James R Bamburg

List of Publications by Year
in descending order

63 papers	7,114 citations	76326 40 h-index	118850 62 g-index
95 all docs	95 docs citations	95 times ranked	6462 citing authors

#	Article	IF	Citations
1	Direct interaction of HIV gp120 with neuronal CXCR4 and CCR5 receptors induces cofilin-actin rod pathology via a cellular prion protein- and NOX-dependent mechanism. PLoS ONE, 2021, 16, e0248309.	2.5	15
2	Cofilin and Actin Dynamics: Multiple Modes of Regulation and Their Impacts in Neuronal Development and Degeneration. Cells, 2021, 10, 2726.	4.1	49
3	Lamin A/C deficiency enables increased myosin-II bipolar filament ensembles that promote divergent actomyosin network anomalies through self-organization. Molecular Biology of the Cell, 2020, 31, 2363-2378.	2.1	11
4	HIV Associated Neurodegenerative Disorders: A New Perspective on the Role of Lipid Rafts in Gp120-Mediated Neurotoxicity. Current HIV Research, 2019, 16, 258-269.	0.5	21
5	Cephalostatin 1 analogues activate apoptosis via the endoplasmic reticulum stress signaling pathway. European Journal of Pharmacology, 2018, 818, 400-409.	3.5	15
6	Cofilin-actin rod formation in neuronal processes after brain ischemia. PLoS ONE, 2018, 13, e0198709.	2.5	24
7	Cofilin Regulates Nuclear Architecture through a Myosin-II Dependent Mechanotransduction Module. Scientific Reports, 2017, 7, 40953.	3.3	44
8	Peptide regulation of cofilin activity in the CNS: A novel therapeutic approach for treatment of multiple neurological disorders. , 2017, 175, 17-27.		43
9	Modified Roller Tube Method for Precisely Localized and Repetitive Intermittent Imaging During Long-term Culture of Brain Slices in an Enclosed System. Journal of Visualized Experiments, 2017, , .	0.3	2
10	Actin dynamics and cofilinâ€actin rods in alzheimer disease. Cytoskeleton, 2016, 73, 477-497.	2.0	132
11	Translation of Pre-Clinical Studies into Successful Clinical Trials for Alzheimerâ€™s Disease: What are the Roadblocks and How Can They Be Overcome?1. Journal of Alzheimer's Disease, 2015, 47, 815-843.	2.6	84
12	Cofilin-2 Phosphorylation and Sequestration in Myocardial Aggregates. Journal of the American College of Cardiology, 2015, 65, 1199-1214.	2.8	62
13	Amyloid-Î² and Proinflammatory Cytokines Utilize a Prion Protein-Dependent Pathway to Activate NADPH Oxidase and Induce Cofilin-Actin Rods in Hippocampal Neurons. PLoS ONE, 2014, 9, e95995.	2.5	58
14	Non-overlapping activities of ADF and cofilin-1 during the migration of metastatic breast tumor cells. BMC Cell Biology, 2013, 14, 45.	3.0	45
15	A Genetically Encoded Reporter for Real-Time Imaging of Cofilin-Actin Rods in Living Neurons. PLoS ONE, 2013, 8, e83609.	2.5	22
16	Incorporation of Cofilin into Rods Depends on Disulfide Intermolecular Bonds: Implications for Actin Regulation and Neurodegenerative Disease. Journal of Neuroscience, 2012, 32, 6670-6681.	3.6	66
17	ADF/Cofilin Regulates Actomyosin Assembly through Competitive Inhibition of Myosin II Binding to F-Actin. Developmental Cell, 2012, 22, 530-543.	7.0	94
18	ADF/Cofilin-Mediated Actin Retrograde Flow Directs Neurite Formation in the Developing Brain. Neuron, 2012, 76, 1091-1107.	8.1	198

