

# Christophe Leterrier

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59  
papers

2,389  
citations

28  
h-index

48  
g-index

71  
ext. papers

3,331  
ext. citations

10  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
59	Constitutive endocytic cycle of the CB1 cannabinoid receptor. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 36013-21	5.4	178
58	Constitutive activation drives compartment-selective endocytosis and axonal targeting of type 1 cannabinoid receptors. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 3141-53	6.6	159
57	Quantitative mapping and minimization of super-resolution optical imaging artifacts. <i>Nature Methods</i> , <b>2018</b> , 15, 263-266	21.6	145
56	Nanoscale Architecture of the Axon Initial Segment Reveals an Organized and Robust Scaffold. <i>Cell Reports</i> , <b>2015</b> , 13, 2781-93	10.6	134
55	Protein kinase CK2 contributes to the organization of sodium channels in axonal membranes by regulating their interactions with ankyrin G. <i>Journal of Cell Biology</i> , <b>2008</b> , 183, 1101-14	7.3	132
54	A dynamic formin-dependent deep F-actin network in axons. <i>Journal of Cell Biology</i> , <b>2015</b> , 210, 401-17	7.3	119
53	The Axon Initial Segment: An Updated Viewpoint. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 2135-2145	6.6	119
52	End-binding proteins EB3 and EB1 link microtubules to ankyrin G in the axon initial segment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 8826-31	11.5	103
51	The nano-architecture of the axonal cytoskeleton. <i>Nature Reviews Neuroscience</i> , <b>2017</b> , 18, 713-726	13.5	82
50	Democratising deep learning for microscopy with ZeroCostDL4Mic. <i>Nature Communications</i> , <b>2021</b> , 12, 2276	17.4	69
49	No Pasaran! Role of the axon initial segment in the regulation of protein transport and the maintenance of axonal identity. <i>Seminars in Cell and Developmental Biology</i> , <b>2014</b> , 27, 44-51	7.5	68
48	The type 1 cannabinoid receptor is highly expressed in embryonic cortical projection neurons and negatively regulates neurite growth in vitro. <i>European Journal of Neuroscience</i> , <b>2008</b> , 28, 1705-18	3.5	67
47	Ankyrin G restricts ion channel diffusion at the axonal initial segment before the establishment of the diffusion barrier. <i>Journal of Cell Biology</i> , <b>2010</b> , 191, 383-95	7.3	66
46	Voltage-gated sodium channel organization in neurons: protein interactions and trafficking pathways. <i>Neuroscience Letters</i> , <b>2010</b> , 486, 92-100	3.3	59
45	NanoJ: a high-performance open-source super-resolution microscopy toolbox. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 163001	3	58
44	Clathrin-dependent APP endocytosis and Abeta secretion are highly sensitive to the level of plasma membrane cholesterol. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2010</b> , 1801, 846-52	5	58
43	Ultrastructure of the axonal periodic scaffold reveals a braid-like organization of actin rings. <i>Nature Communications</i> , <b>2019</b> , 10, 5803	17.4	52

