Hari Shroff

List of Publications by Year
in descending order

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90 papers	9,295 citations	81839 39 h-index	56687 83 g-index
111 all docs	111 docs citations	111 times ranked	13016 citing authors

#	Article	IF	Citations
1	Human deafness-associated variants alter the dynamics of key molecules in hair cell stereocilia F-actin cores. Human Genetics, 2022, 141, 363-382.	1.8	12
2	Cytonemes coordinate asymmetric signaling and organization in the Drosophila muscle progenitor niche. Nature Communications, 2022, 13, 1185.	5.8	8
3	The HIV-1 Viral Protease Is Activated during Assembly and Budding Prior to Particle Release. Journal of Virology, 2022, 96, e0219821.	1.5	18
4	Plasticity in structure and assembly of SARS-CoV-2 nucleocapsid protein. , 2022, 1, .		36
5	Nanoscale Pattern Extraction from Relative Positions of Sparse 3D Localizations. Nano Letters, 2021, 21, 1213-1220.	4.5	19
6	Semi-automated single-molecule microscopy screening of fast-dissociating specific antibodies directly from hybridoma cultures. Cell Reports, 2021, 34, 108708.	2.9	13
7	Structural and developmental principles of neuropil assembly in C. elegans. Nature, 2021, 591, 99-104.	13.7	60
8	Three-dimensional residual channel attention networks denoise and sharpen fluorescence microscopy image volumes. Nature Methods, 2021, 18, 678-687.	9.0	94
9	Signaling through polymerization and degradation: Analysis and simulations of T cell activation mediated by Bcl10. PLoS Computational Biology, 2021, 17, e1007986.	1.5	5
10	Pupal behavior emerges from unstructured muscle activity in response to neuromodulation in Drosophila. ELife, 2021, 10, .	2.8	6
11	Actomyosin dynamics modulate microtubule deformation and growth during T-cell activation. Molecular Biology of the Cell, 2021, 32, 1641-1653.	0.9	7
12	A polymer index-matched to water enables diverse applications in fluorescence microscopy. Lab on A Chip, 2021, 21, 1549-1562.	3.1	18
13	Differential adhesion regulates neurite placement via a retrograde zippering mechanism. ELife, 2021, 10, .	2.8	13
14	Multiview confocal super-resolution microscopy. Nature, 2021, 600, 279-284.	13.7	55
15	Quantitative live cell imaging reveals influenza virus manipulation of Rab11A transport through reduced dynein association. Nature Communications, 2020, 11, 23.	5.8	37
16	Determining Protein Organisation within the Z-Disc Using 3D Super-Resolution Microscopy and Pattern Recognition Analysis.. Microscopy and Microanalysis, 2020, 26, 128-129.	0.2	0
17	Sequence-Independent Self-Assembly of Germ Granule mRNAs into Homotypic Clusters. Molecular Cell, 2020, 78, 941-950.e12.	4.5	58
18	Rapid image deconvolution and multiview fusion for optical microscopy. Nature Biotechnology, 2020, 38, 1337-1346.	9.4	105

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19	WASP family proteins regulate the mobility of the B cell receptor during signaling activation. Nature Communications, 2020, 11, 439.	5.8	27
20	Spatio-angular fluorescence microscopy III Constrained angular diffusion, polarized excitation, and high-NA imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1465.	0.8	9
21	Zebrafish Posterior Lateral Line primordium migration requires interactions between a superficial sheath of motile cells and the skin. ELife, 2020, 9, .	2.8	17
22	Transforming the development and dissemination of cutting-edge microscopy and computation. Nature Methods, 2019, 16, 667-669.	9.0	16
23	Anchoring cortical granules in the cortex ensures trafficking to the plasma membrane for post-fertilization exocytosis. Nature Communications, 2019, 10, 2271.	5.8	19
24	Isotropic Light-Sheet Microscopy and Automated Cell Lineage Analyses to Catalogue Caenorhabditis elegans Embryogenesis with Subcellular Resolution. Journal of Visualized Experiments, 2019, , .	0.2	17
25	Generating a 4D Atlas of Nuclear Positions in Embryonic Caenorhabditis elegans. Biophysical Journal, 2019, 116, 558a.	0.2	0
26	A 2-dimensional ratchet model describes assembly initiation of a specialized bacterial cell surface. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21789-21799.	3.3	23
27	Spatio-angular fluorescence microscopy I Basic theory. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1334.	0.8	26
28	Spatio-angular fluorescence microscopy II Paraxial 4f imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1346.	0.8	15
29	Faster, sharper, and deeper: structured illumination microscopy for biological imaging. Nature Methods, 2018, 15, 1011-1019.	9.0	257
30	A scheme for 3-dimensional morphological reconstruction and force inference in the early C. elegans embryo. PLoS ONE, 2018, 13, e0199151.	1.1	13
31	Biological Imaging at High Spatiotemporal Resolution. Microscopy and Microanalysis, 2018, 24, 1350-1351.	0.2	0
32	A Genetically Encoded Biosensor Strategy for Quantifying Non-muscle Myosin II Phosphorylation Dynamics in Living Cells and Organisms. Cell Reports, 2018, 24, 1060-1070.e4.	2.9	13
33	Single-shot super-resolution total internal reflection fluorescence microscopy. Nature Methods, 2018, 15, 425-428.	9.0	57
34	Adaptive optics improves multiphoton super-resolution imaging. , 2018, , .		0
35	Fluorescence Microscopy: A Concise Guide to Current Imaging Methods. Current Protocols in Neuroscience, 2017, 79, 2.1.1-2.1.25.	2.6	73
36	Visualizing Calcium Flux in Freely Moving Nematode Embryos. Biophysical Journal, 2017, 112, 1975-1983.	0.2	31

