

# Kang Shen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70  
papers

3,453  
citations

33  
h-index

58  
g-index

88  
ext. papers

4,481  
ext. citations

16.9  
avg, IF

5.64  
L-index

#	Paper	IF	Citations
70	Metaxins are core components of mitochondrial transport adaptor complexes. <i>Nature Communications</i> , <b>2021</b> , 12, 83	17.4	10
69	A two-step actin polymerization mechanism drives dendrite branching. <i>Neural Development</i> , <b>2021</b> , 16, 3	3.9	1
68	SLC-30A9 is required for Zn homeostasis, Zn mobilization, and mitochondrial health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	2
67	Proximity labeling reveals non-centrosomal microtubule-organizing center components required for microtubule growth and localization. <i>Current Biology</i> , <b>2021</b> , 31, 3586-3600.e11	6.3	8
66	Finding functions of phase separation in the presynapse. <i>Current Opinion in Neurobiology</i> , <b>2021</b> , 69, 178-184	18.4	2
65	Inherited apicobasal polarity defines the key features of axon-dendrite polarity in a sensory neuron. <i>Current Biology</i> , <b>2021</b> , 31, 3768-3783.e3	6.3	0
64	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. <i>Science</i> , <b>2020</b> , 367, 1372-1376	33.3	70
63	Growth cone-localized microtubule organizing center establishes microtubule orientation in dendrites. <i>ELife</i> , <b>2020</b> , 9,	8.9	24
62	Assembly of synaptic active zones requires phase separation of scaffold molecules. <i>Nature</i> , <b>2020</b> , 588, 454-458	50.4	29
61	An Endoplasmic Reticulum ATPase Safeguards Endoplasmic Reticulum Identity by Removing Ectopically Localized Mitochondrial Proteins. <i>Cell Reports</i> , <b>2020</b> , 33, 108363	10.6	16
60	Neurite Development and Repair in Worms and Flies. <i>Annual Review of Neuroscience</i> , <b>2019</b> , 42, 209-226	17	10
59	Synaptogenic pathways. <i>Current Opinion in Neurobiology</i> , <b>2019</b> , 57, 156-162	7.6	13
58	Atlastin-1 regulates morphology and function of endoplasmic reticulum in dendrites. <i>Nature Communications</i> , <b>2019</b> , 10, 568	17.4	26
57	A hormone receptor pathway cell-autonomously delays neuron morphological aging by suppressing endocytosis. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000452	9.7	7
56	Parallel Processing of Two Mechanosensory Modalities by a Single Neuron in <i>C. elegans</i> . <i>Developmental Cell</i> , <b>2019</b> , 51, 617-631.e3	10.2	26
55	A Myt1 family transcription factor defines neuronal fate by repressing non-neuronal genes. <i>ELife</i> , <b>2019</b> , 8,	8.9	9
54	A Dendritic Guidance Receptor Complex Brings Together Distinct Actin Regulators to Drive Efficient F-Actin Assembly and Branching. <i>Developmental Cell</i> , <b>2018</b> , 45, 362-375.e3	10.2	30