42	The Axon Initial Segment, 50Years Later: A Nexus for Neuronal Organization and Function. <i>Current Topics in Membranes</i> , <b>2016</b> , 77, 185-233	2.2	50
41	II Spectrin Forms a Periodic Cytoskeleton at the Axon Initial Segment and Is Required for Nervous System Function. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 11311-11322	6.6	49
40	Localized Myosin II Activity Regulates Assembly and Plasticity of the Axon Initial Segment. <i>Neuron</i> , <b>2018</b> , 97, 555-570.e6	13.9	49
39	An II Spectrin-Based Cytoskeleton Protects Large-Diameter Myelinated Axons from Degeneration. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 11323-11334	6.6	39
38	About samples, giving examples: Optimized Single Molecule Localization Microscopy. <i>Methods</i> , <b>2020</b> , 174, 100-114	4.6	37
37	The cell biologist's guide to super-resolution microscopy. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	36
36	Automating multimodal microscopy with NanoJ-Fluidics. <i>Nature Communications</i> , <b>2019</b> , 10, 1223	17.4	35
35	Determinants of voltage-gated sodium channel clustering in neurons. <i>Seminars in Cell and Developmental Biology</i> , <b>2011</b> , 22, 171-7	7.5	32
34	Ankyrin G Membrane Partners Drive the Establishment and Maintenance of the Axon Initial Segment. <i>Frontiers in Cellular Neuroscience</i> , <b>2017</b> , 11, 6	6.1	31
33	The functional architecture of axonal actin. <i>Molecular and Cellular Neurosciences</i> , <b>2018</b> , 91, 151-159	4.8	31
32	Mapping axon initial segment structure and function by multiplexed proximity biotinylation. <i>Nature Communications</i> , <b>2020</b> , 11, 100	17.4	30
31	CK2 accumulation at the axon initial segment depends on sodium channel Nav1. <i>FEBS Letters</i> , <b>2014</b> , 588, 3403-8	3.8	27
30	ZeroCostDL4Mic: an open platform to use Deep-Learning in Microscopy		24
29	Activation-dependent plasticity of polarized GPCR distribution on the neuronal surface. <i>Journal of Molecular Cell Biology</i> , <b>2013</b> , 5, 250-65	6.3	21
28	The somatostatin 2A receptor is enriched in migrating neurons during rat and human brain development and stimulates migration and axonal outgrowth. <i>PLoS ONE</i> , <b>2009</b> , 4, e5509	3.7	21
27	Self-repair protects microtubules from destruction by molecular motors. <i>Nature Materials</i> , <b>2021</b> , 20, 883-891	27	21
26	Stress fibres are embedded in a contractile cortical network. <i>Nature Materials</i> , <b>2021</b> , 20, 410-420	27	20
25	Developmental Changes in Expression of IV Spectrin Splice Variants at Axon Initial Segments and Nodes of Ranvier. <i>Frontiers in Cellular Neuroscience</i> , <b>2016</b> , 10, 304	6.1	19

24	Combining 3D single molecule localization strategies for reproducible bioimaging. <i>Nature Communications</i> , <b>2019</b> , 10, 1980	17.4	17
23	Processive flow by biased polymerization mediates the slow axonal transport of actin. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 112-124	7.3	17
22	Hsc70 chaperone activity is required for the cytosolic slow axonal transport of synapsin. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 2059-2074	7.3	16
21	Alternative splicing of clathrin heavy chain contributes to the switch from coated pits to plaques. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	13
20	Putting the axonal periodic scaffold in order. <i>Current Opinion in Neurobiology</i> , <b>2021</b> , 69, 33-40	7.6	12
19	Axonal targeting of the 5-HT1B serotonin receptor relies on structure-specific constitutive activation. <i>Traffic</i> , <b>2011</b> , 12, 1501-20	5.7	11
18	Self-repair protects microtubules from their destruction by molecular motors:		9
17	vLUME: 3D virtual reality for single-molecule localization microscopy. <i>Nature Methods</i> , <b>2020</b> , 17, 1097-1099	6	7
16	Ultrastructure of the axonal periodic scaffold reveals a braid-like organization of actin rings		6
15	Fast widefield scan provides tunable and uniform illumination optimizing super-resolution microscopy on large fields. <i>Nature Communications</i> , <b>2021</b> , 12, 3077	17.4	6
14	A Pictorial History of the Neuronal Cytoskeleton. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 11-27	6.6	6
13	Convergence of adenosine and GABA signaling for synapse stabilization during development. <i>Science</i> , <b>2021</b> , 374, eabk2055	33.3	5
12	NanoJ-SQUIRREL: quantitative mapping and minimisation of super-resolution optical imaging artefacts		5
11	A dual role for $\beta$ -spectrin in axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 15324-15326	11.5	4
10	Clathrin packets move in slow axonal transport and deliver functional payloads to synapses. <i>Neuron</i> , <b>2021</b> , 109, 2884-2901.e7	13.9	3
9	Ankyrin G membrane partners drive the establishment and maintenance of the axon initial segment		2
8	Fast scanned widefield scheme provides tunable and uniform illumination for optimized SMLM on large fields of view		2
7	NanoJ: a high-performance open-source super-resolution microscopy toolbox		2

6	Automating multimodal microscopy with NanoJ-Fluidics		1
5	GABA in, garbage out: AIS-located proteasomes regulate the developmental GABA switch. <i>Journal of Cell Biology</i> , 2020, 219,	73	1
4	vLUME: 3D Virtual Reality for Single-molecule Localization Microscopy		1
3	Stress fibers are embedded in a contractile cortical network		1
2	Mechanistic Determinants of Slow Axonal Transport and Presynaptic Targeting of Clathrin Packets		1
1	Combining 3D single molecule localization strategies for reproducible bioimaging		1