Nanometer resolution imaging and tracking of fluorescephoton fluxes

Science 355, 606-612 DOI: 10.1126/science.aak9913

Citation Report

#	Article	IF	CITATIONS
2	Nonergodic subdiffusion from transient interactions with heterogeneous partners. Physical Review E, 2017, 95, 032403.	0.8	11
4	Flipping nanoscopy on its head. Science, 2017, 355, 582-584.	6.0	5
5	Strong signal increase in STED fluorescence microscopy by imaging regions of subdiffraction extent. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2125-2130.	3.3	93
6	Fluorescent Photoswitchable Diarylethenes for Biolabeling and Single-Molecule Localization Microscopies with Optical Superresolution. Journal of the American Chemical Society, 2017, 139, 6611-6620.	6.6	177
7	Unraveling the Thousand Word Picture: An Introduction to Super-Resolution Data Analysis. Chemical Reviews, 2017, 117, 7276-7330.	23.0	77
8	Super-resolution optical microscopy for studying membrane structure and dynamics. Journal of Physics Condensed Matter, 2017, 29, 273001.	0.7	75
9	DNA Origami: Scaffolds for Creating Higher Order Structures. Chemical Reviews, 2017, 117, 12584-12640.	23.0	834
10	Interfacing 3D magnetic twisting cytometry with confocal fluorescence microscopy to image force responses in living cells. Nature Protocols, 2017, 12, 1437-1450.	5.5	42
11	Three-Dimensional Localization of an Individual Fluorescent Molecule with Angstrom Precision. Journal of the American Chemical Society, 2017, 139, 8990-8994.	6.6	15
12	Imaging of anticancer drug action in single cells. Nature Reviews Cancer, 2017, 17, 399-414.	12.8	80
13	Measuring synaptic vesicles using cellular electrochemistry and nanoscale molecular imaging. Nature Reviews Chemistry, 2017, 1, .	13.8	204
14	Review of cellular mechanotransduction. Journal Physics D: Applied Physics, 2017, 50, 233002.	1.3	104
15	High-Affinity Functional Fluorescent Ligands for Human β-Adrenoceptors. Scientific Reports, 2017, 7, 12319.	1.6	10
16	Achieving high-efficiency emission depletion nanoscopy by employing cross relaxation in upconversion nanoparticles. Nature Communications, 2017, 8, 1058.	5.8	239
17	Biomacromolecules as tools and objects in nanometrology—current challenges and perspectives. Analytical and Bioanalytical Chemistry, 2017, 409, 5901-5909.	1.9	9
18	Superâ€resolution Fluorescence Imaging for Materials Science. Small Methods, 2017, 1, 1700191.	4.6	100
19	Adaptive-illumination STED nanoscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9797-9802.	3.3	128
20	Liquid ell Electron Microscopy of Adsorbed Polymers. Advanced Materials, 2017, 29, 1703555.	11.1	50

#	Article	IF	CITATIONS
21	Fast, Background-Free DNA-PAINT Imaging Using FRET-Based Probes. Nano Letters, 2017, 17, 6428-6434.	4.5	95
22	Fluorescence nanoscopy in cell biology. Nature Reviews Molecular Cell Biology, 2017, 18, 685-701.	16.1	773
23	Single-molecule fluorescence microscopy review: shedding new light on old problems. Bioscience Reports, 2017, 37, .	1.1	219
24	Super-resolution thermographic imaging using blind structured illumination. Applied Physics Letters, 2017, 111, .	1.5	22
25	Imaging of Biological Materials and Cells by X-ray Scattering and Diffraction. ACS Nano, 2017, 11, 8542-8559.	7.3	57
26	Analysis and correction of errors in nanoscale particle tracking using the Single-pixel interior filling function (SPIFF) algorithm. Scientific Reports, 2017, 7, 16553.	1.6	11
27	Nanometrology and super-resolution imaging with DNA. MRS Bulletin, 2017, 42, 951-959.	1.7	24
28	Automated quantification of protein periodic nanostructures in fluorescence nanoscopy images: abundance and regularity of neuronal spectrin membrane-associated skeleton. Scientific Reports, 2017, 7, 16029.	1.6	13
29	Gpufit: An open-source toolkit for GPU-accelerated curve fitting. Scientific Reports, 2017, 7, 15722.	1.6	45
30	Dynamic changes in binding interaction networks of sex steroids establish their non-classical effects. Scientific Reports, 2017, 7, 14847.	1.6	3
31	Super-resolution imaging by metamaterial-based compressive spatial-to-spectral transformation. Nanoscale, 2017, 9, 18268-18274.	2.8	26
32	Super-resolution microscopy with very large working distance by means of distributed aperture illumination. Scientific Reports, 2017, 7, 3685.	1.6	10
34	<i>In situ</i> genotyping of a pooled strain library after characterizing complex phenotypes. Molecular Systems Biology, 2017, 13, 947.	3.2	50
35	Robust real-time 3D single-particle tracking using a dynamically moving laser spot. Optics Letters, 2017, 42, 2390.	1.7	49
36	Research Strategies. , 2017, , 75-101.		0
37	A Protocol for Real-time 3D Single Particle Tracking. Journal of Visualized Experiments, 2018, , .	0.2	7
38	Expansion Stimulated Emission Depletion Microscopy (ExSTED). ACS Nano, 2018, 12, 4178-4185.	7.3	148
39	Recent research on stimulated emission depletion microscopy for reducing photobleaching. Journal of Microscopy, 2018, 271, 4-16.	0.8	21

#	Article	IF	Citations
40	Visualizing transcription factor dynamics in living cells. Journal of Cell Biology, 2018, 217, 1181-1191.	2.3	159
41	Single-particle trajectories reveal two-state diffusion-kinetics of hOGG1 proteins on DNA. Nucleic Acids Research, 2018, 46, 2446-2458.	6.5	27
42	Using DNA origami nanorulers as traceable distance measurement standards and nanoscopic benchmark structures. Scientific Reports, 2018, 8, 1780.	1.6	37
43	Simulating biological processes: stochastic physics from whole cells to colonies. Reports on Progress in Physics, 2018, 81, 052601.	8.1	32
44	Superresolution imaging of individual replication forks reveals unexpected prodrug resistance mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1366-E1373.	3.3	39
45	An introduction to optical super-resolution microscopy for the adventurous biologist. Methods and Applications in Fluorescence, 2018, 6, 022003.	1.1	147
46	Quantitative optical nanophysiology of Ca2+ signaling at inner hair cell active zones. Nature Communications, 2018, 9, 290.	5.8	88
47	Far-field nanoscopy on a semiconductor quantum dot via a rapid-adiabatic-passage-based switch. Nature Photonics, 2018, 12, 68-72.	15.6	18
48	A toolbox of anti–mouse and anti–rabbit IgG secondary nanobodies. Journal of Cell Biology, 2018, 217, 1143-1154.	2.3	111
49	Photoswitchable Turn-on Mode Fluorescent Diarylethenes: Strategies for Controlling the Switching Response. Bulletin of the Chemical Society of Japan, 2018, 91, 237-250.	2.0	72
50	Visualizing long-term single-molecule dynamics in vivo by stochastic protein labeling. Proceedings of the United States of America, 2018, 115, 343-348.	3.3	79
51	Fluorescent Diarylethene Photoswitches—A Universal Tool for Superâ€Resolution Microscopy in Nanostructured Materials. Small, 2018, 14, 1703333.	5.2	64
52	Structure via super-resolution. Nature Methods, 2018, 15, 30-30.	9.0	1
53	Planar Diffractive Lenses: Fundamentals, Functionalities, and Applications. Advanced Materials, 2018, 30, e1704556.	11.1	105
54	3D super-resolution microscopy reflects mitochondrial cristae alternations and mtDNA nucleoid size and distribution. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 829-844.	0.5	37
55	Rediscovering Bacteria through Single-Molecule Imaging in Living Cells. Biophysical Journal, 2018, 115, 190-202.	0.2	24
56	Prospects for Fluorescence Nanoscopy. ACS Nano, 2018, 12, 4081-4085.	7.3	19
57	Metamaterial-assisted illumination nanoscopy. National Science Review, 2018, 5, 141-143.	4.6	15

TION RE

	CITATION	Report	
#	Article	IF	CITATIONS
58	Metal–Dielectric Parabolic Antenna for Directing Single Photons. Nano Letters, 2018, 18, 3060-3065.	4.5	26
59	Single-molecule techniques in biophysics: a review of the progress in methods and applications. Reports on Progress in Physics, 2018, 81, 024601.	8.1	136
60	The ultimate picture — the combination of live cell superresolution microscopy and single molecule tracking yields highest spatio-temporal resolution. Current Opinion in Microbiology, 2018, 43, 55-61.	2.3	12
61	DNA-based construction at the nanoscale: emerging trends and applications. Nanotechnology, 2018, 29, 062001.	1.3	45
62	Single-molecule imaging and manipulation of biomolecular machines and systems. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 241-252.	1.1	12
63	A fluorescence nanoscopy marker for corticotropin-releasing hormone type 1 receptor: computer design, synthesis, signaling effects, super-resolved fluorescence imaging, and <i>in situ</i> affinity constant in cells. Physical Chemistry Chemical Physics, 2018, 20, 29212-29220.	1.3	12
64	Interferometric Evanescent Wave Excitation of a Nanoantenna for Ultrasensitive Displacement and Phase Metrology. Physical Review Letters, 2018, 121, 193901.	2.9	26
65	Combined Use of Unnatural Amino Acids Enables Dual-Color Super-Resolution Imaging of Proteins <i>via</i> Click Chemistry. ACS Nano, 2018, 12, 12247-12254.	7.3	25
66	Ortsspezifische Funktionalisierung von Affimeren für die DNAâ€PAINTâ€Mikroskopie. Angewandte Chemie, 2018, 130, 11226-11230.	1.6	11
67	A machine learning approach for online automated optimization of super-resolution optical microscopy. Nature Communications, 2018, 9, 5247.	5.8	43
68	Conducting Multiple Imaging Modes with One Fluorescence Microscope. Journal of Visualized Experiments, 2018, , .	0.2	7
69	Experimental Demonstration of Hyperbolic Metamaterial Assisted Illumination Nanoscopy. ACS Nano, 2018, 12, 11316-11322.	7.3	20
70	Superresolution Diffuse Optical Imaging by Localization of Fluorescence. Physical Review Applied, 2018, 10, .	1.5	12
71	Switchable Fluorophores for Single-Molecule Localization Microscopy. Chemical Reviews, 2018, 118, 9412-9454.	23.0	223
72	Enhancement of fluorescence emission difference microscopy using conjugated vortex phase modulation. Journal of Microscopy, 2018, 272, 151-159.	0.8	1
73	Recording the wild lives of immune cells. Science Immunology, 2018, 3, .	5.6	59
74	Polarization-based super-resolution imaging of surface-enhanced Raman scattering nanoparticles with orientational information. Nanoscale, 2018, 10, 19757-19765.	2.8	17
75	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	1.3	99

