

Jennifer Lippincott-Schwartz

List of Publications by Year in descending order

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128
papers

37,129
citations

10389

72
h-index

15732

125
g-index

147
all docs

147
docs citations

147
times ranked

37207
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging Intracellular Fluorescent Proteins at Nanometer Resolution. Science, 2006, 313, 1642-1645.	12.6	7,580
2	Lattice light-sheet microscopy: Imaging molecules to embryos at high spatiotemporal resolution. Science, 2014, 346, 1257998.	12.6	1,567
3	A Photoactivatable GFP for Selective Photolabeling of Proteins and Cells. Science, 2002, 297, 1873-1877.	12.6	1,518
4	Mitochondria Supply Membranes for Autophagosome Biogenesis during Starvation. Cell, 2010, 141, 656-667.	28.9	1,200
5	Studying protein dynamics in living cells. Nature Reviews Molecular Cell Biology, 2001, 2, 444-456.	37.0	1,112
6	High-density mapping of single-molecule trajectories with photoactivated localization microscopy. Nature Methods, 2008, 5, 155-157.	19.0	1,104
7	ER-to-Golgi transport visualized in living cells. Nature, 1997, 389, 81-85.	27.8	1,053
8	Development and Use of Fluorescent Protein Markers in Living Cells. Science, 2003, 300, 87-91.	12.6	942
9	Tubular network formation protects mitochondria from autophagosomal degradation during nutrient starvation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10190-10195.	7.1	932
10	Brefeldin A's effects on endosomes, lysosomes, and the TGN suggest a general mechanism for regulating organelle structure and membrane traffic. Cell, 1991, 67, 601-616.	28.9	829
11	Applying systems-level spectral imaging and analysis to reveal the organelle interactome. Nature, 2017, 546, 162-167.	27.8	828
12	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.	7.1	816
13	Nuclear Membrane Dynamics and Reassembly in Living Cells: Targeting of an Inner Nuclear Membrane Protein in Interphase and Mitosis. Journal of Cell Biology, 1997, 138, 1193-1206.	5.2	738
14	Fatty Acid Trafficking in Starved Cells: Regulation by Lipid Droplet Lipolysis, Autophagy, and Mitochondrial Fusion Dynamics. Developmental Cell, 2015, 32, 678-692.	7.0	714
15	Kinetic Analysis of Secretory Protein Traffic and Characterization of Golgi to Plasma Membrane Transport Intermediates in Living Cells. Journal of Cell Biology, 1998, 143, 1485-1503.	5.2	569
16	Probing protein heterogeneity in the plasma membrane using PALM and pair correlation analysis. Nature Methods, 2011, 8, 969-975.	19.0	526
17	Deacetylation of Nuclear LC3 Drives Autophagy Initiation under Starvation. Molecular Cell, 2015, 57, 456-466.	9.7	525
18	Rapid Cycling of Lipid Raft Markers between the Cell Surface and Golgi Complex. Journal of Cell Biology, 2001, 153, 529-542.	5.2	496

