Zu-Hang Sheng

List of Publications by Year
in descending order

67	10,143	76326	123424
papers	citations	40 h-index	61 g-index

102	102	102	15948
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Methods for Studying Axonal Autophagosome Dynamics in Adult Dorsal Root Ganglion Neurons. Neuromethods, 2022, , 99-114.	0.3	0
2	Energy matters: presynaptic metabolism and the maintenance of synaptic transmission. Nature Reviews Neuroscience, 2022, 23, 4-22.	10.2	66
3	Neuronal endolysosomal transport and lysosomal functionality in maintaining axonostasis. Journal of Cell Biology, 2022, 221, .	5.2	17
4	Programming axonal mitochondrial maintenance and bioenergetics in neurodegeneration and regeneration. Neuron, 2022, 110, 1899-1923.	8.1	62
5	Remodeling mitochondrial transport and cellular energetics in axonal regeneration and spinal cord injury. , 2022, , 199-213.		0
6	Developmental regulation of microtubuleâ€based trafficking and anchoring of axonal mitochondria in health and diseases. Developmental Neurobiology, 2021, 81, 284-299.	3.0	25
7	Defects in syntabulin-mediated synaptic cargo transport associate with autism-like synaptic dysfunction and social behavioral traits. Molecular Psychiatry, 2021, 26, 1472-1490.	7.9	6
8	Neurobiology: A pathogenic tug of war. Current Biology, 2021, 31, R491-R493.	3.9	0
9	Lipid-mediated motor-adaptor sequestration impairs axonal lysosome delivery leading to autophagic stress and dystrophy in Niemann-Pick type C. Developmental Cell, 2021, 56, 1452-1468.e8.	7.0	41
10	Lipid-mediated impairment of axonal lysosome transport contributing to autophagic stress. Autophagy, 2021, 17, 1796-1798.	9.1	10
11	Reprogramming an energetic AKT-PAK5 axis boosts axon energy supply and facilitates neuron survival and regeneration after injury and ischemia. Current Biology, 2021, 31, 3098-3114.e7.	3.9	39
12	Oligodendrocytes enhance axonal energy metabolism by deacetylation of mitochondrial proteins through transcellular delivery of SIRT2. Neuron, 2021, 109, 3456-3472.e8.	8.1	67
13	The secret life of degradative lysosomes in axons: delivery from the soma, enzymatic activity, and local autophagic clearance. Autophagy, 2020, 16, 167-168.	9.1	11
14	Defending stressed mitochondria: uncovering the role of MUL1 in suppressing neuronal mitophagy. Autophagy, 2020, 16, 176-178.	9.1	13
15	The cross-talk of energy sensing and mitochondrial anchoring sustains synaptic efficacy by maintaining presynaptic metabolism. Nature Metabolism, 2020, 2, 1077-1095.	11.9	75
16	Restoring Cellular Energetics Promotes Axonal Regeneration and Functional Recovery after Spinal Cord Injury. Cell Metabolism, 2020, 31, 623-641.e8.	16.2	102
17	Mul1 restrains Parkin-mediated mitophagy in mature neurons by maintaining ER-mitochondrial contacts. Nature Communications, 2019, 10, 3645.	12.8	97
18	Neuronal Soma-Derived Degradative Lysosomes Are Continuously Delivered to Distal Axons to Maintain Local Degradation Capacity. Cell Reports, 2019, 28, 51-64.e4.	6.4	100

