

Mei Zhen

List of Publications by Year in descending order

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82
papers

6,324
citations

94433

37
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82547

72
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116
all docs

116
docs citations

116
times ranked

7189
citing authors

#	ARTICLE	IF	CITATIONS
1	Escape steering by cholecystokinin peptidergic signaling. <i>Cell Reports</i> , 2022, 38, 110330.	6.4	11
2	Signal requirement for cortical potential of transplantable human neuroepithelial stem cells. <i>Nature Communications</i> , 2022, 13, .	12.8	5
3	Real-time volumetric reconstruction of biological dynamics with light-field microscopy and deep learning. <i>Nature Methods</i> , 2021, 18, 551-556.	19.0	124
4	Corollary discharge promotes a sustained motor state in a neural circuit for navigation. <i>ELife</i> , 2021, 10, .	6.0	16
5	Toward a living soft microrobot through optogenetic locomotion control of <i>Caenorhabditis elegans</i> . <i>Science Robotics</i> , 2021, 6, .	17.6	33
6	Connectomes across development reveal principles of brain maturation. <i>Nature</i> , 2021, 596, 257-261.	27.8	205
7	Natural sensory context drives diverse brain-wide activity during <i>C. elegans</i> mating. <i>Cell</i> , 2021, 184, 5122-5137.e17.	28.9	39
8	Structural Analysis of the <i>Caenorhabditis elegans</i> Dauer Larval Anterior Sensilla by Focused Ion Beam-Scanning Electron Microscopy. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 732520.	1.7	12
9	Open syntaxin overcomes exocytosis defects of diverse mutants in <i>C. elegans</i> . <i>Nature Communications</i> , 2020, 11, 5516.	12.8	18
10	Overexpression of an ALS-associated FUS mutation in <i>C. elegans</i> disrupts NMJ morphology and leads to defective neuromuscular transmission. <i>Biology Open</i> , 2020, 9, .	1.2	20
11	Optogenetic Manipulation of Postsynaptic cAMP Using a Novel Transgenic Mouse Line Enables Synaptic Plasticity and Enhances Depolarization Following Tetanic Stimulation in the Hippocampal Dentate Gyrus. <i>Frontiers in Neural Circuits</i> , 2020, 14, 24.	2.8	6
12	Efficient and cost-effective 3D cellular imaging by sub-voxel-resolving light-sheet addition microscopy. <i>Journal of Biophotonics</i> , 2020, 13, e201960243.	2.3	9
13	Flexible motor sequence generation during stereotyped escape responses. <i>ELife</i> , 2020, 9, .	6.0	33
14	An Upconversion Nanoparticle Enables Near Infrared-Optogenetic Manipulation of the <i>Caenorhabditis elegans</i> Motor Circuit. <i>ACS Nano</i> , 2019, 13, 3373-3386.	14.6	52
15	A 3D culture model of innervated human skeletal muscle enables studies of the adult neuromuscular junction. <i>ELife</i> , 2019, 8, .	6.0	169
16	Gain-of-function mutations in the UNC-2/CaV2 \pm channel lead to excitation-dominant synaptic transmission in <i>Caenorhabditis elegans</i> . <i>ELife</i> , 2019, 8, .	6.0	27
17	<i>C. elegans</i> neurons have functional dendritic spines. <i>ELife</i> , 2019, 8, .	6.0	24
18	Descending pathway facilitates undulatory wave propagation in <i>Caenorhabditis elegans</i> through gap junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4493-E4502.	7.1	53