	CHANON	ILPORT	
#	Article	IF	Citations
76	Divide and Rule: Plant Plasma Membrane Organization. Trends in Plant Science, 2018, 23, 899-917.	4.3	83
77	Visualizing and discovering cellular structures with super-resolution microscopy. Science, 2018, 361, 880-887.	6.0	500
78	Three-dimensional single-molecule localization with nanometer accuracy using Metal-Induced Energy Transfer (MIET) imaging. Journal of Chemical Physics, 2018, 148, 204201.	1.2	26
79	Nanoparticles for super-resolution microscopy and single-molecule tracking. Nature Methods, 2018, 15, 415-423.	9.0	208
80	Identifying Catalytic Reactions on Single Nanoparticles. Topics in Catalysis, 2018, 61, 923-939.	1.3	18
81	Rapid non-classical effects of steroids on the membrane receptor dynamics and downstream signaling in neurons. Hormones and Behavior, 2018, 104, 183-191.	1.0	12
82	Density matrix study of ground state depletion towards sub-diffraction-limited spontaneous Raman scattering spectroscopy. Journal of Chemical Physics, 2018, 148, 204110.	1.2	6
83	Microscopic inspection and tracking of single upconversion nanoparticles in living cells. Light: Science and Applications, 2018, 7, 18007-18007.	7.7	141
84	MINFLUX monitors rapid molecular jumps with superior spatiotemporal resolution. Proceedings of the United States of America, 2018, 115, 6117-6122.	3.3	126
85	Breaking the Axial Diffraction Limit: A Guide to Axial Superâ€Resolution Fluorescence Microscopy. Laser and Photonics Reviews, 2018, 12, 1700333.	4.4	33
86	Understanding Protein Mobility in Bacteria by Tracking Single Molecules. Journal of Molecular Biology, 2018, 430, 4443-4455.	2.0	48
87	tRNA tracking for direct measurements of protein synthesis kinetics in live cells. Nature Chemical Biology, 2018, 14, 618-626.	3.9	39
88	Microscopy in Infectious Disease Research—Imaging Across Scales. Journal of Molecular Biology, 2018, 430, 2612-2625.	2.0	14
89	Structure determination from single molecule X-ray scattering with three photons per image. Nature Communications, 2018, 9, 2375.	5.8	34
90	Archaeal imaging: leading the hunt for new discoveries. Molecular Biology of the Cell, 2018, 29, 1675-1681.	0.9	32
91	Novel Microscopic Techniques for Podocyte Research. Frontiers in Endocrinology, 2018, 9, 379.	1.5	12
92	Super-resolution fluorescence microscopy by stepwise optical saturation. Biomedical Optics Express, 2018, 9, 1613.	1.5	16
93	Super-resolution fluorescence microscopy studies of human immunodeficiency virus. Retrovirology, 2018, 15, 41.	0.9	37

	ΟΙΤΑΤΙΟ	CITATION REPORT	
#	Article	IF	CITATIONS
94	High-Speed Single-Molecule Tracking of CXCL13 in the B-Follicle. Frontiers in Immunology, 2018, 9, 1073.	2.2	33
95	Multimodal Light Microscopy Approaches to Reveal Structural and Functional Properties of Promyelocytic Leukemia Nuclear Bodies. Frontiers in Oncology, 2018, 8, 125.	1.3	26
96	Fluorescent Nano-Probes to Image Plant Cell Walls by Super-Resolution STED Microscopy. Plants, 2018, 7, 11.	1.6	16
97	Siteâ€Specific Labeling of Affimers for DNAâ€PAINT Microscopy. Angewandte Chemie - International Edition, 2018, 57, 11060-11063.	7.2	71
98	Towards structural biology with super-resolution microscopy. Nanoscale, 2018, 10, 16416-16424.	2.8	8
99	X10 expansion microscopy enables 25â€nm resolution on conventional microscopes. EMBO Reports, 2018, 19, .	2.0	151
100	Quantitative imaging of clathrin-mediated endocytosis. Current Opinion in Cell Biology, 2018, 53, 105-110.	2.6	20
101	Fluorescence Polarization Control for On–Off Switching of Single Molecules at Cryogenic Temperatures. Small Methods, 2018, 2, 1700323.	4.6	6
102	Protein motion in the nucleus: from anomalous diffusion to weak interactions. Biochemical Society Transactions, 2018, 46, 945-956.	1.6	56
103	Modified aptamers enable quantitative sub-10-nm cellular DNA-PAINT imaging. Nature Methods, 2018, 15, 685-688.	9.0	142
104	All-Optical Self-Referenced Transverse Position Sensing with Subnanometer Precision. ACS Photonics, 2018, 5, 3628-3633.	3.2	9
105	Biophysical nanotools for single-molecule dynamics. Biophysical Reviews, 2018, 10, 1349-1357.	1.5	21
106	Fluorescence modulation by fast photochromism of a [2.2]paracyclophane-bridged imidazole dimer possessing a perylene bisimide moiety. Journal of Materials Chemistry C, 2018, 6, 9523-9531.	2.7	15
107	The power of a single trajectory. New Journal of Physics, 2018, 20, 031001.	1.2	5
108	Atom/molecular nanoarchitectonics for devices and related applications. Nano Today, 2019, 28, 100762.	6.2	77
109	3D sub-diffraction imaging in a conventional confocal configuration by exploiting super-linear emitters. Nature Communications, 2019, 10, 3695.	5.8	51
110	High-Resolution 3D Light Microscopy with STED and RESOLFT. , 2019, , 3-32.		14
111	A primer on resolving the nanoscale structure of the plasma membrane with light and electron microscopy. Journal of General Physiology, 2019, 151, 974-985.	0.9	12

#		IF	CITATIONS
112	Can single molecule localization microscopy detect nanoclusters in T cells?. Current Opinion in Chemical Biology, 2019, 51, 130-137.	2.8	14
113	Super-resolution modularity analysis shows polyhedral caveolin-1 oligomers combine to form scaffolds and caveolae. Scientific Reports, 2019, 9, 9888.	1.6	37
114	Methods for Assessing Surface Cleanliness. , 2019, , 23-105.		14
115	Direct Visualization of Single Nuclear Pore Complex Proteins Using Geneticallyâ€Encoded Probes for DNAâ€PAINT. Angewandte Chemie - International Edition, 2019, 58, 13004-13008.	7.2	77
116	Super-resolution imaging of non-fluorescent reactions via competition. Nature Chemistry, 2019, 11, 687-694.	6.6	78
117	Application of STED imaging for chromatin studies. Journal Physics D: Applied Physics, 2019, 52, 504003.	1.3	15
118	Fluorescence microscopy at the molecular scale. Current Opinion in Biomedical Engineering, 2019, 12, 34-42.	1.8	7
119	Mono- and bithiophene-substituted diarylethene photoswitches with emissive open or closed forms. Beilstein Journal of Organic Chemistry, 2019, 15, 2344-2354.	1.3	7
120	Dual Bioorthogonal Labeling of the Amyloid-β Protein Precursor Facilitates Simultaneous Visualization of the Protein and Its Cleavage Products. Journal of Alzheimer's Disease, 2019, 72, 537-548.	1.2	13
121	Multiscale Multimodal Multicolor Microscopy. Microscopy and Microanalysis, 2019, 25, 1070-1071.	0.2	0
122	Study on the fluorescence properties of lignocellulosic prehydrolysis liquor. Wood Science and Technology, 2019, 53, 1395-1407.	1.4	1
123	Understanding the dynamics and structure of epigenetic states with single-molecule fluorescence microscopy. Current Opinion in Biomedical Engineering, 2019, 12, 18-24.	1.8	1
124	A super-resolution platform for correlative live single-molecule imaging and STED microscopy. Nature Methods, 2019, 16, 1263-1268.	9.0	53
125	Lanthanide-Doped Nanoparticles for Stimulated Emission Depletion Nanoscopy. ACS Applied Nano Materials, 2019, 2, 5817-5823.	2.4	8
126	Direct Visualization of Single Nuclear Pore Complex Proteins Using Geneticallyâ€Encoded Probes for DNAâ€PAINT. Angewandte Chemie, 2019, 131, 13138-13142.	1.6	16
127	Thermal illumination limits in 3D Raman microscopy: A comparison of different sample illumination strategies to obtain maximum imaging speed. PLoS ONE, 2019, 14, e0220824.	1.1	3
128	Graphene-based metal-induced energy transfer for sub-nanometre optical localization. Nature Photonics, 2019, 13, 860-865.	15.6	66
129	Molecular resolution imaging by repetitive optical selective exposure. Nature Methods, 2019, 16, 1114-1118.	9.0	102

#	Article	IF	CITATIONS
130	Complex vectorial optics through gradient index lens cascades. Nature Communications, 2019, 10, 4264.	5.8	79
131	Interrogating Synaptic Architecture: Approaches for Labeling Organelles and Cytoskeleton Components. Frontiers in Synaptic Neuroscience, 2019, 11, 23.	1.3	10
132	A mutation in the catalytic domain of cellulose synthase 6 halts its transport to the Golgi apparatus. Journal of Experimental Botany, 2019, 70, 6071-6083.	2.4	14
133	Optimised insert design for improved single-molecule imaging and quantification through CRISPR-Cas9 mediated knock-in. Scientific Reports, 2019, 9, 14219.	1.6	19
134	Capturing Metabolism-Dependent Solvent Dynamics in the Lumen of a Trafficking Lysosome. ACS Nano, 2019, 13, 1670-1682.	7.3	15
135	Resolving fine electromechanical structure of collagen fibrils via sequential excitation piezoresponse force microscopy. Nanotechnology, 2019, 30, 205703.	1.3	12
136	Combining 3D single molecule localization strategies for reproducible bioimaging. Nature Communications, 2019, 10, 1980.	5.8	35
137	X-ray tomography shows the varying three-dimensional morphology of gold nanoaggregates in the cellular ultrastructure. Nanoscale Advances, 2019, 1, 2937-2945.	2.2	14
138	Super-resolution optical microscope: principle, instrumentation, and application. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 608-630.	1.5	13
139	Enabling technologies in super-resolution fluorescence microscopy: reporters, labeling, and methods of measurement. Current Opinion in Structural Biology, 2019, 58, 224-232.	2.6	15
140	Single-Molecule Nanoscopy Elucidates RNA Polymerase II Transcription at Single Genes in Live Cells. Cell, 2019, 178, 491-506.e28.	13.5	113
141	Nanoscopic Stoichiometry and Singleâ€Molecule Counting. Small Methods, 2019, 3, 1900082.	4.6	7
142	A guide to visualizing the spatial epigenome with superâ€resolution microscopy. FEBS Journal, 2019, 286, 3095-3109.	2.2	18
143	Dynamics of proteins in solution. Quarterly Reviews of Biophysics, 2019, 52, .	2.4	78
144	From single bacterial cell imaging towards <i>in vivo</i> single-molecule biochemistry studies. Essays in Biochemistry, 2019, 63, 187-196.	2.1	18
146	Analytical Techniques: Shedding Light upon Nanometer-Sized Secretory Vesicles. Trends in Chemistry, 2019, 1, 440-451.	4.4	23
147	Live-Cell Super-resolution Fluorescence Microscopy. Biochemistry (Moscow), 2019, 84, 19-31.	0.7	8
148	Increasing Resolution in Live Cell Microscopy by Structured Illumination (SIM). Applied Sciences (Switzerland), 2019, 9, 1188.	1.3	20

