Ling-Gang Wu

List of Publications by Year
in descending order

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71 papers	7,214 citations	81900 39 h-index	95266 68 g-index

76 all docs	76 docs citations	76 times ranked	7352 citing authors

#	Article	IF	Citations
1	Clathrin-mediated endocytosis cooperates with bulk endocytosis to generate vesicles. IScience, 2022, 25, 103809.	4.1	7
2	Multiple Roles of Actin in Exo- and Endocytosis. Frontiers in Synaptic Neuroscience, 2022, 14, 841704.	2.5	24
3	Dynamin 1 controls vesicle size and endocytosis at hippocampal synapses. Cell Calcium, 2022, 103, 102564.	2.4	3
4	Phospholipase A2-based probes to study vesicle trafficking. Cell Reports Methods, 2022, 2, 100206.	2.9	0
5	Real-time visualization of exo- and endocytosis membrane dynamics with confocal and super-resolution microscopy. STAR Protocols, 2022, 3, 101404.	1.2	2
6	Sequential compound fusion and kiss-and-run mediate exo- and endocytosis in excitable cells. Science Advances, 2022, 8, .	10.3	5
7	Light and electron microscopic imaging of synaptic vesicle endocytosis at mouse hippocampal cultures. STAR Protocols, 2022, 3, 101495.	1.2	0
8	Molecular mechanics underlying flat-to-round membrane budding in live secretory cells. Nature Communications, 2022, 13, .	12.8	5
9	Presynaptic Kv3 channels are required for fast and slow endocytosis of synaptic vesicles. Neuron, 2021, 109, 938-946.e5.	8.1	16
10	Preformed Î©-profile closure and kiss-and-run mediate endocytosis and diverse endocytic modes in neuroendocrine chromaffin cells. Neuron, 2021, 109, 3119-3134.e5.	8.1	24
11	Vesicle Shrinking and Enlargement Play Opposing Roles in the Release of Exocytotic Contents. Cell Reports, 2020, 30, 421-431.e7.	6.4	41
12	Vesicle Structural Changes Control Content Release of Transmitters and Hormones. Microscopy and Microanalysis, 2019, 25, 1172-1173.	0.4	0
13	Protein Kinase C and Calmodulin Serve As Calcium Sensors for Calcium-Stimulated Endocytosis at Synapses. Journal of Neuroscience, 2019, 39, 9478-9490.	3.6	15
14	Visualization of Membrane Pore in Live Cells Reveals a Dynamic-Pore Theory Governing Fusion and Endocytosis. Cell, 2018, 173, 934-945.e12.	28.9	163
15	New observations in neuroscience using superresolution microscopy. Journal of Neuroscience, 2018, 38, 9459-9467.	3.6	50
16	Measuring Synaptic Vesicle Endocytosis in Cultured Hippocampal Neurons. Journal of Visualized Experiments, 2017, , .	0.3	9
17	Membrane Tension Inhibits Rapid and Slow Endocytosis in Secretory Cells. Biophysical Journal, 2017, 113, 2406-2414.	0.5	40
18	Fusion of lysosomes with secretory organelles leads to uncontrolled exocytosis in the lysosomal storage disease mucolipidosis type <scp>IV</scp>. EMBO Reports, 2016, 17, 266-278.	4.5	39

