

James Q Zheng

List of Publications by Year in descending order

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48
papers

5,296
citations

126907

33
h-index

206112

48
g-index

50
all docs

50
docs citations

50
times ranked

6182
citing authors

#	ARTICLE	IF	CITATIONS
1	Turning of nerve growth cones induced by neurotransmitters. <i>Nature</i> , 1994, 368, 140-144.	27.8	583
2	An essential role for β -actin mRNA localization and translation in Ca^{2+} -dependent growth cone guidance. <i>Nature Neuroscience</i> , 2006, 9, 1265-1273.	14.8	339
3	The molecular basis for calcium-dependent axon pathfinding. <i>Nature Reviews Neuroscience</i> , 2006, 7, 115-125.	10.2	321
4	ADF/cofilin-mediated actin dynamics regulate AMPA receptor trafficking during synaptic plasticity. <i>Nature Neuroscience</i> , 2010, 13, 1208-1215.	14.8	275
5	Turning of nerve growth cones induced by localized increases in intracellular calcium ions. <i>Nature</i> , 2000, 403, 89-93.	27.8	260
6	Growth Cone Turning Induced by Direct Local Modification of Microtubule Dynamics. <i>Journal of Neuroscience</i> , 2002, 22, 9358-9367.	3.6	258
7	Calcium Signaling in Neuronal Motility. <i>Annual Review of Cell and Developmental Biology</i> , 2007, 23, 375-404.	9.4	248
8	Lipid Rafts Mediate Chemotropic Guidance of Nerve Growth Cones. <i>Neuron</i> , 2004, 42, 51-62.	8.1	229
9	Acute Impairment of Mitochondrial Trafficking by β -Amyloid Peptides in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2006, 26, 10480-10487.	3.6	225
10	Distinct 3' UTRs differentially regulate activity-dependent translation of brain-derived neurotrophic factor (BDNF). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15945-15950.	7.1	214
11	Growth Cone Travel in Space and Time: the Cellular Ensemble of Cytoskeleton, Adhesion, and Membrane. <i>Neuron</i> , 2012, 73, 1068-1081.	8.1	200
12	Microtubules in Dendritic Spine Development. <i>Journal of Neuroscience</i> , 2008, 28, 12120-12124.	3.6	189
13	A CaMKII/Calcineurin Switch Controls the Direction of Ca^{2+} -Dependent Growth Cone Guidance. <i>Neuron</i> , 2004, 43, 835-846.	8.1	179
14	BMP gradients steer nerve growth cones by a balancing act of LIM kinase and Slingshot phosphatase on ADF/cofilin. <i>Journal of Cell Biology</i> , 2007, 178, 107-119.	5.2	166
15	Activity-Independent Regulation of Dendrite Patterning by Postsynaptic Density Protein PSD-95. <i>Journal of Neuroscience</i> , 2006, 26, 10164-10176.	3.6	123
16	Phosphorylation of Zipcode Binding Protein 1 Is Required for Brain-Derived Neurotrophic Factor Signaling of Local β -Actin Synthesis and Growth Cone Turning. <i>Journal of Neuroscience</i> , 2010, 30, 9349-9358.	3.6	115
17	Directional guidance of nerve growth cones. <i>Current Opinion in Neurobiology</i> , 2006, 16, 52-58.	4.2	109
18	Dynamic Localization of G-Actin during Membrane Protrusion in Neuronal Motility. <i>Current Biology</i> , 2013, 23, 1046-1056.	3.9	88

