

Jean-Baptiste Sibarita

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69
papers

4,706
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31
h-index

68
g-index

83
ext. papers

5,940
ext. citations

10.1
avg, IF

5.43
L-index

#	Paper	IF	Citations
69	The extracellular matrix guides the orientation of the cell division axis. <i>Nature Cell Biology</i> , 2005 , 7, 947-53	53.4	642
68	Super-resolution imaging reveals that AMPA receptors inside synapses are dynamically organized in nanodomains regulated by PSD95. <i>Journal of Neuroscience</i> , 2013 , 33, 13204-24	6.6	367
67	Integrins α and β exhibit distinct dynamic nanoscale organizations inside focal adhesions. <i>Nature Cell Biology</i> , 2012 , 14, 1057-67	23.4	275
66	Drosophila exocyst components Sec5, Sec6, and Sec15 regulate DE-Cadherin trafficking from recycling endosomes to the plasma membrane. <i>Developmental Cell</i> , 2005 , 9, 365-76	10.2	226
65	SR-Tesseler: a method to segment and quantify localization-based super-resolution microscopy data. <i>Nature Methods</i> , 2015 , 12, 1065-71	21.6	220
64	Activity-dependent tuning of inhibitory neurotransmission based on GABAAR diffusion dynamics. <i>Neuron</i> , 2009 , 62, 670-82	13.9	213
63	Surface trafficking of neurotransmitter receptor: comparison between single-molecule/quantum dot strategies. <i>Journal of Neuroscience</i> , 2007 , 27, 12433-7	6.6	171
62	Patch-based nonlocal functional for denoising fluorescence microscopy image sequences. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 442-54	11.7	169
61	Fast live simultaneous multiwavelength four-dimensional optical microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16016-22	11.5	146
60	3D high- and super-resolution imaging using single-objective SPIM. <i>Nature Methods</i> , 2015 , 12, 641-4	21.6	126
59	Deconvolution microscopy. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2005 , 95, 201-43	1.7	126
58	Super-resolution fight club: assessment of 2D and 3D single-molecule localization microscopy software. <i>Nature Methods</i> , 2019 , 16, 387-395	21.6	123
57	Wavelet analysis for single molecule localization microscopy. <i>Optics Express</i> , 2012 , 20, 2081-95	3.3	121
56	Synaptic recruitment of gephyrin regulates surface GABAA receptor dynamics for the expression of inhibitory LTP. <i>Nature Communications</i> , 2014 , 5, 3921	17.4	115
55	Heterogeneity of AMPA receptor trafficking and molecular interactions revealed by superresolution analysis of live cell imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17052-7	11.5	109
54	Mapping the dynamics and nanoscale organization of synaptic adhesion proteins using monomeric streptavidin. <i>Nature Communications</i> , 2016 , 7, 10773	17.4	102
53	Catalytic activation of β arrestin by GPCRs. <i>Nature</i> , 2018 , 557, 381-386	50.4	101

52	Visualization and quantification of vesicle trafficking on a three-dimensional cytoskeleton network in living cells. <i>Journal of Microscopy</i> , 2007 , 225, 214-28	1.9	93
51	Control of autophagosome axonal retrograde flux by presynaptic activity unveiled using botulinum neurotoxin type a. <i>Journal of Neuroscience</i> , 2015 , 35, 6179-94	6.6	91
50	Nanoscale segregation of actin nucleation and elongation factors determines dendritic spine protrusion. <i>EMBO Journal</i> , 2014 , 33, 2745-64	13	89
49	Real-time analysis and visualization for single-molecule based super-resolution microscopy. <i>PLoS ONE</i> , 2013 , 8, e62918	3.7	86
48	Unified quantitative model of AMPA receptor trafficking at synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3522-7	11.5	74
47	A role for the Rab6AVGTPase in the inactivation of the Mad2-spindle checkpoint. <i>EMBO Journal</i> , 2006 , 25, 278-89	13	66
46	Localization-based super-resolution imaging meets high-content screening. <i>Nature Methods</i> , 2017 , 14, 1184-1190	21.6	61
45	Robust polarity establishment occurs via an endocytosis-based cortical corralling mechanism. <i>Journal of Cell Biology</i> , 2013 , 200, 407-18	7.3	58
44	Identification and super-resolution imaging of ligand-activated receptor dimers in live cells. <i>Scientific Reports</i> , 2013 , 3, 2387	4.9	54
43	Differential Nanoscale Topography and Functional Role of GluN2-NMDA Receptor Subtypes at Glutamatergic Synapses. <i>Neuron</i> , 2018 , 100, 106-119.e7	13.9	44
42	Synaptic control of secretory trafficking in dendrites. <i>Cell Reports</i> , 2014 , 7, 1771-8	10.6	43
41	mSYD1A, a mammalian synapse-defective-1 protein, regulates synaptogenic signaling and vesicle docking. <i>Neuron</i> , 2013 , 78, 1012-23	13.9	39
40	Nanoscale co-organization and coactivation of AMPAR, NMDAR, and mGluR at excitatory synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14503-14511	11.5	38
39	A tessellation-based colocalization analysis approach for single-molecule localization microscopy. <i>Nature Communications</i> , 2019 , 10, 2379	17.4	31
38	High-content super-resolution imaging of live cell by uPAINT. <i>Methods in Molecular Biology</i> , 2013 , 950, 95-110	1.4	29
37	A quantitative imaging-based screen reveals the exocyst as a network hub connecting endocytosis and exocytosis. <i>Molecular Biology of the Cell</i> , 2015 , 26, 2519-34	3.5	28
36	The gene responsible for Dyggve-Melchior-Clausen syndrome encodes a novel peripheral membrane protein dynamically associated with the Golgi apparatus. <i>Human Molecular Genetics</i> , 2009 , 18, 440-53	5.6	28
35	Advanced imaging and labelling methods to decipher brain cell organization and function. <i>Nature Reviews Neuroscience</i> , 2021 , 22, 237-255	13.5	28

