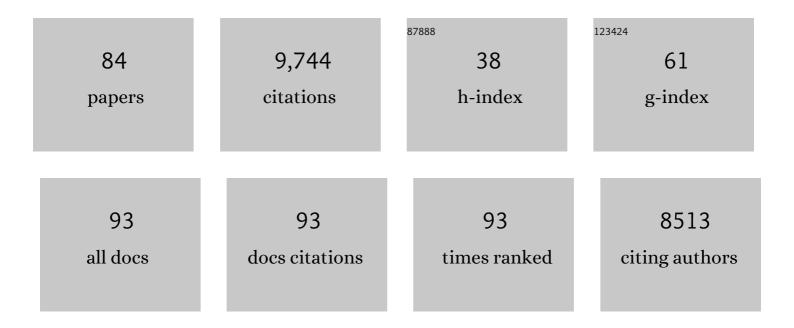
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Paradigm Shift of the Plasma Membrane Concept from the Two-Dimensional Continuum Fluid to the Partitioned Fluid: High-Speed Single-Molecule Tracking of Membrane Molecules. Annual Review of Biophysics and Biomolecular Structure, 2005, 34, 351-378.	18.3	1,010
2	Phospholipids undergo hop diffusion in compartmentalized cell membrane. Journal of Cell Biology, 2002, 157, 1071-1082.	5.2	872
3	Oscillatory Control of Factors Determining Multipotency and Fate in Mouse Neural Progenitors. Science, 2013, 342, 1203-1208.	12.6	444
4	Relationship of Lipid Rafts to Transient Confinement Zones Detected by Single Particle Tracking. Biophysical Journal, 2002, 82, 274-284.	0.5	404
5	Ultrafine Membrane Compartments for Molecular Diffusion as Revealed by Single Molecule Techniques. Biophysical Journal, 2004, 86, 4075-4093.	0.5	400
6	Dynamic Organizing Principles of the Plasma Membrane that Regulate Signal Transduction: Commemorating the Fortieth Anniversary of Singer and Nicolson's Fluid-Mosaic Model. Annual Review of Cell and Developmental Biology, 2012, 28, 215-250.	9.4	394
7	Single-molecule imaging analysis of Ras activation in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7317-7322.	7.1	359
8	Three-dimensional reconstruction of the membrane skeleton at the plasma membrane interface by electron tomography. Journal of Cell Biology, 2006, 174, 851-862.	5.2	343
9	Accumulation of anchored proteins forms membrane diffusion barriers during neuronal polarization. Nature Cell Biology, 2003, 5, 626-632.	10.3	324
10	Full characterization of GPCR monomer–dimer dynamic equilibrium by single molecule imaging. Journal of Cell Biology, 2011, 192, 463-480.	5.2	310
11	Hierarchical mesoscale domain organization of the plasma membrane. Trends in Biochemical Sciences, 2011, 36, 604-615.	7.5	299
12	GPI-anchored receptor clusters transiently recruit Lyn and Gα for temporary cluster immobilization and Lyn activation: single-molecule tracking study 1. Journal of Cell Biology, 2007, 177, 717-730.	5.2	292
13	Tracking single molecules at work in living cells. Nature Chemical Biology, 2014, 10, 524-532.	8.0	290
14	Membrane molecules mobile even after chemical fixation. Nature Methods, 2010, 7, 865-866.	19.0	287
15	Detection of Non-Brownian Diffusion in the Cell Membrane in Single Molecule Tracking. Biophysical Journal, 2005, 88, 2266-2277.	0.5	277
16	Rapid Hop Diffusion of a G-Protein-Coupled Receptor in the Plasma Membrane as Revealed by Single-Molecule Techniques. Biophysical Journal, 2005, 88, 3659-3680.	0.5	247
17	Transient GPI-anchored protein homodimers are units for raft organization and function. Nature Chemical Biology, 2012, 8, 774-783.	8.0	234
18	Single-molecule tracking of membrane molecules: plasma membrane compartmentalization and dynamic assembly of raft-philic signaling molecules. Seminars in Immunology, 2005, 17, 3-21.	5.6	211

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19	Dynamic recruitment of phospholipase Cγ at transiently immobilized GPI-anchored receptor clusters induces IP3–Ca2+ signaling: single-molecule tracking study 2. Journal of Cell Biology, 2007, 177, 731-742.	5.2	206
20	Temporal analysis of recruitment of mammalian ATG proteins to the autophagosome formation site. Autophagy, 2013, 9, 1491-1499.	9.1	196
21	The fence and picket structure of the plasma membrane of live cells as revealed by single molecule techniques (Review). Molecular Membrane Biology, 2003, 20, 13-18.	2.0	187
22	Raft-based interactions of gangliosides with a GPI-anchored receptor. Nature Chemical Biology, 2016, 12, 402-410.	8.0	165
23	Confined diffusion of transmembrane proteins and lipids induced by the same actin meshwork lining the plasma membrane. Molecular Biology of the Cell, 2016, 27, 1101-1119.	2.1	165
