Suliana Manley

List of Publications by Year
in descending order

82 papers	9,891 citations	76294 40 h-index	69214 77 g-index
102 all docs	102 docs citations	102 times ranked	10648 citing authors

#	Article	IF	Citations
1	High-density mapping of single-molecule trajectories with photoactivated localization microscopy. Nature Methods, 2008, 5, 155-157.	9.0	1,104
2	Interferometric fluorescent super-resolution microscopy resolves 3D cellular ultrastructure. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3125-3130.	3.3	816
3	A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. Nature Chemistry, 2013, 5, 132-139.	6.6	779
4	Photoactivatable mCherry for high-resolution two-color fluorescence microscopy. Nature Methods, 2009, 6, 153-159.	9.0	569
5	Superresolution Imaging using Single-Molecule Localization. Annual Review of Physical Chemistry, 2010, 61, 345-367.	4.8	507
6	Universal Aging Features in the Restructuring of Fractal Colloidal Gels. Physical Review Letters, 2000, 84, 2275-2278.	2.9	473
7	Single-molecule localization microscopy. Nature Reviews Methods Primers, 2021, 1, .	11.8	390
8	Quantitative evaluation of software packages for single-molecule localization microscopy. Nature Methods, 2015, 12, 717-724.	9.0	347
9	Distinct fission signatures predict mitochondrial degradation or biogenesis. Nature, 2021, 593, 435-439.	13.7	323
10	A role for actin arcs in the leading-edge advance of migrating cells. Nature Cell Biology, 2011, 13, 371-382.	4.6	314
11	Functional Nanoscale Organization of Signaling Molecules Downstream of the T Cell Antigen Receptor. Immunity, 2011, 35, 705-720.	6.6	288
12	Universal non-diffusive slow dynamics in aging soft matter. Faraday Discussions, 2003, 123, 237-251.	1.6	259
13	Optical Measurement of Cell Membrane Tension. Physical Review Letters, 2006, 97, 218101.	2.9	194
14	High throughput 3D super-resolution microscopy reveals <i>Caulobacter crescentus</i> in vivo Z-ring organization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4566-4571.	3.3	188
15	Resolution Doubling in 3D-STORM Imaging through Improved Buffers. PLoS ONE, 2013, 8, e69004.	1.1	169
16	Mechanosensitive Fluorescent Probes to Image Membrane Tension in Mitochondria, Endoplasmic Reticulum, and Lysosomes. Journal of the American Chemical Society, 2019, 141, 3380-3384.	6.6	167
17	Glasslike Arrest in Spinodal Decomposition as a Route to Colloidal Gelation. Physical Review Letters, 2005, 95, 238302.	2.9	166
18	Putting super-resolution fluorescence microscopy to work. Nature Methods, 2009, 6, 21-23.	9.0	166

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19	A role for mitotic bookmarking of SOX2 in pluripotency and differentiation. Genes and Development, 2016, 30, 2538-2550.	2.7	133
20	Heterogeneity of AMPA receptor trafficking and molecular interactions revealed by superresolution analysis of live cell imaging. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17052-17057.	3.3	131
21	Super-resolution imaging of multiple cells by optimized flat-field epi-illumination. Nature Photonics, 2016, 10, 705-708.	15.6	129
22	FALCON: fast and unbiased reconstruction of high-density super-resolution microscopy data. Scientific Reports, 2014, 4, 4577.	1.6	125
23	Simple buffers for 3D STORM microscopy. Biomedical Optics Express, 2013, 4, 885.	1.5	116
24	EZH2 oncogenic mutations drive epigenetic, transcriptional, and structural changes within chromatin domains. Nature Genetics, 2019, 51, 517-528.	9.4	102
25	Gravitational Collapse of Colloidal Gels. Physical Review Letters, 2005, 94, 218302.	2.9	100
26	TORC1 organized in inhibited domains (TOROIDs) regulate TORC1 activity. Nature, 2017, 550, 265-269.	13.7	100
27	Spinodal Decomposition in a Model Colloid-Polymer Mixture in Microgravity. Physical Review Letters, 2007, 99, 205701.	2.9	81
28	Nonuniversal Velocity Fluctuations of Sedimenting Particles. Physical Review Letters, 2002, 89, 054501.	2.9	80
29	A Caged, Localizable Rhodamine Derivative for Superresolution Microscopy. ACS Chemical Biology, 2012, 7, 289-293.	1.6	79
30	Mechanisms of HsSAS-6 assembly promoting centriole formation in human cells. Journal of Cell Biology, 2014, 204, 697-712.	2.3	77
31	Nanoscale spatial organization of the <i>HoxD</i> gene cluster in distinct transcriptional states. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13964-13969.	3.3	77
32	Multicolor single-particle reconstruction of protein complexes. Nature Methods, 2018, 15, 777-780.	9.0	76
33	Limits to Gelation in Colloidal Aggregation. Physical Review Letters, 2004, 93, 108302.	2.9	74
34	Liveâ€Cell dSTORM of Cellular DNA Based on Direct DNA Labeling. ChemBioChem, 2012, 13, 298-301.	1.3	66
35	Quantitative Super-Resolution Imaging Reveals Protein Stoichiometry and Nanoscale Morphology of Assembling HIV-Gag Virions. Nano Letters, 2012, 12, 4705-4710.	4.5	63
36	Single-Particle Tracking Photoactivated Localization Microscopy for Mapping Single-Molecule Dynamics. Methods in Enzymology, 2010, 475, 109-120.	0.4	62