34	A super-resolution platform for correlative live single-molecule imaging and STED microscopy. <i>Nature Methods</i> , 2019 , 16, 1263-1268	21.6	27
33	Phosphatidylserine and GTPase activation control Cdc42 nanoclustering to counter dissipative diffusion. <i>Molecular Biology of the Cell</i> , 2018 , 29, 1299-1310	3.5	25
32	Two-tiered coupling between flowing actin and immobilized N-cadherin/catenin complexes in neuronal growth cones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6997-7002	11.5	24
31	Nanoscale organization of synaptic adhesion proteins revealed by single-molecule localization microscopy. <i>Neurophotonic</i> , 2016 , 3, 041810	3.9	22
30	High-density single-particle tracking: quantifying molecule organization and dynamics at the nanoscale. <i>Histochemistry and Cell Biology</i> , 2014 , 141, 587-95	2.4	22
29	TNF- α influences the lateral dynamics of TNF receptor I in living cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012 , 1823, 1984-9	4.9	21
28	Image restoration in X-ray microscopy: PSF determination and biological applications. <i>IEEE Transactions on Image Processing</i> , 1998 , 7, 258-63	8.7	21
27	Single molecule localisation microscopy reveals how HIV-1 Gag proteins sense membrane virus assembly sites in living host CD4 T cells. <i>Scientific Reports</i> , 2018 , 8, 16283	4.9	20
26	A Discrete Presynaptic Vesicle Cycle for Neuromodulator Receptors. <i>Neuron</i> , 2020 , 105, 663-677.e8	13.9	19
25	3D Protein Dynamics in the Cell Nucleus. <i>Biophysical Journal</i> , 2017 , 112, 133-142	2.9	18
24	Transient Activations of Rac1 at the Lamellipodium Tip Trigger Membrane Protrusion. <i>Current Biology</i> , 2019 , 29, 2852-2866.e5	6.3	18
23	NMDAR-dependent long-term depression is associated with increased short term plasticity through autophagy mediated loss of PSD-95. <i>Nature Communications</i> , 2021 , 12, 2849	17.4	17
22	CaMKII activation persistently segregates postsynaptic proteins via liquid phase separation. <i>Nature Neuroscience</i> , 2021 , 24, 777-785	25.5	12
21	Organization and dynamics of AMPA receptors inside synapses-nano-organization of AMPA receptors and main synaptic scaffolding proteins revealed by super-resolution imaging. <i>Current Opinion in Chemical Biology</i> , 2014 , 20, 120-6	9.7	11
20	Real-time nanoscale organization of amyloid precursor protein. <i>Nanoscale</i> , 2020 , 12, 8200-8215	7.7	10
19	SpineJ: A software tool for quantitative analysis of nanoscale spine morphology. <i>Methods</i> , 2020 , 174, 49-55	4.6	10
18	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions. <i>Nature Communications</i> , 2021 , 12, 3104	17.4	10
17	Amoeboid Swimming Is Propelled by Molecular Paddling in Lymphocytes. <i>Biophysical Journal</i> , 2020 , 119, 1157-1177	2.9	9

16	Single-particle tracking uncovers dynamics of glutamate-induced retrograde transport of NF- κ B p65 in living neurons. <i>Neurophotonics</i> , 2016 , 3, 041804	3.9	8
15	Distance-dependent regulation of NMDAR nanoscale organization along hippocampal neuron dendrites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24526-24533	11.5	8
14	Bacterial cell wall nanoimaging by autoblinking microscopy. <i>Scientific Reports</i> , 2018 , 8, 14038	4.9	6
13	Super-resolution fight club: A broad assessment of 2D & 3D single-molecule localization microscopy software		4
12	C11ORF24 is a novel type I membrane protein that cycles between the Golgi apparatus and the plasma membrane in Rab6-positive vesicles. <i>PLoS ONE</i> , 2013 , 8, e82223	3.7	3
11	SpineJ : A software tool for quantitative analysis of nanoscale spine morphology		3
10	Mammalian Amoeboid Swimming is propelled by molecular and not protrusion-based paddling in Lymphocytes		2
9	High content 3D imaging method for quantitative characterization of organoid development and phenotype		2
8	Special Section Guest Editorial: Super-resolution microscopy of neural structure and function. <i>Neurophotonics</i> , 2016 , 3, 041801	3.9	2
7	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions		1
6	Specific nanoscale synaptic reshuffling and control of short-term plasticity following NMDAR- and P2XR-dependent Long-Term Depression		1
5	Hunting Down HIV-1 Gag Proteins at the Plasma Membrane of Human T Lymphocytes. <i>AIDS Research and Human Retroviruses</i> , 2016 , 32, 658-9	1.6	1
4	The adaptor protein APS modulates BCR signalling in mature B cells. <i>Cellular Signalling</i> , 2020 , 73, 109673	4.9	
3	Exchange Dynamics of Dynamin Measured in Living Cells During Endocytic Vesicle Formation. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1240-1241	0.5	
2	Robust polarity establishment occurs via an endocytosis-based cortical corralling mechanism. <i>Journal of General Physiology</i> , 2013 , 141, i6-i6	3.4	
1	Receptor tyrosine kinase MET ligand-interaction classified via machine learning from single-particle tracking data.. <i>Molecular Biology of the Cell</i> , 2022 , mbce21100496	3.5	