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19	Inappropriate Intrusion of an Axonal Mitochondrial Anchor into Dendrites Causes Neurodegeneration. Cell Reports, 2019, 29, 685-696.e5.	6.4	9
20	Mechanisms for the maintenance and regulation of axonal energy supply. Journal of Neuroscience Research, 2019, 97, 897-913.	2.9	75
21	Characterization of LAMP1-labeled nondegradative lysosomal and endocytic compartments in neurons. Journal of Cell Biology, 2018, 217, 3127-3139.	5.2	203
22	Revisiting LAMP1 as a marker for degradative autophagy-lysosomal organelles in the nervous system. Autophagy, 2018, 14, 1472-1474.	9.1	87
23	The Interplay of Axonal Energy Homeostasis and Mitochondrial Trafficking and Anchoring. Trends in Cell Biology, 2017, 27, 403-416.	7.9	158
24	Releasing Syntaphilin Removes Stressed Mitochondria from Axons Independent of Mitophagy under Pathophysiological Conditions. Neuron, 2017, 94, 595-610.e6.	8.1	136
25	Removing dysfunctional mitochondria from axons independent of mitophagy under pathophysiological conditions. Autophagy, 2017, 13, 1792-1794.	9.1	25
26	Facilitation of axon regeneration by enhancing mitochondrial transport and rescuing energy deficits. Journal of Cell Biology, 2016, 214, 103-119.	5.2	255
27	Age-Related Phasic Patterns of Mitochondrial Maintenance in AdultCaenorhabditis elegansNeurons. Journal of Neuroscience, 2016, 36, 1373-1385.	3.6	79
28	Regulation of synaptic activity by snapinâ€mediated endolysosomal transport and sorting. EMBO Journal, 2015, 34, 2059-2077.	7.8	41
29	Progressive endolysosomal deficits impair autophagic clearance beginning at early asymptomatic stages in fALS mice. Autophagy, 2015, 11, 1934-1936.	9.1	24
30	Regulation of mitochondrial transport in neurons. Experimental Cell Research, 2015, 334, 35-44.	2.6	175
31	Axonal autophagosomes use the ride-on service for retrograde transport toward the soma. Autophagy, 2015, 11, 1434-1436.	9.1	32
32	Endolysosomal Deficits Augment Mitochondria Pathology in Spinal Motor Neurons of Asymptomatic fALS Mice. Neuron, 2015, 87, 355-370.	8.1	138
33	Axonal autophagosomes recruit dynein for retrograde transport through fusion with late endosomes. Journal of Cell Biology, 2015, 209, 377-386.	5.2	202
34	Deletion of Mitochondrial Anchoring Protects Dysmyelinating Shiverer: Implications for Progressive MS. Journal of Neuroscience, 2015, 35, 5293-5306.	3.6	33
35	Characterization of Mitochondrial Transport in Neurons. Methods in Enzymology, 2014, 547, 75-96.	1.0	12
36	Mitochondrial immobilization mediated by syntaphilin facilitates survival of demyelinated axons. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9953-9958.	7.1	98