#	Article	IF	CITATIONS
149	Practical Considerations in Particle and Object Tracking and Analysis. Current Protocols in Cell Biology, 2019, 83, e88.	2.3	17
150	Resolving Cytosolic Diffusive States in Bacteria by Single-Molecule Tracking. Biophysical Journal, 2019, 116, 1970-1983.	0.2	12
151	Interferometric Scattering Microscopy. Annual Review of Physical Chemistry, 2019, 70, 301-322.	4.8	99
152	A near-infrared and two-photon ratiometric fluorescent probe with a large Stokes shift for sulfur dioxide derivatives detection and its applications in vitro and in vivo. Sensors and Actuators B: Chemical, 2019, 288, 519-526.	4.0	45
153	124-Color Super-resolution Imaging by Engineering DNA-PAINT Blinking Kinetics. Nano Letters, 2019, 19, 2641-2646.	4.5	82
154	Optical Spectroscopy of Surfaces, Interfaces, and Thin Films: A Status Report. Analytical Chemistry, 2019, 91, 4235-4265.	3.2	12
155	Bacterially Derived Antibody Binders as Small Adapters for DNAâ€PAINT Microscopy. ChemBioChem, 2019, 20, 1032-1038.	1.3	25
156	Lifetime superâ€resolution optical fluctuation imaging. Journal of Microscopy, 2019, 274, 87-91.	0.8	0
157	Generating intravital super-resolution movies with conventional microscopy reveals actin dynamics that construct pioneer axons. Development (Cambridge), 2019, 146, .	1.2	11
158	Tracking of single tRNAs for translation kinetics measurements in chloramphenicol treated bacteria. Methods, 2019, 162-163, 23-30.	1.9	13
159	Nanometer-accuracy distance measurements between fluorophores at the single-molecule level. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4275-4284.	3.3	31
160	Hydrophilic Quantum Dots Functionalized with Gd(III)-DO3A Monoamide Chelates as Bright and Effective T1-weighted Bimodal Nanoprobes. Scientific Reports, 2019, 9, 2341.	1.6	13
161	Centriole assembly at a glance. Journal of Cell Science, 2019, 132, .	1.2	78
162	Optical super-resolution microscopy unravels the molecular composition of functional protein complexes. Nanoscale, 2019, 11, 17981-17991.	2.8	40
164	Analysis of CA Content and CPSF6 Dependence of Early HIV-1 Replication Complexes in SupT1-R5 Cells. MBio, 2019, 10, .	1.8	34
165	Correcting Artifacts in Single Molecule Localization Microscopy Analysis Arising from Pixel Quantum Efficiency Differences in sCMOS Cameras. Scientific Reports, 2019, 9, 18058.	1.6	12
166	Super-resolution localization photoacoustic microscopy using intrinsic red blood cells as contrast absorbers. Light: Science and Applications, 2019, 8, 103.	7.7	131
167	Graphene boost. Nature Photonics, 2019, 13, 825-826.	15.6	2

	CITATION R	Citation Report	
#	Article	IF	CITATIONS
168	Optical microscopy approaches angstrom precision, in 3D!. Light: Science and Applications, 2019, 8, 117.	7.7	2
169	Putting advanced microscopy in the hands of biologists. Nature Methods, 2019, 16, 1069-1073.	9.0	25
170	Mapping intrinsic electromechanical responses at the nanoscale via sequential excitation scanning probe microscopy empowered by deep data. National Science Review, 2019, 6, 55-63.	4.6	27
171	Super-resolution microscopy demystified. Nature Cell Biology, 2019, 21, 72-84.	4.6	754
172	Single-Molecule Tracking Approaches to Protein Synthesis Kinetics in Living Cells. Biochemistry, 2019, 58, 7-14.	1.2	4
173	Plant lipids: Key players of plasma membrane organization and function. Progress in Lipid Research, 2019, 73, 1-27.	5.3	167
174	Unforgettable force – crosstalk and memory of mechanosensitive structures. Biological Chemistry, 2019, 400, 687-698.	1.2	17
175	Vortex fibers for STED microscopy. APL Photonics, 2019, 4, .	3.0	40
176	Superresolution Fluorescence Imaging of Mutant Huntingtin Aggregation in Cells. Methods in Molecular Biology, 2019, 1873, 241-251.	0.4	3
177	Chemical Analysis of Single Cells. Analytical Chemistry, 2019, 91, 588-621.	3.2	82
178	Single-Molecule Kinetics in Living Cells. Annual Review of Biochemistry, 2019, 88, 635-659.	5.0	91
179	Protein Misfolding Diseases. Methods in Molecular Biology, 2019, , .	0.4	3
180	Small-Molecule Fluorescent Probes for Live-Cell Super-Resolution Microscopy. Journal of the American Chemical Society, 2019, 141, 2770-2781.	6.6	357
181	A unified method for super-resolution recovery and real exponential-sum separation. Applied and Computational Harmonic Analysis, 2019, 46, 431-451.	1.1	5
182	Advances in high-resolution microscopy for the study of intracellular interactions with biomaterials. Biomaterials, 2020, 226, 119406.	5.7	30
183	Strategies to maximize performance in STimulated Emission Depletion (STED) nanoscopy of biological specimens. Methods, 2020, 174, 27-41.	1.9	38
184	Multiresolution Localization With Temporal Scanning for Super-Resolution Diffuse Optical Imaging of Fluorescence. IEEE Transactions on Image Processing, 2020, 29, 830-842.	6.0	5
185	Designing Subâ€2 nm Organosilica Nanohybrids for Farâ€Field Superâ€Resolution Imaging. Angewandte Chemie, 2020, 132, 756-761.	1.6	3

#	Article	IF	CITATIONS
186	Nanographene: ultrastabile, schaltbare und helle Sonden für die hochauflösende Mikroskopie. Angewandte Chemie, 2020, 132, 504-510.	1.6	4
187	Designing Subâ€2â€nm Organosilica Nanohybrids for Farâ€Field Superâ€Resolution Imaging. Angewandte Chemie - International Edition, 2020, 59, 746-751.	7.2	19
188	Nanographenes: Ultrastable, Switchable, and Bright Probes for Superâ€Resolution Microscopy. Angewandte Chemie - International Edition, 2020, 59, 496-502.	7.2	35
189	Time-resolved imaging-based CRISPRi screening. Nature Methods, 2020, 17, 86-92.	9.0	57
190	TADs or no TADS: Lessons From Single-cell Imaging of Chromosome Architecture. Journal of Molecular Biology, 2020, 432, 682-693.	2.0	9
191	Numerically Enhanced Stimulated Emission Depletion Microscopy with Adaptive Optics for Deep-Tissue Super-Resolved Imaging. ACS Nano, 2020, 14, 394-405.	7.3	15
192	Localization microscopy at doubled precision with patterned illumination. Nature Methods, 2020, 17, 59-63.	9.0	138
193	Single-molecule biosensors: Recent advances and applications. Biosensors and Bioelectronics, 2020, 151, 111944.	5.3	95
194	Evaluating viscoelastic properties and membrane electrical charges of red blood cells with optical tweezers and cationic quantum dots – applications to β-thalassemia intermedia hemoglobinopathy. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110671.	2.5	8
195	An ultra-fast, NIR, mitochondria-targeted fluorescent probe for sulfur dioxide based on benzopyrylium and its imaging of in living cells. Sensors and Actuators B: Chemical, 2020, 305, 127336.	4.0	35
196	DNAâ€Barcoded Fluorescence Microscopy for Spatial Omics. Proteomics, 2020, 20, e1900368.	1.3	3
197	Optical super-resolution microscopy in polymer science. Progress in Polymer Science, 2020, 111, 101312.	11.8	22
198	Quantitative Data Analysis in Single-Molecule Localization Microscopy. Trends in Cell Biology, 2020, 30, 837-851.	3.6	47
199	Super-Resolution Live Cell Microscopy of Membrane-Proximal Fluorophores. International Journal of Molecular Sciences, 2020, 21, 7099.	1.8	9
200	Super-resolution Microscopy with Single Molecules in Biology and Beyond–Essentials, Current Trends, and Future Challenges. Journal of the American Chemical Society, 2020, 142, 17828-17844.	6.6	108
201	Confocal Fluorescence-Lifetime Single-Molecule Localization Microscopy. ACS Nano, 2020, 14, 14190-14200.	7.3	65
202	Correlative Cathodoluminescence Electron Microscopy: Immunolabeling Using Rareâ€Earth Element Doped Nanoparticles. Small, 2020, 16, 2004615.	5.2	8
203	Extracting Transition Rates in Particle Tracking Using Analytical Diffusion Distribution Analysis. Biophysical Journal, 2020, 119, 1970-1983.	0.2	19

#	Article	IF	CITATIONS
204	Plasmonics meets super-resolution microscopy in biology. Micron, 2020, 137, 102916.	1.1	10
205	Nanobiophotonics and fluorescence nanoscopy in 2020. , 2020, , 113-162.		2
206	Correlative cathodoluminescence electron microscopy bioimaging: towards single protein labelling with ultrastructural context. Nanoscale, 2020, 12, 15588-15603.	2.8	9
207	New imaging tools to study synaptogenesis. , 2020, , 119-148.		0
208	DNA origami nanorulers and emerging reference structures. APL Materials, 2020, 8, .	2.2	33
209	Multicolor 3D MINFLUX nanoscopy of mitochondrial MICOS proteins. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20607-20614.	3.3	69
210	A Review of Super-Resolution Single-Molecule Localization Microscopy Cluster Analysis and Quantification Methods. Patterns, 2020, 1, 100038.	3.1	165
211	Considerations of Antibody Geometric Constraints on NK Cell Antibody Dependent Cellular Cytotoxicity. Frontiers in Immunology, 2020, 11, 1635.	2.2	20
212	Elevating Chemistry Research with a Modern Electronics Toolkit. Chemical Reviews, 2020, 120, 9482-9553.	23.0	49
213	Flapping Peryleneimide as a Fluorescent Viscosity Probe: Comparison with BODIPY and DCVJ Molecular Rotors. Bulletin of the Chemical Society of Japan, 2020, 93, 1102-1106.	2.0	12
214	Integrating engineered point spread functions into the phasor-based single-molecule localization microscopy framework. Methods, 2021, 193, 107-115.	1.9	5
215	Development of small molecule inhibitor-based fluorescent probes for highly specific super-resolution imaging. Nanoscale, 2020, 12, 21591-21598.	2.8	13
216	Resolving the data asynchronicity in high-speed atomic force microscopy measurement via the Kalman Smoother. Scientific Reports, 2020, 10, 18393.	1.6	9
217	High-resolution deep view microscopy of cells and tissues. Quantum Electronics, 2020, 50, 2-8.	0.3	5
218	Optical nanoscopy. Rivista Del Nuovo Cimento, 2020, 43, 385-455.	2.0	22
219	100th Anniversary of Macromolecular Science Viewpoint: Enabling Advances in Fluorescence Microscopy Techniques. ACS Macro Letters, 2020, 9, 1342-1356.	2.3	28
220	Single-particle virology. Biophysical Reviews, 2020, 12, 1141-1154.	1.5	16
221	Pathways and challenges towards a complete characterization of microgels. Nature Communications, 2020, 11, 4315.	5.8	72

