

Kang Shen

List of Publications by Citations

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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	The immunoglobulin superfamily protein SYG-1 determines the location of specific synapses in <i>C. elegans</i> . <i>Cell</i> , 2003 , 112, 619-30	56.2	237
69	Synaptic specificity is generated by the synaptic guidepost protein SYG-2 and its receptor, SYG-1. <i>Cell</i> , 2004 , 116, 869-81	56.2	234
68	Genetics and cell biology of building specific synaptic connectivity. <i>Annual Review of Neuroscience</i> , 2010 , 33, 473-507	17	177
67	Guidance molecules in synapse formation and plasticity. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010 , 2, a001842	10.2	159
66	Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. <i>Nature Methods</i> , 2014 , 11, 572-8	21.6	141
65	Hierarchical assembly of presynaptic components in defined <i>C. elegans</i> synapses. <i>Nature Neuroscience</i> , 2006 , 9, 1488-98	25.5	137
64	Parkinson's disease genes VPS35 and EIF4G1 interact genetically and converge on α -synuclein. <i>Neuron</i> , 2015 , 85, 76-87	13.9	122
63	UNC-33 (CRMP) and ankyrin organize microtubules and localize kinesin to polarize axon-dendrite sorting. <i>Nature Neuroscience</i> , 2011 , 15, 48-56	25.5	110
62	An extracellular adhesion molecule complex patterns dendritic branching and morphogenesis. <i>Cell</i> , 2013 , 155, 296-307	56.2	105
61	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> , 2016 , 113, 6029-34	11.5	104
60	Optical control of cell signaling by single-chain photoswitchable kinases. <i>Science</i> , 2017 , 355, 836-842	33.3	97
59	Local F-actin network links synapse formation and axon branching. <i>Cell</i> , 2014 , 156, 208-20	56.2	96
58	Intrinsic and extrinsic mechanisms of dendritic morphogenesis. <i>Annual Review of Physiology</i> , 2015 , 77, 271-300	23.1	94
57	The balance between capture and dissociation of presynaptic proteins controls the spatial distribution of synapses. <i>Neuron</i> , 2013 , 78, 994-1011	13.9	86
56	Kinesin-1 regulates dendrite microtubule polarity in <i>Caenorhabditis elegans</i> . <i>ELife</i> , 2013 , 2, e00133	8.9	82
55	Axon and dendritic trafficking. <i>Current Opinion in Neurobiology</i> , 2014 , 27, 165-70	7.6	75
54	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. <i>Science</i> , 2020 , 367, 1372-1376	33.3	70

53	The transmembrane LRR protein DMA-1 promotes dendrite branching and growth in <i>C. elegans</i> . <i>Nature Neuroscience</i> , 2011 , 15, 57-63	25.5	66
52	Microtubule Organization Determines Axonal Transport Dynamics. <i>Neuron</i> , 2016 , 92, 449-460	13.9	65
51	PTRN-1, a microtubule minus end-binding CAMSAP homolog, promotes microtubule function in <i>Caenorhabditis elegans</i> neurons. <i>ELife</i> , 2014 , 3, e01498	8.9	64
50	Genetic defects in Spectrin and tau sensitize axons to movement-induced damage via torque-tension coupling. <i>ELife</i> , 2017 , 6,	8.9	63
49	NAB-1 instructs synapse assembly by linking adhesion molecules and F-actin to active zone proteins. <i>Nature Neuroscience</i> , 2012 , 15, 234-42	25.5	62
48	MADD-4/Punctin and Neurexin Organize <i>C. elegans</i> GABAergic Postsynapses through Neuroligin. <i>Neuron</i> , 2015 , 86, 1420-32	13.9	55
47	Autoinhibition of a Neuronal Kinesin UNC-104/KIF1A Regulates the Size and Density of Synapses. <i>Cell Reports</i> , 2016 , 16, 2129-2141	10.6	53
46	Establishing Neuronal Polarity with Environmental and Intrinsic Mechanisms. <i>Neuron</i> , 2017 , 96, 638-650	13.9	50
45	Structural mechanisms of selectivity and gating in anion channelrhodopsins. <i>Nature</i> , 2018 , 561, 349-354	50.4	48
44	Extracellular architecture of the SYG-1/SYG-2 adhesion complex instructs synaptogenesis. <i>Cell</i> , 2014 , 156, 482-94	56.2	46
43	BORC Regulates the Axonal Transport of Synaptic Vesicle Precursors by Activating ARL-8. <i>Current Biology</i> , 2017 , 27, 2569-2578.e4	6.3	42
42	Sarcomeres Pattern Proprioceptive Sensory Dendritic Endings through UNC-52/Perlecan in <i>C. elegans</i> . <i>Developmental Cell</i> , 2015 , 33, 388-400	10.2	42
41	A multi-protein receptor-ligand complex underlies combinatorial dendrite guidance choices in. <i>ELife</i> , 2016 , 5,	8.9	40
40	RSY-1 is a local inhibitor of presynaptic assembly in <i>C. elegans</i> . <i>Science</i> , 2009 , 323, 1500-3	33.3	39
39	RAB-10 Regulates Dendritic Branching by Balancing Dendritic Transport. <i>PLoS Genetics</i> , 2015 , 11, e1005095	6.9	37
38	Two Clathrin Adaptor Protein Complexes Instruct Axon-Dendrite Polarity. <i>Neuron</i> , 2016 , 90, 564-80	13.9	33
37	The unfolded protein response is required for dendrite morphogenesis. <i>ELife</i> , 2015 , 4, e06963	8.9	32
36	The Neuronal Kinesin UNC-104/KIF1A Is a Key Regulator of Synaptic Aging and Insulin Signaling-Regulated Memory. <i>Current Biology</i> , 2016 , 26, 605-15	6.3	31