#	Article	IF	Citations
19	Mutant huntingtin causes defective actin remodeling during stress: defining a new role for transglutaminase 2 in neurodegenerative disease. Human Molecular Genetics, 2011, 20, 1937-1951.	2.9	121
20	Listeria monocytogenes cell invasion: a new role for cofilin in coâ€ordinating actin dynamics and membrane lipids. Molecular Microbiology, 2011, 81, 851-854.	2.5	7
21	Amyloid beta dimers/trimers potently induce cofilin-actin rods that are inhibited by maintaining cofilin-phosphorylation. Molecular Neurodegeneration, 2011, 6, 10.	10.8	77
22	Actin and Diseases of the Nervous System. Advances in Neurobiology, 2011, 5, 201-234.	1.8	6
23	Rapid Changes in Phospho-MAP/Tau Epitopes during Neuronal Stress: Cofilin-Actin Rods Primarily Recruit Microtubule Binding Domain Epitopes. PLoS ONE, 2011, 6, e20878.	2.5	26
24	ADF/Cofilin: a functional node in cell biology. Trends in Cell Biology, 2010, 20, 187-195.	7.9	617
25	Activation of ADF/cofilin mediates attractive growth cone turning toward nerve growth factor and netrinâ€1. Developmental Neurobiology, 2010, 70, 565-588.	3.0	71
26	ADF/cofilin-mediated actin dynamics regulate AMPA receptor trafficking during synaptic plasticity. Nature Neuroscience, 2010, 13, 1208-1215.	14.8	275
27	Isolation and Characterization of Cytoplasmic Cofilin-Actin Rods. Journal of Biological Chemistry, 2010, 285, 5450-5460.	3.4	66
28	Roles of ADF/cofilin in actin polymerization and beyond. F1000 Biology Reports, 2010, 2, 62.	4.0	137
29	Mapping Cofilin-Actin Rods in Stressed Hippocampal Slices and the Role of cdc42 in Amyloid-Î²-Induced Rods. Journal of Alzheimer's Disease, 2009, 18, 35-50.	2.6	58
30	Activated Actin-Depolymerizing Factor/Cofilin Sequesters Phosphorylated Microtubule-Associated Protein during the Assembly of Alzheimer-Like Neuritic Cytoskeletal Striations. Journal of Neuroscience, 2009, 29, 12994-13005.	3.6	84
31	Cytoskeletal pathologies of Alzheimer disease. Cytoskeleton, 2009, 66, 635-649.	4.4	152
32	Growth coneâ€like waves transport actin and promote axonogenesis and neurite branching. Developmental Neurobiology, 2009, 69, 761-779.	3.0	127
33	ADF/Cofilin. Current Biology, 2008, 18, R273-R275.	3.9	50
34	Chronophin Mediates an ATP-Sensing Mechanism for Cofilin Dephosphorylation and Neuronal Cofilin-Actin Rod Formation. Developmental Cell, 2008, 15, 691-703.	7.0	85
35	BMP gradients steer nerve growth cones by a balancing act of LIM kinase and Slingshot phosphatase on ADF/cofilin. Journal of Cell Biology, 2007, 178, 107-119.	5.2	166
36	Mechanisms underlying intranuclear rod formation. Brain, 2007, 130, 3275-3284.	7.6	63