		CITATION REPORT	
#	Article	IF	CITATIONS
222	Liquid phase electron microscopy of biological specimens. MRS Bulletin, 2020, 45, 754-760.	1.7	11
223	Cold and Hot Spots: From Inhibition to Enhancement by Nanoscale Phase Tuning of Optical Nanoantennas. Nano Letters, 2020, 20, 6756-6762.	4.5	4
224	Optimizing imaging speed and excitation intensity for single-molecule localization microscopy. Nat Methods, 2020, 17, 909-912.	ure 9.0	77
225	The Decade of Super-Resolution Microscopy of the Presynapse. Frontiers in Synaptic Neuroscience, 2020, 12, 32.	1.3	20
226	A Review on Dual-Lens Fluorescence Microscopy for Three-Dimensional Imaging. Frontiers in Physics 2020, 8, .	^{5,} 1.0	0
227	Recent Advances and Prospects in the Research of Nascent Adhesions. Frontiers in Physiology, 202 574371.	0,11, 1.3	14
228	Subâ€10 nm Distance Measurements between Fluorophores using Photonâ€Accumulation Enl Reconstruction. Advanced Photonics Research, 2020, 1, 2000038.	nanced 1.7	4
229	Quantitative Synaptic Biology: A Perspective on Techniques, Numbers and Expectations. Internation Journal of Molecular Sciences, 2020, 21, 7298.	nal 1.8	3
230	Synchronous, Crosstalk-free Correlative AFM and Confocal Microscopies/Spectroscopies. Scientific Reports, 2020, 10, 7098.	1.6	15
231	Self-Healing Dyes—Keeping the Promise?. Journal of Physical Chemistry Letters, 2020, 11, 4462-4	480. 2.1	35
232	The cell biologist's guide to super-resolution microscopy. Journal of Cell Science, 2020, 133, .	1.2	103
233	Comparison of Multiscale Imaging Methods for Brain Research. Cells, 2020, 9, 1377.	1.8	13
234	Protein folding and assembly in confined environments: Implications for protein aggregation in hydrogels and tissues. Biotechnology Advances, 2020, 42, 107573.	6.0	29
235	Quo vadis FRET? Förster's method in the era of superresolution. Methods and Applications in Fluorescence, 2020, 8, 032003.	1.1	14
236	Asymmetric Excitation of Surface Plasmon Polaritons via Paired Slot Antennas for Angstrom Displacement Sensing. Physical Review Letters, 2020, 124, 243901.	2.9	19
237	Flapping Peryleneimide as a Fluorogenic Dye with High Photostability and Strong Visibleâ€Light Absorption. Angewandte Chemie, 2020, 132, 16572-16577.	1.6	7
238	Single-Molecule Imaging of Protein Interactions and Dynamics. Annual Review of Analytical Chemist 2020, 13, 337-361.	try, 2.8	22
239	Molecular height measurement by cell surface optical profilometry (CSOP). Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14209-14219.	3.3	27

#	Article	IF	CITATIONS
240	Flapping Peryleneimide as a Fluorogenic Dye with High Photostability and Strong Visibleâ€Light Absorption. Angewandte Chemie - International Edition, 2020, 59, 16430-16435.	7.2	35
241	Synthesis and optical characterization of new ketocyanine dyes with extended polymethine chaines. Journal of Heterocyclic Chemistry, 2020, 57, 3193-3201.	1.4	Ο
242	Modulation-enhanced localization microscopy. JPhys Photonics, 2020, 2, 041001.	2.2	28
243	nanoTRON: a Picasso module for MLP-based classification of super-resolution data. Bioinformatics, 2020, 36, 3620-3622.	1.8	14
244	Analysis of sparse molecular distributions in fibrous arrangements based on the distance to the first neighbor in single molecule localization microscopy. Nanoscale, 2020, 12, 9495-9506.	2.8	2
245	Influence of the Local Scattering Environment on the Localization Precision of Single Particles. Physical Review Letters, 2020, 124, 133903.	2.9	18
246	Back to the Future: Genetically Encoded Fluorescent Proteins as Inert Tracers of the Intracellular Environment. International Journal of Molecular Sciences, 2020, 21, 4164.	1.8	13
247	Fluorescent Bioconjugates for Super-Resolution Optical Nanoscopy. Bioconjugate Chemistry, 2020, 31, 1857-1872.	1.8	30
248	Light Microscopy of Mitochondria at the Nanoscale. Annual Review of Biophysics, 2020, 49, 289-308.	4.5	57
249	Achieving high-resolution of 21 nm for STED nanoscopy assisted by CdSe@ZnS quantum dots. Applied Physics Letters, 2020, 116, .	1.5	12
250	Tracking and Analyzing the Brownian Motion of Nano-objects Inside Hollow Core Fibers. ACS Sensors, 2020, 5, 879-886.	4.0	29
251	Asymmetry Between Pre- and Postsynaptic Transient Nanodomains Shapes Neuronal Communication. Trends in Neurosciences, 2020, 43, 182-196.	4.2	27
252	MINFLUX nanoscopy delivers 3D multicolor nanometer resolution in cells. Nature Methods, 2020, 17, 217-224.	9.0	384
253	Bright ligand-activatable fluorescent protein for high-quality multicolor live-cell super-resolution microscopy. Nature Communications, 2020, 11, 273.	5.8	31
254	Single-Virus Tracking: From Imaging Methodologies to Virological Applications. Chemical Reviews, 2020, 120, 1936-1979.	23.0	131
255	Imaging Mitochondrial Functions: From Fluorescent Dyes to Genetically-Encoded Sensors. Genes, 2020, 11, 125.	1.0	27
256	High-Throughput, High-Resolution Interferometric Light Microscopy of Biological Nanoparticles. ACS Nano, 2020, 14, 2002-2013.	7.3	26
257	DNA dynamics and organization in sub-micron scale: Bacterial chromosomes and plasmids in vivo and in vitro. Chinese Journal of Physics, 2020, 66, 82-90.	2.0	3

#	Article	IF	CITATIONS
258	Super-resolution nanoscopy by coherent control on nanoparticle emission. Science Advances, 2020, 6, eaaw6579.	4.7	10
259	Three-Dimensional Single-Molecule Localization Microscopy in Whole-Cell and Tissue Specimens. Annual Review of Biomedical Engineering, 2020, 22, 155-184.	5.7	20
260	Simple multi-color super-resolution by X10 microscopy. Methods in Cell Biology, 2021, 161, 33-56.	0.5	6
261	Ultrastructure expansion microscopy (U-ExM). Methods in Cell Biology, 2021, 161, 57-81.	0.5	67
262	Photonic Technologies for Liquid Biopsies: Recent Advances and Open Research Challenges. Laser and Photonics Reviews, 2021, 15, .	4.4	10
263	3D active stabilization for single-molecule imaging. Nature Protocols, 2021, 16, 497-515.	5.5	15
264	Resolution Enhancement and Background Suppression in Optical Superâ€Resolution Imaging for Biological Applications. Laser and Photonics Reviews, 2021, 15, .	4.4	13
265	Chemical Analysis of Single Cells and Organelles. Analytical Chemistry, 2021, 93, 41-71.	3.2	40
266	Pulsed Interleaved MINFLUX. Nano Letters, 2021, 21, 840-846.	4.5	63
267	Photoactivatable Fluorophore for Stimulated Emission Depletion (STED) Microscopy and Bioconjugation Technique for Hydrophobic Labels. Chemistry - A European Journal, 2021, 27, 451-458.	1.7	31
268	Maximum information states for coherent scattering measurements. Nature Physics, 2021, 17, 564-568.	6.5	30
269	Single molecule fluorescence imaging of nanoconfinement in porous materials. Chemical Society Reviews, 2021, 50, 6483-6506.	18.7	33
270	Nanometric axial localization of single fluorescent molecules with modulated excitation. Nature Photonics, 2021, 15, 297-304.	15.6	70
271	Alteration in synaptic nanoscale organization dictates amyloidogenic processing in Alzheimer's disease. IScience, 2021, 24, 101924.	1.9	13
272	Eliminating nonspecific binding sites for highly reliable immunoassay <i>via</i> super-resolution multicolor fluorescence colocalization. Nanoscale, 2021, 13, 6624-6634.	2.8	9
273	Small focal spot formation by vector beams. Progress in Optics, 2021, , 35-90.	0.4	6
274	Ï€ -Conjugated organosilanes at the nexus of single-molecule electronics and imaging. Journal of Materials Chemistry C, 2021, 9, 11605-11618.	2.7	6
275	A multidrug-resistant P-glycoprotein assembly revealed by tariquidar-probe's super-resolution	2.8	2

ARTICLE IF CITATIONS # Three-dimensional total-internal reflection fluorescence nanoscopy with nanometric axial 276 5.8 12 resolution by photometric localization of single molecules. Nature Communications, 2021, 12, 517. Imaging therapeutic peptide transport across intestinal barriers. RSC Chemical Biology, 2021, 2, 1115-1143. A Picture Worth a Thousand Moleculesâ€"Integrative Technologies for Mapping Subcellular Molecular 278 Organization and Plasticity in Developing Circuits. Frontiers in Synaptic Neuroscience, 2020, 12, 1.3 4 615059. Laser Scanning versus Wide-Fieldâ€"Choosing the Appropriate Microscope in Life Sciences. Applied 279 Sciences (Switzerland), 2021, 11, 733. Unraveling the Nanoscopic Organization and Function of Central Mammalian Presynapses With 280 1.4 13 Super-Resolution Microscopy. Frontiers in Neuroscience, 2020, 14, 578409. Nuclear envelope mechanobiology: linking the nuclear structure and function. Nucleus, 2021, 12, 0.6 90-114. Atomic scale displacements detected by optical image cross-correlation analysis and 3D printed 282 1.6 4 marker arrays. Scientific Reports, 2021, 11, 2304. A Novel Blockade CD47 Antibody With Therapeutic Potential for Cancer. Frontiers in Oncology, 2020, 1.3 10, 615534. Super-resolution Imaging of Energy Transfer by Intensity-Based STED-FRET. Nano Letters, 2021, 21, 284 29 4.5 2296-2303. Fundamental Bounds on the Precision of Classical Phase Microscopes. Physical Review Applied, 2021, 1.5 15. Pushing the super-resolution limit: recent improvements in microscopy below the diffraction limit. 287 5 1.6 Biochemical Society Transactions, 2021, 49, 431-439. Single-molecule orientation localization microscopy I: fundamental limits. Journal of the Optical 288 0.8 19 Society of America A: Optics and Image Science, and Vision, 2021, 38, 277. Modular Synthetic Approach to Silicon-Rhodamine Homologues and Analogues via Bis-aryllanthanum 291 2.4 14 Reagents. Organic Letters, 2021, 23, 2604-2609. MINFLUX nanometer-scale 3D imaging and microsecond-range tracking on a common fluorescence 5.8 microscope. Nature Communications, 2021, 12, 1478. 293 Nanoscale imaging of the functional anatomy of the brain. Neuroforum, 2021, . 0.2 3 MINSTED fluorescence localization and nanoscopy. Nature Photonics, 2021, 15, 361-366. 294 Turn-on mode diarylethenes for bioconjugation and fluorescence microscopy of cellular structures. 295 3.3 45 Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . Label-free super-resolution imaging below 90-nm using photon-reassignment. Open Research Europe, 0, 296 1, 3.