35	A Dendritic Guidance Receptor Complex Brings Together Distinct Actin Regulators to Drive Efficient F-Actin Assembly and Branching. <i>Developmental Cell</i> , 2018 , 45, 362-375.e3	10.2	30
34	Assembly of synaptic active zones requires phase separation of scaffold molecules. <i>Nature</i> , 2020 , 588, 454-458	50.4	29
33	Atlastin-1 regulates morphology and function of endoplasmic reticulum in dendrites. <i>Nature Communications</i> , 2019 , 10, 568	17.4	26
32	Parallel Processing of Two Mechanosensory Modalities by a Single Neuron in <i>C. elegans</i> . <i>Developmental Cell</i> , 2019 , 51, 617-631.e3	10.2	26
31	The inositol 5-phosphatase INPP5K participates in the fine control of ER organization. <i>Journal of Cell Biology</i> , 2018 , 217, 3577-3592	7.3	24
30	Growth cone-localized microtubule organizing center establishes microtubule orientation in dendrites. <i>ELife</i> , 2020 , 9,	8.9	24
29	Clarinet (CLA-1), a novel active zone protein required for synaptic vesicle clustering and release. <i>ELife</i> , 2017 , 6,	8.9	22
28	Neurexin and Frizzled Mediate Parallel Synapse Assembly Pathways Antagonized by Receptor Endocytosis. <i>Neuron</i> , 2018 , 100, 150-166.e4	13.9	22
27	Regulation of synaptic extracellular matrix composition is critical for proper synapse morphology. <i>Journal of Neuroscience</i> , 2014 , 34, 12678-89	6.6	21
26	Deep phenotyping unveils hidden traits and genetic relations in subtle mutants. <i>Nature Communications</i> , 2016 , 7, 12990	17.4	19
25	Precise regulation of the guidance receptor DMA-1 by KPC-1/Furin instructs dendritic branching decisions. <i>ELife</i> , 2016 , 5,	8.9	17
24	Rapid Assembly of Presynaptic Materials behind the Growth Cone in Dopaminergic Neurons Is Mediated by Precise Regulation of Axonal Transport. <i>Cell Reports</i> , 2018 , 24, 2709-2722	10.6	17
23	Dynein and EFF-1 control dendrite morphology by regulating the localization pattern of SAX-7 in epidermal cells. <i>Journal of Cell Science</i> , 2017 , 130, 4063-4071	5.3	16
22	The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival. <i>Cell</i> , 2018 , 174, 1436-1449.e20	56.2	16
21	An Endoplasmic Reticulum ATPase Safeguards Endoplasmic Reticulum Identity by Removing Ectopically Localized Mitochondrial Proteins. <i>Cell Reports</i> , 2020 , 33, 108363	10.6	16
20	Mice lacking the synaptic adhesion molecule Neph2/Kirrel3 display moderate hyperactivity and defective novel object preference. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 283	6.1	15
19	Synaptogenic pathways. <i>Current Opinion in Neurobiology</i> , 2019 , 57, 156-162	7.6	13
18	Receptor tyrosine phosphatase CLR-1 acts in skin cells to promote sensory dendrite outgrowth. <i>Developmental Biology</i> , 2016 , 413, 60-9	3.1	12

17	Local inhibition of microtubule dynamics by dynein is required for neuronal cargo distribution. <i>Nature Communications</i> , 2017 , 8, 15063	17.4	11
16	A novel bipartite UNC-101/AP-1 β binding signal mediates KVS-4/Kv2.1 somatodendritic distribution in <i>Caenorhabditis elegans</i> . <i>FEBS Letters</i> , 2016 , 590, 76-92	3.8	11
15	Neurite Development and Repair in Worms and Flies. <i>Annual Review of Neuroscience</i> , 2019 , 42, 209-226	17	10
14	Metaxins are core components of mitochondrial transport adaptor complexes. <i>Nature Communications</i> , 2021 , 12, 83	17.4	10
13	A Myt1 family transcription factor defines neuronal fate by repressing non-neuronal genes. <i>ELife</i> , 2019 , 8,	8.9	9
12	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> , 2017 , 10, 81	6.1	8
11	Proximity labeling reveals non-centrosomal microtubule-organizing center components required for microtubule growth and localization. <i>Current Biology</i> , 2021 , 31, 3586-3600.e11	6.3	8
10	A hormone receptor pathway cell-autonomously delays neuron morphological aging by suppressing endocytosis. <i>PLoS Biology</i> , 2019 , 17, e3000452	9.7	7
9	STORMing towards a clear picture of the cytoskeleton in neurons. <i>ELife</i> , 2015 , 4,	8.9	5
8	Author response: Kinesin-1 regulates dendrite microtubule polarity in <i>Caenorhabditis elegans</i> 2013 ,		2
7	Growth Cone-Localized Microtubule Organizing Center Establishes Microtubule Orientation in Dendrites		2
6	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> , 2021 , 118,	11.5	2
5	Finding functions of phase separation in the presynapse. <i>Current Opinion in Neurobiology</i> , 2021 , 69, 178-184	18.4	2
4	MTM-6, a phosphoinositide phosphatase, is required to promote synapse formation in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2014 , 9, e114501	3.7	1
3	Proximity labeling at non-centrosomal microtubule-organizing centers reveals VAB-10B and WDR-62 as distinct microtubule regulators		1
2	A two-step actin polymerization mechanism drives dendrite branching. <i>Neural Development</i> , 2021 , 16, 3	3.9	1
1	Inherited apicobasal polarity defines the key features of axon-dendrite polarity in a sensory neuron. <i>Current Biology</i> , 2021 , 31, 3768-3783.e3	6.3	0