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19	Golgi Tubule Traffic and the Effects of Brefeldin A Visualized in Living Cells. <i>Journal of Cell Biology</i> , 1997, 139, 1137-1155.	5.2	461
20	Secretory Protein Trafficking and Organelle Dynamics in Living Cells. <i>Annual Review of Cell and Developmental Biology</i> , 2000, 16, 557-589.	9.4	449
21	Probing the Stochastic, Motor-Driven Properties of the Cytoplasm Using Force Spectrum Microscopy. <i>Cell</i> , 2014, 158, 822-832.	28.9	444
22	Visualizing Intracellular Organelle and Cytoskeletal Interactions at Nanoscale Resolution on Millisecond Timescales. <i>Cell</i> , 2018, 175, 1430-1442.e17.	28.9	427
23	Maintenance of Golgi structure and function depends on the integrity of ER export. <i>Journal of Cell Biology</i> , 2001, 155, 557-570.	5.2	398
24	Nuclear pore complexes form immobile networks and have a very low turnover in live mammalian cells. <i>Journal of Cell Biology</i> , 2001, 154, 71-84.	5.2	364
25	Cell volume change through water efflux impacts cell stiffness and stem cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8618-E8627.	7.1	362
26	Increased spatiotemporal resolution reveals highly dynamic dense tubular matrices in the peripheral ER. <i>Science</i> , 2016, 354, .	12.6	361
27	Neuron-Astrocyte Metabolic Coupling Protects against Activity-Induced Fatty Acid Toxicity. <i>Cell</i> , 2019, 177, 1522-1535.e14.	28.9	350
28	Bright photoactivatable fluorophores for single-molecule imaging. <i>Nature Methods</i> , 2016, 13, 985-988.	19.0	338
29	RNA Granules Hitchhike on Lysosomes for Long-Distance Transport, Using Annexin A11 as a Molecular Tether. <i>Cell</i> , 2019, 179, 147-164.e20.	28.9	327
30	Golgi Membranes Are Absorbed into and Reemerge from the ER during Mitosis. <i>Cell</i> , 1999, 99, 589-601.	28.9	315
31	Photoactivatable fluorescent proteins for diffraction-limited and super-resolution imaging. <i>Trends in Cell Biology</i> , 2009, 19, 555-565.	7.9	303
32	The origin and maintenance of mammalian peroxisomes involves a de novo PEX16-dependent pathway from the ER. <i>Journal of Cell Biology</i> , 2006, 173, 521-532.	5.2	293
33	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. <i>Science</i> , 2019, 363, .	12.6	277
34	Actin Depletion Initiates Events Leading to Granule Secretion at the Immunological Synapse. <i>Immunity</i> , 2015, 42, 864-876.	14.3	271
35	mTOR-dependent phosphorylation controls TFEB nuclear export. <i>Nature Communications</i> , 2018, 9, 3312.	12.8	271
36	Transport through the Golgi Apparatus by Rapid Partitioning within a Two-Phase Membrane System. <i>Cell</i> , 2008, 133, 1055-1067.	28.9	256

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37	Correlative three-dimensional super-resolution and block-face electron microscopy of whole vitreously frozen cells. <i>Science</i> , 2020, 367, .	12.6	255
38	Dynamics and retention of misfolded proteins in native ER membranes. <i>Nature Cell Biology</i> , 2000, 2, 288-295.	10.3	251
39	A mitochondria-anchored isoform of the actin-nucleating spire protein regulates mitochondrial division. <i>ELife</i> , 2015, 4, .	6.0	246
40	Dissection of COPI and Arf1 dynamics in vivo and role in Golgi membrane transport. <i>Nature</i> , 2002, 417, 187-193.	27.8	239
41	Phase separation of YAP reorganizes genome topology for long-term YAP target gene expression. <i>Nature Cell Biology</i> , 2019, 21, 1578-1589.	10.3	237
42	Structural basis for midbody targeting of spastin by the ESCRT-III protein CHMP1B. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 1278-1286.	8.2	226
43	Dynamics of GBF1, a Brefeldin A-Sensitive Arf1 Exchange Factor at the Golgi. <i>Molecular Biology of the Cell</i> , 2005, 16, 1213-1222.	2.1	225
44	AMPK-Dependent Phosphorylation of GAPDH Triggers Sirt1 Activation and Is Necessary for Autophagy upon Glucose Starvation. <i>Molecular Cell</i> , 2015, 60, 930-940.	9.7	222
45	Interacting organelles. <i>Current Opinion in Cell Biology</i> , 2018, 53, 84-91.	5.4	201
46	A recycling pathway between the endoplasmic reticulum and the Golgi apparatus for retention of unassembled MHC class I molecules. <i>Nature</i> , 1991, 352, 441-444.	27.8	188
47	Intravital Imaging Reveals Ghost Fibers as Architectural Units Guiding Myogenic Progenitors during Regeneration. <i>Cell Stem Cell</i> , 2016, 18, 243-252.	11.1	185
48	Putting super-resolution fluorescence microscopy to work. <i>Nature Methods</i> , 2009, 6, 21-23.	19.0	166
49	Distribution of ESCRT Machinery at HIV Assembly Sites Reveals Virus Scaffolding of ESCRT Subunits. <i>Science</i> , 2014, 343, 653-656.	12.6	165
50	Rational Design of Fluorogenic and Spontaneously Blinking Labels for Super-Resolution Imaging. <i>ACS Central Science</i> , 2019, 5, 1602-1613.	11.3	159
51	A general method to optimize and functionalize red-shifted rhodamine dyes. <i>Nature Methods</i> , 2020, 17, 815-821.	19.0	155
52	Photobleaching and photoactivation: following protein dynamics in living cells. <i>Nature Cell Biology</i> , 2003, Suppl, S7-14.	10.3	153
53	ER-to-Golgi protein delivery through an interwoven, tubular network extending from ER. <i>Cell</i> , 2021, 184, 2412-2429.e16.	28.9	152
54	Lipids and Cholesterol as Regulators of Traffic in the Endomembrane System. <i>Annual Review of Biophysics</i> , 2010, 39, 559-578.	10.0	147

