

# Jennifer Lippincott-Schwartz

## List of Publications by Citations

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135  
papers

28,442  
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66  
h-index

147  
g-index

147  
ext. papers

33,534  
ext. citations

18.2  
avg, IF

7.04  
L-index

#	Paper	IF	Citations
135	Imaging intracellular fluorescent proteins at nanometer resolution. <i>Science</i> , <b>2006</b> , 313, 1642-5	33.3	5929
134	A photoactivatable GFP for selective photolabeling of proteins and cells. <i>Science</i> , <b>2002</b> , 297, 1873-7	33.3	1339
133	Lattice light-sheet microscopy: imaging molecules to embryos at high spatiotemporal resolution. <i>Science</i> , <b>2014</b> , 346, 1257-98	33.3	1102
132	Mitochondria supply membranes for autophagosome biogenesis during starvation. <i>Cell</i> , <b>2010</b> , 141, 656-67	37.2	1036
131	Studying protein dynamics in living cells. <i>Nature Reviews Molecular Cell Biology</i> , <b>2001</b> , 2, 444-56	48.7	992
130	ER-to-Golgi transport visualized in living cells. <i>Nature</i> , <b>1997</b> , 389, 81-5	50.4	947
129	High-density mapping of single-molecule trajectories with photoactivated localization microscopy. <i>Nature Methods</i> , <b>2008</b> , 5, 155-7	21.6	895
128	Development and use of fluorescent protein markers in living cells. <i>Science</i> , <b>2003</b> , 300, 87-91	33.3	832
127	Brefeldin A effects on endosomes, lysosomes, and the TGN suggest a general mechanism for regulating organelle structure and membrane traffic. <i>Cell</i> , <b>1991</b> , 67, 601-16	56.2	765
126	Tubular network formation protects mitochondria from autophagosomal degradation during nutrient starvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 10190-5	11.5	742
125	Interferometric fluorescent super-resolution microscopy resolves 3D cellular ultrastructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3125-30	11.5	686
124	Nuclear membrane dynamics and reassembly in living cells: targeting of an inner nuclear membrane protein in interphase and mitosis. <i>Journal of Cell Biology</i> , <b>1997</b> , 138, 1193-206	7.3	667
123	Applying systems-level spectral imaging and analysis to reveal the organelle interactome. <i>Nature</i> , <b>2017</b> , 546, 162-167	50.4	511
122	Kinetic analysis of secretory protein traffic and characterization of golgi to plasma membrane transport intermediates in living cells. <i>Journal of Cell Biology</i> , <b>1998</b> , 143, 1485-503	7.3	510
121	Fatty acid trafficking in starved cells: regulation by lipid droplet lipolysis, autophagy, and mitochondrial fusion dynamics. <i>Developmental Cell</i> , <b>2015</b> , 32, 678-92	10.2	480
120	Rapid cycling of lipid raft markers between the cell surface and Golgi complex. <i>Journal of Cell Biology</i> , <b>2001</b> , 153, 529-41	7.3	462
119	Probing protein heterogeneity in the plasma membrane using PALM and pair correlation analysis. <i>Nature Methods</i> , <b>2011</b> , 8, 969-75	21.6	435

