Christophe Leterrier

List of Publications by Year in Descending Order

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	Convergence of adenosine and GABA signaling for synapse stabilization during development. *Science*, **2021**, 374, eabk2055	33.3	5
58	Democratising deep learning for microscopy with ZeroCostDL4Mic. *Nature Communications*, **2021**, 12, 2276	17.4	69
57	Fast widefield scan provides tunable and uniform illumination optimizing super-resolution microscopy on large fields. *Nature Communications*, **2021**, 12, 3077	17.4	6
56	Stress fibres are embedded in a contractile cortical network. *Nature Materials*, **2021**, 20, 410-420	27	20
55	Self-repair protects microtubules from destruction by molecular motors. *Nature Materials*, **2021**, 20, 883-891	27	21
54	Putting the axonal periodic scaffold in order. *Current Opinion in Neurobiology*, **2021**, 69, 33-40	7.6	12
53	Clathrin packets move in slow axonal transport and deliver functional payloads to synapses. *Neuron* , **2021**, 109, 2884-2901.e7	13.9	3
52	A Pictorial History of the Neuronal Cytoskeleton. *Journal of Neuroscience*, **2021**, 41, 11-27	6.6	6
51	The cell biologist’s guide to super-resolution microscopy. *Journal of Cell Science*, **2020**, 133,	5.3	36
50	GABA in, garbage out: AIS-located proteasomes regulate the developmental GABA switch. *Journal of Cell Biology*, **2020**, 219,	7.3	1
49	Alternative splicing of clathrin heavy chain contributes to the switch from coated pits to plaques. *Journal of Cell Biology*, **2020**, 219,	7.3	13
48	Mapping axon initial segment structure and function by multiplexed proximity biotinylation. *Nature Communications*, **2020**, 11, 100	17.4	30
47	vLUME: 3D virtual reality for single-molecule localization microscopy. *Nature Methods*, **2020**, 17, 1097-1099	22.6	7
46	About samples, giving examples: Optimized Single Molecule Localization Microscopy. *Methods*, **2020**, 174, 100-114	4.6	37
45	NanoJ: a high-performance open-source super-resolution microscopy toolbox. *Journal Physics D: Applied Physics*, **2019**, 52, 163001	3	58
44	Combining 3D single molecule localization strategies for reproducible bioimaging. *Nature Communications*, **2019**, 10, 1980	17.4	17
43	Automating multimodal microscopy with NanoJ-Fluidics. *Nature Communications*, **2019**, 10, 1223	17.4	35

42	A dual role for □-spectrin in axons. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15324-15326	11.5	4
41	Ultrastructure of the axonal periodic scaffold reveals a braid-like organization of actin rings. *Nature Communications*, **2019**, 10, 5803	17.4	52
40	Processive flow by biased polymerization mediates the slow axonal transport of actin. *Journal of Cell Biology*, **2019**, 218, 112-124	7.3	17
39	Quantitative mapping and minimization of super-resolution optical imaging artifacts. *Nature Methods*, **2018**, 15, 263-266	21.6	145
38	Localized Myosin II Activity Regulates Assembly and Plasticity of the Axon Initial Segment. *Neuron*, **2018**, 97, 555-570.e6	13.9	49
37	The Axon Initial Segment: An Updated Viewpoint. *Journal of Neuroscience*, **2018**, 38, 2135-2145	6.6	119
36	The functional architecture of axonal actin. *Molecular and Cellular Neurosciences*, **2018**, 91, 151-159	4.8	31
35	Hsc70 chaperone activity is required for the cytosolic slow axonal transport of synapsin. *Journal of Cell Biology*, **2017**, 216, 2059-2074	7.3	16
34	An □ Spectrin-Based Cytoskeleton Protects Large-Diameter Myelinated Axons from Degeneration. *Journal of Neuroscience*, **2017**, 37, 11323-11334	6.6	39
33	□ Spectrin Forms a Periodic Cytoskeleton at the Axon Initial Segment and Is Required for Nervous System Function. *Journal of Neuroscience*, **2017**, 37, 11311-11322	6.6	49
32	The nano-architecture of the axonal cytoskeleton. *Nature Reviews Neuroscience*, **2017**, 18, 713-726	13.5	82
31	Ankyrin G Membrane Partners Drive the Establishment and Maintenance of the Axon Initial Segment. *Frontiers in Cellular Neuroscience*, **2017**, 11, 6	6.1	31
30	Developmental Changes in Expression of □V Spectrin Splice Variants at Axon Initial Segments and Nodes of Ranvier. *Frontiers in Cellular Neuroscience*, **2016**, 10, 304	6.1	19
29	The Axon Initial Segment, 50Years Later: A Nexus for□Neuronal Organization and Function. *Current Topics in Membranes*, **2016**, 77, 185-233	2.2	50
28	A dynamic formin-dependent deep F-actin network in axons. *Journal of Cell Biology*, **2015**, 210, 401-17	7.3	119
27	Nanoscale Architecture of the Axon Initial Segment Reveals an Organized and Robust Scaffold. *Cell Reports*, **2015**, 13, 2781-93	10.6	134
26	CK2 accumulation at the axon initial segment depends on sodium channel Nav1. *FEBS Letters*, **2014**, 588, 3403-8	3.8	27
25	No Pasaran! Role of the axon initial segment in the regulation of protein transport and the maintenance of axonal identity. *Seminars in Cell and Developmental Biology*, **2014**, 27, 44-51	7.5	68