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55	Molecular basis for Golgi maintenance and biogenesis. <i>Current Opinion in Cell Biology</i> , 2004, 16, 364-372.	5.4	144
56	ER Stress-Induced Clearance of Misfolded GPI-Anchored Proteins via the Secretory Pathway. <i>Cell</i> , 2014, 158, 522-533.	28.9	143
57	Spastin tethers lipid droplets to peroxisomes and directs fatty acid trafficking through ESCRT-III. <i>Journal of Cell Biology</i> , 2019, 218, 2583-2599.	5.2	139
58	AMPK and vacuole-associated Atg14p orchestrate 1/4-lipophagy for energy production and long-term survival under glucose starvation. <i>ELife</i> , 2017, 6, .	6.0	138
59	Defects in ER-endosome contacts impact lysosome function in hereditary spastic paraplegia. <i>Journal of Cell Biology</i> , 2017, 216, 1337-1355.	5.2	136
60	Noncanonical autophagy at ER exit sites regulates procollagen turnover. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10099-E10108.	7.1	136
61	Whole-cell organelle segmentation in volume electron microscopy. <i>Nature</i> , 2021, 599, 141-146.	27.8	127
62	Diffusion in Inhomogeneous Media: Theory and Simulations Applied to Whole Cell Photobleach Recovery. <i>Biophysical Journal</i> , 2000, 79, 1761-1770.	0.5	121
63	Role of Grb2 in EGF-stimulated EGFR internalization. <i>Journal of Cell Science</i> , 2002, 115, 1791-1802.	2.0	120
64	ER membranes exhibit phase behavior at sites of organelle contact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7225-7235.	7.1	117
65	De novo design of tunable, pH-driven conformational changes. <i>Science</i> , 2019, 364, 658-664.	12.6	109
66	Golgi Inheritance in Mammalian Cells Is Mediated through Endoplasmic Reticulum Export Activities. <i>Molecular Biology of the Cell</i> , 2006, 17, 990-1005.	2.1	108
67	A General Method to Improve Fluorophores Using Deuterated Auxochromes. <i>Jacs Au</i> , 2021, 1, 690-696.	7.9	106
68	Monitoring chaperone engagement of substrates in the endoplasmic reticulum of live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6536-6541.	7.1	105
69	Measuring Protein Mobility by Photobleaching GFP Chimeras in Living Cells. <i>Current Protocols in Cell Biology</i> , 2003, 19, Unit 21.1.	2.3	103
70	Flat clathrin lattices: stable features of the plasma membrane. <i>Molecular Biology of the Cell</i> , 2014, 25, 3581-3594.	2.1	103
71	A lipid-based partitioning mechanism for selective incorporation of proteins into membranes of HIV particles. <i>Nature Cell Biology</i> , 2019, 21, 452-461.	10.3	97
72	Actin cables and comet tails organize mitochondrial networks in mitosis. <i>Nature</i> , 2021, 591, 659-664.	27.8	92

