PALM-dSTORM imaging. <b>2018</b> , 8, 8749	10
590	Modelling BioNano optical data and simulation study of genome map assembly. 2018, 34, 3966-3974	10
589	SPATA7 maintains a novel photoreceptor-specific zone in the distal connecting cilium. <b>2018</b> , 217, 2851-2865	26
588	Multiscale and Multimodal Imaging for Connectomics. <b>2019</b> , 3-45	
587	Nuclear export of mRNA molecules studied by SPEED microscopy. <b>2019</b> , 153, 46-62	5
587 586	Nuclear export of mRNA molecules studied by SPEED microscopy. <b>2019</b> , 153, 46-62  [INVITED] Optical imaging and localization of prospective scattering labels smaller than a single protein. <b>2019</b> , 109, 323-327	5
	[INVITED] Optical imaging and localization of prospective scattering labels smaller than a single	
586	[INVITED] Optical imaging and localization of prospective scattering labels smaller than a single protein. <b>2019</b> , 109, 323-327	14
586 585	[INVITED] Optical imaging and localization of prospective scattering labels smaller than a single protein. <b>2019</b> , 109, 323-327  Super-Resolution Optical Lithography with DNA. <b>2019</b> , 19, 6035-6042  Oblique-plane single-molecule localization microscopy for tissues and small intact animals. <b>2019</b> ,	14
586 585 584	[INVITED] Optical imaging and localization of prospective scattering labels smaller than a single protein. 2019, 109, 323-327  Super-Resolution Optical Lithography with DNA. 2019, 19, 6035-6042  Oblique-plane single-molecule localization microscopy for tissues and small intact animals. 2019, 16, 853-857	14 6 39
586 585 584 583	[INVITED] Optical imaging and localization of prospective scattering labels smaller than a single protein. 2019, 109, 323-327  Super-Resolution Optical Lithography with DNA. 2019, 19, 6035-6042  Oblique-plane single-molecule localization microscopy for tissues and small intact animals. 2019, 16, 853-857  High-Resolution 3D Light Microscopy with STED and RESOLFT. 2019, 3-32  A primer on resolving the nanoscale structure of the plasma membrane with light and electron	14 6 39 9
586 585 584 583 582	[INVITED] Optical imaging and localization of prospective scattering labels smaller than a single protein. 2019, 109, 323-327  Super-Resolution Optical Lithography with DNA. 2019, 19, 6035-6042  Oblique-plane single-molecule localization microscopy for tissues and small intact animals. 2019, 16, 853-857  High-Resolution 3D Light Microscopy with STED and RESOLFT. 2019, 3-32  A primer on resolving the nanoscale structure of the plasma membrane with light and electron microscopy. 2019, 151, 974-985  Insights into Kinesin-1 Stepping from Simulations and Tracking of Gold Nanoparticle-Labeled	14 6 39 9 8

578 References. **2019**, 437-485

577	Parallelized DNA tethered bead measurements to scrutinize DNA mechanical structure. <b>2019</b> , 169, 46-56	1
576	Single-molecule localization microscopy and tracking with red-shifted states of conventional BODIPY conjugates in living cells. <b>2019</b> , 10, 3400	24
575	Rhenium (I) Complexes as Probes for Prokaryotic and Fungal Cells by Fluorescence Microscopy: Do Ligands Matter?. <b>2019</b> , 7, 454	15
574	3D particle tracking using a dual-objective fluorescent reflection system with spherical aberration. <b>2019</b> , 52, 385403	
573	Quantum dots in single molecule spectroscopy. <b>2019</b> , 163-228	1
572	Multicolor High-Speed Tracking of Single Biomolecules with Silver, Gold, and Silver <b>©</b> old Alloy Nanoparticles. <b>2019</b> , 6, 2870-2883	11
571	Fluorescence imaging with tailored light. <b>2019</b> , 8, 2111-2128	19
570	Photoactivation of silicon rhodamines via a light-induced protonation. <b>2019</b> , 10, 4580	19
569	Mitochondrion-Specific Blinking Fluorescent Bioprobe for Nanoscopic Monitoring of Mitophagy. <b>2019</b> , 13, 11593-11602	36
568	. 2019,	8
567	Nanoscale Distribution of Nuclear Sites by Super-Resolved Image Cross-Correlation Spectroscopy. <i>Biophysical Journal</i> , <b>2019</b> , 117, 2054-2065	10
566	Spectroscopic fluorescent tracking of a single molecule in a live cell with a dual-objective fluorescent reflection microscope. <b>2019</b> , 12, 112007	1
565	An Adaptive Real-Time 3D Single Particle Tracking Method for Monitoring Viral First Contacts. <b>2019</b> , 15, e1903039	5
564	Introduction. <b>2019</b> , 3-12	
563	Single-Atom Fluorescence Switch: A General Approach toward Visible-Light-Activated Dyes for Biological Imaging. <b>2019</b> , 141, 14699-14706	50
562	Closed-Form Expression Of The Fourier Ring-Correlation For Single-Molecule Localization Microscopy. <b>2019</b> ,	1
561	Molecular resolution imaging by repetitive optical selective exposure. <b>2019</b> , 16, 1114-1118	47

560	Single-photon avalanche diode imagers in biophotonics: review and outlook. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 87	111
559	Analysis of the Diffusivity Change from Single-Molecule Trajectories on Living Cells. <b>2019</b> , 91, 13390-13397	3
558	Single molecule spectroscopy at interfaces. <b>2019</b> , 117-161	4
557	Three-dimensional single-molecule tracking in living cells. <b>2019</b> , 229-267	1
556	mmSTORM: Multimodal localization based super-resolution microscopy. <b>2019</b> , 9, 798	1
555	Nonlinear Actomyosin Elasticity in Muscle?. <i>Biophysical Journal</i> , <b>2019</b> , 116, 330-346	5
554	Super-resolution microscopy as a powerful tool to study complex synthetic materials. 2019, 3, 68-84	92
553	Correlative cryo super-resolution light and electron microscopy on mammalian cells using fluorescent proteins. <b>2019</b> , 9, 1369	55
552	MAVS polymers smaller than 80 nm induce mitochondrial membrane remodeling and interferon signaling. <b>2019</b> , 286, 1543-1560	11
551	Molecular and living cell dynamic assays with optical microscopy imaging techniques. <b>2019</b> , 144, 859-871	19
550	On the impact of competing intra- and intermolecular triplet-state quenching on photobleaching and photoswitching kinetics of organic fluorophores. <b>2019</b> , 21, 3721-3733	15
549	Direct wavefront sensing enables functional imaging of infragranular axons and spines. <b>2019</b> , 16, 615-618	38
548	Single-defect spectroscopy in the shortwave infrared. <b>2019</b> , 10, 2672	18
547	Nanoscale Organization of Vesicle Release at Central Synapses. <b>2019</b> , 42, 425-437	13
546	Single-Molecule Nanoscopy Elucidates RNA Polymerase II Transcription at Single Genes in Live Cells. <b>2019</b> , 178, 491-506.e28	60
545	3D Tracking-Free Approach for Obtaining 3D Super-Resolution Information in Rotationally Symmetric Biostructures. <b>2019</b> , 123, 5107-5120	5
544	Precise Time Superresolution by Event Correlation Microscopy. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1732-174 <b>2</b> .9	
543	Superresolution method for a single wide-field image deconvolution by superposition of point sources. <b>2019</b> , 275, 51-65	7

542	Preferred Formation of Heteromeric Channels between Coexpressed SK1 and IKCa Channel Subunits Provides a Unique Pharmacological Profile of Ca-Activated Potassium Channels. <b>2019</b> , 96, 115-126	5 7
541	Single-Molecule Localization Microscopy with the Fluorescence-Activating and Absorption-Shifting Tag (FAST) System. <b>2019</b> , 14, 1115-1120	19
540	Optimal Multivariate Gaussian Fitting with Applications to PSF Modeling in Two-Photon Microscopy Imaging. <b>2019</b> , 61, 1037-1050	8
539	Optical Super-Resolution Imaging in Single Molecule Nanocatalysis. <b>2019</b> , 63-105	
538	Mechanical Contact Spectroscopy: Characterizing Nanoscale Adhesive Contacts via Thermal Forces. <b>2019</b> , 35, 5809-5820	1
537	Practical Considerations in Particle and Object Tracking and Analysis. <b>2019</b> , 83, e88	11
536	Single-molecule live cell imaging of Rep reveals the dynamic interplay between an accessory replicative helicase and the replisome. <b>2019</b> , 47, 6287-6298	21
535	The Lateral Organization and Mobility of Plasma Membrane Components. <b>2019</b> , 177, 806-819	93
534	Interferometric Scattering Microscopy. <b>2019</b> , 70, 301-322	48
533	Enhancement of spatial resolution of ghost imaging via localizing and thresholding. <b>2019</b> , 28, 044202	
532	Use of Single Molecule Fluorescent In Situ Hybridization (SM-FISH) to Quantify and Localize mRNAs in Murine Oocytes. <b>2019</b> ,	1
531	A Light-Field Metasurface for High-Resolution Single-Particle Tracking. <b>2019</b> , 19, 2267-2271	24
530	Waveguide-PAINT offers an open platform for large field-of-view super-resolution imaging. <b>2019</b> , 10, 1267	30
529	SMALL-LABS: Measuring Single-Molecule Intensity and Position in Obscuring Backgrounds. <i>Biophysical Journal</i> , <b>2019</b> , 116, 975-982	12
528	Transcriptome-scale super-resolved imaging in tissues by RNA seqFISH. <b>2019</b> , 568, 235-239	554
527	Single-molecule localization microscopy analysis with ImageJ. <b>2019</b> , 52, 203002	12
526	Two-Dimensional and Three-Dimensional Single Particle Tracking of Upconverting Nanoparticles in Living Cells. <b>2019</b> , 20,	18
525	MTrack: Automated Detection, Tracking, and Analysis of Dynamic Microtubules. <b>2019</b> , 9, 3794	15