#	Article	IF	CITATIONS
297	A FLIM Microscopy Based on Acceptor-Detected Förster Resonance Energy Transfer. Analytical Chemistry, 2021, 93, 4841-4849.	3.2	3
299	Challenges facing quantitative large-scale optical super-resolution, and some simple solutions. IScience, 2021, 24, 102134.	1.9	17
300	Colocalization for super-resolution microscopy via optimal transport. Nature Computational Science, 2021, 1, 199-211.	3.8	13
301	Camera-based localization microscopy optimized with calibrated structured illumination. Communications Physics, 2021, 4, .	2.0	3
302	Advanced imaging and labelling methods to decipher brain cell organization and function. Nature Reviews Neuroscience, 2021, 22, 237-255.	4.9	76
303	Information-Efficient, Off-Center Sampling Results in Improved Precision in 3D Single-Particle Tracking Microscopy. Entropy, 2021, 23, 498.	1.1	12
304	Laser-free super-resolution microscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200144.	1.6	10
305	Modal conversion of transverse mode-locked laser beams. Applied Physics B: Lasers and Optics, 2021, 127, 1.	1.1	2
306	Probing Biosensing Interfaces With Single Molecule Localization Microscopy (SMLM). Frontiers in Chemistry, 2021, 9, 655324.	1.8	3
307	Measurement of expansion factor and distortion for expansion microscopy using isolated renal glomeruli as landmarks. Journal of Biophotonics, 2021, 14, e202100001.	1.1	5
309	Machine Learning-Based Diffractive Image Analysis with Subwavelength Resolution. ACS Photonics, 2021, 8, 1448-1456.	3.2	17
310	Improving spatial precision and field-of-view in wavelength-tagged single-particle tracking using spectroscopic single-molecule localization microscopy. Applied Optics, 2021, 60, 3647.	0.9	5
311	High-Resolution Optical Imaging and Sensing Using Quantum Emitters in Hexagonal Boron-Nitride. Frontiers in Physics, 2021, 9, .	1.0	4
312	Chip-compatible wide-field 3D nanoscopy through tunable spatial frequency shift effect. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	5
313	Super-resolution structured illumination microscopy: past, present and future. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200143.	1.6	23
314	Single-Molecule Imaging in Living Plant Cells: A Methodological Review. International Journal of Molecular Sciences, 2021, 22, 5071.	1.8	6
315	Probing Small Distances in Live Cell Imaging. Photonics, 2021, 8, 176.	0.9	4
317	Single Particle Cathodoluminescence Spectroscopy with Sub-20 nm, Electron-Stable Phosphors. ACS Photonics, 2021, 8, 1539-1547.	3.2	5

#	Article	IF	CITATIONS
318	3D particle averaging and detection of macromolecular symmetry in localization microscopy. Nature Communications, 2021, 12, 2847.	5.8	32
319	Fluorescence Nanoscopy in Neuroscience. Engineering, 2022, 16, 29-38.	3.2	5
320	Quantitative Assessment of Labeling Probes for Superâ€Resolution Microscopy Using Designer DNA Nanostructures. ChemPhysChem, 2021, 22, 911-914.	1.0	18
322	Surface-enhanced Raman scattering nanotags for bioimaging. Journal of Applied Physics, 2021, 129, .	1.1	35
324	Graphene Energy Transfer for Singleâ€Molecule Biophysics, Biosensing, and Superâ€Resolution Microscopy. Advanced Materials, 2021, 33, e2101099.	11.1	38
325	Non-invasive super-resolution imaging through dynamic scattering media. Nature Communications, 2021, 12, 3150.	5.8	37
326	Expansion Microscopy with Multifunctional Polymer Dots. Advanced Materials, 2021, 33, e2007854.	11.1	18
328	Dynamics of Proteins and Macromolecular Machines in Escherichia coli. EcoSal Plus, 2021, 9, eESP00112020.	2.1	0
329	Graphene- and metal-induced energy transfer for single-molecule imaging and live-cell nanoscopy with (sub)-nanometer axial resolution. Nature Protocols, 2021, 16, 3695-3715.	5.5	30
330	Single-molecule localization microscopy. Nature Reviews Methods Primers, 2021, 1, .	11.8	390
332	New insights into promoter–enhancer communication mechanisms revealed by dynamic single-molecule imaging. Biochemical Society Transactions, 2021, 49, 1299-1309.	1.6	8
333	Studying SARS-CoV-2 with Fluorescence Microscopy. International Journal of Molecular Sciences, 2021, 22, 6558.	1.8	15
334	How Single-Molecule Localization Microscopy Expanded Our Mechanistic Understanding of RNA Polymerase II Transcription. International Journal of Molecular Sciences, 2021, 22, 6694.	1.8	3
335	Sub-diffraction dark spot localization microscopy. Photonics Research, 2021, 9, 1455.	3.4	1
336	Fundamental bounds on the precision of iSCAT, COBRI and dark-field microscopy for 3D localization and mass photometry. Journal Physics D: Applied Physics, 2021, 54, 394002.	1.3	13
337	Single Molecules Are Your Quanta: A Bottom-Up Approach toward Multidimensional Super-resolution Microscopy. ACS Nano, 2021, 15, 12483-12496.	7.3	23
338	Singleâ€cell imaging of genome organization and dynamics. Molecular Systems Biology, 2021, 17, e9653.	3.2	25
339	MINFLUX: next generation access to the nanoscale. Microscopy and Microanalysis, 2021, 27, 1426-1427.	0.2	0

	CHAHON	REPORT	
#	Article	IF	CITATIONS
340	Drosophila Models Rediscovered with Super-Resolution Microscopy. Cells, 2021, 10, 1924.	1.8	2
341	Seeing beyond the limit: A guide to choosing the right super-resolution microscopy technique. Journal of Biological Chemistry, 2021, 297, 100791.	1.6	68
342	Engineering phase and polarization singularity sheets. Nature Communications, 2021, 12, 4190.	5.8	28
343	Multiplexed PSF Engineering for Three-Dimensional Multicolor Particle Tracking. Nano Letters, 2021, 21, 5888-5895.	4.5	13
344	Towards Visual Proteomics at High Resolution. Journal of Molecular Biology, 2021, 433, 167187.	2.0	49
346	isoSTED microscopy with water-immersion lenses and background reduction. Biophysical Journal, 2021, 120, 3303-3314.	0.2	7
348	TRAIT2D: a Software for Quantitative Analysis of Single Particle Diffusion Data. F1000Research, 2021, 10, 838.	0.8	5
350	Super-Resolution Imaging Approaches for Quantifying F-Actin in Immune Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 676066.	1.8	7
351	Correlative nanophotonic approaches to enlighten the nanoscale dynamics of living cell membranes. Biochemical Society Transactions, 2021, 49, 2357-2369.	1.6	3
352	A protocol for singleâ€source dualâ€pulse stimulated emission depletion setup with Bessel modulation. Microscopy Research and Technique, 2021, , .	1.2	1
353	Single-molecule tracking technologies for quantifying the dynamics of gene regulation in cells, tissue and embryos. Development (Cambridge), 2021, 148, .	1.2	9
355	Probing DNA-protein interactions using single-molecule diffusivity contrast. Biophysical Reports, 2021, 1, 100009.	0.7	2
356	Identifying extracellular vesicle populations from single cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	38
358	Quantitative dSTORM superâ€resolution microscopy localizes Aurora kinase A/AURKA in the mitochondrial matrix. Biology of the Cell, 2021, 113, 458-473.	0.7	2
361	Inside a Shell—Organometallic Catalysis Inside Encapsulin Nanoreactors. Angewandte Chemie, 2021, 133, 24028-24034.	1.6	3
362	Inside a Shell—Organometallic Catalysis Inside Encapsulin Nanoreactors. Angewandte Chemie - International Edition, 2021, 60, 23835-23841.	7.2	15
363	Analytical description of sub-diffraction dark spot. Optics Communications, 2021, 499, 127295.	1.0	3
364	Advances in the study of organelle interactions and their role in neurodegenerative diseases enabled by super-resolution microscopy. Neurobiology of Disease, 2021, 159, 105475.	2.1	5

#	Article	IF	CITATIONS
365	Background suppression with dual modulation by saturated absorption competition microscopy. Optics and Lasers in Engineering, 2021, 147, 106750.	2.0	0
366	Long-term STED imaging of membrane packing and dynamics by exchangeable polarity-sensitive dyes. Biophysical Reports, 2021, 1, 100023.	0.7	19
367	Rapid ensemble measurement of protein diffusion and probe blinking dynamics in cells. Biophysical Reports, 2021, 1, 100015.	0.7	2
368	Nanoscopy for endosomal escape quantification. Nanoscale Advances, 2021, 3, 10-23.	2.2	24
370	Expansion microscopy on Drosophila spermatocyte centrioles. Methods in Cell Biology, 2021, 161, 217-245.	0.5	2
371	Ex-dSTORM and automated quantitative image analysis of expanded filamentous structures. Methods in Cell Biology, 2021, 161, 317-340.	0.5	5
373	Fluorescence Microscopy. Springer Handbooks, 2019, , 1039-1088.	0.3	9
374	Fluorescence Microscopy with Nanometer Resolution. Springer Handbooks, 2019, , 1089-1143.	0.3	5
375	Tomographic Diffractive Microscopy: Principles, Implementations, and Applications in Biology. Biological and Medical Physics Series, 2019, , 85-112.	0.3	3
376	Complex Diffusion in Bacteria. Advances in Experimental Medicine and Biology, 2020, 1267, 15-43.	0.8	12
377	Localization optoacoustic tomography. Light: Science and Applications, 2018, 7, 18004-18004.	7.7	59
378	Advances in highly doped upconversion nanoparticles. Nature Communications, 2018, 9, 2415.	5.8	793
379	Liquid-phase electron microscopy imaging of cellular and biomolecular systems. Journal of Materials Chemistry B, 2020, 8, 8490-8506.	2.9	19
380	An inertia-free beam scanning device for single-wavelength 2PE-STED nanoscopy. Journal Physics D: Applied Physics, 2020, 53, 324001.	1.3	2
381	Appreciating the small things in life: STED microscopy in living cells. Journal Physics D: Applied Physics, 2021, 54, 033001.	1.3	18
391	Quantum limits for precisely estimating the orientation and wobble of dipole emitters. Physical Review Research, 2020, 2, .	1.3	19
392	Resolution limit of label-free far-field microscopy. Advanced Photonics, 2019, 1, 1.	6.2	35
393	An adaptive optics 3D STED microscope for super-resolution imaging of thick samples with background noise suppression using digital image processing. , 2018, , .		1