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73	ArfGAP1 dynamics and its role in COPI coat assembly on Golgi membranes of living cells. <i>Journal of Cell Biology</i> , 2005, 168, 1053-1063.	5.2	88
74	Immature HIV-1 lattice assembly dynamics are regulated by scaffolding from nucleic acid and the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10056-E10065.	7.1	86
75	Fluorescent Proteins for Photoactivation Experiments. <i>Methods in Cell Biology</i> , 2008, 85, 45-61.	1.1	82
76	RNA transport and local translation in neurodevelopmental and neurodegenerative disease. <i>Nature Neuroscience</i> , 2021, 24, 622-632.	14.8	82
77	Lipid droplets in the nervous system. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	82
78	AMPK Activation Prevents and Reverses Drug-Induced Mitochondrial and Hepatocyte Injury by Promoting Mitochondrial Fusion and Function. <i>PLoS ONE</i> , 2016, 11, e0165638.	2.5	81
79	An open-access volume electron microscopy atlas of whole cells and tissues. <i>Nature</i> , 2021, 599, 147-151.	27.8	80
80	Nucleocytoplasmic shuttling mediates the dynamic maintenance of nuclear Dorsal levels during <i>Drosophila</i> embryogenesis. <i>Development (Cambridge)</i> , 2007, 134, 4233-4241.	2.5	79
81	The secretory membrane system in the <i>Drosophila</i> syncytial blastoderm embryo exists as functionally compartmentalized units around individual nuclei. <i>Journal of Cell Biology</i> , 2006, 173, 219-230.	5.2	77
82	Cortical actin recovery at the immunological synapse leads to termination of lytic granule secretion in cytotoxic T lymphocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6585-E6594.	7.1	75
83	ER proteins decipher the tubulin code to regulate organelle distribution. <i>Nature</i> , 2022, 601, 132-138.	27.8	75
84	Membrane dynamics and organelle biogenesis—lipid pipelines and vesicular carriers. <i>BMC Biology</i> , 2017, 15, 102.	3.8	63
85	The Development and Enhancement of FRAP as a Key Tool for Investigating Protein Dynamics. <i>Biophysical Journal</i> , 2018, 115, 1146-1155.	0.5	53
86	Biomolecular Condensates and Their Links to Cancer Progression. <i>Trends in Biochemical Sciences</i> , 2021, 46, 535-549.	7.5	51
87	ER trapping reveals Golgi enzymes continually revisit the ER through a recycling pathway that controls Golgi organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6752-61.	7.1	49
88	Fate plasticity and reprogramming in genetically distinct populations of <i>Danio</i> leucophores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11806-11811.	7.1	49
89	Image-based pooled whole-genome CRISPRi screening for subcellular phenotypes. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	48
90	Cell cycle maintenance and biogenesis of the Golgi complex. <i>Histochemistry and Cell Biology</i> , 2000, 114, 93-103.	1.7	47

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91	Culturing MDCK Cells in Three Dimensions for Analyzing Intracellular Dynamics. Current Protocols in Cell Biology, 2009, 43, Unit 4.22.	2.3	47
92	Fas/CD95 prevents autoimmunity independently of lipid raft localization and efficient apoptosis induction. Nature Communications, 2016, 7, 13895.	12.8	45
93	LKB1/AMPK and PKA Control ABCB11 Trafficking and Polarization in Hepatocytes. PLoS ONE, 2014, 9, e91921.	2.5	44
94	Online Article: Insights into COPI coat assembly and function in living cells. Trends in Cell Biology, 2006, 16, e1-e4.	7.9	42
95	Rational Engineering of Photoconvertible Fluorescent Proteins for Dual-Color Fluorescence Nanoscopy Enabled by a Triplet-State Mechanism of Primed Conversion. Angewandte Chemie - International Edition, 2017, 56, 11628-11633.	13.8	41
96	The nanoscale spatial organization of B-cell receptors on immunoglobulin M- and G-expressing human B-cells. Molecular Biology of the Cell, 2017, 28, 511-523.	2.1	40
97	Sonic hedgehog pathway activation increases mitochondrial abundance and activity in hippocampal neurons. Molecular Biology of the Cell, 2017, 28, 387-395.	2.1	39
98	Dendrosomatic Sonic Hedgehog Signaling in Hippocampal Neurons Regulates Axon Elongation. Journal of Neuroscience, 2015, 35, 16126-16141.	3.6	37
99	In situ differentiation of iridophore crystallotypes underlies zebrafish stripe patterning. Nature Communications, 2020, 11, 6391.	12.8	35
100	Secretory pathway kinetics and <i>in vivo</i> analysis of protein traffic from the Golgi complex to the cell surface. FASEB Journal, 1999, 13, S251-6.	0.5	34
101	MYC Induces a Hybrid Energetics Program Early in Cell Reprogramming. Stem Cell Reports, 2018, 11, 1479-1492.	4.8	31
102	Multispectral Live-Cell Imaging. Current Protocols in Cell Biology, 2018, 79, e46.	2.3	27
103	Mechanisms of procollagen and HSP47 sorting during ER-to-Golgi trafficking. Matrix Biology, 2020, 93, 79-94.	3.6	25
104	A Bromodomain Protein, MCAP, Associates with Mitotic Chromosomes and Affects G2-to-M Transition. Molecular and Cellular Biology, 2000, 20, 6537-6549.	2.3	24
105	Dynamin regulates metaphase furrow formation and plasma membrane compartmentalization in the syncytial <i>Drosophila</i> embryo. Biology Open, 2015, 4, 301-311.	1.2	23
106	Live cell single molecule-guided Bayesian localization super resolution microscopy. Cell Research, 2017, 27, 713-716.	12.0	23
107	Activity-dependent Golgi satellite formation in dendrites reshapes the neuronal surface glycoproteome. ELife, 2021, 10, .	6.0	23
108	The secretory membrane system studied in real-time. Histochemistry and Cell Biology, 2001, 116, 97-107.	1.7	21