118	Golgi tubule traffic and the effects of brefeldin A visualized in living cells. <i>Journal of Cell Biology</i> , <b>1997</b> , 139, 1137-55	7.3	422
117	Secretory protein trafficking and organelle dynamics in living cells. <i>Annual Review of Cell and Developmental Biology</i> , <b>2000</b> , 16, 557-89	12.6	398
116	Deacetylation of nuclear LC3 drives autophagy initiation under starvation. <i>Molecular Cell</i> , <b>2015</b> , 57, 456-66.6	66.6	370
115	Maintenance of Golgi structure and function depends on the integrity of ER export. <i>Journal of Cell Biology</i> , <b>2001</b> , 155, 557-70	7.3	353
114	Nuclear pore complexes form immobile networks and have a very low turnover in live mammalian cells. <i>Journal of Cell Biology</i> , <b>2001</b> , 154, 71-84	7.3	340
113	Probing the stochastic, motor-driven properties of the cytoplasm using force spectrum microscopy. <i>Cell</i> , <b>2014</b> , 158, 822-832	56.2	339
112	Golgi membranes are absorbed into and reemerge from the ER during mitosis. <i>Cell</i> , <b>1999</b> , 99, 589-601	56.2	295
111	Photoactivatable fluorescent proteins for diffraction-limited and super-resolution imaging. <i>Trends in Cell Biology</i> , <b>2009</b> , 19, 555-65	18.3	270
110	The origin and maintenance of mammalian peroxisomes involves a de novo PEX16-dependent pathway from the ER. <i>Journal of Cell Biology</i> , <b>2006</b> , 173, 521-32	7.3	258
109	Increased spatiotemporal resolution reveals highly dynamic dense tubular matrices in the peripheral ER. <i>Science</i> , <b>2016</b> , 354,	33.3	255
108	Visualizing Intracellular Organelle and Cytoskeletal Interactions at Nanoscale Resolution on Millisecond Timescales. <i>Cell</i> , <b>2018</b> , 175, 1430-1442.e17	56.2	234
107	Dynamics and retention of misfolded proteins in native ER membranes. <i>Nature Cell Biology</i> , <b>2000</b> , 2, 288-294	294	232
106	Transport through the Golgi apparatus by rapid partitioning within a two-phase membrane system. <i>Cell</i> , <b>2008</b> , 133, 1055-67	56.2	226
105	Dissection of COPI and Arf1 dynamics in vivo and role in Golgi membrane transport. <i>Nature</i> , <b>2002</b> , 417, 187-93	50.4	219
104	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> , <b>2017</b> , 114, E8618-E8627	11.5	215
103	Bright photoactivatable fluorophores for single-molecule imaging. <i>Nature Methods</i> , <b>2016</b> , 13, 985-988	21.6	214
102	Dynamics of GBF1, a Brefeldin A-sensitive Arf1 exchange factor at the Golgi. <i>Molecular Biology of the Cell</i> , <b>2005</b> , 16, 1213-22	3.5	190
101	Actin depletion initiates events leading to granule secretion at the immunological synapse. <i>Immunity</i> , <b>2015</b> , 42, 864-76	32.3	188

100	Structural basis for midbody targeting of spastin by the ESCRT-III protein CHMP1B. <i>Nature Structural and Molecular Biology</i> , <b>2008</b> , 15, 1278-86	17.6	188
99	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. <i>Science</i> , <b>2019</b> , 363,	33.3	181
98	A recycling pathway between the endoplasmic reticulum and the Golgi apparatus for retention of unassembled MHC class I molecules. <i>Nature</i> , <b>1991</b> , 352, 441-4	50.4	172
97	A mitochondria-anchored isoform of the actin-nucleating spire protein regulates mitochondrial division. <i>ELife</i> , <b>2015</b> , 4,	8.9	171
96	RNA Granules Hitchhike on Lysosomes for Long-Distance Transport, Using Annexin A11 as a Molecular Tether. <i>Cell</i> , <b>2019</b> , 179, 147-164.e20	56.2	158
95	Neuron-Astrocyte Metabolic Coupling Protects against Activity-Induced Fatty Acid Toxicity. <i>Cell</i> , <b>2019</b> , 177, 1522-1535.e14	56.2	156
94	AMPK-Dependent Phosphorylation of GAPDH Triggers Sirt1 Activation and Is Necessary for Autophagy upon Glucose Starvation. <i>Molecular Cell</i> , <b>2015</b> , 60, 930-40	17.6	155
93	Photobleaching and photoactivation: following protein dynamics in living cells. <i>Nature Cell Biology</i> , <b>2003</b> , Suppl, S7-14	23.4	153
92	Putting super-resolution fluorescence microscopy to work. <i>Nature Methods</i> , <b>2009</b> , 6, 21-3	21.6	148
91	Distribution of ESCRT machinery at HIV assembly sites reveals virus scaffolding of ESCRT subunits. <i>Science</i> , <b>2014</b> , 343, 653-6	33.3	141
90	Correlative three-dimensional super-resolution and block-face electron microscopy of whole vitreously frozen cells. <i>Science</i> , <b>2020</b> , 367,	33.3	138
89	mTOR-dependent phosphorylation controls TFEB nuclear export. <i>Nature Communications</i> , <b>2018</b> , 9, 3312	17.4	133
88	Molecular basis for Golgi maintenance and biogenesis. <i>Current Opinion in Cell Biology</i> , <b>2004</b> , 16, 364-72	9	133
87	Intravital Imaging Reveals Ghost Fibers as Architectural Units Guiding Myogenic Progenitors during Regeneration. <i>Cell Stem Cell</i> , <b>2016</b> , 18, 243-52	18	119
86	Lipids and cholesterol as regulators of traffic in the endomembrane system. <i>Annual Review of Biophysics</i> , <b>2010</b> , 39, 559-78	21.1	114
85	Diffusion in inhomogeneous media: theory and simulations applied to whole cell photobleach recovery. <i>Biophysical Journal</i> , <b>2000</b> , 79, 1761-70	2.9	114
84	Phase separation of YAP reorganizes genome topology for long-term YAP target gene expression. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 1578-1589	23.4	113
83	ER stress-induced clearance of misfolded GPI-anchored proteins via the secretory pathway. <i>Cell</i> , <b>2014</b> , 158, 522-33	56.2	105