53	The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival. <i>Cell</i> , <b>2018</b> , 174, 1436-1449.e20	56.2	16
52	The inositol 5-phosphatase INPP5K participates in the fine control of ER organization. <i>Journal of Cell Biology</i> , <b>2018</b> , 217, 3577-3592	7.3	24
51	Neurexin and Frizzled Mediate Parallel Synapse Assembly Pathways Antagonized by Receptor Endocytosis. <i>Neuron</i> , <b>2018</b> , 100, 150-166.e4	13.9	22
50	Rapid Assembly of Presynaptic Materials behind the Growth Cone in Dopaminergic Neurons Is Mediated by Precise Regulation of Axonal Transport. <i>Cell Reports</i> , <b>2018</b> , 24, 2709-2722	10.6	17
49	Structural mechanisms of selectivity and gating in anion channelrhodopsins. <i>Nature</i> , <b>2018</b> , 561, 349-354	50.4	48
48	Optical control of cell signaling by single-chain photoswitchable kinases. <i>Science</i> , <b>2017</b> , 355, 836-842	33.3	97
47	Local inhibition of microtubule dynamics by dynein is required for neuronal cargo distribution. <i>Nature Communications</i> , <b>2017</b> , 8, 15063	17.4	11
46	Dynein and EFF-1 control dendrite morphology by regulating the localization pattern of SAX-7 in epidermal cells. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 4063-4071	5.3	16
45	Establishing Neuronal Polarity with Environmental and Intrinsic Mechanisms. <i>Neuron</i> , <b>2017</b> , 96, 638-650	13.9	50
44	Clarinet (CLA-1), a novel active zone protein required for synaptic vesicle clustering and release. <i>ELife</i> , <b>2017</b> , 6,	8.9	22
43	BORC Regulates the Axonal Transport of Synaptic Vesicle Precursors by Activating ARL-8. <i>Current Biology</i> , <b>2017</b> , 27, 2569-2578.e4	6.3	42
42	Increased Excitatory Synaptic Transmission of Dentate Granule Neurons in Mice Lacking PSD-95-Interacting Adhesion Molecule Neph2/Kirrel3 during the Early Postnatal Period. <i>Frontiers in Molecular Neuroscience</i> , <b>2017</b> , 10, 81	6.1	8
41	Genetic defects in Spectrin and tau sensitize axons to movement-induced damage via torque-tension coupling. <i>ELife</i> , <b>2017</b> , 6,	8.9	63
40	Deep phenotyping unveils hidden traits and genetic relations in subtle mutants. <i>Nature Communications</i> , <b>2016</b> , 7, 12990	17.4	19
39	Microtubule Organization Determines Axonal Transport Dynamics. <i>Neuron</i> , <b>2016</b> , 92, 449-460	13.9	65
38	Receptor tyrosine phosphatase CLR-1 acts in skin cells to promote sensory dendrite outgrowth. <i>Developmental Biology</i> , <b>2016</b> , 413, 60-9	3.1	12
37	The Neuronal Kinesin UNC-104/KIF1A Is a Key Regulator of Synaptic Aging and Insulin Signaling-Regulated Memory. <i>Current Biology</i> , <b>2016</b> , 26, 605-15	6.3	31
36	A multi-protein receptor-ligand complex underlies combinatorial dendrite guidance choices in. <i>ELife</i> , <b>2016</b> , 5,	8.9	40

35	Precise regulation of the guidance receptor DMA-1 by KPC-1/Furin instructs dendritic branching decisions. <i>ELife</i> , <b>2016</b> , 5,	8.9	17
34	A novel bipartite UNC-101/AP-1 $\beta$ binding signal mediates KVS-4/Kv2.1 somatodendritic distribution in <i>Caenorhabditis elegans</i> . <i>FEBS Letters</i> , <b>2016</b> , 590, 76-92	3.8	11
33	Two Clathrin Adaptor Protein Complexes Instruct Axon-Dendrite Polarity. <i>Neuron</i> , <b>2016</b> , 90, 564-80	13.9	33
32	Prevalent presence of periodic actin-spectrin-based membrane skeleton in a broad range of neuronal cell types and animal species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6029-34	11.5	104
31	Autoinhibition of a Neuronal Kinesin UNC-104/KIF1A Regulates the Size and Density of Synapses. <i>Cell Reports</i> , <b>2016</b> , 16, 2129-2141	10.6	53
30	Parkinson's disease genes VPS35 and EIF4G1 interact genetically and converge on $\beta$ synuclein. <i>Neuron</i> , <b>2015</b> , 85, 76-87	13.9	122
29	Intrinsic and extrinsic mechanisms of dendritic morphogenesis. <i>Annual Review of Physiology</i> , <b>2015</b> , 77, 271-300	23.1	94
28	Mice lacking the synaptic adhesion molecule Neph2/Kirrel3 display moderate hyperactivity and defective novel object preference. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 283	6.1	15
27	RAB-10 Regulates Dendritic Branching by Balancing Dendritic Transport. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005695	6.95	37
26	Sarcomeres Pattern Proprioceptive Sensory Dendritic Endings through UNC-52/Perlecan in <i>C. elegans</i> . <i>Developmental Cell</i> , <b>2015</b> , 33, 388-400	10.2	42
25	MADD-4/Punctin and Neurexin Organize <i>C. elegans</i> GABAergic Postsynapses through Neuroligin. <i>Neuron</i> , <b>2015</b> , 86, 1420-32	13.9	55
24	STORMing towards a clear picture of the cytoskeleton in neurons. <i>ELife</i> , <b>2015</b> , 4,	8.9	5
23	The unfolded protein response is required for dendrite morphogenesis. <i>ELife</i> , <b>2015</b> , 4, e06963	8.9	32
22	Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. <i>Nature Methods</i> , <b>2014</b> , 11, 572-8	21.6	141
21	Axon and dendritic trafficking. <i>Current Opinion in Neurobiology</i> , <b>2014</b> , 27, 165-70	7.6	75
20	Local F-actin network links synapse formation and axon branching. <i>Cell</i> , <b>2014</b> , 156, 208-20	56.2	96
19	Extracellular architecture of the SYG-1/SYG-2 adhesion complex instructs synaptogenesis. <i>Cell</i> , <b>2014</b> , 156, 482-94	56.2	46
18	MTM-6, a phosphoinositide phosphatase, is required to promote synapse formation in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e114501	3.7	1