524 Super-Resolution Fluorescence Microscopy. **2019**, 613-636

523	Solid immersion microscopy images cells under cryogenic conditions with 12 nm resolution. <b>2019</b> , 2, 74	27
522	A stochastic view on surface inhomogeneity of nanoparticles. <b>2019</b> , 10, 1663	12
521	Structure and Dynamics of the EGF Receptor as Revealed by Experiments and Simulations and Its Relevance to Non-Small Cell Lung Cancer. <b>2019</b> , 8,	15
520	Flat-top TIRF illumination boosts DNA-PAINT imaging and quantification. <b>2019</b> , 10, 1268	39
519	Super-resolution Mapping of Enhanced Emission by Collective Plasmonic Resonances. <b>2019</b> , 13, 4514-4521	<b>2</b> O
518	Strategy to Lengthen the On-Time of Photochromic Rhodamine Spirolactam for Super-resolution Photoactivated Localization Microscopy. <b>2019</b> , 141, 6527-6536	52
517	In vivo superresolution photoacoustic computed tomography by localization of single dyed droplets. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 36	42
516	MemBright: A Family of Fluorescent Membrane Probes for Advanced Cellular Imaging and Neuroscience. <b>2019</b> , 26, 600-614.e7	74
515	Superlocalized Three-Dimensional Live Imaging of Mitochondrial Dynamics in Neurons Using Plasmonic Nanohole Arrays. <b>2019</b> , 13, 3063-3074	27
514	Syndapin constricts microvillar necks to form a united rhabdomere in photoreceptors. <b>2019</b> , 146,	1
513	. 2019,	О
512	SNAPS: Sensor Analytics Point Solutions for Detection and Decision Support Systems. <b>2019</b> , 19,	11
511	Photo-activated raster scanning thermal imaging at sub-diffraction resolution. <b>2019</b> , 10, 5523	15
510	The Biology of mRNA: Structure and Function. <b>2019</b> ,	2
509	Chromatin dynamics governed by a set of nuclear structural proteins. <b>2019</b> , 58, 437-451	11
508	What we talk about when we talk about nanoclusters. <b>2018</b> , 7, 013001	14
507	Characterization of functionalized glass and indium tin oxide surfaces as substrates for super-resolution microscopy. <b>2019</b> , 52, 034003	1

506	Measuring optical beam shear angle of polarizing prisms beyond the diffraction limit with localization method. <b>2019</b> , 435, 227-231	2
505	Chromatin imaging and new technologies for imaging the nucleome. <b>2019</b> , 11, e1442	4
504	High-Affinity Bent ∄ntegrin Molecules in Arresting Neutrophils Face Each Other through Binding to ICAMs In cis. <b>2019</b> , 26, 119-130.e5	28
503	A Method to Visualize the Nanoscopic Morphology of Astrocytes In Vitro and In Situ. <i>Methods in Molecular Biology,</i> <b>2019</b> , 1938, 69-84	3
502	Optical Microscopic Techniques for Synthetic Polymer Characterization. <b>2019</b> , 91, 405-424	13
501	Correlative iPALM and SEM resolves virus cavity and Gag lattice defects in HIV virions. <b>2019</b> , 48, 15-23	9
500	Wavelength-scale errors in optical localization due to spin-orbit coupling of light. <b>2019</b> , 15, 17-21	31
499	Development of 2-colour and 3D SMLM data analysis methods for fibrous spatial point patterns. <b>2019</b> , 52, 014005	2
498	Intrinsic Dynamics of a Human Gene Reveal the Basis of Expression Heterogeneity. <b>2019</b> , 176, 213-226.e18	84
497	Organic fluorescent probes for stochastic optical reconstruction microscopy (STORM): Recent highlights and future possibilities. <b>2019</b> , 380, 17-34	21
496	Spatial mapping of affinity changes for the integrin LFA-1 during cell migration using clusters identified based on local density. <b>2019</b> , 12, e201800080	3
495	Fluorescence anisotropy imaging in drug discovery. <b>2019</b> , 151-152, 262-288	29
494	Fluorescence microscopy for visualizing single-molecule protein dynamics. <b>2020</b> , 1864, 129362	12
493	About samples, giving examples: Optimized Single Molecule Localization Microscopy. <b>2020</b> , 174, 100-114	37
492	Imaging tripartite synapses using super-resolution microscopy. <b>2020</b> , 174, 81-90	16
491	3D super-resolution microscopy performance and quantitative analysis assessment using DNA-PAINT and DNA origami test samples. <b>2020</b> , 174, 56-71	17
490	Towards mapping the 3D genome through high speed single-molecule tracking of functional transcription factors in single living cells. <b>2020</b> , 170, 82-89	13
489	Multiresolution Localization with Temporal Scanning for Super-Resolution Diffuse Optical Imaging of Fluorescence. <b>2019</b> ,	3

488	Single-Molecule Analysis and Engineering of DNA Motors. <i>Chemical Reviews</i> , <b>2020</b> , 120, 36-78 68.1	33
487	Fluorescence microscopy methods for the study of protein oligomerization. <b>2020</b> , 169, 1-41	7
486	Nanoconfinement and Mass Transport in Silica Mesopores: the Role of Charge at the Single Molecule and Single Pore Levels. <b>2020</b> , 92, 1416-1423	10
485	Antibody-induced crosslinking and cholesterol-sensitive, anomalous diffusion of nicotinic acetylcholine receptors. <b>2020</b> , 152, 663-674	5
484	Optical super-resolution microscopy in polymer science. <b>2020</b> , 111, 101312	10
483	Multiplex flow magnetic tweezers reveal rare enzymatic events with single molecule precision. <b>2020</b> , 11, 4714	12
482	Nanoelectromechanical photothermal polarization microscopy with 3 docalization precision. <b>2020</b> , 128, 134501	2
481	Gaining insight into cellular cardiac physiology using single particle tracking. <b>2020</b> , 148, 63-77	1
480	Chromatin Viscoelasticity Measured by Local Dynamic Analysis. <i>Biophysical Journal</i> , <b>2020</b> , 118, 2258-226 <b>2</b> .9	7
479	Nanobiophotonics and fluorescence nanoscopy in 2020. <b>2020</b> , 113-162	O
478	High-Precision Protein-Tracking With Interferometric Scattering Microscopy. <b>2020</b> , 8, 590158	3
477	Single Particle Approaches to Plasmon-Driven Catalysis. <b>2020</b> , 10,	9
476	Lateral diffusion of CD14 and TLR2 in macrophage plasma membrane assessed by raster image correlation spectroscopy and single[particle tracking. <b>2020</b> , 10, 19375	3
475	Hypothesis: Single Actomyosin Properties Account for Ensemble Behavior in Active Muscle Shortening and Isometric Contraction. <b>2020</b> , 21,	4
474	Electron-Transparent Thermoelectric Coolers Demonstrated with Nanoparticle and Condensation Thermometry. <b>2020</b> , 14, 11510-11517	4
473	Cryogenic Far-Field Fluorescence Nanoscopy: Evaluation with DNA Origami. <b>2020</b> , 124, 7525-7536	1
472	Emerging Low-Dimensional Nanoagents for Bio-Microimaging. <b>2020</b> , 30, 2003147	8
471	Measuring Gaussian Rigidity Using Curved Substrates. <b>2020</b> , 125, 188002	1

### (2020-2020)

470	How good are my data? Reference standards in superresolution microscopy. <b>2020</b> , 31, 2093-2096	6
469	Transient binding and jumping dynamics of p53 along DNA revealed by sub-millisecond resolved single-molecule fluorescence tracking. <b>2020</b> , 10, 13697	7
468	Probability of Immobilization on Host Cell Surface Regulates Viral Infectivity. <b>2020</b> , 125, 128101	1
467	Optical nanoscopy. <b>2020</b> , 43, 385-455	6
466	100th Anniversary of Macromolecular Science Viewpoint: Enabling Advances in Fluorescence Microscopy Techniques. <b>2020</b> , 9, 1342-1356	10
465	Imaging with Nanometer Resolution Using Optically Active Defects in Silicon Carbide. <b>2020</b> , 14,	7
464	The Decade of Super-Resolution Microscopy of the Presynapse. <b>2020</b> , 12, 32	10
463	Multicolor 3D-dSTORM Reveals Native-State Ultrastructure of Polysaccharides@Network during Plant Cell Wall Assembly. <b>2020</b> , 23, 101862	6
462	Data-Driven Microscopic Pose and Depth Estimation for Optical Microrobot Manipulation. 2020, 7, 3003-3014	3
461	A novel cytogenetic method to image chromatin interactions at subkilobase resolution: Tn5 transposase-based fluorescence in situ hybridization. <b>2020</b> , 47, 727-735	2
460	Wide spectrum denoising (WSD) for super-resolution microscopy imaging using compressed sensing and a high-resolution camera. <b>2020</b> , 1651, 012177	0
459	Slow-Light-Enhanced Optical Imaging of Microfiber Radius Variations with Subangstrom Precision. <b>2020</b> , 14,	Ο
458	Spatial and Spectral Super-resolution Imaging for Characterizing Multichromophoric Systems. <b>2020</b> , 124, 25568-25577	1
457	Analysis of Random Dynamics of Cell Segmented by a Modified Active Contour Method. <b>2020</b> , 10, 6806	Ο
456	Syndecan-4 Modulates Cell Polarity and Migration by Influencing Centrosome Positioning and Intracellular Calcium Distribution. <b>2020</b> , 8, 575227	8
455	Single-Nanoparticle Orientation Sensing by Deep Learning. <b>2020</b> , 6, 2339-2346	7
454	dotdotdot: an automated approach to quantify multiplex single molecule fluorescent in situ hybridization (smFISH) images in complex tissues. <b>2020</b> , 48, e66	15
453	Mapping Fluorescence Enhancement of Plasmonic Nanorod Coupled Dye Molecules. <b>2020</b> , 10,	4