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37	Adaptive optics improves multiphoton super-resolution imaging. Nature Methods, 2017, 14, 869-872.	9.0	97
38	mRNA quantification using single-molecule FISH in Drosophila embryos. Nature Protocols, 2017, 12, 1326-1348.	5.5	92
39	Real-time visualization of chromatin modification in isolated nuclei. Journal of Cell Science, 2017, 130, 2926-2940.	1.2	16
40	Myc Regulates Chromatin Decompaction and Nuclear Architecture during B Cell Activation. Molecular Cell, 2017, 67, 566-578.e10.	4.5	174
41	Albumin/vaccine nanocomplexes that assemble in vivo for combination cancer immunotherapy. Nature Communications, 2017, 8, 1954.	5.8	237
42	Intertwining DNA-RNA nanocapsules loaded with tumor neoantigens as synergistic nanovaccines for cancer immunotherapy. Nature Communications, 2017, 8, 1482.	5.8	193
43	Reflective imaging improves spatiotemporal resolution and collection efficiency in light sheet microscopy. Nature Communications, 2017, 8, 1452.	5.8	41
44	Assessing phototoxicity in live fluorescence imaging. Nature Methods, 2017, 14, 657-661.	9.0	346
45	Single-fluorophore orientation determination with multiview polarized illumination: modeling and microscope design. Optics Express, 2017, 25, 31309.	1.7	8
46	Anticipating, measuring, and minimizing MEMS mirror scan error to improve laser scanning microscopy's speed and accuracy. PLoS ONE, 2017, 12, e0185849.	1.1	6
47	Immunogenic cancer cell death selectively induced by near infrared photoimmunotherapy initiates host tumor immunity. Oncotarget, 2017, 8, 10425-10436.	0.8	179
48	Simultaneous multiview capture and fusion improves spatial resolution in wide-field and light-sheet microscopy. Optica, 2016, 3, 897.	4.8	53
49	Using Stage- and Slit-Scanning to Improve Contrast and Optical Sectioning in Dual-View Inverted Light Sheet Microscopy (diSPIM). Biological Bulletin, 2016, 231, 26-39.	0.7	24
50	Clustered nuclei maintain autonomy and nucleocytoplasmic ratio control in a syncytium. Molecular Biology of the Cell, 2016, 27, 2000-2007.	0.9	37
51	Imaging Calcium Activity Patterns in the Drosophila Pupal Ecdysis Neural Circuit. Biophysical Journal, 2015, 108, 153a.	0.2	0
52	Watching a roundworm develop with a sheet of light. Physics Today, 2015, 68, 58-59.	0.3	4
53	An imaging and analysis toolset for the study ofCaenorhabditiselegansneurodevelopment. Proceedings of SPIE, 2015, , .	0.8	2
54	Drosophila germ granules are structured and contain homotypic mRNA clusters. Nature Communications, 2015, 6, 7962.	5.8	151