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19	Actin-based growth cone motility and guidance. <i>Molecular and Cellular Neurosciences</i> , 2017, 84, 4-10.	2.2	88
20	Autocrine Expression and Ontogenetic Functions of the PACAP Ligand/Receptor System during Sympathetic Development. <i>Developmental Biology</i> , 2000, 219, 197-213.	2.0	85
21	cAMP-Mediated Regulation of Neurotrophin-Induced Collapse of Nerve Growth Cones. <i>Journal of Neuroscience</i> , 1998, 18, 4973-4984.	3.6	73
22	Acute Morphogenic and Chemotropic Effects of Neurotrophins on Cultured Embryonic <i>Xenopus</i> Spinal Neurons. <i>Journal of Neuroscience</i> , 1997, 17, 7860-7871.	3.6	71
23	Direct cAMP Signaling through G-Protein-Coupled Receptors Mediates Growth Cone Attraction Induced by Pituitary Adenylate Cyclase-Activating Polypeptide. <i>Journal of Neuroscience</i> , 2003, 23, 2274-2283.	3.6	69
24	Regulation of acetylcholine receptor clustering by ADF/cofilin-directed vesicular trafficking. <i>Nature Neuroscience</i> , 2009, 12, 848-856.	14.8	69
25	Two Functionally Distinct Sources of Actin Monomers Supply the Leading Edge of Lamellipodia. <i>Cell Reports</i> , 2015, 11, 433-445.	6.4	69
26	Actin cytoskeleton in dendritic spine development and plasticity. <i>Current Opinion in Neurobiology</i> , 2016, 39, 86-92.	4.2	66
27	Frequency Modulation of Synchronized Ca ²⁺ Spikes in Cultured Hippocampal Networks through G-Protein-Coupled Receptors. <i>Journal of Neuroscience</i> , 2003, 23, 4156-4163.	3.6	62
28	Inhibition of AMPA receptor trafficking at hippocampal synapses by \hat{A}^2 -amyloid oligomers: the mitochondrial contribution. <i>Molecular Brain</i> , 2010, 3, 10.	2.6	55
29	Instantaneous inactivation of cofilin reveals its function of F-actin disassembly in lamellipodia. <i>Molecular Biology of the Cell</i> , 2013, 24, 2238-2247.	2.1	49
30	PSD-95 Alters Microtubule Dynamics via an Association With EB3. <i>Journal of Neuroscience</i> , 2011, 31, 1038-1047.	3.6	45
31	Amyloid \hat{A}^2 oligomers elicit mitochondrial transport defects and fragmentation in a time-dependent and pathway-specific manner. <i>Molecular Brain</i> , 2016, 9, 79.	2.6	45
32	Actin Capping Protein Is Required for Dendritic Spine Development and Synapse Formation. <i>Journal of Neuroscience</i> , 2011, 31, 10228-10233.	3.6	39
33	Spatial targeting of type II protein kinase A to filopodia mediates the regulation of growth cone guidance by cAMP. <i>Journal of Cell Biology</i> , 2007, 176, 101-111.	5.2	35
34	Super-Resolution Microscopy Reveals a Nanoscale Organization of Acetylcholine Receptors for Trans-Synaptic Alignment at Neuromuscular Synapses. <i>ENeuro</i> , 2017, 4, ENEURO.0232-17.2017.	1.9	35
35	Cytoskeletal dynamics underlying collateral membrane protrusions induced by neurotrophins in cultured <i>Xenopus</i> embryonic neurons. <i>Journal of Neurobiology</i> , 2003, 54, 393-405.	3.6	30
36	Microtubules in Dendritic Spine Development and Plasticity. <i>The Open Neuroscience Journal</i> , 2009, 3, 128-133.	0.8	28

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37	p39 Is Responsible for Increasing Cdk5 Activity during Postnatal Neuron Differentiation and Governs Neuronal Network Formation and Epileptic Responses. <i>Journal of Neuroscience</i> , 2016, 36, 11283-11294.	3.6	27
38	A critical role for STIM1 in filopodial calcium entry and axon guidance. <i>Molecular Brain</i> , 2013, 6, 51.	2.6	26
39	Tropomodulin Isoform-Specific Regulation of Dendrite Development and Synapse Formation. <i>Journal of Neuroscience</i> , 2018, 38, 10271-10285.	3.6	23
40	Phosphoinositide-dependent enrichment of actin monomers in dendritic spines regulates synapse development and plasticity. <i>Journal of Cell Biology</i> , 2017, 216, 2551-2564.	5.2	21
41	Spontaneous Local Calcium Transients Regulate Oligodendrocyte Development in Culture through Store-Operated Ca ²⁺ Entry and Release. <i>ENeuro</i> , 2020, 7, ENEURO.0347-19.2020.	1.9	16
42	Repetitive mild head trauma induces activity mediated lifelong brain deficits in a novel <i>Drosophila</i> model. <i>Scientific Reports</i> , 2021, 11, 9738.	3.3	14
43	A protocol to detect neurodegeneration in <i>Drosophila melanogaster</i> whole-brain mounts using advanced microscopy. <i>STAR Protocols</i> , 2021, 2, 100689.	1.2	13
44	The Nebulin Family LIM and SH3 Proteins Regulate Postsynaptic Development and Function. <i>Journal of Neuroscience</i> , 2020, 40, 526-541.	3.6	11
45	LIM and SH3 protein 1 localizes to the leading edge of protruding lamellipodia and regulates axon development. <i>Molecular Biology of the Cell</i> , 2020, 31, 2718-2732.	2.1	6
46	Oligodendroglial defects during quaking/viable cerebellar development. <i>Developmental Neurobiology</i> , 2016, 76, 972-982.	3.0	3
47	Surfing on Calcium Waves. <i>Neuron</i> , 2007, 54, 502-505.	8.1	1
48	Virally Mediated Connexin 26 Expression in Postnatal Scala Media Significantly and Transiently Preserves Hearing in Connexin 30 Null Mice. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 900416.	3.7	1