#	Article	IF	Citations
37	Cdc42 Regulates Cofilin during the Establishment of Neuronal Polarity. Journal of Neuroscience, 2007, 27, 13117-13129.	3.6	235
38	Cofilin-mediated neurodegeneration in alzheimerâ€™s disease and other amyloidopathies. Molecular Neurobiology, 2007, 35, 21-43.	4.0	10
39	Formation of actin-ADF/cofilin rods transiently retards decline of mitochondrial potential and ATP in stressed neurons. American Journal of Physiology - Cell Physiology, 2006, 291, C828-C839.	4.6	109
40	Interplay between components of a novel LIM kinaseâ€“slingshot phosphatase complex regulates cofilin. EMBO Journal, 2005, 24, 473-486.	7.8	265
41	Â-Secretase-Cleaved Amyloid Precursor Protein Accumulates at Actin Inclusions Induced in Neurons by Stress or Amyloid Â: A Feedforward Mechanism for Alzheimer's Disease. Journal of Neuroscience, 2005, 25, 11313-11321.	3.6	125
42	In Vitro Activity Differences between Proteins of the ADF/Cofilin Family Define Two Distinct Subgroupsâ€. Biochemistry, 2004, 43, 7127-7142.	2.5	79
43	Introduction to Cytoskeletal Dynamics and Pathfinding of Neuronal Growth Cones. Journal of Histochemistry and Cytochemistry, 2003, 51, 407-409.	2.5	12
44	ADF/cofilin and actin dynamics in disease. Trends in Cell Biology, 2002, 12, 598-605.	7.9	251
45	Slow Axonal Transport of Soluble Actin with Actin Depolymerizing Factor, Cofilin, and Profilin Suggests Actin Moves in an Unassembled Form. Journal of Neurochemistry, 2002, 67, 1225-1234.	3.9	27
46	Ischemic injury induces ADF relocalization to the apical domain of rat proximal tubule cells. American Journal of Physiology - Renal Physiology, 2001, 280, F886-F894.	2.7	52
47	Calcium-dependent regulation of interactions of caldesmon with calcium-binding proteins found in growth cones of chick forebrain neurons. Cellular and Molecular Neurobiology, 2001, 21, 437-451.	3.3	3
48	Sperm incorporation in Xenopus laevis: characterisation of morphological events and the role of microfilaments. Zygote, 2001, 9, 167-181.	1.1	12
49	Cdc42 stimulates neurite outgrowth and formation of growth cone filopodia and lamellipodia. Journal of Neurobiology, 2000, 43, 352-364.	3.6	95
50	Regulating actin dynamics in neuronal growth cones by ADF/cofilin and Rho family GTPases. Journal of Neurobiology, 2000, 44, 126-144.	3.6	163
51	Neurodegenerative stimuli induce persistent ADF/cofilinâ€“actin rods that disrupt distal neurite function. Nature Cell Biology, 2000, 2, 628-636.	10.3	338
52	Regulating actin dynamics in neuronal growth cones by ADF/cofilin and Rho family GTPases. Journal of Neurobiology, 2000, 44, 126.	3.6	1
53	Neuronal survival activity of S100Î²Î² is enhanced by calcineurin inhibitors and requires activation of NFâ€ºB. FASEB Journal, 1999, 13, 1611-1620.	0.5	49
54	Axonal microtubules stay put. Nature Cell Biology, 1999, 1, E171-E173.	10.3	7

#	Article	IF	Citations
55	Cotransport of glyceraldehyde-3-phosphate dehydrogenase and actin in axons of chicken motoneurons. Cellular and Molecular Neurobiology, 1999, 19, 733-744.	3.3	28
56	Proteins of the ADF/Cofilin Family: Essential Regulators of Actin Dynamics. Annual Review of Cell and Developmental Biology, 1999, 15, 185-230.	9.4	913
57	Actin depolymerizing factor and cofilin phosphorylation dynamics: Response to signals that regulate neurite extension. , 1998, 39, 172-190.		224
58	Rac1-dependent actin filament organization in growth cones is necessary for ?1-integrin-mediated advance but not for growth on poly-D-lysine. Journal of Neurobiology, 1998, 37, 524-540.	3.6	82
59	Xenopus Actin Depolymerizing Factor/Cofilin (XAC) Is Responsible for the Turnover of Actin Filaments in Listeria monocytogenes Tails. Journal of Cell Biology, 1997, 136, 1323-1332.	5.2	219
60	Differential Regulation of Actin Depolymerizing Factor and Cofilin in Response to Alterations in the Actin Monomer Pool. Journal of Biological Chemistry, 1997, 272, 8303-8309.	3.4	44
61	Reactivation of Phosphorylated Actin Depolymerizing Factor and Identification of the Regulatory Site. Journal of Biological Chemistry, 1995, 270, 17582-17587.	3.4	339
62	Identification of two species of actin depolymerizing factor in cultures of BHK cells. Journal of Muscle Research and Cell Motility, 1988, 9, 320-328.	2.0	23
63	Tropomyosin binding to F-actin protects the F-actin from disassembly by brain actin-depolymerizing factor (ADF). Cell Motility, 1982, 2, 1-8.	1.8	234