17	Regulation of synaptic extracellular matrix composition is critical for proper synapse morphology. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 12678-89	6.6	21
16	PTRN-1, a microtubule minus end-binding CAMSAP homolog, promotes microtubule function in <i>Caenorhabditis elegans</i> neurons. <i>ELife</i> , <b>2014</b> , 3, e01498	8.9	64
15	An extracellular adhesion molecule complex patterns dendritic branching and morphogenesis. <i>Cell</i> , <b>2013</b> , 155, 296-307	56.2	105
14	The balance between capture and dissociation of presynaptic proteins controls the spatial distribution of synapses. <i>Neuron</i> , <b>2013</b> , 78, 994-1011	13.9	86
13	Kinesin-1 regulates dendrite microtubule polarity in <i>Caenorhabditis elegans</i> . <i>ELife</i> , <b>2013</b> , 2, e00133	8.9	82
12	Author response: Kinesin-1 regulates dendrite microtubule polarity in <i>Caenorhabditis elegans</i> <b>2013</b>		2
11	NAB-1 instructs synapse assembly by linking adhesion molecules and F-actin to active zone proteins. <i>Nature Neuroscience</i> , <b>2012</b> , 15, 234-42	25.5	62
10	The transmembrane LRR protein DMA-1 promotes dendrite branching and growth in <i>C. elegans</i> . <i>Nature Neuroscience</i> , <b>2011</b> , 15, 57-63	25.5	66
9	UNC-33 (CRMP) and ankyrin organize microtubules and localize kinesin to polarize axon-dendrite sorting. <i>Nature Neuroscience</i> , <b>2011</b> , 15, 48-56	25.5	110
8	Guidance molecules in synapse formation and plasticity. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2010</b> , 2, a001842	10.2	159
7	Genetics and cell biology of building specific synaptic connectivity. <i>Annual Review of Neuroscience</i> , <b>2010</b> , 33, 473-507	17	177
6	RSY-1 is a local inhibitor of presynaptic assembly in <i>C. elegans</i> . <i>Science</i> , <b>2009</b> , 323, 1500-3	33.3	39
5	Hierarchical assembly of presynaptic components in defined <i>C. elegans</i> synapses. <i>Nature Neuroscience</i> , <b>2006</b> , 9, 1488-98	25.5	137
4	Synaptic specificity is generated by the synaptic guidepost protein SYG-2 and its receptor, SYG-1. <i>Cell</i> , <b>2004</b> , 116, 869-81	56.2	234
3	The immunoglobulin superfamily protein SYG-1 determines the location of specific synapses in <i>C. elegans</i> . <i>Cell</i> , <b>2003</b> , 112, 619-30	56.2	237
2	Proximity labeling at non-centrosomal microtubule-organizing centers reveals VAB-10B and WDR-62 as distinct microtubule regulators		1
1	Growth Cone-Localized Microtubule Organizing Center Establishes Microtubule Orientation in Dendrites		2