24	Hierarchical organization of the plasma membrane: Investigations by singleâ€molecule tracking vs. fluorescence correlation spectroscopy. FEBS Letters, 2010, 584, 1814-1823.	2.8	157
25	Fluorescence Imaging for Monitoring the Colocalization of Two Single Molecules in Living Cells. Biophysical Journal, 2005, 88, 2126-2136.	0.5	154
26	Cholesterol modulates cell signaling and protein networking by specifically interacting with PDZ domain-containing scaffold proteins. Nature Communications, 2012, 3, 1249.	12.8	129
27	Membrane mechanisms for signal transduction: The coupling of the meso-scale raft domains to membrane-skeleton-induced compartments and dynamic protein complexes. Seminars in Cell and Developmental Biology, 2012, 23, 126-144.	5.0	127
28	Both MHC Class II and its GPI-Anchored Form Undergo Hop Diffusion as Observed by Single-Molecule Tracking. Biophysical Journal, 2008, 95, 435-450.	0.5	109
29	Raft-based sphingomyelin interactions revealed by new fluorescent sphingomyelin analogs. Journal of Cell Biology, 2017, 216, 1183-1204.	5.2	108
30	Defining raft domains in the plasma membrane. Traffic, 2020, 21, 106-137.	2.7	94
31	Super-long single-molecule tracking reveals dynamic-anchorage-induced integrin function. Nature Chemical Biology, 2018, 14, 497-506.	8.0	93
32	Ultrafast Diffusion of a Fluorescent Cholesterol Analog in Compartmentalized Plasma Membranes. Traffic, 2014, 15, 583-612.	2.7	77
33	Leader-Containing Uncapped Viral Transcript Activates RIG-I in Antiviral Stress Granules. PLoS Pathogens, 2016, 12, e1005444.	4.7	68
34	The Class-A GPCR Dopamine D2 Receptor Forms Transient Dimers Stabilized by Agonists: Detection by Single-Molecule Tracking. Cell Biochemistry and Biophysics, 2018, 76, 29-37.	1.8	67
35	Mechanism of Lck Recruitment to the T-Cell Receptor Cluster as Studied by Single-Molecule-Fluorescence Video Imaging. ChemPhysChem, 2003, 4, 620-626.	2.1	63
36	Archipelago architecture of the focal adhesion: Membrane molecules freely enter and exit from the focal adhesion zone. Cytoskeleton, 2012, 69, 380-392.	2.0	50

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37	Biocompatible fluorescent silicon nanocrystals for single-molecule tracking and fluorescence imaging. Journal of Cell Biology, 2013, 202, 967-983.	5.2	48
38	Confining Domains Lead to Reaction Bursts: Reaction Kinetics in the Plasma Membrane. PLoS ONE, 2012, 7, e32948.	2.5	48
39	Dynamic actin-mediated nano-scale clustering of CD44 regulates its meso-scale organization at the plasma membrane. Molecular Biology of the Cell, 2020, 31, 561-579.	2.1	38
40	Rac1 recruitment to the archipelago structure of the focal adhesion through the fluid membrane as revealed by singleâ€molecule analysis. Cytoskeleton, 2013, 70, 161-177.	2.0	36
41	High-speed single-molecule imaging reveals signal transduction by induced transbilayer raft phases. Journal of Cell Biology, 2020, 219, .	5.2	35
42	Development of new ganglioside probes and unraveling of raft domain structure by single-molecule imaging. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2494-2506.	2.4	32
43	Chapter 10 Application of Laser Tweezers to Studies of the Fences and Tethers of the Membrane Skeleton that Regulate the Movements of Plasma Membrane Proteins. Methods in Cell Biology, 1997, 55, 173-194.	1.1	26
44	Spatiotemporal analysis with a genetically encoded fluorescent RNA probe reveals TERRA function around telomeres. Scientific Reports, 2016, 6, 38910.	3.3	26
45	Selective Labeling of Proteins on Living Cell Membranes Using Fluorescent Nanodiamond Probes. Nanomaterials, 2016, 6, 56.	4.1	24
46	HsSAS-6-dependent cartwheel assembly ensures stabilization of centriole intermediates. Journal of Cell Science, 2019, 132, .	2.0	24