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37	The telomeric DNA damage response occurs in the absence of chromatin decompaction. Genes and Development, 2017, 31, 567-577.	2.7	58
38	Waveguide-PAINT offers an open platform for large field-of-view super-resolution imaging. Nature Communications, 2019, 10, 1267.	5.8	54
39	Arrested fluid-fluid phase separation in depletion systems: Implications of the characteristic length on gel formation and rheology. Journal of Rheology, 2010, 54, 421-438.	1.3	50
40	Multicolor Single Molecule Tracking of Stochastically Active Synthetic Dyes. Nano Letters, 2012, 12, 2619-2624.	4.5	49
41	Homogeneous multifocal excitation for high-throughput super-resolution imaging. Nature Methods, 2020, 17, 726-733.	9.0	46
42	Single-molecule dynamics and genome-wide transcriptomics reveal that NF-kB (p65)-DNA binding times can be decoupled from transcriptional activation. PLoS Genetics, 2019, 15, e1007891.	1.5	45
43	Influenza A viruses use multivalent sialic acid clusters for cell binding and receptor activation. PLoS Pathogens, 2020, 16, e1008656.	2.1	43
44	Mitochondrial membrane tension governs fission. Cell Reports, 2021, 35, 108947.	2.9	43
45	Mitochondrial RNA granules are fluid condensates positioned by membrane dynamics. Nature Cell Biology, 2020, 22, 1180-1186.	4.6	39
46	PALMsiever: a tool to turn raw data into results for single-molecule localization microscopy. Bioinformatics, 2015, 31, 797-798.	1.8	37
47	3D high-density localization microscopy using hybrid astigmatic/ biplane imaging and sparse image reconstruction. Biomedical Optics Express, 2014, 5, 3935.	1.5	35
48	Super-resolution microscopy to decipher multi-molecular assemblies. Current Opinion in Structural Biology, 2018, 49, 169-176.	2.6	35
49	Live Intracellular Super-Resolution Imaging Using Site-Specific Stains. ACS Chemical Biology, 2013, 8, 2643-2648.	1.6	33
50	In Situ Characterization of Bak Clusters Responsible for Cell Death Using Single Molecule Localization Microscopy. Scientific Reports, 2016, 6, 27505.	1.6	33
51	Correction of a Depth-Dependent Lateral Distortion in 3D Super-Resolution Imaging. PLoS ONE, 2015, 10, e0142949.	1.1	27
52	Modularity and determinants of a (bi-)polarization control system from free-living and obligate intracellular bacteria. ELife, 2016, 5, .	2.8	26
53	Constriction Rate Modulation Can Drive Cell Size Control and Homeostasis in C.Âcrescentus. IScience, 2018, 4, 180-189.	1.9	25
54	Strategies for increasing the throughput of super-resolution microscopies. Current Opinion in Chemical Biology, 2019, 51, 84-91.	2.8	24