82	Defects in ER-endosome contacts impact lysosome function in hereditary spastic paraplegia. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 1337-1355	7.3	101
81	Golgi inheritance in mammalian cells is mediated through endoplasmic reticulum export activities. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 990-1005	3.5	98
80	Role of Grb2 in EGF-stimulated EGFR internalization. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 1791-1802	5.3	95
79	AMPK and vacuole-associated Atg14p orchestrate lipophagy for energy production and long-term survival under glucose starvation. <i>ELife</i> , <b>2017</b> , 6,	8.9	92
78	Interacting organelles. <i>Current Opinion in Cell Biology</i> , <b>2018</b> , 53, 84-91	9	92
77	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> , <b>2006</b> , 103, 6536-41	11.5	89
76	Spastin tethers lipid droplets to peroxisomes and directs fatty acid trafficking through ESCRT-III. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 2583-2599	7.3	86
75	Measuring protein mobility by photobleaching GFP chimeras in living cells. <i>Current Protocols in Cell Biology</i> , <b>2003</b> , Chapter 21, Unit 21.1	2.3	85
74	Noncanonical autophagy at ER exit sites regulates procollagen turnover. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E10099-E10108	11.5	84
73	ArfGAP1 dynamics and its role in COPI coat assembly on Golgi membranes of living cells. <i>Journal of Cell Biology</i> , <b>2005</b> , 168, 1053-63	7.3	80
72	Fluorescent proteins for photoactivation experiments. <i>Methods in Cell Biology</i> , <b>2008</b> , 85, 45-61	1.8	76
71	Flat clathrin lattices: stable features of the plasma membrane. <i>Molecular Biology of the Cell</i> , <b>2014</b> , 25, 3581-94	3.5	73
70	Rational Design of Fluorogenic and Spontaneously Blinking Labels for Super-Resolution Imaging. <i>ACS Central Science</i> , <b>2019</b> , 5, 1602-1613	16.8	66
69	The secretory membrane system in the Drosophila syncytial blastoderm embryo exists as functionally compartmentalized units around individual nuclei. <i>Journal of Cell Biology</i> , <b>2006</b> , 173, 219-307.3	7.3	65
68	Nucleocytoplasmic shuttling mediates the dynamic maintenance of nuclear Dorsal levels during Drosophila embryogenesis. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 4233-41	6.6	64
67	AMPK Activation Prevents and Reverses Drug-Induced Mitochondrial and Hepatocyte Injury by Promoting Mitochondrial Fusion and Function. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165638	3.7	64
66	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> , <b>2020</b> , 117, 7225-7235	11.5	63
65	De novo design of tunable, pH-driven conformational changes. <i>Science</i> , <b>2019</b> , 364, 658-664	33.3	60