47	Dynamic Contact Guidance of Myoblasts by Feature Size and Reversible Switching of Substrate Topography: Orchestration of Cell Shape, Orientation, and Nematic Ordering of Actin Cytoskeletons. Langmuir, 2019, 35, 7538-7551.	3.5	24
48	Functional Characterization of Domains of IPS-1 Using an Inducible Oligomerization System. PLoS ONE, 2013, 8, e53578.	2.5	22
49	Single-Molecule Imaging of Receptor–Receptor Interactions. Methods in Cell Biology, 2013, 117, 373-390.	1.1	20
50	Lateral diffusion in a discrete fluid membrane with immobile particles. Physical Review E, 2014, 89, 022724.	2.1	20
51	Revealing the Raft Domain Organization in the Plasma Membrane by Single-Molecule Imaging of Fluorescent Ganglioside Analogs. Methods in Enzymology, 2018, 598, 267-282.	1.0	19
52	Biexciton state causes photoluminescence fluctuations in CdSe/ZnS core/shell quantum dots at high photoexcitation densities. Physical Review B, 2013, 88, .	3.2	13
53	Synergetic Roles of Formyl Peptide Receptor 1 Oligomerization in Ligand-Induced Signal Transduction. ACS Chemical Biology, 2020, 15, 2577-2587.	3.4	11
54	Cortical actin nodes: Their dynamics and recruitment of podosomal proteins as revealed by super-resolution and single-molecule microscopy. PLoS ONE, 2017, 12, e0188778.	2.5	9

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55	Unraveling of Lipid Raft Organization in Cell Plasma Membranes by Single-Molecule Imaging of Ganglioside Probes. Advances in Experimental Medicine and Biology, 2018, 1104, 41-58.	1.6	8
56	Paradigm Shift of the Molecular Dynamics Concept in the Cell Membrane: High-Speed Single-Molecule Tracking Revealed the Partitioning of the Cell Membrane. , 0, , 545-574.		7
57	The Effect of Lactoferrin and Pepsin-Treated Lactoferrin on IEC-6 Cell Damage Induced by Clostridium Difficile Toxin B. Shock, 2018, 50, 119-125.	2.1	7
58	Single-Molecule Imaging of Diffusion, Recruitment, and Activation of Signaling Molecules in Living Cells. , 2005, , 123-152.		6
59	Dynamic Meso-Scale Anchorage of CPI-Anchored Receptors in the Plasma Membrane: Prion Protein vs. Thy1. Cell Biochemistry and Biophysics, 2017, 75, 399-412.	1.8	5
60	Redox-Sensitive Cysteines Confer Proximal Control of the Molecular Crowding Barrier in the Nuclear Pore. Cell Reports, 2020, 33, 108484.	6.4	3
61	Single-Molecule Imaging Reveals Rapid Estradiol Action on the Surface Movement of AMPA Receptors in Live Neurons. Frontiers in Cell and Developmental Biology, 2021, 9, 708715.	3.7	3
62	Live-Cell Imaging of Single Neurotrophin Receptor Molecules on Human Neurons in Alzheimer's Disease. International Journal of Molecular Sciences, 2021, 22, 13260.	4.1	3
63	S1e1-5 Raft and non-raft molecules undergo very similar diffusion in the time scales between 25 microseconds and 2.5 seconds(S1-e1: "Unraveling the membrane microdomains using new biophysical) Tj ETQq1	1@17843	14∂rgBT /Ov∈
64	2P241 Microdomains and compartments in the smooth-muscle cell membrane : single-molecule tracking of phospholopids(Cell biological problems-adhesion, motility, cytoskeleton, signaling, and) Tj ETQq0 0 0	rg B TI /Ove	rlock 10 Tf 5
65	2P310 Detectability of stimulation-induced transient arrest of lateral diffusion (STALL) of membrane molecules in single-molecule trajectories(Native and artificial biomembranes-signal) Tj ETQq1 1 0.784314 rgBT /O	verlock 10	0 Tf 50 337 1
66	2S2-2 Three dimensional interplay of the membrane skeleton with the plasma membrane as visualized by freeze-etch electron tomography(2S2 Interactions between the cell membrane and the actin) Tj ETQq0 0 0 rgBT /	Oyerlock	10 ₀ Tf 50 302
67	Seibutsu Butsuri, 2008, 48, S8. 2P-227 Direct observations of the recruitment of single Lyn kinase molecules to IgE receptor clusters by single fluorescent-molecule tracking(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S110.	0.1	0