452	Complex Nanoparticle Diffusional Motion in Liquid-Cell Transmission Electron Microscopy. <b>2020</b> , 124, 14881-14890		8
451	Near-infrared fluorescent protein and bioluminescence-based probes for high-resolution in vivo optical imaging. <b>2020</b> , 1, 967-987		7
450	Probing the origin of photoluminescence blinking in graphene nanoribbons: Influence of plasmonic field enhancement. <b>2020</b> , 7, 045009		
449	Molecular height measurement by cell surface optical profilometry (CSOP). <b>2020</b> , 117, 14209-14219		9
448	Modulation-enhanced localization microscopy. <b>2020</b> , 2, 041001		17
447	Analysis and refinement of 2D single-particle tracking experiments. <b>2020</b> , 15, 021201		8
446	A live-cell super-resolution technique demonstrated by imaging germinosomes in wild-type bacterial spores. <b>2020</b> , 10, 5312		10
445	Nanoscale magnetic imaging enabled by nitrogen vacancy centres in nanodiamonds labelled by iron-oxide nanoparticles. <b>2020</b> , 12, 8847-8857		8
444	Quantum Dots. Methods in Molecular Biology, 2020,	1.4	
443	Single photon emission and single spin coherence of a nitrogen vacancy center encapsulated in silicon nitride. <b>2020</b> , 116, 134001		3
442	Resolving Membrane Protein-Protein Interactions in Live Cells with Pulsed Interleaved Excitation Fluorescence Cross-Correlation Spectroscopy. <b>2020</b> , 53, 792-799		10
441	Fluorescence polarization filtering for accurate single molecule localization. <b>2020</b> , 5, 061302		11
440	Characterization of Photophysical Properties of Photoactivatable Fluorescent Proteins for Super-Resolution Microscopy. <b>2020</b> , 124, 1892-1897		1
439	Nonlinear Spectral-Imaging Study of Second- and Third-Harmonic Enhancements by Surface-Lattice Resonances. <b>2020</b> , 8, 1901981		6
438	SpineJ: A software tool for quantitative analysis of nanoscale spine morphology. 2020, 174, 49-55		10
437	Biphasic unbinding of a metalloregulator from DNA for transcription (de)repression in Live Bacteria. <b>2020</b> , 48, 2199-2208		2
436	Three dimensional spatiotemporal nano-scale position retrieval of the confined diffusion of nano-objects inside optofluidic microstructured fibers. <b>2020</b> , 12, 3146-3156		12
	Single-Virus Tracking: From Imaging Methodologies to Virological Applications. <i>Chemical Reviews</i> ,		

### (2021-2020)

434	Optical Absorption. <b>2020</b> , 14, 164-170	35
433	Spontaneously Blinking Fluorophores Based on Nucleophilic Addition/Dissociation of Intracellular Glutathione for Live-Cell Super-resolution Imaging. <b>2020</b> , 142, 9625-9633	24
432	Single Molecule Microscopy in Neurobiology. <b>2020</b> ,	O
431	Photoactivatable fluorophores for single-molecule localization microscopy of live cells. <b>2020</b> , 8, 032002	7
430	Micro-stepping extended focus reduces photobleaching and preserves structured illumination super-resolution features. <b>2020</b> , 133,	2
429	Ultrasound-enhanced diffusion and streaming of colloids in porous media. <b>2021</b> , 121, 110282	2
428	Pulsed Interleaved MINFLUX. 2021, 21, 840-846	18
427	Tracking and interpreting long-range chromatin interactions with super-resolution live-cell imaging. <b>2021</b> , 70, 18-26	20
426	Super-Resolution Characterization of Heterogeneous Light-Matter Interactions between Single Dye Molecules and Plasmonic Nanoparticles. <b>2021</b> , 93, 430-444	3
425	Models of Direct Time-of-Flight Sensor Precision That Enable Optimal Design and Dynamic Configuration. <b>2021</b> , 70, 1-9	3
424	Evidence for S2 flexibility by direct visualization of quantum dot-labeled myosin heads and rods within smooth muscle myosin filaments moving on actin in vitro. <b>2021</b> , 153,	1
423	Single molecule fluorescence imaging of nanoconfinement in porous materials. <b>2021</b> , 50, 6483-6506	10
422	Where in the cell is my protein?. <b>2021</b> , 54, e9	2
421	Nanoscopic Structural Fluctuations of Disassembling Microtubules Revealed by Label-Free Super-Resolution Microscopy <b>2021</b> , 5, e2000985	4
420	Polarization-resolved single-molecule tracking reveals strange dynamics of fluorescent tracers through a deep rubbery polymer network. <b>2021</b> , 23, 10835-10844	1
419	Probing mechanotransduction in living cells by optical tweezers and FRET-based molecular force microscopy.	
418	Four-Color Single-Molecule Imaging with Engineered Tags Resolves the Molecular Architecture of Signaling Complexes in the Plasma Membrane.	
417	Nuclear envelope mechanobiology: linking the nuclear structure and function. <b>2021</b> , 12, 90-114	2

416	PySTACHIO: Python Single-molecule TrAcking stoiCHiometry Intensity and simulatiOn, a flexible, extensible, beginner-friendly and optimized program for analysis of single-molecule microscopy data. <b>2021</b> , 19, 4049-4058	6
415	Tetrameric UvrD helicase is located at the E. coli replisome due to frequent replication blocks.	
414	Emerin oligomerization and nucleoskeletal coupling at the nuclear envelope regulate nuclear mechanics against stress.	1
413	An Estimation Algorithm for General Linear Single Particle Tracking Models with Time-Varying Parameters. <b>2021</b> , 26,	5
412	Submicron spatial resolution optical coherence tomography for visualising the 3D structures of cells cultivated in complex culture systems. <b>2021</b> , 11, 3492	2
411	Parallel, linear, and subnanometric 3D tracking of microparticles with Stereo Darkfield Interferometry. <b>2021</b> , 7,	3
410	Single-particle tracking photoactivated localization microscopy of membrane proteins in living plant tissues. <b>2021</b> , 16, 1600-1628	13
409	Application of Advanced Light Microscopy to the Study of HIV and Its Interactions with the Host. <b>2021</b> , 13,	1
408	Super-Resolution Mapping of a Chemical Reaction Driven by Plasmonic Near-Fields. <b>2021</b> , 21, 2149-2155	6
407	Improving localization precision via restricting biomolecule confined stochastic motion in SMLM.	
406	Elucidation of the Clustered Nano-Architecture of Radiation-Induced DNA Damage Sites and Surrounding Chromatin in Cancer Cells: A Single Molecule Localization Microscopy Approach. <b>2021</b> , 22,	7
405	Improved resolution in single-molecule localization microscopy using QD-PAINT. <b>2021</b> , 53, 384-392	4
404	Probing mechanotransduction in living cells by optical tweezers and FRET-based molecular force microscopy. <b>2021</b> , 136, 1	1
403	Covariance distributions in single particle tracking. <b>2021</b> , 103, 032405	1
402	PySTACHIO: Python Single-molecule TrAcking stoiCHiometry Intensity and simulatiOn, a flexible, extensible, beginner-friendly and optimized program for analysis of single-molecule microscopy data.	О
401	Localization of Nonblinking Point Sources Using Higher-Order-Mode Detection and Optical Heterodyning: Developing a Strategy for Extending the Scope of Molecular, Super-resolution Imaging. <b>2021</b> , 125, 3092-3104	O
400	Super-resolving Microscopy in Neuroscience. <i>Chemical Reviews</i> , <b>2021</b> , 121, 11971-12015 68.1	12
399	Quantitative digital microscopy with deep learning. <b>2021</b> , 8, 011310	14

398	Advanced imaging and labelling methods to decipher brain cell organization and function. 2021, 22, 237-255	28
397	Tracking the Coupling of Single Emitters to Plasmonic Nanoantennas with Single-Molecule Super-Resolution Imaging. <b>2021</b> , 8, 1020-1026	3
396	Single Molecule-Based fliFISH Validates Radial and Heterogeneous Gene Expression Patterns in Pancreatic Islet 眨ells. <b>2021</b> , 70, 1117-1122	1
395	High-resolution Fourier light-field microscopy for volumetric multi-color live-cell imaging. <b>2021</b> , 8, 614-620	4
394	Laser-free super-resolution microscopy. <b>2021</b> , 379, 20200144	4
393	Pseudo-two-dimensional dynamics in a system of macroscopic rolling spheres. <b>2021</b> , 103, 042903	3
392	Molecular structure of the intact bacterial flagellar basal body. <b>2021</b> , 6, 712-721	14
391	Super-resolved Optical Mapping of Reactive Sulfur-Vacancies in Two-Dimensional Transition Metal Dichalcogenides. <b>2021</b> , 15, 7168-7178	2
390	Improving spatial precision and field-of-view in wavelength-tagged single-particle tracking using spectroscopic single-molecule localization microscopy. <b>2021</b> , 60, 3647-3658	1
389	Enhanced UnaG With Minimal Labeling Artifact for Single-Molecule Localization Microscopy. <b>2021</b> , 8, 647590	1
388	Label-free, mass-sensitive single-molecule imaging using interferometric scattering microscopy. <b>2021</b> , 65, 81-91	1
387	Cryogenic Super-Resolution Fluorescence and Electron Microscopy Correlated at the Nanoscale. <b>2021</b> , 72, 253-278	10
386	Simulation and tracking of fractional particles motion. From microscopy video to statistical analysis. A Brownian bridge approach. <b>2021</b> , 396, 125902	1
385	Recovering mixtures of fast diffusing states from short single particle trajectories.	3
384	Nanoscale Imaging of RNA-Protein Interactions with a Photoactivatable Trimolecular Fluorescence Complementation System. <b>2021</b> , 16, 1003-1010	1
383	Nitroso-Caged Rhodamine: A Superior Green Light-Activatable Fluorophore for Single-Molecule Localization Super-Resolution Imaging. <b>2021</b> , 93, 7833-7842	6
382	Super-Resolution Radiation Biology: From Bio-Dosimetry towards Nano-Studies of DNA Repair Mechanisms.	3
381	Expectation maximization based framework for joint localization and parameter estimation in single particle tracking from segmented images. <b>2021</b> , 16, e0243115	1

 $38\mathrm{o}$   $\,$  Tuneable wide-field illumination and single-molecule photoswitching with a single MEMS mirror.