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37	Mitochondrial trafficking and anchoring in neurons: New insight and implications. Journal of Cell Biology, 2014, 204, 1087-1098.	5.2	327
38	MUL1 acts in parallel to the PINK1/parkin pathway in regulating mitofusin and compensates for loss of PINK1/parkin. ELife, 2014, 3, e01958.	6.0	235
39	Motile Axonal Mitochondria Contribute to the Variability of Presynaptic Strength. Cell Reports, 2013, 4, 413-419.	6.4	215
40	Kinesin-1â€“syntaphilin coupling mediates activity-dependent regulation of axonal mitochondrial transport. Journal of Cell Biology, 2013, 202, 351-364.	5.2	185
41	Snapin Recruits Dynein to BDNF-TrkB Signaling Endosomes for Retrograde Axonal Transport and Is Essential for Dendrite Growth of Cortical Neurons. Cell Reports, 2012, 2, 42-51.	6.4	121
42	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
43	Mitochondrial transport in neurons: impact on synaptic homeostasis and neurodegeneration. Nature Reviews Neuroscience, 2012, 13, 77-93.	10.2	678
44	Spatial Parkin Translocation and Degradation of Damaged Mitochondria via Mitophagy in Live Cortical Neurons. Current Biology, 2012, 22, 545-552.	3.9	279
45	Mitochondrial Dynamics and Axonal Transport. , 2011, , 139-168.		1
46	Uncovering the role of Snapin in regulating autophagy-lysosomal function. Autophagy, 2011, 7, 445-447.	9.1	24
47	Increased Axonal Mitochondrial Mobility Does Not Slow Amyotrophic Lateral Sclerosis (ALS)-like Disease in Mutant SOD1 Mice. Journal of Biological Chemistry, 2011, 286, 23432-23440.	3.4	48
48	Snapin-Regulated Late Endosomal Transport Is Critical for Efficient Autophagy-Lysosomal Function in Neurons. Neuron, 2010, 68, 73-86.	8.1	196
49	Dynein Light Chain LC8 Regulates Syntaphilin-Mediated Mitochondrial Docking in Axons. Journal of Neuroscience, 2009, 29, 9429-9438.	3.6	69
50	KIF5B Motor Adaptor Syntabulin Maintains Synaptic Transmission in Sympathetic Neurons. Journal of Neuroscience, 2009, 29, 13019-13029.	3.6	93
51	Snapin Facilitates the Synchronization of Synaptic Vesicle Fusion. Neuron, 2009, 61, 412-424.	8.1	67
52	Moving or Stopping Mitochondria: Miro as a Traffic Cop by Sensing Calcium. Neuron, 2009, 61, 493-496.	8.1	57
53	Docking of Axonal Mitochondria by Syntaphilin Controls Their Mobility and Affects Short-Term Facilitation. Cell, 2008, 132, 137-148.	28.9	497
54	Modulation of Neurotransmitter Release and Presynaptic Plasticity by Protein Phosphorylation. , 2008, , 187-206.		0

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55	Modulation of neurotransmitter release by the second messenger-activated protein kinases: Implications for presynaptic plasticity. , 2005, 105, 69-84.		154
56	Syntabulin-mediated anterograde transport of mitochondria along neuronal processes. Journal of Cell Biology, 2005, 170, 959-969.	5.2	191
57	The Role of Snapin in Neurosecretion: Snapin Knock-Out Mice Exhibit Impaired Calcium-Dependent Exocytosis of Large Dense-Core Vesicles in Chromaffin Cells. Journal of Neuroscience, 2005, 25, 10546-10555.	3.6	87
58	Phosphorylation of Syntaphilin by cAMP-dependent Protein Kinase Modulates Its Interaction with Syntaxin-1 and Annuls Its Inhibitory Effect on Vesicle Exocytosis. Journal of Biological Chemistry, 2004, 279, 18911-18919.	3.4	32
59	Effects of PKA-Mediated Phosphorylation of Snapin on Synaptic Transmission in Cultured Hippocampal Neurons. Journal of Neuroscience, 2004, 24, 6476-6481.	3.6	59
60	Syntabulin is a microtubule-associated protein implicated in syntaxin transport in neurons. Nature Cell Biology, 2004, 6, 941-953.	10.3	133
61	Multidisciplinary Approaches for Characterizing Synaptic Vesicle Proteins. Current Protocols in Neuroscience, 2004, 28, Unit 2.7.	2.6	5
62	Regional and developmental regulation of syntaphilin expression in the brain: a candidate molecular element of synaptic functional differentiation. Molecular Brain Research, 2003, 116, 38-49.	2.3	27
63	Syntaphilin Binds to Dynamin-1 and Inhibits Dynamin-dependent Endocytosis. Journal of Biological Chemistry, 2003, 278, 41221-41226.	3.4	8
64	Phosphorylation of Snapin by PKA modulates its interaction with the SNARE complex. Nature Cell Biology, 2001, 3, 331-338.	10.3	156
65	Syntaphilin. Neuron, 2000, 25, 191-201.	8.1	90
66	Snapin: a SNAREâ€“associated protein implicated in synaptic transmission. Nature Neuroscience, 1999, 2, 119-124.	14.8	210
67	Inhibition of Neurotransmission by Peptides Containing the Synaptic Protein Interaction Site of N-Type Ca2+ Channels. Neuron, 1996, 17, 781-788.	8.1	264