

Zu-Hang Sheng

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

10,143
citations

76326

40
h-index

123424

61
g-index

102
all docs

102
docs citations

102
times ranked

15948
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	Mitochondrial transport in neurons: impact on synaptic homeostasis and neurodegeneration. <i>Nature Reviews Neuroscience</i> , 2012, 13, 77-93.	10.2	678
3	Docking of Axonal Mitochondria by Syntaphilin Controls Their Mobility and Affects Short-Term Facilitation. <i>Cell</i> , 2008, 132, 137-148.	28.9	497
4	Mitochondrial trafficking and anchoring in neurons: New insight and implications. <i>Journal of Cell Biology</i> , 2014, 204, 1087-1098.	5.2	327
5	Spatial Parkin Translocation and Degradation of Damaged Mitochondria via Mitophagy in Live Cortical Neurons. <i>Current Biology</i> , 2012, 22, 545-552.	3.9	279
6	Inhibition of Neurotransmission by Peptides Containing the Synaptic Protein Interaction Site of N-Type Ca ²⁺ Channels. <i>Neuron</i> , 1996, 17, 781-788.	8.1	264
7	Facilitation of axon regeneration by enhancing mitochondrial transport and rescuing energy deficits. <i>Journal of Cell Biology</i> , 2016, 214, 103-119.	5.2	255
8	MUL1 acts in parallel to the PINK1/parkin pathway in regulating mitofusin and compensates for loss of PINK1/parkin. <i>ELife</i> , 2014, 3, e01958.	6.0	235
9	Motile Axonal Mitochondria Contribute to the Variability of Presynaptic Strength. <i>Cell Reports</i> , 2013, 4, 413-419.	6.4	215
10	Snapin: a SNARE-associated protein implicated in synaptic transmission. <i>Nature Neuroscience</i> , 1999, 2, 119-124.	14.8	210
11	Characterization of LAMP1-labeled nondegradative lysosomal and endocytic compartments in neurons. <i>Journal of Cell Biology</i> , 2018, 217, 3127-3139.	5.2	203
12	Axonal autophagosomes recruit dynein for retrograde transport through fusion with late endosomes. <i>Journal of Cell Biology</i> , 2015, 209, 377-386.	5.2	202
13	Snapin-Regulated Late Endosomal Transport Is Critical for Efficient Autophagy-Lysosomal Function in Neurons. <i>Neuron</i> , 2010, 68, 73-86.	8.1	196
14	Syntabulin-mediated anterograde transport of mitochondria along neuronal processes. <i>Journal of Cell Biology</i> , 2005, 170, 959-969.	5.2	191
15	Kinesin-1-syntaphilin coupling mediates activity-dependent regulation of axonal mitochondrial transport. <i>Journal of Cell Biology</i> , 2013, 202, 351-364.	5.2	185
16	Regulation of mitochondrial transport in neurons. <i>Experimental Cell Research</i> , 2015, 334, 35-44.	2.6	175
17	The Interplay of Axonal Energy Homeostasis and Mitochondrial Trafficking and Anchoring. <i>Trends in Cell Biology</i> , 2017, 27, 403-416.	7.9	158
18	Phosphorylation of Snapin by PKA modulates its interaction with the SNARE complex. <i>Nature Cell Biology</i> , 2001, 3, 331-338.	10.3	156

