

Paul Forscher

List of Publications by Year in descending order

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38
papers

5,230
citations

185998

28
h-index

329751

37
g-index

40
all docs

40
docs citations

40
times ranked

4482
citing authors

#	ARTICLE	IF	CITATIONS
1	Conserved microtubule-actin interactions in cell movement and morphogenesis. <i>Nature Cell Biology</i> , 2003, 5, 599-609.	4.6	794
2	Myosin II functions in actin-bundle turnover in neuronal growth cones. <i>Nature Cell Biology</i> , 2006, 8, 216-226.	4.6	440
3	Filopodia and actin arcs guide the assembly and transport of two populations of microtubules with unique dynamic parameters in neuronal growth cones. <i>Journal of Cell Biology</i> , 2002, 158, 139-152.	2.3	396
4	A diffusion barrier maintains distribution of membrane proteins in polarized neurons. <i>Nature</i> , 1999, 397, 698-701.	13.7	383
5	Growth cone advance is inversely proportional to retrograde F-actin flow. <i>Neuron</i> , 1995, 14, 763-771.	3.8	352
6	Substrate-cytoskeletal coupling as a mechanism for the regulation of growth cone motility and guidance. <i>Journal of Neurobiology</i> , 2000, 44, 97-113.	3.7	315
7	The Ig Superfamily Cell Adhesion Molecule, apCAM, Mediates Growth Cone Steering by Substrate-Cytoskeletal Coupling. <i>Journal of Cell Biology</i> , 1998, 141, 227-240.	2.3	201
8	Coordination of Actin Filament and Microtubule Dynamics during Neurite Outgrowth. <i>Developmental Cell</i> , 2008, 15, 146-162.	3.1	199
9	Intraflagellar Transport Is Required for the Vectorial Movement of TRPV Channels in the Ciliary Membrane. <i>Current Biology</i> , 2005, 15, 1695-1699.	1.8	183
10	Cytoskeletal reorganization underlying growth cone motility. <i>Current Opinion in Neurobiology</i> , 1994, 4, 640-647.	2.0	164
11	An emerging link between cytoskeletal dynamics and cell adhesion molecules in growth cone guidance. <i>Current Opinion in Neurobiology</i> , 1998, 8, 106-116.	2.0	154
12	Calcium and polyphosphoinositide control of cytoskeletal dynamics. <i>Trends in Neurosciences</i> , 1989, 12, 468-474.	4.2	153
13	Novel form of growth cone motility involving site-directed actin filament assembly. <i>Nature</i> , 1992, 357, 515-518.	13.7	151
14	Rho-Dependent Contractile Responses in the Neuronal Growth Cone Are Independent of Classical Peripheral Retrograde Actin Flow. <i>Neuron</i> , 2003, 40, 931-944.	3.8	148
15	Arp2/3 complex-dependent actin networks constrain myosin II function in driving retrograde actin flow. <i>Journal of Cell Biology</i> , 2012, 197, 939-956.	2.3	140
16	Transmission of growth cone traction force through apCAM-cytoskeletal linkages is regulated by Src family tyrosine kinase activity. <i>Journal of Cell Biology</i> , 2001, 155, 427-438.	2.3	111
17	Myosin II Activity Facilitates Microtubule Bundling in the Neuronal Growth Cone Neck. <i>Developmental Cell</i> , 2008, 15, 163-169.	3.1	110
18	Microtubule Dynamics Are Necessary for Src Family Kinase-Dependent Growth Cone Steering. <i>Current Biology</i> , 2004, 14, 1194-1199.	1.8	106