24	Activation-dependent plasticity of polarized GPCR distribution on the neuronal surface. *Journal of Molecular Cell Biology*, **2013**, 5, 250-65	6.3	21
23	Determinants of voltage-gated sodium channel clustering in neurons. *Seminars in Cell and Developmental Biology*, **2011**, 22, 171-7	7.5	32
22	Axonal targeting of the 5-HT1B serotonin receptor relies on structure-specific constitutive activation. *Traffic*, **2011**, 12, 1501-20	5.7	11
21	End-binding proteins EB3 and EB1 link microtubules to ankyrin G in the axon initial segment. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 8826-31	11.5	103
20	Ankyrin G restricts ion channel diffusion at the axonal initial segment before the establishment of the diffusion barrier. *Journal of Cell Biology*, **2010**, 191, 383-95	7.3	66
19	Voltage-gated sodium channel organization in neurons: protein interactions and trafficking pathways. *Neuroscience Letters*, **2010**, 486, 92-100	3.3	59
18	Clathrin-dependent APP endocytosis and Abeta secretion are highly sensitive to the level of plasma membrane cholesterol. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2010**, 1801, 846-52	5	58
17	The somatostatin 2A receptor is enriched in migrating neurons during rat and human brain development and stimulates migration and axonal outgrowth. *PLoS ONE*, **2009**, 4, e5509	3.7	21
16	The type 1 cannabinoid receptor is highly expressed in embryonic cortical projection neurons and negatively regulates neurite growth in vitro. *European Journal of Neuroscience*, **2008**, 28, 1705-18	3.5	67
15	Protein kinase CK2 contributes to the organization of sodium channels in axonal membranes by regulating their interactions with ankyrin G. *Journal of Cell Biology*, **2008**, 183, 1101-14	7.3	132
14	Constitutive activation drives compartment-selective endocytosis and axonal targeting of type 1 cannabinoid receptors. *Journal of Neuroscience*, **2006**, 26, 3141-53	6.6	159
13	Constitutive endocytic cycle of the CB1 cannabinoid receptor. *Journal of Biological Chemistry*, **2004**, 279, 36013-21	5.4	178
12	Automating multimodal microscopy with NanoJ-Fluidics		1
11	Ankyrin G membrane partners drive the establishment and maintenance of the axon initial segment		2
10	NanoJ-SQUIRREL: quantitative mapping and minimisation of super-resolution optical imaging artefacts		5
9	vLUME: 3D Virtual Reality for Single-molecule Localization Microscopy		1
8	Stress fibers are embedded in a contractile cortical network		1
7	Mechanistic Determinants of Slow Axonal Transport and Presynaptic Targeting of Clathrin Packets		1

6	ZeroCostDL4Mic: an open platform to use Deep-Learning in Microscopy	24
5	Fast scanned widefield scheme provides tunable and uniform illumination for optimized SMLM on large fields of view	2
4	Combining 3D single molecule localization strategies for reproducible bioimaging	1
3	NanoJ: a high-performance open-source super-resolution microscopy toolbox	2
2	Self-repair protects microtubules from their destruction by molecular motors:	9
1	Ultrastructure of the axonal periodic scaffold reveals a braid-like organization of actin rings	6