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19	Modulation of neurotransmitter release by the second messenger-activated protein kinases: Implications for presynaptic plasticity. , 2005, 105, 69-84.		154
20	Endolysosomal Deficits Augment Mitochondria Pathology in Spinal Motor Neurons of Asymptomatic fALS Mice. <i>Neuron</i> , 2015, 87, 355-370.	8.1	138
21	Releasing Syntaphilin Removes Stressed Mitochondria from Axons Independent of Mitophagy under Pathophysiological Conditions. <i>Neuron</i> , 2017, 94, 595-610.e6.	8.1	136
22	Syntabulin is a microtubule-associated protein implicated in syntaxin transport in neurons. <i>Nature Cell Biology</i> , 2004, 6, 941-953.	10.3	133
23	Snapin Recruits Dynein to BDNF-TrkB Signaling Endosomes for Retrograde Axonal Transport and Is Essential for Dendrite Growth of Cortical Neurons. <i>Cell Reports</i> , 2012, 2, 42-51.	6.4	121
24	Restoring Cellular Energetics Promotes Axonal Regeneration and Functional Recovery after Spinal Cord Injury. <i>Cell Metabolism</i> , 2020, 31, 623-641.e8.	16.2	102
25	Neuronal Soma-Derived Degradative Lysosomes Are Continuously Delivered to Distal Axons to Maintain Local Degradation Capacity. <i>Cell Reports</i> , 2019, 28, 51-64.e4.	6.4	100
26	Mitochondrial immobilization mediated by syntaphilin facilitates survival of demyelinated axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9953-9958.	7.1	98
27	Mul1 restrains Parkin-mediated mitophagy in mature neurons by maintaining ER-mitochondrial contacts. <i>Nature Communications</i> , 2019, 10, 3645.	12.8	97
28	KIF5B Motor Adaptor Syntabulin Maintains Synaptic Transmission in Sympathetic Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 13019-13029.	3.6	93
29	Syntaphilin. <i>Neuron</i> , 2000, 25, 191-201.	8.1	90
30	The Role of Snapin in Neurosecretion: Snapin Knock-Out Mice Exhibit Impaired Calcium-Dependent Exocytosis of Large Dense-Core Vesicles in Chromaffin Cells. <i>Journal of Neuroscience</i> , 2005, 25, 10546-10555.	3.6	87
31	Revisiting LAMP1 as a marker for degradative autophagy-lysosomal organelles in the nervous system. <i>Autophagy</i> , 2018, 14, 1472-1474.	9.1	87
32	Age-Related Phasic Patterns of Mitochondrial Maintenance in Adult <i>Caenorhabditis elegans</i> Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 1373-1385.	3.6	79
33	Mechanisms for the maintenance and regulation of axonal energy supply. <i>Journal of Neuroscience Research</i> , 2019, 97, 897-913.	2.9	75
34	The cross-talk of energy sensing and mitochondrial anchoring sustains synaptic efficacy by maintaining presynaptic metabolism. <i>Nature Metabolism</i> , 2020, 2, 1077-1095.	11.9	75
35	Dynein Light Chain LC8 Regulates Syntaphilin-Mediated Mitochondrial Docking in Axons. <i>Journal of Neuroscience</i> , 2009, 29, 9429-9438.	3.6	69
36	Snapin Facilitates the Synchronization of Synaptic Vesicle Fusion. <i>Neuron</i> , 2009, 61, 412-424.	8.1	67