379	Single-molecule localization microscopy. <b>2021</b> , 1,	67
378	Perovskite Quantum Dots for Super-Resolution Optical Microscopy: Where Strong Photoluminescence Blinking Matters. <b>2021</b> , 9, 2100620	3
377	Glass-like characteristics of intracellular motion in human cells. <i>Biophysical Journal</i> , <b>2021</b> , 120, 2355-236 <b>6</b> .9	2
376	The nanoscale molecular morphology of docked exocytic dense-core vesicles in neuroendocrine cells. <b>2021</b> , 12, 3970	5
375	Crystal structure of the human NKR-P1 bound to its lymphocyte ligand LLT1 reveals receptor clustering in the immune synapse.	
374	Study of waveguide background at visible wavelengths for on-chip nanoscopy. <i>Optics Express</i> , <b>2021</b> , 29, 20735-20746	2
373	Single-molecule imaging of chromatin remodelers reveals role of ATPase in promoting fast kinetics of target search and dissociation from chromatin. <b>2021</b> , 10,	3
372	Silinanyl Rhodamines and Silinanyl Fluoresceins for Super-Resolution Microscopy. <b>2021</b> , 125, 8703-8711	0
371	Towards a <b>G</b> pot On <b>O</b> Inderstanding of Transcription in the Nucleus. <b>2021</b> , 433, 167016	6
370	Single Molecules Are Your Quanta: A Bottom-Up Approach toward Multidimensional Super-resolution Microscopy. <b>2021</b> ,	3
369	Plasmon-enhanced fluorescence correlation spectroscopy for super-localized detection of nanoscale subcellular dynamics. <b>2021</b> , 184, 113219	3
368	Drosophila Models Rediscovered with Super-Resolution Microscopy. <b>2021</b> , 10,	1
367	Seeing beyond the limit: A guide to choosing the right super-resolution microscopy technique. <b>2021</b> , 297, 100791	14
366	Automated tracking of S. pombe spindle elongation dynamics. <b>2021</b> , 284, 83-94	1
365	Super-Resolution Image Reconstruction Based on Single-Molecule Localization Algorithm. <b>2021</b> , 8, 273	1
364	Super-Resolution Fluorescence Microscopy Methods for Assessing Mouse Biology. <b>2021</b> , 1, e224	1
363	Bayesian inference of multi-point macromolecular architecture mixtures at nanometre resolution.	

362	Quantitative live-cell PALM reveals nanoscopic Faa4 redistributions and dynamics on lipid droplets during metabolic transitions of yeast. <b>2021</b> , 32, 1565-1578	1
361	Tunable Wide-Field Illumination and Single-Molecule Photoswitching with a Single MEMS Mirror. <b>2021</b> , 8, 2728-2736	3
360	Three-dimensional localization refinement and motion model parameter estimation for confined single particle tracking under low-light conditions. <b>2021</b> , 12, 5793-5811	O
359	Calibration free counting of low molecular copy numbers in single DNA-PAINT localization clusters.	
358	Single-molecule tracking technologies for quantifying the dynamics of gene regulation in cells, tissue and embryos. <b>2021</b> , 148,	4
357	Scattering-based Light Microscopy: From Metal Nanoparticles to Single Proteins. <i>Chemical Reviews</i> , 68.1	9
356	Hybrid labeling system for dSTORM imaging of endoplasmic reticulum for uncovering ultrastructural transformations under stress conditions. <b>2021</b> , 189, 113378	1
355	Single-molecule photocatalytic dynamics at individual defects in two-dimensional layered materials. <b>2021</b> , 7, eabj4452	2
354	Anomalous interfacial dynamics of single proton charges in binary aqueous solutions. <b>2021</b> , 7, eabg8568	2
353	Optical diffraction tomography from single-molecule localization microscopy. <b>2021</b> , 499, 127290	O
352	Counting mRNA Copies in Intact Bacterial Cells by Fluctuation Localization Imaging-Based Fluorescence In Situ Hybridization (fliFISH). <i>Methods in Molecular Biology</i> , <b>2021</b> , 2246, 237-247	О
351	Visualization of integrin molecules by fluorescence imaging and techniques. <b>2021</b> , 45, 229-257	O
350	Nuclear Import of Adeno-Associated Viruses Imaged by High-Speed Single-Molecule Microscopy. <b>2021</b> , 13,	2
349	Nanoscopic anatomy of dynamic multi-protein complexes at membranes resolved by graphene-induced energy transfer. <b>2021</b> , 10,	6
348	Direct visualization of virus removal process in hollow fiber membrane using an optical microscope. <b>2021</b> , 11, 1095	4
347	Advances in multi-dimensional super-resolution nonlinear optical microscopy. <b>2021</b> , 6, 1964378	1
346	Ultrasmall, Bright, and Photostable Fluorescent Core-Shell Aluminosilicate Nanoparticles for Live-Cell Optical Super-Resolution Microscopy. <b>2021</b> , 33, e2006829	7
345	Point by Point: An Introductory Guide to Sample Preparation for Single-Molecule, Super-Resolution Fluorescence Microscopy. <b>2015</b> , 7, 103-20	22

344	Molecular stretching modulates mechanosensing pathways. <b>2017</b> , 26, 1337-1351		39
343	Force Spectroscopy with Optical and Magnetic Tweezers. <b>2008</b> , 23-96		12
342	Investigating the Dynamics of Cellular Processes at the Single Molecule Level with Semiconductor Quantum Dots. <b>2008</b> , 427-441		1
341	Single-Molecule Fluorescent Particle Tracking. <b>2009</b> , 1		1
340	Fluorescence Imaging at Sub-Diffraction-Limit Resolution with Stochastic Optical Reconstruction Microscopy. <b>2009</b> , 95		5
339	Single-Molecule Imaging of LacI Diffusing Along Nonspecific DNA. <b>2010</b> , 9-38		3
338	Quantitative Chemical Delivery of Quantum Dots into the Cytosol of Cells. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2135, 179-197	1.4	3
337	Practical Guidelines for Two-Color SMLM of Synaptic Proteins in Cultured Neurons. <b>2020</b> , 173-202		5
336	Practical Aspects of Super-Resolution Imaging and Segmentation of Macromolecular Complexes by dSTORM. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2247, 271-286	1.4	О
335	Live-Cell PALM of Intracellular Proteins in Neurons. <b>2014</b> , 93-123		2
335	Live-Cell PALM of Intracellular Proteins in Neurons. <b>2014</b> , 93-123  Three-dimensional photoactivated localization microscopy with genetically expressed probes. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1251, 231-61	1.4	6
	Three-dimensional photoactivated localization microscopy with genetically expressed probes.	1.4	,
334	Three-dimensional photoactivated localization microscopy with genetically expressed probes.  Methods in Molecular Biology, 2015, 1251, 231-61  Direct stochastic optical reconstruction microscopy (dSTORM). Methods in Molecular Biology, 2015,		,
334	Three-dimensional photoactivated localization microscopy with genetically expressed probes.  Methods in Molecular Biology, 2015, 1251, 231-61  Direct stochastic optical reconstruction microscopy (dSTORM). Methods in Molecular Biology, 2015, 1251, 263-76  Super-resolution imaging of nuclear bodies by STED microscopy. Methods in Molecular Biology, 2015	1.4	6
334 333 332	Three-dimensional photoactivated localization microscopy with genetically expressed probes.  Methods in Molecular Biology, 2015, 1251, 231-61  Direct stochastic optical reconstruction microscopy (dSTORM). Methods in Molecular Biology, 2015, 1251, 263-76  Super-resolution imaging of nuclear bodies by STED microscopy. Methods in Molecular Biology, 2015, 1262, 21-35  Shape analysis of giant vesicles with fluid phase coexistence by laser scanning microscopy to	1.4	6 4 <sup>1</sup> 7
334 333 332 331	Three-dimensional photoactivated localization microscopy with genetically expressed probes.  Methods in Molecular Biology, 2015, 1251, 231-61  Direct stochastic optical reconstruction microscopy (dSTORM). Methods in Molecular Biology, 2015, 1251, 263-76  Super-resolution imaging of nuclear bodies by STED microscopy. Methods in Molecular Biology, 2015, 1262, 21-35  Shape analysis of giant vesicles with fluid phase coexistence by laser scanning microscopy to determine curvature, bending elasticity, and line tension. Methods in Molecular Biology, 2007, 400, 367-8  Supported lipid bilayers and DNA curtains for high-throughput single-molecule studies. Methods in	1.4 1.4 8 <sup>7</sup> ·4	6 4 <sup>1</sup> 7
334 333 332 331 330	Three-dimensional photoactivated localization microscopy with genetically expressed probes. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1251, 231-61  Direct stochastic optical reconstruction microscopy (dSTORM). <i>Methods in Molecular Biology</i> , <b>2015</b> , 1251, 263-76  Super-resolution imaging of nuclear bodies by STED microscopy. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1262, 21-35  Shape analysis of giant vesicles with fluid phase coexistence by laser scanning microscopy to determine curvature, bending elasticity, and line tension. <i>Methods in Molecular Biology</i> , <b>2007</b> , 400, 367-8  Supported lipid bilayers and DNA curtains for high-throughput single-molecule studies. <i>Methods in Molecular Biology</i> , <b>2011</b> , 745, 447-61	1.4 1.4 8 <sup>7</sup> ·4	6 41 7 6 27