#	ARTICLE	IF	CITATIONS
19	Protein Kinase C Activation Promotes Microtubule Advance in Neuronal Growth Cones by Increasing Average Microtubule Growth Lifetimes. <i>Journal of Cell Biology</i> , 2001, 152, 1033-1044.	2.3	93
20	Filopodial actin bundles are not necessary for microtubule advance into the peripheral domain of <i>Aplysia</i> neuronal growth cones. <i>Nature Cell Biology</i> , 2007, 9, 1360-1369.	4.6	82
21	Membrane Tension, Myosin Force, and Actin Turnover Maintain Actin Treadmill in the Nerve Growth Cone. <i>Biophysical Journal</i> , 2012, 102, 1503-1513.	0.2	68
22	The Role of Actin Turnover in Retrograde Actin Network Flow in Neuronal Growth Cones. <i>PLoS ONE</i> , 2012, 7, e30959.	1.1	60
23	Kv3.3 Channels Bind Hax-1 and Arp2/3 to Assemble a Stable Local Actin Network that Regulates Channel Gating. <i>Cell</i> , 2016, 165, 434-448.	13.5	57
24	Multiplexed force measurements on live cells with holographic optical tweezers. <i>Optics Express</i> , 2009, 17, 6209.	1.7	56
25	Localization of unconventional myosins V and VI in neuronal growth cones. <i>Journal of Neurobiology</i> , 2000, 42, 370-382.	3.7	54
26	Dynamic peripheral traction forces balance stable neurite tension in regenerating <i>Aplysia</i> bag cell neurons. <i>Scientific Reports</i> , 2014, 4, 4961.	1.6	39
27	Binding of Protein Kinase C Isoforms to Actin in <i>Aplysia</i> . <i>Journal of Neurochemistry</i> , 1998, 71, 1221-1231.	2.1	38
28	Calcineurin-dependent cofilin activation and increased retrograde actin flow drive 5-HT-dependent neurite outgrowth in <i>Aplysia</i> bag cell neurons. <i>Molecular Biology of the Cell</i> , 2012, 23, 4833-4848.	0.9	31
29	Protein Kinase C Isoforms Are Translocated to Microtubules in Neurons. <i>Journal of Biological Chemistry</i> , 2002, 277, 40633-40639.	1.6	26
30	Rac1 Modulates Stimulus-evoked Ca^{2+} Release in Neuronal Growth Cones via Parallel Effects on Microtubule/Endoplasmic Reticulum Dynamics and Reactive Oxygen Species Production. <i>Molecular Biology of the Cell</i> , 2009, 20, 3700-3712.	0.9	24
31	Regulation of axon growth by myosin II-dependent mechanocatalysis of cofilin activity. <i>Journal of Cell Biology</i> , 2019, 218, 2329-2349.	2.3	23
32	Protein kinase C activation decreases peripheral actin network density and increases central nonmuscle myosin II contractility in neuronal growth cones. <i>Molecular Biology of the Cell</i> , 2013, 24, 3097-3114.	0.9	22
33	In vitro motilities of the unconventional myosins, brush border myosin-I, and chick brain myosin-V exhibit assay-dependent differences in velocity. <i>The Journal of Experimental Zoology</i> , 1993, 267, 33-39.	1.4	21
34	Elastic Coupling of Nascent apCAM Adhesions to Flowing Actin Networks. <i>PLoS ONE</i> , 2013, 8, e73389.	1.1	15
35	Regeneration of <i>Aplysia</i> Bag Cell Neurons is Synergistically Enhanced by Substrate-Bound Hemolymph Proteins and Laminin. <i>Scientific Reports</i> , 2014, 4, 4617.	1.6	8
36	Local Arp2/3-dependent actin assembly modulates applied traction force during apCAM adhesion site maturation. <i>Molecular Biology of the Cell</i> , 2017, 28, 98-110.	0.9	8

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37	Substrate-cytoskeletal coupling as a mechanism for the regulation of growth cone motility and guidance. <i>Journal of Neurobiology</i> , 2000, 44, 97.	3.7	5
38	Cytoskeletal reorganization underlying growth cone motility. <i>Current Opinion in Neurobiology</i> , 1995, 5, 112.	2.0	0