

# Christophe GuÃ©rin

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,326  
citations

394421

19  
h-index

580821

25  
g-index

29  
all docs

29  
docs citations

29  
times ranked

2548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Actin Network Architecture Can Determine Myosin Motor Activity. <i>Science</i> , 2012, 336, 1310-1314.	12.6	281
2	Architecture and Connectivity Govern Actin Network Contractility. <i>Current Biology</i> , 2016, 26, 616-626.	3.9	221
3	The centrosome is an actin-organizing centre. <i>Nature Cell Biology</i> , 2016, 18, 65-75.	10.3	206
4	Cofilin Tunes the Nucleotide State of Actin Filaments and Severs at Bare and Decorated Segment Boundaries. <i>Current Biology</i> , 2011, 21, 862-868.	3.9	192
5	The Formin Homology 1 Domain Modulates the Actin Nucleation and Bundling Activity of Arabidopsis FORMIN1. <i>Plant Cell</i> , 2005, 17, 2296-2313.	6.6	169
6	Plant formin AtFH5 is an evolutionarily conserved actin nucleator involved in cytokinesis. <i>Nature Cell Biology</i> , 2005, 7, 374-380.	10.3	167
7	Rapid formin-mediated actin-filament elongation is essential for polarized plant cell growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13341-13346.	7.1	158
8	Actin-Filament Stochastic Dynamics Mediated by ADF/Cofilin. <i>Current Biology</i> , 2007, 17, 825-833.	3.9	151
9	A "Primer"-Based Mechanism Underlies Branched Actin Filament Network Formation and Motility. <i>Current Biology</i> , 2010, 20, 423-428.	3.9	117
10	Architecture Dependence of Actin Filament Network Disassembly. <i>Current Biology</i> , 2015, 25, 1437-1447.	3.9	104
11	A Novel Mechanism for the Formation of Actin-Filament Bundles by a Nonprocessive Formin. <i>Current Biology</i> , 2006, 16, 1924-1930.	3.9	97
12	Actin filaments regulate microtubule growth at the centrosome. <i>EMBO Journal</i> , 2019, 38, .	7.8	82
13	Identification of Arabidopsis Cyclase-associated Protein 1 as the First Nucleotide Exchange Factor for Plant Actin. <i>Molecular Biology of the Cell</i> , 2007, 18, 3002-3014.	2.1	74
14	WAVE binds Ena/VASP for enhanced Arp2/3 complex-based actin assembly. <i>Molecular Biology of the Cell</i> , 2015, 26, 55-65.	2.1	58
15	Fabrication of three-dimensional electrical connections by means of directed actin self-organization. <i>Nature Materials</i> , 2013, 12, 416-421.	27.5	55
16	Turnover of branched actin filament networks by stochastic fragmentation with ADF/cofilin. <i>Molecular Biology of the Cell</i> , 2011, 22, 2541-2550.	2.1	50
17	Homogenization for Periodical Electromagnetic Structure: Which Formulation?. <i>IEEE Transactions on Magnetism</i> , 2010, 46, 3409-3412.	2.1	30
18	Network heterogeneity regulates steering in actin-based motility. <i>Nature Communications</i> , 2017, 8, 655.	12.8	30

#	ARTICLE	IF	CITATIONS
19	A key function for microtubule-associated-protein 6 in activity-dependent stabilisation of actin filaments in dendritic spines. Nature Communications, 2018, 9, 3775.	12.8	30
20	Quantitative regulation of the dynamic steady state of actin networks. ELife, 2019, 8, .	6.0	16
21	Geometrical Control of Actin Assembly and Contractility. Methods in Cell Biology, 2014, 120, 19-38.	1.1	13
22	A current transformer modeling. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2002, 21, 505-511.	0.9	7
23	Directed Actin Assembly and Motility. Methods in Enzymology, 2014, 540, 283-300.	1.0	7
24	Circuit-Coupled $\{f t\}_{0} \text{hbox } \{-\} \phi$ Formulation With Surface Impedance Condition. IEEE Transactions on Magnetics, 2008, 44, 730-733.	2.1	6
25	2D and 3D homogenization of laminated cores in the frequency domain. EPJ Applied Physics, 2013, 64, 24517.	0.7	1