326	Fluorescence microscopy of nanochannel-confined DNA. <i>Methods in Molecular Biology</i> , <b>2011</b> , 783, 159-79.4	1
325	Single-particle tracking for studying the dynamic properties of genomic regions in live cells.  Methods in Molecular Biology, <b>2013</b> , 1042, 139-51	4
324	Requirements for Samples in Super-Resolution Fluorescence Microscopy. <b>2014</b> , 343-367	2
323	Super-Resolution Microscopy: Principles, Techniques, and Applications. <b>2014</b> , 13-40	1
322	Photoactivated Localization Microscopy for Cellular Imaging. <b>2014</b> , 87-111	1
321	Application of Three-Dimensional Structured Illumination Microscopy in Cell Biology: Pitfalls and Practical Considerations. <b>2014</b> , 167-188	1
320	Fluorescence Microscopy with Nanometer Resolution. <b>2019</b> , 1089-1143	4
319	Diffraction Limit and Beyond. <b>2020</b> , 115-137	1
318	Lessons from (pre-)mRNA Imaging. <b>2019</b> , 1203, 247-284	2
317	Brain Function: Novel Technologies Driving Novel Understanding. <b>2014</b> , 299-334	4
317	Brain Function: Novel Technologies Driving Novel Understanding. <b>2014</b> , 299-334  Investigating Chromatin Organisation Using Single Molecule Localisation Microscopy. <b>2017</b> , 25-61	2
316	Investigating Chromatin Organisation Using Single Molecule Localisation Microscopy. <b>2017</b> , 25-61  Quantum Optics: Colloidal Fluorescent Semiconductor Nanocrystals (Quantum Dots) in	2
316	Investigating Chromatin Organisation Using Single Molecule Localisation Microscopy. <b>2017</b> , 25-61  Quantum Optics: Colloidal Fluorescent Semiconductor Nanocrystals (Quantum Dots) in Single-Molecule Detection and Imaging. <b>2008</b> , 53-81	2
316 315 314	Investigating Chromatin Organisation Using Single Molecule Localisation Microscopy. 2017, 25-61  Quantum Optics: Colloidal Fluorescent Semiconductor Nanocrystals (Quantum Dots) in Single-Molecule Detection and Imaging. 2008, 53-81  Single-Molecule Optical Spectroscopy and Imaging: From Early Steps to Recent Advances. 2010, 25-60	2 2 7
316 315 314 313	Investigating Chromatin Organisation Using Single Molecule Localisation Microscopy. 2017, 25-61  Quantum Optics: Colloidal Fluorescent Semiconductor Nanocrystals (Quantum Dots) in Single-Molecule Detection and Imaging. 2008, 53-81  Single-Molecule Optical Spectroscopy and Imaging: From Early Steps to Recent Advances. 2010, 25-60  Sub-Diffraction-Limit Imaging with Stochastic Optical Reconstruction Microscopy. 2010, 399-415	2 2 7 4
316 315 314 313 312	Investigating Chromatin Organisation Using Single Molecule Localisation Microscopy. 2017, 25-61  Quantum Optics: Colloidal Fluorescent Semiconductor Nanocrystals (Quantum Dots) in Single-Molecule Detection and Imaging. 2008, 53-81  Single-Molecule Optical Spectroscopy and Imaging: From Early Steps to Recent Advances. 2010, 25-60  Sub-Diffraction-Limit Imaging with Stochastic Optical Reconstruction Microscopy. 2010, 399-415  Single Molecule Spectroscopy Illuminating the Molecular Dynamics of Life. 2010, 107-117	2 2 7 4 3

308	Obtaining 3D Super-resolution Information from 2D Super-resolution Images through a 2D-to-3D Transformation Algorithm.	2
307	Molecular height measurement by cell surface optical profilometry (CSOP).	2
306	A fast genetically encoded fluorescent sensor for faithful in vivo acetylcholine detection in mice, fish, worms and flies.	15
305	Quantitative live-cell PALM reveals nanoscopic Faa4 redistributions and dynamics on lipid droplets during metabolic transitions of yeast.	О
304	MINSTED fluorescence localization and nanoscopy.	3
303	A hidden Markov model approach to characterizing the photo-switching behavior of fluorophores.	1
302	Statistical methods for large ensemble of super-resolution stochastic single particle trajectories.	1
301	3D Multicolor Nanoscopy at 10,000 Cells a Day.	8
300	Fluorescence Imaging with One-Nanometer Accuracy (FIONA). 2007, 2007, pdb.top27	9
299	Quantum limited source localization and pair superresolution in two dimensions under finite-emission bandwidth. <b>2020</b> , 102,	2
298	Precise correlative method of Cryo-SXT and Cryo-FM for organelle identification. 2020, 27, 176-184	2
297	Adaptive optics two-photon endomicroscopy enables deep-brain imaging at synaptic resolution over large volumes. <b>2020</b> , 6,	14
296	STED Microscopy with Compact Light Sources. <b>2010</b> , 1-1-1-3	2
295	Visualization and Resolution in Localization Microscopy. <b>2014</b> , 430-451	7
294	A HIDDEN MARKOV MODEL APPROACH TO CHARACTERIZING THE PHOTO-SWITCHING BEHAVIOR OF FLUOROPHORES. <b>2019</b> , 13, 1397-1429	7
293	Quantifying bio-filament morphology below the diffraction limit of an optical microscope using out-of-focus images. <b>2020</b> , 59, 2914-2923	1
292	Fast, volumetric live-cell imaging using high-resolution light-field microscopy. <b>2019</b> , 10, 29-49	39
291	Axial plane single-molecule super-resolution microscopy of whole cells. <b>2020</b> , 11, 461-479	6

### (2020-2018)

290	Patterned illumination single molecule localization microscopy (piSMLM): user defined blinking regions of interest. <i>Optics Express</i> , <b>2018</b> , 26, 30009-30020	3.3	10
289	Generalized method to design phase masks for 3D super-resolution microscopy. <i>Optics Express</i> , <b>2019</b> , 27, 3799-3816	3.3	11
288	SIMPLE: Structured illumination based point localization estimator with enhanced precision. <i>Optics Express</i> , <b>2019</b> , 27, 24578-24590	3.3	35
287	On-chip TIRF nanoscopy by applying Haar wavelet kernel analysis on intensity fluctuations induced by chip illumination. <i>Optics Express</i> , <b>2020</b> , 28, 35454-35468	3.3	8
286	Axial super-resolution evanescent wave tomography. <b>2016</b> , 41, 5499-5502		11
285	Polarization-encoded field measurement in subwavelength scattering. <b>2019</b> , 44, 3446-3449		3
284	Single molecule light field microscopy. <b>2020</b> , 7, 1065		11
283	Digital video microscopy enhanced by deep learning. <b>2019</b> , 6, 506		30
282	Transportation of nanoscale cargoes by myosin propelled actin filaments. 2013, 8, e55931		26
281	Spontaneous detachment of the leading head contributes to myosin VI backward steps. <b>2013</b> , 8, e58912	2	5
280	Super-resolution imaging of bacteria in a microfluidics device. 2013, 8, e76268		27
279	Spatial covariance reconstructive (SCORE) super-resolution fluorescence microscopy. <b>2014</b> , 9, e94807		16
278	Super-Resolution Imaging of Molecular Emission Spectra and Single Molecule Spectral Fluctuations. <b>2016</b> , 11, e0147506		46
277	Single particle maximum likelihood reconstruction from superresolution microscopy images. <b>2017</b> , 12, e0172943		3
276	Can single molecule localization microscopy be used to map closely spaced RGD nanodomains?. <b>2017</b> , 12, e0180871		7
275	Three-dimensional spatiotemporal tracking of nano-objects diffusing in water-filled optofluidic microstructured fiber. <b>2020</b> , 9, 4545-4554		4
274	Defining the Layers of a Sensory Cilium with STORM and Cryo-Electron Nanoscopy.		2
273	Crystalline chitin hydrolase is a burnt-bridge Brownian motor. <b>2020</b> , 17, 51-58		3

272	Force Measurement on Gliding Using Optical Tweezers. <b>2017</b> , 7, e2127		5
271	Super-resolution Microscopy at Cryogenic Temperatures Using Solid Immersion Lenses. <b>2019</b> , 9, e3426		2
270	Hands-on Curriculum in Optics of Microscopy. <b>2020</b> , 1,		2
269	Introduction to Theories of Several Super-resolution Fluorescence Microscopy Methods and Recent Advance in The Field*. <b>2010</b> , 2009, 1626-1634		2
268	Review of advanced imaging techniques. <b>2012</b> , 3, 22		28
267	Direct observation of frequency modulated transcription in single cells using light activation. <b>2013</b> , 2, e00750		97
266	Importin-modulates the permeability of the nuclear pore complex in a Ran-dependent manner. <b>2015</b> , 4,		69
265	Super-resolution kinetochore tracking reveals the mechanisms of human sister kinetochore directional switching. <b>2015</b> , 4,		13
264	Super-resolution imaging of a 2.5 kb non-repetitive DNA in the nuclear genome using molecular beacon probes. <b>2017</b> , 6,		17
263	An optimized method for 3D fluorescence co-localization applied to human kinetochore protein architecture. <b>2018</b> , 7,		17
262	Structured illumination microscopy combined with machine learning enables the high throughput analysis and classification of virus structure. <b>2018</b> , 7,		11
261	A technical review and guide to RNA fluorescence in situ hybridization. <b>2020</b> , 8, e8806		28
260	Electrochemistry and Optical Microscopy. 1-80		4
259	Two-color super-resolution localization microscopy via joint encoding of emitter location and color.		O
258	C9orf72-derived poly-GA DPRs undergo endocytic uptake in iNPC-derived astrocytes and spread to motor neurons.		
257	Two-color super-resolution localization microscopy via joint encoding of emitter location and color. <i>Optics Express</i> , <b>2021</b> , 29, 34797-34809	3.3	2
256	Imaging Real-Time Gene Expression in Living Systems with Single-Transcript Resolution: Single mRNA Particle Tracking with ImageJ-Based Analysis. <b>2007</b> , 2007, pdb.prot4872		
255	Single Molecule Microscopy. <b>2008</b> , 1187-1242		1