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37	Oligodendrocytes enhance axonal energy metabolism by deacetylation of mitochondrial proteins through transcellular delivery of SIRT2. <i>Neuron</i> , 2021, 109, 3456-3472.e8.	8.1	67
38	Energy matters: presynaptic metabolism and the maintenance of synaptic transmission. <i>Nature Reviews Neuroscience</i> , 2022, 23, 4-22.	10.2	66
39	Programming axonal mitochondrial maintenance and bioenergetics in neurodegeneration and regeneration. <i>Neuron</i> , 2022, 110, 1899-1923.	8.1	62
40	Effects of PKA-Mediated Phosphorylation of Snapin on Synaptic Transmission in Cultured Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2004, 24, 6476-6481.	3.6	59
41	Moving or Stopping Mitochondria: Miro as a Traffic Cop by Sensing Calcium. <i>Neuron</i> , 2009, 61, 493-496.	8.1	57
42	Increased Axonal Mitochondrial Mobility Does Not Slow Amyotrophic Lateral Sclerosis (ALS)-like Disease in Mutant SOD1 Mice. <i>Journal of Biological Chemistry</i> , 2011, 286, 23432-23440.	3.4	48
43	Regulation of synaptic activity by snapin-mediated endolysosomal transport and sorting. <i>EMBO Journal</i> , 2015, 34, 2059-2077.	7.8	41
44	Lipid-mediated motor-adaptor sequestration impairs axonal lysosome delivery leading to autophagic stress and dystrophy in Niemann-Pick type C. <i>Developmental Cell</i> , 2021, 56, 1452-1468.e8.	7.0	41
45	Reprogramming an energetic AKT-PAK5 axis boosts axon energy supply and facilitates neuron survival and regeneration after injury and ischemia. <i>Current Biology</i> , 2021, 31, 3098-3114.e7.	3.9	39
46	Deletion of Mitochondrial Anchoring Protects Dysmyelinating Shiverer: Implications for Progressive MS. <i>Journal of Neuroscience</i> , 2015, 35, 5293-5306.	3.6	33
47	Phosphorylation of Syntaphilin by cAMP-dependent Protein Kinase Modulates Its Interaction with Syntaxin-1 and Annuls Its Inhibitory Effect on Vesicle Exocytosis. <i>Journal of Biological Chemistry</i> , 2004, 279, 18911-18919.	3.4	32
48	Axonal autophagosomes use the ride-on service for retrograde transport toward the soma. <i>Autophagy</i> , 2015, 11, 1434-1436.	9.1	32
49	Regional and developmental regulation of syntaphilin expression in the brain: a candidate molecular element of synaptic functional differentiation. <i>Molecular Brain Research</i> , 2003, 116, 38-49.	2.3	27
50	Removing dysfunctional mitochondria from axons independent of mitophagy under pathophysiological conditions. <i>Autophagy</i> , 2017, 13, 1792-1794.	9.1	25
51	Developmental regulation of microtubule-based trafficking and anchoring of axonal mitochondria in health and diseases. <i>Developmental Neurobiology</i> , 2021, 81, 284-299.	3.0	25
52	Uncovering the role of Snapin in regulating autophagy-lysosomal function. <i>Autophagy</i> , 2011, 7, 445-447.	9.1	24
53	Progressive endolysosomal deficits impair autophagic clearance beginning at early asymptomatic stages in fALS mice. <i>Autophagy</i> , 2015, 11, 1934-1936.	9.1	24
54	Neuronal endolysosomal transport and lysosomal functionality in maintaining axonostasis. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	17

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55	Defending stressed mitochondria: uncovering the role of MUL1 in suppressing neuronal mitophagy. <i>Autophagy</i> , 2020, 16, 176-178.	9.1	13
56	Characterization of Mitochondrial Transport in Neurons. <i>Methods in Enzymology</i> , 2014, 547, 75-96.	1.0	12
57	The secret life of degradative lysosomes in axons: delivery from the soma, enzymatic activity, and local autophagic clearance. <i>Autophagy</i> , 2020, 16, 167-168.	9.1	11
58	Lipid-mediated impairment of axonal lysosome transport contributing to autophagic stress. <i>Autophagy</i> , 2021, 17, 1796-1798.	9.1	10
59	Inappropriate Intrusion of an Axonal Mitochondrial Anchor into Dendrites Causes Neurodegeneration. <i>Cell Reports</i> , 2019, 29, 685-696.e5.	6.4	9
60	Syntaphilin Binds to Dynamin-1 and Inhibits Dynamin-dependent Endocytosis. <i>Journal of Biological Chemistry</i> , 2003, 278, 41221-41226.	3.4	8
61	Defects in syntabulin-mediated synaptic cargo transport associate with autism-like synaptic dysfunction and social behavioral traits. <i>Molecular Psychiatry</i> , 2021, 26, 1472-1490.	7.9	6
62	Multidisciplinary Approaches for Characterizing Synaptic Vesicle Proteins. <i>Current Protocols in Neuroscience</i> , 2004, 28, Unit 2.7.	2.6	5
63	Mitochondrial Dynamics and Axonal Transport. , 2011, , 139-168.		1
64	Neurobiology: A pathogenic tug of war. <i>Current Biology</i> , 2021, 31, R491-R493.	3.9	0
65	Methods for Studying Axonal Autophagosome Dynamics in Adult Dorsal Root Ganglion Neurons. <i>Neuromethods</i> , 2022, , 99-114.	0.3	0
66	Modulation of Neurotransmitter Release and Presynaptic Plasticity by Protein Phosphorylation. , 2008, , 187-206.		0
67	Remodeling mitochondrial transport and cellular energetics in axonal regeneration and spinal cord injury. , 2022, , 199-213.		0