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19	A Pipeline for Volume Electron Microscopy of the <i>Caenorhabditis elegans</i> Nervous System. <i>Frontiers in Neural Circuits</i> , 2018, 12, 94.	2.8	33
20	Automated classification of synaptic vesicles in electron tomograms of <i>C. elegans</i> using machine learning. <i>PLoS ONE</i> , 2018, 13, e0205348.	2.5	8
21	<i>Caenorhabditis elegans</i> excitatory ventral cord motor neurons derive rhythm for body undulation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170370.	4.0	33
22	Excitatory motor neurons are local oscillators for backward locomotion. <i>ELife</i> , 2018, 7, .	6.0	79
23	The UBR-1 ubiquitin ligase regulates glutamate metabolism to generate coordinated motor pattern in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2018, 14, e1007303.	3.5	5
24	Myrf ER-Bound Transcription Factors Drive <i>C. elegans</i> Synaptic Plasticity via Cleavage-Dependent Nuclear Translocation. <i>Developmental Cell</i> , 2017, 41, 180-194.e7.	7.0	27
25	The HECT Family Ubiquitin Ligase EEL-1 Regulates Neuronal Function and Development. <i>Cell Reports</i> , 2017, 19, 822-835.	6.4	24
26	UNC-18 and Tomosyn Antagonistically Control Synaptic Vesicle Priming Downstream of UNC-13 in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2017, 37, 8797-8815.	3.6	39
27	A hybrid microfluidic device for on-demand orientation and multidirectional imaging of <i>C. elegans</i> organs and neurons. <i>Biomicrofluidics</i> , 2016, 10, 064111.	2.4	15
28	Filling the gap: adding super-resolution to array tomography for correlated ultrastructural and molecular identification of electrical synapses at the <i>C. elegans</i> connectome. <i>Neurophotonics</i> , 2016, 3, 041802.	3.3	41
29	Conformational states of syntaxin-1 govern the necessity of N-peptide binding in exocytosis of PC12 cells and <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2016, 27, 669-685.	2.1	13
30	Pan-neuronal imaging in roaming <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1082-8.	7.1	188
31	Neuroendocrine modulation sustains the <i>C. elegans</i> forward motor state. <i>ELife</i> , 2016, 5, .	6.0	48
32	MADD-4/Punctin and Neurexin Organize <i>C. elegans</i> GABAergic Postsynapses through Neuroligin. <i>Neuron</i> , 2015, 86, 1420-1432.	8.1	83
33	The NCA sodium leak channel is required for persistent motor circuit activity that sustains locomotion. <i>Nature Communications</i> , 2015, 6, 6323.	12.8	65
34	The <i>C. elegans</i> COE transcription factor UNC-3 activates lineage-specific apoptosis and affects neurite growth in the RID lineage. <i>Development (Cambridge)</i> , 2015, 142, 1447-57.	2.5	12
35	CCM-3/STRIPAK promotes seamless tube extension through endocytic recycling. <i>Nature Communications</i> , 2015, 6, 6449.	12.8	85
36	<i>C. elegans</i> locomotion: small circuits, complex functions. <i>Current Opinion in Neurobiology</i> , 2015, 33, 117-126.	4.2	158

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37	A Gain-of-Function Mutation in <i>NALCN</i> in a Child with Intellectual Disability, Ataxia, and Arthrogyposis. <i>Human Mutation</i> , 2015, 36, 753-757.	2.5	46
38	ALS/FTD Mutation-Induced Phase Transition of FUS Liquid Droplets and Reversible Hydrogels into Irreversible Hydrogels Impairs RNP Granule Function. <i>Neuron</i> , 2015, 88, 678-690.	8.1	716
39	A <i>Caenorhabditis elegans</i> developmental decision requires insulin signaling-mediated neuron-intestine communication. <i>Development (Cambridge)</i> , 2014, 141, 1767-1779.	2.5	92
40	A Pair of RNA-Binding Proteins Controls Networks of Splicing Events Contributing to Specialization of Neural Cell Types. <i>Molecular Cell</i> , 2014, 54, 946-959.	9.7	62
41	NLF-1 Delivers a Sodium Leak Channel to Regulate Neuronal Excitability and Modulate Rhythmic Locomotion. <i>Neuron</i> , 2013, 77, 1069-1082.	8.1	78
42	Attenuation of insulin signalling contributes to FSN-1-mediated regulation of synapse development. <i>EMBO Journal</i> , 2013, 32, 1745-1760.	7.8	24
43	Hyperactivation of B-Type Motor Neurons Results in Aberrant Synchrony of the <i>Caenorhabditis elegans</i> Motor Circuit. <i>Journal of Neuroscience</i> , 2013, 33, 5319-5325.	3.6	25
44	<i>Caenorhabditis elegans</i> Flamingo Cadherin <i>fmi-1</i> Regulates GABAergic Neuronal Development. <i>Journal of Neuroscience</i> , 2012, 32, 4196-4211.	3.6	37
45	ALS mutations in FUS cause neuronal dysfunction and death in <i>Caenorhabditis elegans</i> by a dominant gain-of-function mechanism. <i>Human Molecular Genetics</i> , 2012, 21, 1-9.	2.9	148
46	Releasing the Inner Inhibition for Axon Regeneration. <i>Neuron</i> , 2012, 73, 207-209.	8.1	8
47	Proprioceptive Coupling within Motor Neurons Drives <i>C.Âlegans</i> Forward Locomotion. <i>Neuron</i> , 2012, 76, 750-761.	8.1	219
48	An Imbalancing Act: Gap Junctions Reduce the Backward Motor Circuit Activity to Bias <i>C.Âlegans</i> for Forward Locomotion. <i>Neuron</i> , 2011, 72, 572-586.	8.1	218
49	Lack of association of NALCN genetic variants with schizophrenia. <i>Psychiatry Research</i> , 2011, 185, 450-452.	3.3	6
50	A Co-operative Regulation of Neuronal Excitability by UNC-7 Innexin and NCA/NALCN Leak Channel. <i>Molecular Brain</i> , 2011, 4, 16.	2.6	28
51	Networking in a global world: Establishing functional connections between neural splicing regulators and their target transcripts. <i>Rna</i> , 2011, 17, 775-791.	3.5	65
52	Genome-wide analysis of alternative splicing in <i>Caenorhabditis elegans</i> . <i>Genome Research</i> , 2011, 21, 342-348.	5.5	137
53	The Dystrophin-associated Protein Complex Maintains Muscle Excitability by Regulating Ca ²⁺ -dependent K ⁺ (BK) Channel Localization. <i>Journal of Biological Chemistry</i> , 2011, 286, 33501-33510.	3.4	21
54	The Presynaptic Dense Projection of the <i>Caenorhabditis elegans</i> Cholinergic Neuromuscular Junction Localizes Synaptic Vesicles at the Active Zone through SYD-2/Liprin and UNC-10/RIM-Dependent Interactions. <i>Journal of Neuroscience</i> , 2011, 31, 4388-4396.	3.6	103