64	A general method to optimize and functionalize red-shifted rhodamine dyes. <i>Nature Methods</i> , <b>2020</b> , 17, 815-821	21.6	58
63	A lipid-based partitioning mechanism for selective incorporation of proteins into membranes of HIV particles. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 452-461	23.4	52
62	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> , <b>2017</b> , 114, E6585-E6594	11.5	51
61	Cell cycle maintenance and biogenesis of the Golgi complex. <i>Histochemistry and Cell Biology</i> , <b>2000</b> , 114, 93-103	2.4	44
60	Insights into COPI coat assembly and function in living cells. <i>Trends in Cell Biology</i> , <b>2006</b> , 16, e1-4	18.3	41
59	Membrane dynamics and organelle biogenesis-lipid pipelines and vesicular carriers. <i>BMC Biology</i> , <b>2017</b> , 15, 102	7.3	40
58	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> , <b>2017</b> , 114, E10056-E10065	11.5	40
57	LKB1/AMPK and PKA control ABCB11 trafficking and polarization in hepatocytes. <i>PLoS ONE</i> , <b>2014</b> , 9, e91921	3.7	38
56	Culturing MDCK cells in three dimensions for analyzing intracellular dynamics. <i>Current Protocols in Cell Biology</i> , <b>2009</b> , Chapter 4, Unit 4.22	2.3	38
55	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> , <b>2015</b> , 112, E6752-61	11.5	37
54	Secretory pathway kinetics and in vivo analysis of protein traffic from the Golgi complex to the cell surface. <i>FASEB Journal</i> , <b>1999</b> , 13 Suppl 2, S251-6	0.9	33
53	Fas/CD95 prevents autoimmunity independently of lipid raft localization and efficient apoptosis induction. <i>Nature Communications</i> , <b>2016</b> , 7, 13895	17.4	32
52	Dendrosomatic Sonic Hedgehog Signaling in Hippocampal Neurons Regulates Axon Elongation. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 16126-41	6.6	31
51	The nanoscale spatial organization of B-cell receptors on immunoglobulin M- and G-expressing human B-cells. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 511-523	3.5	28
50	Rational Engineering of Photoconvertible Fluorescent Proteins for Dual-Color Fluorescence Nanoscopy Enabled by a Triplet-State Mechanism of Primed Conversion. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 11628-11633	16.4	27
49	ER-to-Golgi protein delivery through an interwoven, tubular network extending from ER. <i>Cell</i> , <b>2021</b> , 184, 2412-2429.e16	56.2	27
48	Fate plasticity and reprogramming in genetically distinct populations of leucophores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 11806-11811	11.5	25
47	The Development and Enhancement of FRAP as a Key Tool for Investigating Protein Dynamics. <i>Biophysical Journal</i> , <b>2018</b> , 115, 1146-1155	2.9	24

46	Actin cables and comet tails organize mitochondrial networks in mitosis. <i>Nature</i> , <b>2021</b> , 591, 659-664	50.4	23
45	Sonic hedgehog pathway activation increases mitochondrial abundance and activity in hippocampal neurons. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 387-395	3.5	22
44	RNA transport and local translation in neurodevelopmental and neurodegenerative disease. <i>Nature Neuroscience</i> , <b>2021</b> , 24, 622-632	25.5	21
43	Multispectral Live-Cell Imaging. <i>Current Protocols in Cell Biology</i> , <b>2018</b> , 79, e46	2.3	21
42	The secretory membrane system studied in real-time. Robert Feulgen Prize Lecture, 2001. <i>Histochemistry and Cell Biology</i> , <b>2001</b> , 116, 97-107	2.4	19
41	Image-based pooled whole-genome CRISPRi screening for subcellular phenotypes. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	18
40	Dynamics of secretory membrane trafficking. <i>Annals of the New York Academy of Sciences</i> , <b>2004</b> , 1038, 115-24	6.5	17
39	In situ differentiation of iridophore crystallotypes underlies zebrafish stripe patterning. <i>Nature Communications</i> , <b>2020</b> , 11, 6391	17.4	17
38	A General Method to Improve Fluorophores Using Deuterated Auxochromes. <i>Jacs Au</i> , <b>2021</b> , 1, 690-696		17
37	MYC Induces a Hybrid Energetics Program Early in Cell Reprogramming. <i>Stem Cell Reports</i> , <b>2018</b> , 11, 1478-1492		17
36	Dynamin regulates metaphase furrow formation and plasma membrane compartmentalization in the syncytial <i>Drosophila</i> embryo. <i>Biology Open</i> , <b>2015</b> , 4, 301-11	2.2	15
35	Live cell single molecule-guided Bayesian localization super resolution microscopy. <i>Cell Research</i> , <b>2017</b> , 27, 713-716	24.7	14
34	Mechanisms of procollagen and HSP47 sorting during ER-to-Golgi trafficking. <i>Matrix Biology</i> , <b>2020</b> , 93, 79-94	11.4	14
33	VPS4 is a dynamic component of the centrosome that regulates centrosome localization of $\beta$ tubulin, centriolar satellite stability and ciliogenesis. <i>Scientific Reports</i> , <b>2018</b> , 8, 3353	4.9	14
32	Biomolecular Condensates and Their Links to Cancer Progression. <i>Trends in Biochemical Sciences</i> , <b>2021</b> , 46, 535-549	10.3	14
31	Whole-cell organelle segmentation in volume electron microscopy. <i>Nature</i> , <b>2021</b> , 599, 141-146	50.4	13
30	Lipid droplets in the nervous system. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	13
29	An open-access volume electron microscopy atlas of whole cells and tissues. <i>Nature</i> , <b>2021</b> , 599, 147-151	50.4	12

