Kang Shen

List of Publications by Year
in descending order

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Version: 2024-02-01

68	5,059	94269 37	110170 64
papers	citations	h-index	g-index

88	88	88	5976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dendrites use mechanosensitive channels to proofread ligand-mediated neurite extension during morphogenesis. Developmental Cell, 2022, 57, 1615-1629.e3.	3.1	11
2	Metaxins are core components of mitochondrial transport adaptor complexes. Nature Communications, 2021, 12, 83.	5.8	48
3	A two-step actin polymerization mechanism drives dendrite branching. Neural Development, 2021, 16, 3.	1.1	10
4	SLC-30A9 is required for Zn ²⁺ homeostasis, Zn ²⁺ mobilization, and mitochondrial health. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	21
5	Proximity labeling reveals non-centrosomal microtubule-organizing center components required for microtubule growth and localization. Current Biology, 2021, 31, 3586-3600.e11.	1.8	31
6	Finding functions of phase separation in the presynapse. Current Opinion in Neurobiology, 2021, 69, 178-184.	2.0	4
7	Inherited apicobasal polarity defines the key features of axon-dendrite polarity in a sensory neuron. Current Biology, 2021, 31, 3768-3783.e3.	1.8	7
8	Assembly of synaptic active zones requires phase separation of scaffold molecules. Nature, 2020, 588, 454-458.	13.7	91
9	An Endoplasmic Reticulum ATPase Safeguards Endoplasmic Reticulum Identity by Removing Ectopically Localized Mitochondrial Proteins. Cell Reports, 2020, 33, 108363.	2.9	32
10	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. Science, 2020, 367, 1372-1376.	6.0	132
11	Growth cone-localized microtubule organizing center establishes microtubule orientation in dendrites. ELife, 2020, 9, .	2.8	41
12	A hormone receptor pathway cell-autonomously delays neuron morphological aging by suppressing endocytosis. PLoS Biology, 2019, 17, e3000452.	2.6	11
13	Parallel Processing of Two Mechanosensory Modalities by a Single Neuron in C.Âelegans. Developmental Cell, 2019, 51, 617-631.e3.	3.1	62
14	Neurite Development and Repair in Worms and Flies. Annual Review of Neuroscience, 2019, 42, 209-226.	5.0	20
15	Synaptogenic pathways. Current Opinion in Neurobiology, 2019, 57, 156-162.	2.0	36
16	Atlastin-1 regulates morphology and function of endoplasmic reticulum in dendrites. Nature Communications, 2019, 10, 568.	5.8	41
17	A Myt1 family transcription factor defines neuronal fate by repressing non-neuronal genes. ELife, 2019, 8, .	2.8	21
18	Î³-Neurexin and Frizzled Mediate Parallel Synapse Assembly Pathways Antagonized by Receptor Endocytosis. Neuron, 2018, 100, 150-166.e4.	3.8	57

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19	Rapid Assembly of Presynaptic Materials behind the Growth Cone in Dopaminergic Neurons Is Mediated by Precise Regulation of Axonal Transport. Cell Reports, 2018, 24, 2709-2722.	2.9	30
20	Structural mechanisms of selectivity and gating in anion channelrhodopsins. Nature, 2018, 561, 349-354.	13.7	67
21	A Dendritic Guidance Receptor Complex Brings Together Distinct Actin Regulators to Drive Efficient F-Actin Assembly and Branching. Developmental Cell, 2018, 45, 362-375.e3.	3.1	56
22	The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival. Cell, 2018, 174, 1436-1449.e20.	13.5	25
23	The inositol 5-phosphatase INPP5K participates in the fine control of ER organization. Journal of Cell Biology, 2018, 217, 3577-3592.	2.3	39
24	Optical control of cell signaling by single-chain photoswitchable kinases. Science, 2017, 355, 836-842.	6.0	151
25	Local inhibition of microtubule dynamics by dynein is required for neuronal cargo distribution. Nature Communications, 2017, 8, 15063.	5.8	19
26	Dynein and EFF-1 control dendrite morphology through regulating the localization pattern of SAX-7 in epidermal cells. Journal of Cell Science, 2017, 130, 4063-4071.	1.2	22
27	Establishing Neuronal Polarity with Environmental and Intrinsic Mechanisms. Neuron, 2017, 96, 638-650.	3.8	81
28	BORC Regulates the Axonal Transport of Synaptic Vesicle Precursors by Activating ARL-8. Current Biology, 2017, 27, 2569-2578.e4.	1.8	72
29	Increased Excitatory Synaptic Transmission of Dentate Granule Neurons in Mice Lacking PSD-95-Interacting Adhesion Molecule Neph2/Kirrel3 during the Early Postnatal Period. Frontiers in Molecular Neuroscience, 2017, 10, 81.	1.4	14
30	Clarinet (CLA-1), a novel active zone protein required for synaptic vesicle clustering and release. ELife, 2017, 6, .	2.8	63
31	Genetic defects in Î²-spectrin and tau sensitize C. elegans axons to movement-induced damage via torque-tension coupling. ELife, 2017, 6, .	2.8	93
32	Precise regulation of the guidance receptor DMA-1 by KPC-1/Furin instructs dendritic branching decisions. ELife, 2016, 5, .	2.8	32
33	A novel bipartite <scp>UNC</scp>â€101/<scp>AP</scp>â€1 Î¼1 binding signal mediates <scp>KVS</scp>â€4/Kv2.1 somatodendritic distribution in Caenorhabditis elegans. FEBS Letters, 2016, 590, 76-92.	1.3	12
34	Two Clathrin Adaptor Protein Complexes Instruct Axon-Dendrite Polarity. Neuron, 2016, 90, 564-580.	3.8	55
35	Prevalent presence of periodic actinâ€“spectrin-based membrane skeleton in a broad range of neuronal cell types and animal species. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6029-6034.	3.3	145
36	Autoinhibition of a Neuronal Kinesin UNC-104/KIF1A Regulates the Size and Density of Synapses. Cell Reports, 2016, 16, 2129-2141.	2.9	105