#	Article	IF	CITATIONS
394	Two-photon image-scanning microscopy with SPAD array and blind image reconstruction. Biomedical Optics Express, 2020, 11, 2905.	1.5	33
395	Unidirectional scattering exploited transverse displacement sensor with tunable measuring range. Optics Express, 2019, 27, 4944.	1.7	15
396	Coherent-hybrid STED: high contrast sub-diffraction imaging using a bi-vortex depletion beam. Optics Express, 2019, 27, 8092.	1.7	29
397	SIMPLE: Structured illumination based point localization estimator with enhanced precision. Optics Express, 2019, 27, 24578.	1.7	63
398	Pixel hopping enables fast STED nanoscopy at low light dose. Optics Express, 2020, 28, 4516.	1.7	11
399	Microscope calibration protocol for single-molecule microscopy. Optics Express, 2021, 29, 182.	1.7	4
400	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. Optica, 2020, 7, 463.	4.8	58
401	3D Hessian deconvolution of thick light-sheet z-stacks for high-contrast and high-SNR volumetric imaging. Photonics Research, 2020, 8, 1011.	3.4	6
402	Localization STED (LocSTED) microscopy with 15 nm resolution. Nanophotonics, 2020, 9, 783-792.	2.9	14
405	Micromirror Total Internal Reflection Microscopy for High-Performance Single Particle Tracking at Interfaces. ACS Photonics, 2021, 8, 3111-3118.	3.2	9
406	Targetable conformationally restricted cyanines enable photonâ€count limited applications. Angewandte Chemie, 0, , .	1.6	5
408	Simultaneous orientation and 3D localization microscopy with a Vortex point spread function. Nature Communications, 2021, 12, 5934.	5.8	39
409	Empowering single-molecule analysis with self-assembled DNA nanostructures. Matter, 2021, 4, 3121-3145.	5.0	10
411	Targetable Conformationally Restricted Cyanines Enable Photonâ€Countâ€Limited Applications**. Angewandte Chemie - International Edition, 2021, 60, 26685-26693.	7.2	21
425	Agent-free high speed localization photoacoustic microscopy. , 2019, , .		1
434	Quantifying Molecule Numbers in STED/RESOLFT Fluorescence Nanoscopy. Topics in Applied Physics, 2020, , 205-226.	0.4	0
435	Statistical Molecule Counting in Super-Resolution Fluorescence Microscopy: Towards Quantitative Nanoscopy. Statistical Science, 2020, 35, .	1.6	8
436	Fluorescence imaging of cells using long-range electromagnetic surface waves for excitation. Applied Optics, 2020, 59, 4833.	0.9	4

#	Article	IF	CITATIONS
438	Resolving mitochondrial cristae: introducing a new model into the fold. EMBO Journal, 2020, 39, e105714.	3.5	3
440	Photoactivatable Fluorescent Dyes with Hydrophilic Caging Groups and Their Use in Multicolor Nanoscopy. Journal of the American Chemical Society, 2021, 143, 18388-18393.	6.6	32
441	Single-molecule localization microscopy as an emerging tool to probe multiscale food structures. Food Structure, 2021, 30, 100236.	2.3	9
442	Review of 4Pi Fluorescence Nanoscopy. Engineering, 2022, 11, 146-153.	3.2	6
443	FOCAL3D: A 3-dimensional clustering package for single-molecule localization microscopy. PLoS Computational Biology, 2020, 16, e1008479.	1.5	3
444	Fuentes de error, artificios, aceleración y validación del algoritmo de deconvolución con super-resolución para imÁ¡genes de microscopÃa. , 2020, , .		0
445	Review on Optical Imaging Techniques for Multispectral Analysis of Nanomaterials. Nanotheranostics, 2022, 6, 50-61.	2.7	20
446	Shedding light on membrane rafts structure and dynamics in living cells. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183813.	1.4	9
447	Robustly detecting imaging model mismatches and reconstruction artifacts in single-molecule localization microscopy. , 2021, , .		0
448	High-Resolution Molecular Imaging and Its Applications in Brain and Synapses. Neuromethods, 2020, , 37-58.	0.2	1
449	Presynaptic Physiology of Cochlear Inner Hair Cells. , 2020, , 441-467.		4
450	25th Anniversary of STED Microscopy and the 20th Anniversary of SIM: feature introduction. Biomedical Optics Express, 2020, 11, 1707.	1.5	0
452	Blinking Fluorescent Probes for Tubulin Nanoscopy in Living and Fixed Cells. ACS Chemical Biology, 2021, 16, 2130-2136.	1.6	24
453	Sub-diffraction dark spot localization microscopy. , 2020, , .		0
457	Fluorescence-based sensing of the bioenergetic and physicochemical status of the cell. Current Topics in Membranes, 2021, 88, 1-54.	0.5	7
458	Single-Molecule Localization Microscopy of 3D Orientation and Anisotropic Wobble Using a Polarized Vortex Point Spread Function. Journal of Physical Chemistry B, 2021, 125, 12718-12729.	1.2	26
459	Light Sheet Illumination for 3D Single-Molecule Super-Resolution Imaging of Neuronal Synapses. Frontiers in Synaptic Neuroscience, 2021, 13, 761530.	1.3	6
460	A common framework for single-molecule localization using sequential structured illumination. Biophysical Reports, 2021, 2, 100036.	0.7	15

#	Αρτιςι ε	IF	CITATIONS
461	Low-power STED nanoscopy based on temporal and spatial modulation. Nano Research, 2022, 15,	5.8	8
401	3479-3486.	5.6	0
462	Aggregationâ€Induced Emission Luminogens with Photoresponsive Behaviors for Biomedical Applications. Advanced Healthcare Materials, 2021, 10, e2101169.	3.9	19
463	Three-dimensional imaging through patterned type-1 microscopy. Optics Express, 2022, 30, 511-521.	1.7	1
464	Fluorescence nanoscopy at the sub-10Ânm scale. Biophysical Reviews, 2021, 13, 1101-1112.	1.5	13
465	Super-Resolution Imaging through Laser-Scanning Microscopy. , 2021, , 1-28.		0
466	Polarization modulation with optical lock-in detection reveals universal fluorescence anisotropy of subcellular structures in live cells. Light: Science and Applications, 2022, 11, 4.	7.7	14
467	Fluorescence lifetime DNA-PAINT for multiplexed super-resolution imaging of cells. Communications Biology, 2022, 5, 38.	2.0	25
468	Dynamic transcription regulation at the single-molecule level. Developmental Biology, 2022, 482, 67-81.	0.9	11
469	Imaging the endocannabinoid signaling system. Journal of Neuroscience Methods, 2022, 367, 109451.	1.3	9
470	Super-resolution FRET measurements. Nanoscale, 2021, 13, 18421-18433.	2.8	21
471	Generating All-Fiber Doughnut Beam Arrays and Hollow Bessel-Like Beams Based on Fiber Mode Selective Couplers. , 2021, , .		0
472	Implementation of a fluorescence spatiotemporal modulation super-resolution microscope. Optics Letters, 2022, 47, 581.	1.7	3
473	Through the Eyes of Creators: Observing Artificial Molecular Motors. ACS Nanoscience Au, 2022, 2, 140-159.	2.0	7
474	TRAIT2D: a Software for Quantitative Analysis of Single Particle Diffusion Data. F1000Research, 0, 10, 838.	0.8	0
475	Development of a direct point electron beam exposure system to investigate the biological functions of subcellular domains in a living biological cell. Micron, 2022, 155, 103214.	1.1	1
476	Bleachingâ€Resistant Superâ€Resolution Fluorescence Microscopy. Advanced Science, 2022, 9, e2101817.	5.6	22
477	Nanoscale Organization, Regulation, and Dynamic Reorganization of Cardiac Calcium Channels. Frontiers in Physiology, 2021, 12, 810408.	1.3	9
478	Computational Methods for Single-Cell Imaging and Omics Data Integration. Frontiers in Molecular Biosciences, 2021, 8, 768106.	1.6	13

#	Article	IF	CITATIONS
479	Technological advances in super-resolution microscopy to study cellular processes. Molecular Cell, 2022, 82, 315-332.	4.5	45
480	Expanding the toolbox of photon upconversion for emerging frontier applications. Materials Horizons, 2022, 9, 1167-1195.	6.4	17
481	Highâ€Refractiveâ€Index Chip with Periodically Fineâ€Tuning Gratings for Tunable Virtualâ€Wavevector Spatial Frequency Shift Universal Superâ€Resolution Imaging. Advanced Science, 2022, 9, e2103835.	5.6	10
482	Combining deep learning with SUPPOSe and compressed sensing for SNR-enhanced localization of overlapping emitters. Applied Optics, 2022, 61, D39.	0.9	1
483	Raw Data to Results: A Hands-On Introduction and Overview of Computational Analysis for Single-Molecule Localization Microscopy. Frontiers in Bioinformatics, 2022, 1, .	1.0	8
484	Virus morphology: Insights from super-resolution fluorescence microscopy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166347.	1.8	7
486	An ultra-compact angstrom-scale displacement sensor with large measurement range based on wavelength modulation. Nanophotonics, 2022, 11, 1167-1176.	2.9	3
487	Direct-laser writing for subnanometer focusing and single-molecule imaging. Nature Communications, 2022, 13, 647.	5.8	15
488	Super-Resolution Microscopy for Structural Cell Biology. Annual Review of Biophysics, 2022, 51, 301-326.	4.5	71
489	Single-Molecule Localization Microscopy of Subcellular Protein Distribution in Neurons. Methods in Molecular Biology, 2022, 2440, 271-288.	0.4	Ο
490	Super-resolution microscopy: a brief history and new avenues. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210110.	1.6	32
491	Modulated illumination localization microscopy-enabled sub-10 nm resolution. Journal of Innovative Optical Health Sciences, 2022, 15, .	0.5	3
492	Answering some questions about structured illumination microscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210109.	1.6	7
493	Time-modulated excitation for enhanced single-molecule localization microscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200299.	1.6	3
494	At the molecular resolution with MINFLUX?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200145.	1.6	8
495	Roadmap on chaos-inspired imaging technologies (Cl2-Tech). Applied Physics B: Lasers and Optics, 2022, 128, 1.	1.1	27
496	Spatially modulated illumination microscopy: application perspectives in nuclear nanostructure analysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210152.	1.6	3
497	Molecular organization and mechanics of single vimentin filaments revealed by super-resolution imaging. Science Advances, 2022, 8, eabm2696.	4.7	21