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55	Construction of an instant structured illumination microscope. Methods, 2015, 88, 37-47.	1.9	31
56	WormGUIDES: an interactive single cell developmental atlas and tool for collaborative multidimensional data exploration. BMC Bioinformatics, 2015, 16, 189.	1.2	40
57	Incoherent structured illumination improves optical sectioning and contrast in multiphoton super-resolution microscopy. Optics Express, 2015, 23, 5327.	1.7	17
58	A New Simplified 3D Model of Cardiac Pacemaker Cell Based on Superresolution Structured Illumination Microscopy (SIM). Biophysical Journal, 2015, 108, 569a.	0.2	0
59	Three-Dimensional Photoactivated Localization Microscopy with Genetically Expressed Probes. Methods in Molecular Biology, 2015, 1251, 231-261.	0.4	6
60	Untwisting the Caenorhabditis elegans embryo. ELife, 2015, 4, .	2.8	33
61	Influenza A Virus Assembly Intermediates Fuse in the Cytoplasm. PLoS Pathogens, 2014, 10, e1003971.	2.1	128
62	Asymmetric Division and Differential Gene Expression during a Bacterial Developmental Program Requires DivIVA. PLoS Genetics, 2014, 10, e1004526.	1.5	52
63	Two-photon instant structured illumination microscopy improves the depth penetration of super-resolution imaging in thick scattering samples. Optica, 2014, 1, 181.	4.8	107
64	Richardsonâ€“Lucy Deconvolution as a General Tool for Combining Images with Complementary Strengths. ChemPhysChem, 2014, 15, 794-800.	1.0	83
65	Faster fluorescence microscopy: advances in high speed biological imaging. Current Opinion in Chemical Biology, 2014, 20, 46-53.	2.8	90
66	Two-photon excitation improves multifocal structured illumination microscopy in thick scattering tissue. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5254-5259.	3.3	111
67	Dual-view plane illumination microscopy for rapid and spatially isotropic imaging. Nature Protocols, 2014, 9, 2555-2573.	5.5	195
68	Instant super-resolution imaging in live cells and embryos via analog image processing. Nature Methods, 2013, 10, 1122-1126.	9.0	355
69	Spatially isotropic four-dimensional imaging with dual-view plane illumination microscopy. Nature Biotechnology, 2013, 31, 1032-1038.	9.4	290
70	Advanced optical imaging techniques for neurodevelopment. Current Opinion in Neurobiology, 2013, 23, 1090-1097.	2.0	27
71	3D Palm Shows Distinct Distributions of Z-Disc Proteins with the Z-Discs in Cardiomyocytes. Biophysical Journal, 2013, 104, 485a.	0.2	0
72	Photoactivated Localization Microscopy (PALM) of Adhesion Complexes. Current Protocols in Cell Biology, 2013, 58, Unit4.21.	2.3	14

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73	Tools for the Quantitative Analysis of Sedimentation Boundaries Detected by Fluorescence Optical Analytical Ultracentrifugation. PLoS ONE, 2013, 8, e77245.	1.1	27
74	Resolution doubling in live, multicellular organisms via multifocal structured illumination microscopy. Nature Methods, 2012, 9, 749-754.	9.0	397
75	Confined activation and subdiffractive localization enables whole-cell PALM with genetically expressed probes. Nature Methods, 2011, 8, 327-333.	9.0	174
76	Microscopy in 3D: a biologist's toolbox. Trends in Cell Biology, 2011, 21, 682-691.	3.6	133
77	Inverted selective plane illumination microscopy (i SPIM) enables coupled cell identity lineaging and neurodevelopmental imaging in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17708-17713.	3.3	264
78	Single-Molecule Discrimination of Discrete Perisynaptic and Distributed Sites of Actin Filament Assembly within Dendritic Spines. Neuron, 2010, 67, 86-99.	3.8	248
79	Self-Organization of the Escherichia coli Chemotaxis Network Imaged with Super-Resolution Light Microscopy. PLoS Biology, 2009, 7, e1000137.	2.6	310
80	Three-Dimensional Nanoscopy of Biological Samples. , 2009, , .		0
81	High-density mapping of single-molecule trajectories with photoactivated localization microscopy. Nature Methods, 2008, 5, 155-157.	9.0	1,104
82	Live-cell photoactivated localization microscopy of nanoscale adhesion dynamics. Nature Methods, 2008, 5, 417-423.	9.0	796
83	Advances in the speed and resolution of light microscopy. Current Opinion in Neurobiology, 2008, 18, 605-616.	2.0	117
84	Optical Measurement of Mechanical Forces Inside Short DNA Loops. Biophysical Journal, 2008, 94, 2179-2186.	0.2	25
85	Multilayer three-dimensional super resolution imaging of thick biological samples. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20221-20226.	3.3	182
86	Photoactivated Localization Microscopy (PALM) of Adhesion Complexes. Current Protocols in Cell Biology, 2008, 41, Unit 4.21.	2.3	47
87	Dual-color superresolution imaging of genetically expressed probes within individual adhesion complexes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20308-20313.	3.3	478
88	Optical trapping and integration of semiconductor nanowire assemblies in water. Nature Materials, 2006, 5, 97-101.	13.3	399
89	Biocompatible Force Sensor with Optical Readout and Dimensions of 6 nm3. Nano Letters, 2005, 5, 1509-1514.	4.5	112
90	The phosphorescence microphone: A device for testing oxygen sensors and films. Review of Scientific Instruments, 2003, 74, 5260-5266.	0.6	21