254	3D localization of fluorescent microparticles using a rotating point spread function. 2008,	
253	Fluorescence Techniques for Proteins. 1	
252	3D fluorescent particle tracking with nanometer scale accuracies using a double-helix point spread function. <b>2009</b> ,	1
251	Localization Precision of Three-Dimensional Superresolution Fluorescence Imaging Using a Double-Helix Point Spread Function. <b>2009</b> ,	
250	Nano-resolution imaging of filopodia in HeLa cells. <b>2010</b> , 59, 6948	5
249	Chapter 18:New Detection Methods for Single Cells. <b>2010</b> , 285-309	
248	Fluorescence Photoactivation Localization Microscopy. <b>2010</b> , 11-1-11-25	
247	Pushing Optical Microscopy to the Limit: From Single-Molecule Fluorescence Microscopy to Label-Free Detection and Tracking of Biological Nano-Objects. 113	
246	Nanoscopy Using Localization and Temporal Separation of Fluorescence From Single Molecules. <b>2011</b> , 87-106	
245	Measuring Molecular Dynamics by FRAP, FCS, and SPT. <b>2011</b> , 153-163	1
<sup>2</sup> 45	Measuring Molecular Dynamics by FRAP, FCS, and SPT. <b>2011</b> , 153-163  Biological Imaging by Superresolution Light Microscopy. <b>2011</b> , 561-571	1
		1
244	Biological Imaging by Superresolution Light Microscopy. <b>2011</b> , 561-571	1
244	Biological Imaging by Superresolution Light Microscopy. <b>2011</b> , 561-571  Fast, Approximate Gaussian Mask Algorithm. <b>2011</b> ,	1
244 243 242	Biological Imaging by Superresolution Light Microscopy. 2011, 561-571  Fast, Approximate Gaussian Mask Algorithm. 2011,  Feedback Control of Microflows. 2012, 269-319	1
244 243 242 241	Biological Imaging by Superresolution Light Microscopy. 2011, 561-571  Fast, Approximate Gaussian Mask Algorithm. 2011,  Feedback Control of Microflows. 2012, 269-319  Sub-Wavelength Optical Fluorescence Microscopy for Biological Applications. 2013, 47-71  Beating the Diffraction Limit by Nonlinear Optical Localization Using Electromagnetic Surface	1
244 243 242 241 240	Biological Imaging by Superresolution Light Microscopy. 2011, 561-571  Fast, Approximate Gaussian Mask Algorithm. 2011,  Feedback Control of Microflows. 2012, 269-319  Sub-Wavelength Optical Fluorescence Microscopy for Biological Applications. 2013, 47-71  Beating the Diffraction Limit by Nonlinear Optical Localization Using Electromagnetic Surface Fields (NOLES) Imaging. 2013,  Resolution enhancement and orders separation in on-axis nanoparticles based digital holography.	1

236	Super-Resolution Fluorescence Optical Microscopy: Targeted and Stochastic Read-Out Approaches. <b>2014</b> , 27-43	O
235	Interferometric Localization Microscopy. 2014,	
234	Data Analysis for Single-Molecule Localization Microscopy. <b>2014</b> , 113-132	
233	Single-molecule and single-particle imaging of molecular motors in vitro and in vivo. <b>2014</b> , 105, 131-59	3
232	3D super-resolution imaging by localization microscopy. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1232, 123-3 <b>6</b> .4	
231	Super-Resolution Imaging with Single-Molecule Localization. <b>2014,</b> 412-429	
230	An Active Basis for the Nanoscopic Organization of Membrane Components in Living Cell Membranes. <b>2014</b> , 46-61	
229	4Pi microscopy of the nuclear pore complex. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1251, 193-211 1.4	
228	Molecular Plasma Membrane Dynamics Dissected by STED Nanoscopy and Fluorescence Correlation Spectroscopy (STED-FCS). <b>2014</b> , 452-473	1
227	Sub-Nanometer Particle Tracking by Point-Spread-Function Spatial Modulation. 2015,	
226	Improvement in In-Plane Localization Precision of Nanoparticles Using Interference Analysis. 2015,	
225	Single Molecule Localization Microscopy to Study Neuronal Microtubule Organization. <b>2015</b> , 389-408	
224	Super-Resolution Fluorescence Microscopy and Its Application to Live Cell Imaging. 2016, 44, 643	
223	Distribution, Organization, and Dynamics of EGF Receptor in the Plasma Membrane Studied by Super-Resolution Imaging. <b>2016</b> , 357-376	
223		
	Super-Resolution Imaging. <b>2016</b> , 357-376	3
222	Super-Resolution Imaging. 2016, 357-376  Quantitative mRNA Imaging Throughout the Entire Drosophila Brain.  Recent progress on super-resolution imaging and correlative super-resolution microscopy. 2017,	3

218	Laser-free super-resolution microscopy.	1
217	Boosting the localization precision of dSTORM by biocompatible metal-dielectric coated glass coverslips.	
216	High-density super-resolution microscopy with an incoherent light source and a conventional epifluorescence microscope setup.	
215	3D clustering analysis of super-resolution microscopy data by 3D Voronoi tessellations.	
214	Super-Resolution Microscopy Reveals Structural Mechanisms Driving the Nanoarchitecture of a Viral Chromatin Tether.	
213	Resolving ESCRT-III spirals at the intercellular bridge of dividing cells using 3D STORM imaging.	1
212	Defining the Layers of a Sensory Cilium with STORM and Cryo-Electron Nanoscopies.	2
211	Spatial organization of single mRNPs at different stages of the gene expression pathway.	3
210	Holographic Region-of-Interest with Oblique Illumination. 2018,	О
209	Quantitative super-resolution single molecule microscopy dataset of YFP-tagged growth factor receptors.	
208	Intrinsic Dynamics of an Endogenous Human Gene Reveal the Basis of Expression Heterogeneity.	
207	Estimation of point spread function of an imaging system using a programmable target. 2018,	
206	Structured illumination microscopy combined with machine learning enables the high throughput analysis and classification of virus structure.	
205	A robust statistical estimation (RoSE) algorithm jointly recovers the 3D location and intensity of single molecules accurately and precisely. <b>2018</b> ,	
204	Super-resolution ultrasound imaging with Gaussian fitting method and plane wave transmission. <b>2018</b> ,	
203	A theoretical high-density nanoscopy study leads to the design of UNLOC, an unsupervised algorithm.	
202	Organized spatial patterns of activated Pintegrins in arresting neutrophils.	
201	Cardiac and Skeletal Actin Substrates Uniquely Tune Cardiac Myosin Strain-Dependent Mechanics.	O

200	MTrack: Automated Detection, Tracking, and Analysis of Dynamic Microtubules.	
199	Solid immersion microscopy readily and inexpensively enables 12 nm resolution on plunge-frozen cells.	
198	On the impact of competing intra- and intermolecular triplet-state quenching on photobleaching and photoswitching kinetics of organic fluorophores.	O
197	Single-molecule live cell imaging of Rep reveals the dynamic interplay between an accessory replicative helicase and the replisome.	
196	Biphasic unbinding of Zur from DNA for transcription (de)repression in Live Bacteria.	
195	Fast, volumetric live-cell imaging using high-resolution light-field microscopy.	
194	Super-resolution modularity analysis shows polyhedral caveolin-1 oligomers combine to form scaffolds and caveolae.	
193	StormGraph: A graph-based algorithm for quantitative clustering analysis of diverse single-molecule localization microscopy data.	1
192	Superresolution. <b>2019</b> , 171-188	
191	About samples, giving examples: Optimized Single Molecule Localization Microscopy.	Ο
191 190	About samples, giving examples: Optimized Single Molecule Localization Microscopy.  Imaging chromatin interactions at sub-kilobase resolution Via Tn5-FISH.	0
190	Imaging chromatin interactions at sub-kilobase resolution Via Tn5-FISH.  3D super-resolution microscopy performance and quantitative analysis assessment using	
190 189	Imaging chromatin interactions at sub-kilobase resolution Via Tn5-FISH.  3D super-resolution microscopy performance and quantitative analysis assessment using DNA-PAINT and DNA origami test samples.	
190 189 188	Imaging chromatin interactions at sub-kilobase resolution Via Tn5-FISH.  3D super-resolution microscopy performance and quantitative analysis assessment using DNA-PAINT and DNA origami test samples.  Photoactivation of silicon rhodamines via a light-induced protonation.  Adaptive holographic region of interest illumination with oblique angles for use in single molecule	
190 189 188	Imaging chromatin interactions at sub-kilobase resolution Via Tn5-FISH.  3D super-resolution microscopy performance and quantitative analysis assessment using DNA-PAINT and DNA origami test samples.  Photoactivation of silicon rhodamines via a light-induced protonation.  Adaptive holographic region of interest illumination with oblique angles for use in single molecule localization microscopy. 2019,  Calibrated feedback illumination for precise conventional fluorescence and PALM imaging	
190 189 188 187	Imaging chromatin interactions at sub-kilobase resolution Via Tn5-FISH.  3D super-resolution microscopy performance and quantitative analysis assessment using DNA-PAINT and DNA origami test samples.  Photoactivation of silicon rhodamines via a light-induced protonation.  Adaptive holographic region of interest illumination with oblique angles for use in single molecule localization microscopy. 2019,  Calibrated feedback illumination for precise conventional fluorescence and PALM imaging applications.  Antibody-induced crosslinking and cholesterol-sensitive, anomalous diffusion of nicotinic	

# (2020-)

182	Feasibility analysis of semiconductor voltage nanosensors for neuronal membrane potential sensing.	
181	Symmetrically-dispersed spectroscopic single-molecule localization microscopy.	
180	Probabilistic Optically-Selective Single-molecule Imaging Based Localization Encoded (POSSIBLE) Microscopy for Ultra-superresolution Imaging of Dendra2-HA transfected NIH3T3 cells.	
179	The postsynaptic MAGUK scaffold protein MPP2 organises a distinct interactome that incorporates GABAA receptors at the periphery of excitatory synapses.	
178	Adaptive optics two-photon endomicroscopy enables deep brain imaging at synaptic resolution over large volumes.	
177	Single Molecule Light Field Microscopy.	
176	Electronic measurement of femtosecond time delays for arbitrary-detuning asynchronous optical sampling. <i>Optics Express</i> , <b>2020</b> , 28, 18251-18260	
175	A time-varying approach to single particle tracking with a nonlinear observation model. <b>2020</b> , 2020, 5151-51561	
174	High-precision protein-tracking with interferometric scattering microscopy.	
173	Single-molecule localization microscopy as an emerging tool to probe multiscale food structures. <b>2021</b> , 30, 100236	
172	Multicolor tracking of single biomolecules with metallic nanoparticles at microsecond time resolution. <b>2021</b> ,	
171	A miniature kinematic coupling device for mouse head fixation.	
170	Rethinking resolution estimation in fluorescence microscopy: from theoretical resolution criteria to super-resolution microscopy. <b>2020</b> , 63, 1776-1785	
169	Molecular structure of the intact bacterial flagellar basal body.	
168	Localization Microscopy with Active Control. <b>2020</b> , 307-369	
167	Feedforward Control for Single Particle Tracking Synthetic Motion. <b>2020</b> , 53, 8878-8883	
166	Multicolor Superresolution Microscopy: Revealing the Nano World of Astrocytes In Situ. <b>2020</b> , 15-35	
165	In Vivo Single-Molecule Tracking of Voltage-Gated Calcium Channels with Split-Fluorescent Proteins in CRISPR-Engineered C. elegans. <b>2020</b> , 11-37	