#	Article	IF	CITATIONS
498	Super-resolution acoustic imaging. Applied Physics Letters, 2022, 120, .	1.5	3
500	Understanding immune signaling using advanced imaging techniques. Biochemical Society Transactions, 2022, 50, 853-866.	1.6	4
501	Multiphoton single-molecule localization by sequential excitation with light minima. Light: Science and Applications, 2022, 11, 70.	7.7	5
502	A coordinate-based co-localization index to quantify and visualize spatial associations in single-molecule localization microscopy. Scientific Reports, 2022, 12, 4676.	1.6	4
504	Label-Free Super-Resolution Imaging Techniques. Annual Review of Analytical Chemistry, 2022, 15, 37-55.	2.8	13
505	Particle detection using closed-loop active model diagnosis. , 2022, , .		0
506	Two-photon MINFLUX with doubled localization precision. ELight, 2022, 2, .	11.9	28
507	Sub-diffraction-limit Fourier-plane laser scanning microscopy. Optica, 2022, 9, 455.	4.8	2
508	Photon efficient orientation estimation using polarization modulation in single-molecule localization microscopy. Biomedical Optics Express, 2022, 13, 2835.	1.5	5
509	Dipole-spread-function engineering for simultaneously measuring the 3D orientations and 3D positions of fluorescent molecules. Optica, 2022, 9, 505.	4.8	20
511	Methods for multiscale structural and functional analysis of the mammalian cochlea. Molecular and Cellular Neurosciences, 2022, 120, 103720.	1.0	1
512	PyFocus – A Python package for vectorial calculations of focused optical fields under realistic conditions. Application to toroidal foci. Computer Physics Communications, 2022, 275, 108315.	3.0	7
513	The effect of stress on biophysical characteristics of misfolded protein aggregates in living Saccharomyces cerevisiae cells. Experimental Gerontology, 2022, 162, 111755.	1.2	5
514	Integrated all-fiber structures for generating doughnut beam arrays and hollow Bessel-like beams. Optics and Lasers in Engineering, 2022, 153, 107006.	2.0	3
515	Ultrarapid cryo-arrest of living cells on a microscope enables multiscale imaging of out-of-equilibrium molecular patterns. Science Advances, 2021, 7, eabk0882.	4.7	4
516	Super-resolution imaging: when biophysics meets nanophotonics. Nanophotonics, 2022, 11, 169-202.	2.9	6
520	Single Molecule Tracking Nanoscopy Extended to Two Colors with MTT2col for the Analysis of Cell-Cell Interactions in Leukemia. Bio-protocol, 2022, 12, .	0.2	0
521	Blood Cell Analysis: From Traditional Methods to Super-Resolution Microscopy. Photonics, 2022, 9, 261.	0.9	5

#	Article	IF	CITATIONS
534	Advanced optical properties of upconversion nanoparticles. , 2023, , 613-648.		1
537	Monitoring Various Bioactivities at the Molecular, Cellular, Tissue, and Organism Levels via Biological Lasers. Sensors, 2022, 22, 3149.	2.1	0
538	When Super-Resolution Localization Microscopy Meets Carbon Nanotubes. Nanomaterials, 2022, 12, 1433.	1.9	7
539	Lasers in Live Cell Microscopy. International Journal of Molecular Sciences, 2022, 23, 5015.	1.8	4
541	Enhancing Brightness and Photostability of Organic Small Molecular Fluorescent Dyes Through Inhibiting Twisted Intramolecular Charge Transfer (TICT) [※] . Acta Chimica Sinica, 2022, 80, 553.	0.5	2
542	Precise measurement of nanoscopic septin ring structures with deep learning-assisted quantitative superresolution microscopy. Molecular Biology of the Cell, 2022, 33, mbcE22020039.	0.9	3
543	Simultaneous super-resolution estimation of single-molecule position and orientation with minimal photon fluxes. Optics Express, 2022, 30, 22051.	1.7	4
544	Precision in iterative modulation enhanced single-molecule localization microscopy. Biophysical Journal, 2022, 121, 2279-2289.	0.2	10
548	Prior information improves resolution. Biophysical Journal, 2022, , .	0.2	0
550	Emerging Trends in Super-resolution Imaging: How Lasers Light the Way. ACS Symposium Series, 0, , 255-276.	0.5	2
553	Effects of Optical Aberrations on Localization of Minflux Super-Resolution Microscopy. SSRN Electronic Journal, 0, , .	0.4	0
554	How does FtsZ's treadmilling help bacterial cells divide?. Biocell, 2022, 46, 2343-2351.	0.4	3
555	<i>N</i> -Methyl deuterated rhodamines for protein labelling in sensitive fluorescence microscopy. Chemical Science, 2022, 13, 8605-8617.	3.7	16
556	Isotropic three-dimensional dual-color super-resolution microscopy with metal-induced energy transfer. Science Advances, 2022, 8, .	4.7	16
558	Realâ€Time Feedbackâ€Driven Singleâ€Particle Tracking: A Survey and Perspective. Small, 2022, 18, .	5.2	10
559	An alternative to MINFLUX that enables nanometer resolution in a confocal microscope. Light: Science and Applications, 2022, 11, .	7.7	26
561	Ultraprecise Off-Axis Atom Localization With Hybrid Fields. Frontiers in Physics, 0, 10, .	1.0	0
563	Resolving the molecular architecture of the photoreceptor active zone with 3D-MINFLUX. Science Advances, 2022, 8, .	4.7	11

#	Article	IF	CITATIONS
564	Multimodal image reconstruction from tomographic diffraction microscopy data. Journal of Microscopy, 2022, 288, 193-206.	0.8	8
565	Measurement of apparent diffusion constant on the crossâ€section of thin <scp>PVA</scp> films under a free swelling condition with a facile electronic device. Polymers for Advanced Technologies, 2022, 33, 3430-3436.	1.6	2
566	Nanoscale fluorescence imaging of biological ultrastructure via molecular anchoring and physical expansion. Nano Convergence, 2022, 9, .	6.3	5
568	Measuring Molecular Diffusion in Dynamic Subcellular Nanostructures by Fast Raster Image Correlation Spectroscopy and 3D Orbital Tracking. International Journal of Molecular Sciences, 2022, 23, 7623.	1.8	Ο
569	Enhanced incorporation of subnanometer tags into cellular proteins for fluorescence nanoscopy via optimized genetic code expansion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
570	Computational Proposal for Tracking Multiple Molecules in a Multifocus Confocal Setup. ACS Photonics, 0, , .	3.2	2
571	A Stimulated Emission Depletion (STED) Microscope of All Trades. Microscopy Today, 2022, 30, 26-33.	0.2	0
572	Theoretical comparison of real-time feedback-driven single-particle tracking techniques. Journal of Chemical Physics, 2022, 157, .	1.2	4
573	A general design of caging-group-free photoactivatable fluorophores for live-cell nanoscopy. Nature Chemistry, 2022, 14, 1013-1020.	6.6	45
574	Fluorescence fluctuationâ€based superâ€resolution microscopy: Basic concepts for an easy start. Journal of Microscopy, 2022, 288, 218-241.	0.8	8
575	Mapping molecular complexes with super-resolution microscopy and single-particle analysis. Open Biology, 2022, 12, .	1.5	3
577	DNAâ€PAINT Superâ€Resolution Imaging for Characterization of Nucleic Acid Nanostructures. ChemPlusChem, 2022, 87, .	1.3	2
578	Getting sharper: the brain under the spotlight of super-resolution microscopy. Trends in Cell Biology, 2023, 33, 148-161.	3.6	12
580	On Some Current Challenges in High-Resolution Optical Bioimaging. ACS Photonics, 2022, 9, 2538-2546.	3.2	10
581	Determination of Biomolecular Oligomerization in the Live Cell Plasma Membrane via Single-Molecule Brightness and Co-localization Analysis. Springer Series on Fluorescence, 2022, , .	0.8	0
583	Direct Capsid Labeling of Infectious HIV-1 by Genetic Code Expansion Allows Detection of Largely Complete Nuclear Capsids and Suggests Nuclear Entry of HIV-1 Complexes via Common Routes. MBio, 2022, 13, .	1.8	10
584	Super-Resolution Microscopy and Their Applications in Food Materials: Beyond the Resolution Limits of Fluorescence Microscopy. Food and Bioprocess Technology, 2023, 16, 268-288.	2.6	2
585	Super-resolution stimulated Raman scattering microscopy with the phase-shifted spatial frequency modulation. Optics Letters, 2022, 47, 4552.	1.7	4

#	Article	IF	CITATIONS
586	Plasmonics for advance single-molecule fluorescence spectroscopy and imaging in biology. Frontiers in Photonics, 0, 3, .	1.1	1
587	Constructing a cost-efficient, high-throughput and high-quality single-molecule localization microscope for super-resolution imaging. Nature Protocols, 2022, 17, 2570-2619.	5.5	14
588	Illuminating membrane structural dynamics of fusion and endocytosis with advanced light imaging techniques. Biochemical Society Transactions, 2022, 50, 1157-1167.	1.6	4
589	Photoswitching fingerprint analysis bypasses the 10-nm resolution barrier. Nature Methods, 2022, 19, 986-994.	9.0	41
591	Single-molecule counting applied to the study of GPCR oligomerization. Biophysical Journal, 2022, 121, 3175-3187.	0.2	6
594	DNA-PAINT MINFLUX nanoscopy. Nature Methods, 2022, 19, 1072-1075.	9.0	38
595	Localization Microscopy. , 2023, , 335-391.		0
596	Single-Molecule Microscopy Methods to Study Mitochondrial Processes. Springer Series on Fluorescence, 2022, , .	0.8	0
597	Diffusion Measurements at the Nanoscale with STED-FCS. Springer Series on Fluorescence, 2022, , .	0.8	0
598	Creating and moving nanoantenna cold spots anywhere. Light: Science and Applications, 2022, 11, .	7.7	3
600	Multiscale fluorescence imaging of living samples. Histochemistry and Cell Biology, 2022, 158, 301-323.	0.8	7
601	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. Review of Scientific Instruments, 2022, 93, .	0.6	3
602	Event-triggered STED imaging. Nature Methods, 2022, 19, 1268-1275.	9.0	35
603	Photochemical Mechanisms of Fluorophores Employed in Singleâ€Molecule Localization Microscopy. Angewandte Chemie - International Edition, 2023, 62, .	7.2	19
604	Editorial: Quantifying and controlling the nano-architecture of neuronal synapses. Frontiers in Synaptic Neuroscience, 0, 14, .	1.3	0
607	Application and development of fluorescence probes in MINFLUX nanoscopy. Journal of Innovative Optical Health Sciences, 0, , .	0.5	1
608	Event-driven acquisition for content-enriched microscopy. Nature Methods, 2022, 19, 1262-1267.	9.0	33
609	Photochemical Mechanisms of Fluorophores Employed in Singleâ€Molecule Localization Microscopy. Angewandte Chemie, 2023, 135, .	1.6	2