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55	Action potentials drive body wall muscle contractions in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2557-2562.	7.1	128
56	Mutations in a Guanylate Cyclase GCY-35/GCY-36 Modify Bardet-Biedl Syndrome-Associated Phenotypes in <i>Caenorhabditis elegans</i> . PLoS Genetics, 2011, 7, e1002335.	3.5	19
57	PHRs: bridging axon guidance, outgrowth and synapse development. Current Opinion in Neurobiology, 2010, 20, 100-107.	4.2	36
58	Ciliary dysfunction and obesity. Clinical Genetics, 2010, 77, 18-27.	2.0	29
59	<i>C. elegans</i> STRAD \pm and SAD cooperatively regulate neuronal polarity and synaptic organization. Development (Cambridge), 2010, 137, 93-102.	2.5	36
60	The long and the short of SAD-1 kinase. Communicative and Integrative Biology, 2010, 3, 251-255.	1.4	5
61	<i>Caenorhabditis elegans</i> Innexins Regulate Active Zone Differentiation. Journal of Neuroscience, 2009, 29, 5207-5217.	3.6	28
62	Regulation of Vertebrate Nervous System Alternative Splicing and Development by an SR-Related Protein. Cell, 2009, 138, 898-910.	28.9	195
63	A chemical-genetic strategy reveals distinct temporal requirements for SAD-1 kinase in neuronal polarization and synapse formation. Neural Development, 2008, 3, 23.	2.4	32
64	ITSN α 1 Controls Vesicle Recycling at the Neuromuscular Junction and Functions in Parallel with DAB α 1. Traffic, 2008, 9, 742-754.	2.7	43
65	The SCFFSN-1 ubiquitin ligase controls germline apoptosis through CEP-1/p53 in <i>C. elegans</i> . Cell Death and Differentiation, 2008, 15, 1054-1062.	11.2	39
66	Optogenetic analysis of synaptic function. Nature Methods, 2008, 5, 895-902.	19.0	184
67	Protons as Intercellular Messengers. Cell, 2008, 132, 21-22.	28.9	3
68	Absolute Threshold. , 2008, , 3-3.		0
69	A Putative Cation Channel, NCA-1, and a Novel Protein, UNC-80, Transmit Neuronal Activity in <i>C. elegans</i> . PLoS Biology, 2008, 6, e55.	5.6	109
70	An Essential Role for DYF-11/MIP-T3 in Assembling Functional Intraflagellar Transport Complexes. PLoS Genetics, 2008, 4, e1000044.	3.5	48
71	Neuronal polarity is regulated by a direct interaction between a scaffolding protein, Neurabin, and a presynaptic SAD-1 kinase in <i>Caenorhabditis elegans</i> . Development (Cambridge), 2007, 134, 237-249.	2.5	61
72	Presynaptic Terminal Differentiation. , 2007, , 75-94.		0

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73	Hierarchical assembly of presynaptic components in defined <i>C. elegans</i> synapses. <i>Nature Neuroscience</i> , 2006, 9, 1488-1498.	14.8	166
74	The C2H2 zinc-finger protein SYD-9 is a putative posttranscriptional regulator for synaptic transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10450-10455.	7.1	15
75	Identification of Genes Involved in Synaptogenesis Using a Fluorescent Active Zone Marker in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2005, 25, 3833-3841.	3.6	89
76	An SCF-like ubiquitin ligase complex that controls presynaptic differentiation. <i>Nature</i> , 2004, 430, 345-350.	27.8	201
77	Presynaptic terminal differentiation: transport and assembly. <i>Current Opinion in Neurobiology</i> , 2004, 14, 280-287.	4.2	46
78	The SAD-1 Kinase Regulates Presynaptic Vesicle Clustering and Axon Termination. <i>Neuron</i> , 2001, 29, 115-129.	8.1	166
79	Regulation of Presynaptic Terminal Organization by <i>C. elegans</i> RPM-1, a Putative Guanine Nucleotide Exchanger with a RING-H2 Finger Domain. <i>Neuron</i> , 2000, 26, 331-343.	8.1	216
80	The liprin protein SYD-2 regulates the differentiation of presynaptic termini in <i>C. elegans</i> . <i>Nature</i> , 1999, 401, 371-375.	27.8	324
81	Title is missing!. <i>Nature</i> , 1999, 401, 371-375.	27.8	151
82	An essential ubiquitin-conjugating enzyme with tissue and developmental specificity in th nematode <i>Caenorhabditis elegans</i> . <i>EMBO Journal</i> , 1996, 15, 3229-37.	7.8	11