164	Statistical Properties of a Granular Gas Fluidized by Turbulent Air Wakes. 2020, 397-403	
163	Single-Molecule Biophysical Techniques to Study Actomyosin Force Transduction. <b>2020</b> , 1239, 85-126	
162	A Protocol for Single-Molecule Translation Imaging in Xenopus Retinal Ganglion Cells. <b>2020</b> , 295-308	
161	Quantification of labelled target molecules via super-resolution dSTORM localization microscopy. <b>2020</b> ,	
160	Model-Based Insight into Single-Molecule Plasmonic Mislocalization.	O
159	Single-Molecule Blinking Fluorescence Enhancement by Surface Plasmon-Coupled Emission-Based Substrates for Single-Molecule Localization Imaging. <b>2021</b> , 93, 15401-15411	2
158	Automated tracking of S. pombe spindle elongation dynamics.	О
157	Nanoscopic Structural Fluctuations of Disassembling Microtubules Revealed by Label-Free Super-Resolution Microscopy.	
156	Direct observation of RAG recombinase recruitment to chromatin and the IgH locus in live pro-B cells.	2
155	Probing the Conformational State of mRNPs Using smFISH and SIM. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2209, 267-286	1.4 0
154	Probabilistic Optically-Selective Single-molecule Imaging Based Localization Encoded (POSSIBLE) microscopy for ultra-superresolution imaging. <b>2020</b> , 15, e0242452	2
153	Adapting the ITK Registration Framework to Fit Parametric Image Models. <b>2010</b> , 1-8	
152	Dimensions of a Living Cochlear Hair Bundle <b>2021</b> , 9, 742529	3
151	A common framework for single-molecule localization using sequential structured illumination. <b>2021</b> , 2, 100036	2
150	Development of a New Approach for Low-Laser-Power Super-Resolution Fluorescence Imaging. <b>2021</b> ,	О
149	Improved localization precision via restricting confined biomolecule stochastic motion in single-molecule localization microscopy. <b>2021</b> ,	Ο
148	Accurate inference of stochastic gene expression from nascent transcript heterogeneity.	О
147	High spatial resolution correlative imaging of Cryo-SXM and GSDIM for identification of three-dimensional subcellular structures.	1

146	Calibration-free counting of low molecular copy numbers in single DNA-PAINT localization clusters. <b>2021</b> , 1, 100032		1
145	Controlled delivery of quantum dots using microelectrophoresis technique: Intracellular behavior and preservation of cell viability <b>2021</b> , 144, 108035		
144	Adapting the ITK Registration Framework to Fit Parametric Image Models. 2010,		
143	Single-molecule imaging of replication fork conflicts at genomic DNA G4 structures in human cells. <b>2021</b> , 661, 77-94		
142	Super-Resolution Imaging through Single-Molecule Localization. <b>2021</b> , 1-26		
141	Direct Time-of-Flight Single-Photon Imaging. <b>2021</b> , 1-12		3
140	Analysis of super-resolution single molecule localization microscopy data: A tutorial. <b>2022</b> , 12, 010701		Ο
139	Resonator nanophotonic standing-wave array trap for single-molecule manipulation and measurement <b>2022</b> , 13, 77		1
138	Localization-assisted stimulated Brillouin scattering spectroscopy. 2021,		
137	Through the Eyes of Creators: Observing Artificial Molecular Motors.		
	Through the Lyes of Creators. Observing Arthrelat Motecular Motors.		О
136	Development of a direct point electron beam exposure system to investigate the biological functions of subcellular domains in a living biological cell <b>2022</b> , 155, 103214		0
	Development of a direct point electron beam exposure system to investigate the biological		
136	Development of a direct point electron beam exposure system to investigate the biological functions of subcellular domains in a living biological cell <b>2022</b> , 155, 103214		0
136 135	Development of a direct point electron beam exposure system to investigate the biological functions of subcellular domains in a living biological cell 2022, 155, 103214  Bleaching-Resistant Super-Resolution Fluorescence Microscopy 2022, e2101817  Limits of Accuracy for Parameter Estimation and Localization in Single-Molecule Microscopy via		0
136 135 134	Development of a direct point electron beam exposure system to investigate the biological functions of subcellular domains in a living biological cell 2022, 155, 103214  Bleaching-Resistant Super-Resolution Fluorescence Microscopy 2022, e2101817  Limits of Accuracy for Parameter Estimation and Localization in Single-Molecule Microscopy via Sequential Monte Carlo Methods. 2022, 15, 139-171  Achieving sub-diffraction spatial resolution using combined Fourier transform spectroscopy and		0 1 0
136 135 134	Development of a direct point electron beam exposure system to investigate the biological functions of subcellular domains in a living biological cell 2022, 155, 103214  Bleaching-Resistant Super-Resolution Fluorescence Microscopy 2022, e2101817  Limits of Accuracy for Parameter Estimation and Localization in Single-Molecule Microscopy via Sequential Monte Carlo Methods. 2022, 15, 139-171  Achieving sub-diffraction spatial resolution using combined Fourier transform spectroscopy and nonlinear optical microscopy 2022, 156, 021101  Incorporation of Low Concentrations of Gold Nanoparticles: Complex Effects on Radiation	1.4	O 1 O 1
136 135 134 133	Development of a direct point electron beam exposure system to investigate the biological functions of subcellular domains in a living biological cell 2022, 155, 103214  Bleaching-Resistant Super-Resolution Fluorescence Microscopy 2022, e2101817  Limits of Accuracy for Parameter Estimation and Localization in Single-Molecule Microscopy via Sequential Monte Carlo Methods. 2022, 15, 139-171  Achieving sub-diffraction spatial resolution using combined Fourier transform spectroscopy and nonlinear optical microscopy 2022, 156, 021101  Incorporation of Low Concentrations of Gold Nanoparticles: Complex Effects on Radiation Response and Fate of Cancer Cells 2022, 14,  A Protocol for Studying Transcription Factor Dynamics Using Fast Single-Particle Tracking and	1.4	0 1 0

128	Simultaneous visualization of DNA loci in single cells by combinatorial multi-color iFISH 2022, 9, 47		O
127	Syndecan-4 affects myogenesis via Rac1-mediated actin remodeling and exhibits copy-number amplification and increased expression in human rhabdomyosarcoma tumors <b>2022</b> , 79, 122		2
126	Quantitative Imaging With DNA-PAINT for Applications in Synaptic Neuroscience <b>2021</b> , 13, 798267		1
125	Single-Molecule Localization Microscopy of Subcellular Protein Distribution in Neurons <i>Methods in Molecular Biology</i> , <b>2022</b> , 2440, 271-288	1.4	
124	Autoregulation and dual stepping mode of MYA2, an Arabidopsis myosin XI responsible for cytoplasmic streaming <b>2022</b> , 12, 3150		
123	Detection of Fortunate Molecules Induce PArticle Resolution Shift (PAR-shift) towards Single-molecule Limit in SMLM: A Technique for Resolving Molecular Clusters in Cellular System.		
122	Understanding immune signaling using advanced imaging techniques 2022,		1
121	Multiphoton single-molecule localization by sequential excitation with light minima <i>Light: Science and Applications</i> , <b>2022</b> , 11, 70	16.7	O
120	A multiscale wavelet@lgorithm for atom tracking in STM movies. <b>2022</b> , 24, 033016		2
119	Interferometrical single-molecule localization based on dynamic PSF engineering <b>2022</b> , 47, 1770-1773		2
118	Emerin self-assembly and nucleoskeletal coupling regulate nuclear envelope mechanics against stress <b>2022</b> ,		2
117	Long-term cellular cargo tracking reveals intricate trafficking through active cytoskeletal networks.		О
116	Multi-Dimensional Spectral Single Molecule Localization Microscopy. 2,		O
115	A miniature kinematic coupling device for mouse head fixation <b>2022</b> , 372, 109549		
114	Scanning Single Molecule Localization Microscopy (scanSMLM) for super-resolution optical volume imaging.		
113	Ultrarapid cryo-arrest of living cells on a microscope enables multiscale imaging of out-of-equilibrium molecular patterns. <b>2021</b> , 7, eabk0882		O
112	Single-Molecule Clustering for Super-Resolution Optical Fluorescence Microscopy. <b>2022</b> , 9, 7		О
111	A spectral demixing method for high-precision multi-color localization microscopy.		O

#### (2020-2022)

Advanced microscopy techniques for the visualization and analysis of cell behaviors. **2022**, 303-321

110	Advanced interescopy teeningdes for the visualization and analysis of eet behaviors. <b>2022</b> , 303-321		
109	Speed Microscopy: High-Speed Single Molecule Tracking and Mapping of Nucleocytoplasmic Transport <i>Methods in Molecular Biology</i> , <b>2022</b> , 2502, 353-371	1.4	O
108	Localization-assisted stimulated Brillouin scattering spectroscopy <b>2022</b> , 7, 056101		О
107	Blood Cell Analysis: From Traditional Methods to Super-Resolution Microscopy. <b>2022</b> , 9, 261		2
106	Data_Sheet_1.pdf. <b>2020</b> ,		
105	Data_Sheet_2.pdf. <b>2020</b> ,		
104	Data_Sheet_3.pdf. <b>2020</b> ,		
103	Image_1.TIF. <b>2020</b> ,		
102	Image_10.TIF. <b>2020</b> ,		
101	Image_2.TIF. <b>2020</b> ,		
100	Image_3.png. <b>2020</b> ,		
99	Image_4.png. <b>2020</b> ,		
98	Image_5.png. <b>2020</b> ,		
97	Image_6.png. <b>2020</b> ,		
96	Image_7.TIF. <b>2020</b> ,		
95	Image_8.TIF. <b>2020</b> ,		
94	Image_9.TIF. <b>2020</b> ,		
93	Video_1.AVI. <b>2020</b> ,		