28	ER proteins decipher the tubulin code to regulate organelle distribution.. <i>Nature</i> , <b>2021</b> ,	50.4	10
27	Myosin VI facilitates connexin 43 gap junction accretion. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 827-840	5.3	9
26	Monitoring the Effects of Pharmacological Reagents on Mitochondrial Morphology. <i>Current Protocols in Cell Biology</i> , <b>2018</b> , 79, e45	2.3	9
25	An evolving paradigm for the secretory pathway?. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 3929-32	3.5	8
24	Revisiting Membrane Microdomains and Phase Separation: A Viral Perspective. <i>Viruses</i> , <b>2020</b> , 12,	6.2	7
23	A Neuron-Glia Co-culture System for Studying Intercellular Lipid Transport. <i>Current Protocols in Cell Biology</i> , <b>2019</b> , 84, e95	2.3	6
22	Automatic whole cell organelle segmentation in volumetric electron microscopy		6
21	Label-free single-instance protein detection in vitrified cells		5
20	Oligodendrocyte precursor cells prune axons in the mouse neocortex		5
19	NDP52 tunes cortical actin interaction with astral microtubules for accurate spindle orientation. <i>Cell Research</i> , <b>2019</b> , 29, 666-679	24.7	4
18	Rational Engineering of Photoconvertible Fluorescent Proteins for Dual-Color Fluorescence Nanoscopy Enabled by a Triplet-State Mechanism of Primed Conversion. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 11786-11791	3.6	4
17	Author response: A mitochondria-anchored isoform of the actin-nucleating spire protein regulates mitochondrial division <b>2015</b> ,		4
16	A Bromodomain Protein, MCAP, Associates with Mitotic Chromosomes and Affects G2-to-M Transition. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 6537-6549	4.8	3
15	An open-access volume electron microscopy atlas of whole cells and tissues		3
14	Author response: AMPK and vacuole-associated Atg14p orchestrate lipophagy for energy production and long-term survival under glucose starvation <b>2017</b> ,		3
13	The long road: peering into live cells. <i>Nature Cell Biology</i> , <b>2010</b> , 12, 918	23.4	2
12	Correlative three-dimensional super-resolution and block face electron microscopy of whole vitreously frozen cells		2
11	Optimization and functionalization of red-shifted rhodamine dyes		2



10	Deuteration improves small-molecule fluorophores		2
9	Spastin tethers lipid droplets to peroxisomes and directs fatty acid trafficking through ESCRT-III		2
8	Activity-dependent Golgi satellite formation in dendrites reshapes the neuronal surface glycoproteome. <i>ELife</i> , <b>2021</b> , 10,	8.9	2
7	Triggered Cell-Cell Fusion Assay for Cytoplasmic and Organelle Intermixing Studies. <i>Current Protocols in Cell Biology</i> , <b>2018</b> , 81, e61	2.3	1
6	Cytokinetic Abscission: Timing the Separation. <i>Current Biology</i> , <b>2015</b> , 25, R722-4	6.3	1
5	DEVELOPING PHOTOACTIVATED LOCALIZATION MICROSCOPY (PALM) <b>2007</b> ,		1
4	Cortical Column and Whole Brain Imaging of Neural Circuits with Molecular Contrast and Nanoscale Resolution		
3	YAP1 nuclear efflux and transcriptional reprogramming follow membrane diminution upon VSV-G-induced cell fusion. <i>Nature Communications</i> , <b>2021</b> , 12, 4502	17.4	0
2	Midbody targeting of the ESCRT machinery by a noncanonical coiled coil in CEP55. <i>FASEB Journal</i> , <b>2009</b> , 23, 864.1	0.9	
1	The evolution of a cell biologist. <i>Molecular Biology of the Cell</i> , <b>2020</b> , 31, 2763-2767	3.5	