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55	A starter kit for point-localization super-resolution imaging. Current Opinion in Chemical Biology, 2011, 15, 813-821.	2.8	21
56	Autonomous illumination control for localization microscopy. Optics Express, 2018, 26, 30882.	1.7	21
57	Multi-phosphorylation reaction and clustering tune Pom1 gradient mid-cell levels according to cell size. ELife, 2019, 8, .	2.8	21
58	Crystalline Protein Domains and Lipid Bilayer Vesicle Shape Transformations. Journal of Physical Chemistry B, 2007, 111, 880-885.	1.2	19
59	Reduced Dyes Enhance Singleâ€Molecule Localization Density for Live Superresolution Imaging. ChemPhysChem, 2014, 15, 750-755.	1.0	19
60	Nanoscale Pattern Extraction from Relative Positions of Sparse 3D Localizations. Nano Letters, 2021, 21, 1213-1220.	4.5	19
61	Sorting of Streptavidin Protein Coats on Phase-Separating Model Membranes. Biophysical Journal, 2008, 95, 2301-2307.	0.2	17
62	Visualizing the<i>HoxD</i>Gene Cluster at the Nanoscale Level. Cold Spring Harbor Symposia on Quantitative Biology, 2015, 80, 9-16.	2.0	17
63	Making Giant Unilamellar Vesicles via Hydration of a Lipid Film. Current Protocols in Cell Biology, 2008, 40, Unit 24.3.	2.3	16
64	Functional dichotomy and distinct nanoscale assemblies of a cell cycle-controlled bipolar zinc-finger regulator. ELife, 2016, 5, .	2.8	16
65	The Human RNA Helicase DDX21 Presents a Dimerization Interface Necessary for Helicase Activity. IScience, 2020, 23, 101811.	1.9	15
66	Characterization of flat-fielding systems for quantitative microscopy. Optics Express, 2020, 28, 22036.	1.7	14
67	Waveguide-Based Platform for Large-FOV Imaging of Optically Active Defects in 2D Materials. ACS Photonics, 2019, 6, 3100-3107.	3.2	11
68	Flipper Probes for the Community. Chimia, 2021, 75, 1004.	0.3	9
69	A Quantitative Approach to Evaluate the Impact of Fluorescent Labeling on Membrane-Bound HIV-Gag Assembly by Titration of Unlabeled Proteins. PLoS ONE, 2014, 9, e115095.	1.1	7
70	Experimental Combination of Super-Resolution Optical Fluctuation Imaging with Structured Illumination Microscopy for Large Fields-of-View. ACS Photonics, 2021, 8, 2440-2449.	3.2	6
71	3D Structure From 2D Microscopy Images Using Deep Learning. Frontiers in Bioinformatics, 2021, 1, .	1.0	5
72	Fast live cell imaging at nanometer scale using annihilating filter-based low-rank Hankel matrix approach. Proceedings of SPIE, 2015, , .	0.8	4

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73	Single particle maximum likelihood reconstruction from superresolution microscopy images. PLoS ONE, 2017, 12, e0172943.	1.1	4
74	A PSF-based approach to Biplane calibration in 3D super-resolution microscopy. , 2012, , .		3
75	Aging of Soft Glassy Materials Probed by Rheology and Light Scattering. ACS Symposium Series, 2003, , 161-176.	0.5	2
76	Continuous localization using sparsity constraints for high-density super-resolution microscopy. , 2013, , .		2
77	From â€œThereâ€²s Plenty of Room at the Bottomâ€• to Seeing What is Actually There. ChemPhysChem, 2014, 15, 547-549.	1.0	1
78	Photoactivated Localization Microscopy for Cellular Imaging. Neuromethods, 2014, , 87-111.	0.2	1
79	Direct Live-Cell Super-Resolution Imaging of Cellular DNA. Biophysical Journal, 2012, 102, 223a.	0.2	0
80	Revealing the Impact of Fluorescent Labeling on HIV-Gag Virus-Like Particle Formation by Quantitative Super-Resolution Imaging and Fluorescence Correlation Spectroscopy. Biophysical Journal, 2013, 104, 416a.	0.2	0
81	High-Throughput Super-Resolution Microscopy for Reconstructing Molecular Architecture. Microscopy and Microanalysis, 2021, 27, 852-853.	0.2	0
82	25th Anniversary of STED Microscopy and the 20th Anniversary of SIM: feature introduction. Biomedical Optics Express, 2020, 11, 1707.	1.5	0