92	Video_2.AVI. <b>2020</b> ,		
91	Video_3.AVI. <b>2020</b> ,		
90	Video_4.AVI. <b>2020</b> ,		
89	Data_Sheet_1.PDF. <b>2020</b> ,		
88	ISM-FLUX: single-step MINFLUX with an array detector.		O
87	Oncogenic chimeric transcription factors drive tumor-specific transcription, processing, and translation of silent genomic regions <b>2022</b> ,		O
86	Characterizing locus specific chromatin structure and dynamics with correlative conventional and super-resolution imaging in living cells <b>2022</b> ,		O
85	Investigation of Diatoms with Optical Microscopy. <b>2022</b> , 1-31		
84	-derived poly-GA DPRs undergo endocytic uptake in iAstrocytes and spread to motor neurons <b>2022</b> , 5,		0
83	Scattering imaging of biomolecules with metallic nanoparticles: localization precision, imaging speed, and multicolor imaging capability.		
82	Superlocalization Reveals Long-Range Synchronization of Vibrating Soliton Molecules. <b>2022</b> , 128,		0
81	Super-Resolution Microscopy and Tracking of DNA-Binding Proteins in Bacterial Cells. <i>Methods in Molecular Biology</i> , <b>2022</b> , 191-208	1.4	O
80	Dynamics of Bacterial Chromosomes by Locus Tracking in Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , <b>2022</b> , 155-170	1.4	
79	Cytosine methylation regulates DNA bendability depending on the curvature.		1
78 	Surpassing the Background Barrier for Multidimensional Single-Molecule Localization Super-Resolution Imaging: A Case of Lysosome-Exclusively Turn-on Probe.		4
77	Emerging Trends in Super-resolution Imaging: How Lasers Light the Way. 255-276		1
76	The Applicability of Current Turbidimetric Approaches for Analyzing Fibrin Fibers and Other Filamentous Networks. <b>2022</b> , 12, 807		1
75	Development of Deep-Learning-Based Single-Molecule Localization Image Analysis. <b>2022</b> , 23, 6896		1

74	Super-Resolution Reconstruction Based on BM3D and Compressed Sensing.		0
73	High-Speed Localization Microscopy and Single-Particle Tracking. 2022,		
72	Revisiting the Glass Treatment for Single-Molecule Analysis of ncRNA Function. <i>Methods in Molecular Biology</i> , <b>2022</b> , 209-231	1.4	
71	Maximizing accuracy of 2D Gaussian profile estimation using differential entropy. <b>2022</b> ,		1
70	Fluorescent Nanoparticles for Super-Resolution Imaging. Chemical Reviews,	68.1	10
69	An alternative to MINFLUX that enables nanometer resolution in a confocal microscope. <i>Light: Science and Applications</i> , <b>2022</b> , 11,	16.7	2
68	A Telltale Sign of Irreversibility in Transcriptional Regulation.		1
67	ExTrack characterizes transition kinetics and diffusion in noisy single-particle tracks.		
66	Spectroscopy of individual Brownian nanoparticles in real-time using holographic localization. <i>Optics Express</i> ,	3.3	
65	MINFLUX dissects the unimpeded walking of kinesin-1.		1
64	Single-molecule fluorescence microscopy demonstrates fast dynamics of the variant surface glycoprotein coat on living trypanosomes.		
63	Single-molecule tracking of Nanog and Oct4 in mouse embryonic stem cells.		
62	Structure of the human NK cell NKR-P1:LLT1 receptor:ligand complex reveals clustering in the immune synapse. <b>2022</b> , 13,		O
61	All-Optical Modulation of Single Defects in Nanodiamonds: Revealing Rotational and Translational Motions in Cell Traction Force Fields.		1
60	Localization Microscopy. <b>2023</b> , 335-391		O
59	Engineering a DNA origami mediated multicolour quantum dot platform for sub-diffraction spectral separation imaging. <b>2022</b> , 12, 23778-23785		O
58	Imaging the Cell: Light Microscopy Laper Resolution Fluorescence Localization Microscopy. 2022,		O
57	Detection of fortunate molecules induce particle resolution shift (PAR-shift) toward single-molecule limit in SMLM: A technique for resolving molecular clusters in cellular system. <b>2022</b> , 93, 093704		O

56	Recovering mixtures of fast-diffusing states from short single-particle trajectories. 11,	2
55	Single-Molecule Imaging of Reactive Oxygen Species on a Semiconductor Nano-Heterostructure for Understanding Photocatalytic Heterogeneity in Aqueous. <b>2022</b> , 13, 8635-8640	O
54	Super-sensitivity incoherent optical methods for full-field displacement measurements.	0
53	Benchmarking thiolate driven photoswitching of cyanine dyes.	O
52	GESIAP: A Versatile Genetically Encoded Sensor-based Image Analysis Program.	O
51	Enhanced calcium release at specialised surface sites compensates for reduced t-tubule density in neonatal sheep atrial myocytes. <b>2022</b> , 173, 61-70	O
50	Tuning axial and lateral localization precision in 3D super-resolution microscopy with variable astigmatism. <b>2022</b> , 47, 5727	0
49	splitSMLM, a spectral demixing method for high-precision multi-color localization microscopy applied to nuclear pore complexes. <b>2022</b> , 5,	O
48	Superfluid helium nanoscope insert with millimeter working range. <b>2022</b> , 93, 103703	O
47	Convex hull as diagnostic tool in single-molecule localization microscopy.	O
46	Quantifying how post-transcriptional noise and gene copy number variation bias transcriptional parameter inference from mRNA distributions. 11,	1
45	Cap-dependent translation initiation monitored in living cells. <b>2022</b> , 13,	O
44	Bursting Translation on Single mRNAs in Live Cells.	0
43	Optical Fingerprint of Flat Substrate Surface and Marker-Free Lateral Displacement Detection with Angstrom-Level Precision. <b>2022</b> , 129,	O
42	RS-FISH: precise, interactive, fast, and scalable FISH spot detection.	0
41	Nanometer Resolution Imaging and Tracking of Single Fluorophores by Sequential Structured Illumination.	1
40	Nanoparticles for super-resolution microscopy: intracellular delivery and molecular targeting. <b>2022</b> , 51, 9882-9916	1
39	Localization Microscopy: A Review of the Progress in Methods and Applications. <b>2022</b> , 299-324	O

38	Choosing the Probe for Single-Molecule Fluorescence Microscopy. <b>2022</b> , 23, 14949	0
37	Single-molecule localization microscopy based on denoising, interpolation and local maxima.	O
36	Regulation of replicative histone RNA metabolism by the histone chaperone ASF1.	0
35	Single-molecule tracking for studying protein dynamics and target-search mechanism in live cells of S. Lerevisiae. <b>2022</b> , 3, 101900	O
34	Selective volumetric excitation and imaging for single molecule localization microscopy in multicellular systems.	0
33	Single-molecule localization microscopy goes quantitative.	0
32	Experiments in micro-patterned model membranes support the narrow escape theory.	0
31	Integrated multimodality microscope for accurate and efficient target-guided cryo-lamellae preparation.	О
30	Benchmarking Thiolate-Driven Photoswitching of Cyanine Dyes.	0
29	Single-Molecule Imaging in Commercial Stationary Phase Particles Using Highly Inclined and Laminated Optical Sheet Microscopy.	1
28	Accessing power-law statistics under experimental constraints. 2023, 5,	0
27	Electrochemiluminescence from Single Molecule to Imaging. 2023, 95, 374-387	O
26	Bayesian inference of multi-point macromolecular architecture mixtures at nanometre resolution. <b>2022</b> , 18, e1010765	0
25	Machine learning framework to segment sarcomeric structures in SMLM data. <b>2023</b> , 13,	O
24	Antibody Functionalization of Ultrasmall Fluorescent CoreBhell Aluminosilicate Nanoparticle Probes for Advanced Intracellular Labeling and Optical Super Resolution Microscopy.	0
23	High-Precision Mapping of Membrane Proteins on Synaptic Vesicles using Spectrally Encoded Super-Resolution Imaging. <b>2023</b> , 62,	O
22	Distance measurements between 5 nanometer diamonds Isingle particle magnetic resonance or optical super-resolution imaging?.	0
21	Achieving nanoscale precision using neuromorphic localization microscopy.	O

20	High-Precision Mapping of Membrane Proteins on Synaptic Vesicles using Spectrally Encoded Super-Resolution Imaging. <b>2023</b> , 135,	O
19	Compact, Fast Blinking Cd-Free Quantum Dots for Super-Resolution Fluorescence Imaging.	О
18	Super-resolution fluorescence microscopic imaging in pathogenesis and drug treatment of neurological disease. <b>2023</b> , 196, 114791	0
17	Spatiotemporal Isolation Based Super-Resolution Microscopy []	О
16	Introduction to Fluorescence Microscopy. 2022,	O
15	Obtaining 3D super-resolution images by utilizing rotationally symmetric structures and 2D-to-3D transformation. <b>2023</b> , 21, 1424-1432	O
14	Optimization of highly inclined Illumination for diffraction-limited and super-resolution microscopy.	0
13	Detection of Steps and Rotation in the Gliding Motility of Mycoplasma mobile. <b>2023</b> , 327-336	O
12	Three-dimensional single particle tracking using 4Belf-interference of temporally phase-shifted fluorescence. <b>2023</b> , 12,	0
11	ExTrack characterizes transition kinetics and diffusion in noisy single-particle tracks. <b>2023</b> , 222,	O
10	Ultrahigh-Throughput Single-Particle Hyperspectral Imaging of Gold Nanoparticles. 2023, 95, 5479-5483	0
9	STORM imaging buffer with refractive index matched to standard immersion oil.	O
8	Extending the analogy between intracellular motion in mammalian cells and glassy dynamics. <b>2023</b> , 19, 2529-2538	0
7	An integrated platform for high-throughput nanoscopy.	O
6	MINFLUX dissects the unimpeded walking of kinesin-1. <b>2023</b> , 379, 1004-1010	2
5	BNP-Track: A framework for multi-particle superresolved tracking.	О
4	ISM-FLUX: MINFLUX with an array detector. <b>2023</b> , 5,	0
3	Optical microscopic and spectroscopic detection of exosomes. 2023, 117077	О

2 Monte Carlo simulations for the evaluation of oligomerization data in TOCCSL experiments. 2023,

О

A systematic study on the use of multifunctional nanodiamonds for neuritogenesis and super-resolution imaging. **2023**, 27,

О