#	Article	IF	CITATIONS
610	Application of Lacunarity for Quantification of Single Molecule Localization Microscopy Images. Cells, 2022, 11, 3105.	1.8	1
611	Enabling Spectrally Resolved Single-Molecule Localization Microscopy at High Emitter Densities. Nano Letters, 2022, 22, 8618-8625.	4.5	5
612	Single-molecule fluorescence imaging for probing nanocatalytic process. CheM, 2023, 9, 16-28.	5.8	11
613	A perspective of fluorescence microscopy for cellular structural biology with EGFR as witness. Journal of Microscopy, 2023, 291, 73-91.	0.8	3
614	Raster-scanning Donut simplifies MINFLUX and provides alternative implement on other scanning-based microscopes. Light: Science and Applications, 2022, 11, .	7.7	2
615	Superfluid helium nanoscope insert with millimeter working range. Review of Scientific Instruments, 2022, 93, 103703.	0.6	1
616	Nanoscale nuclear environments, fine-scale 3D genome organization and transcription regulation. Current Opinion in Systems Biology, 2022, , 100436.	1.3	1
617	Techniques for the detection and analysis of LLPS and MLOs. , 2023, , 205-231.		1
618	MINSTED nanoscopy enters the Ãngström localization range. Nature Biotechnology, 2023, 41, 569-576.	9.4	37
619	Optical microscopy gets down to angstroms. Nature Biotechnology, 0, , .	9.4	0
621	Super-resolution microscopy enabled by high-efficiency surface-migration emission depletion. Nature Communications, 2022, 13, .	5.8	15
623	Nanometer Resolution Imaging and Tracking of Single Fluorophores by Sequential Structured Illumination. ACS Photonics, 2022, 9, 3777-3785.	3.2	3
625	Nanoparticles for super-resolution microscopy: intracellular delivery and molecular targeting. Chemical Society Reviews, 2022, 51, 9882-9916.	18.7	6
626	Super-Resolution Imaging by Computationally Fusing Quantum and Classical Optical Information. , 2022, 2022, .		2
627	Localization Microscopy: A Review of the Progress in Methods and Applications. , 2022, , 299-324.		0
628	3D differential interference contrast microscopy using polarisationâ€sensitive tomographic diffraction microscopy. Journal of Microscopy, 2023, 289, 128-133.	0.8	4
629	Fluorescence microscopy imaging of a neurotransmitter receptor and its cell membrane lipid milieu. Frontiers in Molecular Biosciences, 0, 9, .	1.6	1

#	Article	IF	CITATIONS
631	Multi-color live-cell STED nanoscopy of mitochondria with a gentle inner membrane stain. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	34
632	Algorithm for Modern Electron Microscopic Examination of the Golgi Complex. Methods in Molecular Biology, 2023, , 161-209.	0.4	2
634	Assessment of 3D MINFLUX data for quantitative structural biology in cells. Nature Methods, 2023, 20, 48-51.	9.0	10
635	Enhancing Weak-Signal Extraction for Single-Molecule Localization Microscopy. Journal of Physical Chemistry A, 2023, 127, 329-338.	1.1	1
636	Evolving a high-performance bio-imaging tool derived from a compact fluorophore as well as creating a reaction-based fluorescent probe for precise determination of Ag+. Chemical Engineering Journal, 2023, 455, 140756.	6.6	2
637	Super-Resolution Microscopy to Study Interorganelle Contact Sites. International Journal of Molecular Sciences, 2022, 23, 15354.	1.8	3
638	Impact of Saccharomyces cerevisiae on the Field of Single-Molecule Biophysics. International Journal of Molecular Sciences, 2022, 23, 15895.	1.8	1
639	Maximum-likelihood model fitting for quantitative analysis of SMLM data. Nature Methods, 0, , .	9.0	14
640	Effects of optical aberrations on localization of MINFLUX super-resolution microscopy. Optics Express, 2022, 30, 46849.	1.7	0
641	MINFLUX imaging of a bacterial molecular machine at nanometer resolution. Methods and Applications in Fluorescence, 2023, 11, 015004.	1.1	4
642	Fisher information and the Cramér–Rao lower bound in single-pixel localization microscopy with spatiotemporally modulated illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2023, 40, 185.	0.8	4
643	Singleâ€molecule localization microscopy goes quantitative. Microscopy Research and Technique, 2023, 86, 494-504.	1.2	0
644	Tetra-color superresolution microscopy based on excitation spectral demixing. Light: Science and Applications, 2023, 12, .	7.7	5
645	Accelerated MINFLUX Nanoscopy, through Spontaneously Fastâ€Blinking Fluorophores. Small, 2023, 19, .	5.2	9
646	Nanoscopy of single antifreeze proteins reveals that reversible ice binding is sufficient for ice recrystallization inhibition but not thermal hysteresis. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	11
647	Super-resolving microscopy reveals the localizations and movement dynamics of stressosome proteins in Listeria monocytogenes. Communications Biology, 2023, 6, .	2.0	4
648	Single Molecule Localization Microscopy for Studying Small Extracellular Vesicles. Small, 2023, 19, .	5.2	7
649	Expansion Microscopy: Super-Resolution Imaging with Hydrogels. Analytical Chemistry, 2023, 95, 3-32.	3.2	7

	CHAHON R		
#	Article	IF	CITATIONS
650	Electrochemiluminescence from Single Molecule to Imaging. Analytical Chemistry, 2023, 95, 374-387.	3.2	10
651	Observing single cells in whole organs with optical imaging. Journal of Innovative Optical Health Sciences, 2023, 16, .	0.5	7
653	Exchangeable HaloTag Ligands for Super-Resolution Fluorescence Microscopy. Journal of the American Chemical Society, 2023, 145, 3075-3083.	6.6	38
654	Tight-junction strand networks and tightness of the epithelial barrier. Microscopy (Oxford, England), 2023, 72, 213-225.	0.7	2
655	Super-resolution microscopy and studies of peroxisomes. Biological Chemistry, 2023, 404, 87-106.	1.2	2
656	Multicolor 3D Orbital Tracking. Small, 2023, 19, .	5.2	4
657	Visualizing the ultra-structure of microorganisms using table-top extreme ultraviolet imaging. PhotoniX, 2023, 4, .	5.5	7
658	Single-molecule imaging in the primary cilium. Methods in Cell Biology, 2023, , 59-83.	0.5	2
660	Sequence-specific DNA labelling for fluorescence microscopy. Biosensors and Bioelectronics, 2023, 230, 115256.	5.3	1
661	Spatiotemporal Isolation Based <scp>Superâ€Resolution</scp> Microscopy ^{â€} . Chinese Journal of Chemistry, 2023, 41, 1608-1623.	2.6	0
662	STED and RESOLFT Fluorescent Nanoscopy. Springer Series on Fluorescence, 2022, , .	0.8	0
663	CSPP1 stabilizes growing microtubule ends and damaged lattices from the luminal side. Journal of Cell Biology, 2023, 222, .	2.3	8
664	3D Super-Resolution Fluorescence Imaging of Microgels. Annual Review of Physical Chemistry, 2023, 74, 391-414.	4.8	7
665	General Strategy To Improve the Photon Budget of Thiol-Conjugated Cyanine Dyes. Journal of the American Chemical Society, 2023, 145, 4187-4198.	6.6	9
666	MicroFPGA: An affordable FPGA platform for microscope control. HardwareX, 2023, 13, e00407.	1.1	5
667	On the Advent of Super-Resolution Microscopy in the Realm of Polycomb Proteins. Biology, 2023, 12, 374.	1.3	0
668	Single-molecule tracking (SMT): a window into live-cell transcription biochemistry. Biochemical Society Transactions, 2023, 51, 557-569.	1.6	8
669	Temporal compressive super-resolution microscopy at frame rate of 1200 frames per second and spatial resolution of 100Anm. Advanced Photonics, 2023, 5, .	6.2	2

#	Article	IF	Citations
670	Combining pMINFLUX, graphene energy transfer and DNA-PAINT for nanometer precise 3D super-resolution microscopy. Light: Science and Applications, 2023, 12, .	7.7	6
671	Optimal fitting strategy for modulated illumination localization microscopy. , 2023, , .		Ο
672	Optimization and characterization of toroidal foci for super-resolution fluorescence microscopy: tutorial. Journal of the Optical Society of America B: Optical Physics, 2023, 40, C103.	0.9	2
673	A Photoswitchable Solvatochromic Dye for Probing Membrane Ordering by RESOLFT Superâ€resolution Microscopy**. ChemPhysChem, 2023, 24, .	1.0	3
674	Real-time single-molecule 3D tracking in E. coli based on cross-entropy minimization. Nature Communications, 2023, 14, .	5.8	5
676	MINFLUX dissects the unimpeded walking of kinesin-1. Science, 2023, 379, 1004-1010.	6.0	46
678	Direct observation of motor protein stepping in living cells using MINFLUX. Science, 2023, 379, 1010-1015.	6.0	50
679	Watching biomolecules stride in real time. Science, 2023, 379, 986-987.	6.0	1
680	Metal-Induced Energy Transfer (MIET) for Live-Cell Imaging with Fluorescent Proteins. ACS Nano, 2023, 17, 8242-8251.	7.3	4
681	Heat denaturation enables multicolor X10-STED microscopy. Scientific Reports, 2023, 13, .	1.6	4
682	Fluorescence-based super-resolution-microscopy strategies for chromatin studies. Chromosoma, 2023, 132, 191-209.	1.0	4
683	The magic of unraveling genome architecture and function. Cell Reports, 2023, 42, 112361.	2.9	0
684	ISM-FLUX: MINFLUX with an array detector. Physical Review Research, 2023, 5, .	1.3	4
699	Plasmon-Enhanced Expansion Microscopy. Nano Letters, 2023, 23, 5654-5662.	4.5	0
702	Tracking nanoscopic motion with minima of light. Nature Photonics, 2023, 17, 552-553.	15.6	1
711	Cocktails of tags enhance resolution of microscopy technique. Nature, 2023, 617, 681-682.	13.7	1
715	REACTMIN: Reactive Scanning Based Single Particle Tracking using a Minimum of Light. , 2023, , .		0
717	Advanced fluorescence microscopy in respiratory virus cell biology. Advances in Virus Research, 2023,	0.9	0

	CITATION REPORT		
#	Article	IF	CITATIONS
720	Phasor plots and the future of spectral and lifetime imaging. Nature Methods, 2023, 20, 965-967.	9.0	5
739	A Brief Introduction to Single-Molecule Fluorescence Methods. Methods in Molecular Biology, 2024, , 111-132.	0.4	0
747	Single-Molecule Image Scanning Microscopy. , 2023, , .		0
770	Point spread function engineering based on wavefront phase modulation. , 2023, , .		0
786	Membrane transformations of fusion and budding. Nature Communications, 2024, 15, .	5.8	1
815	Small-Angle X-Ray Scattering for Macromolecular Complexes. Advances in Experimental Medicine and Biology, 2024, , 163-172.	0.8	0