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37	Deep phenotyping unveils hidden traits and genetic relations in subtle mutants. Nature Communications, 2016, 7, 12990.	5.8	37
38	Microtubule Organization Determines Axonal Transport Dynamics. Neuron, 2016, 92, 449-460.	3.8	116
39	Receptor tyrosine phosphatase CLR-1 acts in skin cells to promote sensory dendrite outgrowth. Developmental Biology, 2016, 413, 60-69.	0.9	15
40	The Neuronal Kinesin UNC-104/KIF1A Is a Key Regulator of Synaptic Aging and Insulin Signaling-Regulated Memory. Current Biology, 2016, 26, 605-615.	1.8	49
41	A multi-protein receptor-ligand complex underlies combinatorial dendrite guidance choices in C. elegans. ELife, 2016, 5, .	2.8	62
42	Mice lacking the synaptic adhesion molecule Neph2/Kirrel3 display moderate hyperactivity and defective novel object preference. Frontiers in Cellular Neuroscience, 2015, 9, 283.	1.8	22
43	RAB-10 Regulates Dendritic Branching by Balancing Dendritic Transport. PLoS Genetics, 2015, 11, e1005695.	1.5	68
44	Sarcomeres Pattern Proprioceptive Sensory Dendritic Endings through UNC-52/Perlecan in C.Âelegans. Developmental Cell, 2015, 33, 388-400.	3.1	55
45	MADD-4/Punctin and Neurexin Organize C.Âelegans GABAergic Postsynapses through Neuroligin. Neuron, 2015, 86, 1420-1432.	3.8	83
46	Parkinsonâ€™s Disease Genes VPS35 and EIF4G1 Interact Genetically and Converge on Î±-Synuclein. Neuron, 2015, 85, 76-87.	3.8	149
47	Intrinsic and Extrinsic Mechanisms of Dendritic Morphogenesis. Annual Review of Physiology, 2015, 77, 271-300.	5.6	123
48	STORMing towards a clear picture of the cytoskeleton in neurons. ELife, 2015, 4, .	2.8	5
49	The unfolded protein response is required for dendrite morphogenesis. ELife, 2015, 4, e06963.	2.8	42
50	MTM-6, a Phosphoinositide Phosphatase, is Required to Promote Synapse Formation in Caenorhabditis elegans. PLoS ONE, 2014, 9, e114501.	1.1	1
51	Regulation of Synaptic Extracellular Matrix Composition Is Critical for Proper Synapse Morphology. Journal of Neuroscience, 2014, 34, 12678-12689.	1.7	32
52	Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. Nature Methods, 2014, 11, 572-578.	9.0	196
53	Axon and dendritic trafficking. Current Opinion in Neurobiology, 2014, 27, 165-170.	2.0	96
54	Local F-actin Network Links Synapse Formation and Axon Branching. Cell, 2014, 156, 208-220.	13.5	128

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55	Extracellular Architecture of the SYG-1/SYG-2 Adhesion Complex Instructs Synaptogenesis. Cell, 2014, 156, 482-494.	13.5	59
56	PTRN-1, a microtubule minus end-binding CAMSAP homolog, promotes microtubule function in Caenorhabditis elegans neurons. ELife, 2014, 3, e01498.	2.8	78
57	An Extracellular Adhesion Molecule Complex Patterns Dendritic Branching and Morphogenesis. Cell, 2013, 155, 296-307.	13.5	146
58	The Balance between Capture and Dissociation of Presynaptic Proteins Controls the Spatial Distribution of Synapses. Neuron, 2013, 78, 994-1011.	3.8	119
59	Kinesin-1 regulates dendrite microtubule polarity in Caenorhabditis elegans. ELife, 2013, 2, e00133.	2.8	103
60	NAB-1 instructs synapse assembly by linking adhesion molecules and F-actin to active zone proteins. Nature Neuroscience, 2012, 15, 234-242.	7.1	77
61	The transmembrane LRR protein DMA-1 promotes dendrite branching and growth in C. elegans. Nature Neuroscience, 2012, 15, 57-63.	7.1	91
62	UNC-33 (CRMP) and ankyrin organize microtubules and localize kinesin to polarize axon-dendrite sorting. Nature Neuroscience, 2012, 15, 48-56.	7.1	152
63	Guidance Molecules in Synapse Formation and Plasticity. Cold Spring Harbor Perspectives in Biology, 2010, 2, a001842-a001842.	2.3	199
64	Genetics and Cell Biology of Building Specific Synaptic Connectivity. Annual Review of Neuroscience, 2010, 33, 473-507.	5.0	203
65	RSY-1 Is a Local Inhibitor of Presynaptic Assembly in C. elegans. Science, 2009, 323, 1500-1503.	6.0	45
66	Hierarchical assembly of presynaptic components in defined C. elegans synapses. Nature Neuroscience, 2006, 9, 1488-1498.	7.1	166
67	Synaptic Specificity Is Generated by the Synaptic Guidepost Protein SYG-2 and Its Receptor, SYG-1. Cell, 2004, 116, 869-881.	13.5	277
68	The Immunoglobulin Superfamily Protein SYG-1 Determines the Location of Specific Synapses in C. elegans. Cell, 2003, 112, 619-630.	13.5	287