Pirta Hotulainen

List of Publications by Year
in descending order

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43	4,215	279798	289244
papers	citations	23 h-index	40 g-index

45	45	45	5648
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stress fibers are generated by two distinct actin assembly mechanisms in motile cells. Journal of Cell Biology, 2006, 173, 383-394.	5.2	784
2	Actin in dendritic spines: connecting dynamics to function. Journal of Cell Biology, 2010, 189, 619-629.	5.2	691
3	Actin-depolymerizing Factor and Cofilin-1 Play Overlapping Roles in Promoting Rapid F-Actin Depolymerization in Mammalian Nonmuscle Cells. Molecular Biology of the Cell, 2005, 16, 649-664.	2.1	338
4	Defining mechanisms of actin polymerization and depolymerization during dendritic spine morphogenesis. Journal of Cell Biology, 2009, 185, 323-339.	5.2	305
5	Mutations in the nebulin gene associated with autosomal recessive nemaline myopathy. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 2305-2310.	7.1	304
6	A Molecular Pathway for Myosin II Recruitment to Stress Fibers. Current Biology, 2011, 21, 539-550.	3.9	235
7	Mechanisms of actin stress fibre assembly. Journal of Microscopy, 2008, 231, 446-454.	1.8	195
8	Cyclase-associated Protein 1 (CAP1) Promotes Cofilin-induced Actin Dynamics in Mammalian Nonmuscle Cells. Molecular Biology of the Cell, 2004, 15, 2324-2334.	2.1	189
9	An action plan for pan-European defence against new SARS-CoV-2 variants. Lancet, The, 2021, 397, 469-470.	13.7	101
10	Contractility-dependent actin dynamics in cardiomyocyte sarcomeres. Journal of Cell Science, 2009, 122, 2119-2126.	2.0	98
11	KCC2 regulates actin dynamics in dendritic spines via interaction with Î²-PIX. Journal of Cell Biology, 2015, 209, 671-686.	5.2	97
12	Clinical and genetic heterogeneity in autosomal recessive nemaline myopathy. Neuromuscular Disorders, 1999, 9, 564-572.	0.6	84
13	MIM-Induced Membrane Bending Promotes Dendritic Spine Initiation. Developmental Cell, 2015, 33, 644-659.	7.0	84
14	Dendritic spine actin dynamics in neuronal maturation and synaptic plasticity. Cytoskeleton, 2016, 73, 435-441.	2.0	84
15	A look into the future of the COVID-19 pandemic in Europe: an expert consultation. Lancet Regional Health - Europe, The, 2021, 8, 100185.	5.6	72
16	Dendritic spine actin cytoskeleton in autism spectrum disorder. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2018, 84, 362-381.	4.8	58
17	Myosin IIb controls actin dynamics underlying the dendritic spine maturation. Molecular and Cellular Neurosciences, 2014, 61, 56-64.	2.2	51
18	Measuring F-actin properties in dendritic spines. Frontiers in Neuroanatomy, 2014, 8, 74.	1.7	44

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19	SWAP-70 Identifies a Transitional Subset of Actin Filaments in Motile Cells. Molecular Biology of the Cell, 2003, 14, 3242-3253.	2.1	39
20	Longitudinal two-photon imaging in somatosensory cortex of behaving mice reveals dendritic spine formation enhancement by subchronic administration of low-dose ketamine. Scientific Reports, 2018, 8, 6464.	3.3	36
21	Towards a European strategy to address the COVID-19 pandemic. Lancet, The, 2021, 398, 838-839.	13.7	36
22	Actin Tyrosine-53-Phosphorylation in Neuronal Maturation and Synaptic Plasticity. Journal of Neuroscience, 2016, 36, 5299-5313.	3.6	35
23	DHCR24 exerts neuroprotection upon inflammation-induced neuronal death. Journal of Neuroinflammation, 2017, 14, 215.	7.2	34
24	Methods to Measure Actin Treadmilling Rate in Dendritic Spines. Methods in Enzymology, 2012, 505, 47-58.	1.0	26
25	New waves in dendritic spine actin cytoskeleton: From branches and bundles to rings, from actin binding proteins to post-translational modifications. Molecular and Cellular Neurosciences, 2017, 84, 77-84.	2.2	25
26	Tropomyosin Tpm3.1 Is Required to Maintain the Structure and Function of the Axon Initial Segment. IScience, 2020, 23, 101053.	4.1	21
27	Dendritic Spine Initiation in Brain Development, Learning and Diseases and Impact of BAR-Domain Proteins. Cells, 2021, 10, 2392.	4.1	21
28	ASD-Associated De Novo Mutations in Five Actin Regulators Show Both Shared and Distinct Defects in Dendritic Spines and Inhibitory Synapses in Cultured Hippocampal Neurons. Frontiers in Cellular Neuroscience, 2018, 12, 217.	3.7	20
29	Functional role for the class IX myosin myr5 in epithelial cell infection by Shigella flexneri. Cellular Microbiology, 2000, 2, 601-616.	2.1	18
30	Characterization of the interaction between Actinin-Associated LIM Protein (ALP) and the rod domain of Î±-actinin. BMC Cell Biology, 2009, 10, 22.	3.0	17
31	Methods for Three-Dimensional Analysis of Dendritic Spine Dynamics. Methods in Enzymology, 2012, 506, 391-406.	1.0	14
32	MIM-Deficient Mice Exhibit Anatomical Changes in Dendritic Spines, Cortex Volume and Brain Ventricles, and Functional Changes in Motor Coordination and Learning. Frontiers in Molecular Neuroscience, 2019, 12, 276.	2.9	14
33	Sub-membranous actin rings in the axon initial segment are resistant to the action of latrunculin. Biological Chemistry, 2019, 400, 1141-1146.	2.5	13
34	Protrudin regulates FAK activation, endothelial cell migration and angiogenesis. Cellular and Molecular Life Sciences, 2022, 79, 220.	5.4	7
35	Chemical LTD, but not LTP, induces transient accumulation of gelsolin in dendritic spines. Biological Chemistry, 2019, 400, 1129-1139.	2.5	5
36	Carbonic anhydrase seven bundles filamentous actin and regulates dendritic spine morphology and density. EMBO Reports, 2021, 22, e50145.	4.5	5

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37	The axonal radial contractility: Structural basis underlying a new form of neural plasticity. BioEssays, 2021, 43, e2100033.	2.5	5
38	The initiation of post-synaptic protrusions. Communicative and Integrative Biology, 2016, 9, e1125053.	1.4	3
39	Cytoskeletal Organization: Actin. , 2016, , 9-29.		2
40	Actin in dendritic spines: connecting dynamics to function. Journal of Experimental Medicine, 2010, 207, i18-i18.	8.5	2
41	NuMA1 facilitates the assembly of the axon initial segment by promoting the retention of neurofascin-186. Journal of Cell Biology, 2020, 219, .	5.2	1
42	Regulation of the Actin Cytoskeleton by Phospholipids. Advances in Molecular and Cell Biology, 2006, 37, 201-219.	0.1	0
43	KCC2 regulates actin dynamics in dendritic spines via interaction with Î²-PIX. Journal of Experimental Medicine, 2015, 212, 2127OIA56.	8.5	0