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109	VPS4 is a dynamic component of the centrosome that regulates centrosome localization of β -tubulin, centriolar satellite stability and ciliogenesis. <i>Scientific Reports</i> , 2018, 8, 3353.	3.3	21
110	Revisiting Membrane Microdomains and Phase Separation: A Viral Perspective. <i>Viruses</i> , 2020, 12, 745.	3.3	21
111	Dynamics of Secretory Membrane Trafficking. <i>Annals of the New York Academy of Sciences</i> , 2004, 1038, 115-124.	3.8	18
112	A Neuron-Glia Co-culture System for Studying Intercellular Lipid Transport. <i>Current Protocols in Cell Biology</i> , 2019, 84, e95.	2.3	18
113	Monitoring the Effects of Pharmacological Reagents on Mitochondrial Morphology. <i>Current Protocols in Cell Biology</i> , 2018, 79, e45.	2.3	16
114	Myosin VI facilitates connexin 43 gap junction accretion. <i>Journal of Cell Science</i> , 2017, 130, 827-840.	2.0	14
115	NDP52 tunes cortical actin interaction with astral microtubules for accurate spindle orientation. <i>Cell Research</i> , 2019, 29, 666-679.	12.0	13
116	An evolving paradigm for the secretory pathway?. <i>Molecular Biology of the Cell</i> , 2011, 22, 3929-3932.	2.1	11
117	Targeting LIPA independent of its lipase activity is a therapeutic strategy in solid tumors via induction of endoplasmic reticulum stress. <i>Nature Cancer</i> , 2022, 3, 866-884.	13.2	8
118	Rational Engineering of Photoconvertible Fluorescent Proteins for Dual-Color Fluorescence Nanoscopy Enabled by a Triplet-State Mechanism of Primed Conversion. <i>Angewandte Chemie</i> , 2017, 129, 11786-11791.	2.0	6
119	Unraveling trajectories of diffusive particles on networks. <i>Physical Review Research</i> , 2022, 4, .	3.6	6
120	YAP1 nuclear efflux and transcriptional reprogramming follow membrane diminution upon VSV-G-induced cell fusion. <i>Nature Communications</i> , 2021, 12, 4502.	12.8	5
121	DEVELOPING PHOTOACTIVATED LOCALIZATION MICROSCOPY (PALM). , 2007, , .		3
122	Triggered Cell-Cell Fusion Assay for Cytoplasmic and Organelle Intermixing Studies. <i>Current Protocols in Cell Biology</i> , 2018, 81, e61.	2.3	3
123	The long road: peering into live cells. <i>Nature Cell Biology</i> , 2010, 12, 918-918.	10.3	2
124	Coated-pit dynamics. <i>Nature</i> , 1999, 398, 753-753.	27.8	1
125	Cytokinetic Abcission: Timing the Separation. <i>Current Biology</i> , 2015, 25, R722-R724.	3.9	1
126	The evolution of a cell biologist. <i>Molecular Biology of the Cell</i> , 2020, 31, 2763-2767.	2.1	0

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127	Midbody targeting of the ESCRT machinery by a noncanonical coiled coil in CEP55. FASEB Journal, 2009, 23, 864.1.	0.5	0
128	Transport Through the Secretory Pathway: Observations of Cargo and Peripheral Coat Proteins. Microscopy and Microanalysis, 1998, 4, 1026-1027.	0.4	0