68	3P-055 Detection of transient arrest of lateral diffusion of membrane molecules in single-molecule tracking trajectories 2(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S136.	0.1	0
69	2P-204 Chemical fixation fails to fix raft-associated molecules : a single-molecule tracking of their diffusion in the plasma membrane(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S106.	0.1	0
70	2P228 Dimer-monomer equilibrium of a GPCR : direct dimer detection by single-molecule bimolecular fluorescence complementation (SM-BiFC)(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S122-S123.	0.1	0
71	1P223 1C1340 Mechanism of Lyn kinase recruitment to the IgE receptor cluster : dual-color single-molecule tracking study(Cell biology,Oral Presentations,The 48th Annual Meeting of the) Tj ETQq1 1 0.784	3 0 4∎rgBT	/@verlock 10
72	2P235 1C1535 Direct observation of hop diffusion of membrane molecules by developing ultra high-speed single fluorescent-molecule imaging(The 48th Annual Meeting of the Biophysical Society of) Tj ETQqO	O@1rgBT	/Overlock 10

#	Article	IF	CITATIONS
73	3P212 Single-molecule tracking of PKC received and transferred by diffusing small antennas of signal-induced diacylglycerol(Cell biology,The 48th Annual Meeting of the Biophysical Society of) Tj ETQq1 1 0.78	4 ð1 14 rgB1	「∕@verlockel
74	1P236 1I1340 Reexamining lipid microdomains and compartments in the plasma membrane by single lipid-molecule tracking(Biol & Artifi memb.:Structure & Property,Oral Presentations,The 48th) Tj ETQqO	0 @.1 gBT /(Døerlock 10
75	3P199 NMDA receptor is recruited to the synapse by two parallel pathways : exocytosis and lateral diffusion in the plasma membrane.(Cell biology,The 48th Annual Meeting of the Biophysical Society of) Tj ETQq1	1 0.7 8431	4ogBT /Over
76	3A1458 Anomalous rapid diffusion of GPI-anchored proteins as detected by high-speed single fluorescent-molecule tracking(3A Biol & Artifi memb 4: Transport, Signal transduction,The 49th) Tj ETQq0 0 (0 ognBT ∕Ov	e d ock 10 Tf
77	2K1512 Enhanced confinement of activated EGF receptor in the plasma membrane compartments revealed by ultra high-speed single-molecule tracking(Cell biology 2,The 48th Annual Meeting of the) Tj ETQq1 1 (0.70814314	rgBT /Overlo
78	2K1524 Regulation mechanism for signal propagation along the plasma membrane : a single-molecule tracking study(Cell biology 2,The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S93-S94.	0.1	0
79	2K1536 Raft mechanism for regulating Src-family kinases : detection of single-molecule recruitment of a scaffolding transmembrane protein Cbp(Cell biology 2,The 48th Annual Meeting of the Biophysical) Tj ETQq1 1	0 ភ& 4314	r g BT /Overlo
80	1PT209 Rac1 recruitment to the archipelago structure of focal adhesion through the fluid membrane as revealed by single-molecule analysis(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S103-S104.	0.1	0
81	3PT172 Dynamics of normal prion protein, a raft-associated GPI-anchored molecule, in the live neuronal plasma membrane(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S170-S171.	0.1	0
82	GPI-anchored receptor clusters transiently recruit Lyn and Gα for temporary cluster immobilization and Lyn activation: single-molecule tracking study 1. Journal of Experimental Medicine, 2007, 204, i18-i18.	8.5	0
83	1P-149 Synaptic NMDA receptor recycling by the concerted actions of endocytosis/exocytosis and lateral diffusion in the plasma membrane(Cell biology, The 47th Annual Meeting of the Biophysical) Tj ETQq1 1 0.	7 8 4814 rg	:Bō /Overlock
84	Biocompatible fluorescent silicon nanocrystals for single-molecule tracking and fluorescence imaging. Journal of General Physiology, 2013, 142, 1424OIA31.	1.9	0