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19	Î±-Synuclein Mutation Inhibits Endocytosis at Mammalian Central Nerve Terminals. Journal of Neuroscience, 2016, 36, 4408-4414.	3.6	66
20	Actin Is Crucial for All Kinetically Distinguishable Forms of Endocytosis at Synapses. Neuron, 2016, 92, 1020-1035.	8.1	97
21	Actin dynamics provides membrane tension to merge fusing vesicles into the plasma membrane. Nature Communications, 2016, 7, 12604.	12.8	127
22	Hemi-fused structure mediates and controls fusion and fission in live cells. Nature, 2016, 534, 548-552.	27.8	117
23	The calyx of Held in the auditory system: Structure, function, and development. Hearing Research, 2016, 338, 22-31.	2.0	27
24	Suppression of agrinâ€22 production and synaptic dysfunction in Cln1 âˆ’/âˆ’ mice. Annals of Clinical and Translational Neurology, 2015, 2, 1085-1104.	3.7	13
25	Brain-Derived Neurotrophic Factor Inhibits Calcium Channel Activation, Exocytosis, and Endocytosis at a Central Nerve Terminal. Journal of Neuroscience, 2015, 35, 4676-4682.	3.6	28
26	The Yin and Yang of Calcium Effects on Synaptic Vesicle Endocytosis. Journal of Neuroscience, 2014, 34, 2652-2659.	3.6	38
27	Plasma membrane translocation of trimerized MLKL protein is required for TNF-induced necroptosis. Nature Cell Biology, 2014, 16, 55-65.	10.3	1,022
28	Exocytosis and Endocytosis: Modes, Functions, and Coupling Mechanisms. Annual Review of Physiology, 2014, 76, 301-331.	13.1	334
29	Calcineurin upregulates local Ca²⁺signaling through ryanodine receptor-1 in airway smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L781-L790.	2.9	10
30	Post-fusion structural changes and their roles in exocytosis and endocytosis of dense-core vesicles. Nature Communications, 2014, 5, 3356.	12.8	77
31	Calcineurin Is Universally Involved in Vesicle Endocytosis at Neuronal and Nonneuronal Secretory Cells. Cell Reports, 2014, 7, 982-988.	6.4	63
32	SNARE Proteins Synaptobrevin, SNAP-25, and Syntaxin Are Involved in Rapid and Slow Endocytosis at Synapses. Cell Reports, 2013, 3, 1414-1421.	6.4	71
33	Most Vesicles in a Central Nerve Terminal Participate in Recycling. Journal of Neuroscience, 2013, 33, 8820-8826.	3.6	21
34	The SNARE Proteins SNAP25 and Synaptobrevin Are Involved in Endocytosis at Hippocampal Synapses. Journal of Neuroscience, 2013, 33, 9169-9175.	3.6	53
35	A Membrane Pool Retrieved via Endocytosis Overshoot at Nerve Terminals: A Study of Its Retrieval Mechanism and Role. Journal of Neuroscience, 2012, 32, 3398-3404.	3.6	21
36	Cysteine String Protein Î±: A New Role in Vesicle Recycling. Neuron, 2012, 74, 6-8.	8.1	3

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37	Calcium-channel number critically influences synaptic strength and plasticity at the active zone. Nature Neuroscience, 2012, 15, 998-1006.	14.8	116
38	Voltage-Dependent Calcium Channels at the Plasma Membrane, but Not Vesicular Channels, Couple Exocytosis to Endocytosis. Cell Reports, 2012, 1, 632-638.	6.4	41
39	Conditional Expression of Parkinson's Disease-Related Mutant Â-Synuclein in the Midbrain Dopaminergic Neurons Causes Progressive Neurodegeneration and Degradation of Transcription Factor Nuclear Receptor Related 1. Journal of Neuroscience, 2012, 32, 9248-9264.	3.6	165
40	Post-tetanic potentiation is caused by two signalling mechanisms affecting quantal size and quantal content. Journal of Physiology, 2010, 588, 4987-4994.	2.9	25
41	The Role of Calcium/Calmodulin-Activated Calcineurin in Rapid and Slow Endocytosis at Central Synapses. Journal of Neuroscience, 2010, 30, 11838-11847.	3.6	94
42	Endocytosis and clathrin-uncoating defects at synapses of auxilin knockout mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4412-4417.	7.1	119
43	Rapid Endocytosis Does Not Recycle Vesicles within the Readily Releasable Pool. Journal of Neuroscience, 2009, 29, 11038-11042.	3.6	36
44	Ca2+ and calmodulin initiate all forms of endocytosis during depolarization at a nerve terminal. Nature Neuroscience, 2009, 12, 1003-1010.	14.8	204
45	Location Matters: Synaptotagmin Helps Place Vesicles Near Calcium Channels. Neuron, 2009, 63, 419-421.	8.1	4
46	Compound vesicle fusion increases quantal size and potentiates synaptic transmission. Nature, 2009, 459, 93-97.	27.8	119
47	GTP-independent rapid and slow endocytosis at a central synapse. Nature Neuroscience, 2008, 11, 45-53.	14.8	76
48	Rapid bulk endocytosis and its kinetics of fission pore closure at a central synapse. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10234-10239.	7.1	86
49	The Origin of Quantal Size Variation: Vesicular Glutamate Concentration Plays a Significant Role. Journal of Neuroscience, 2007, 27, 3046-3056.	3.6	91
50	Modes of Vesicle Retrieval at Ribbon Synapses, Calyx-Type Synapses, and Small Central Synapses. Journal of Neuroscience, 2007, 27, 11793-11802.	3.6	91
51	Methods for Patch Clamp Capacitance Recordings from the Calyx. Journal of Visualized Experiments, 2007, , 244.	0.3	4
52	The debate on the kiss-and-run fusion at synapses. Trends in Neurosciences, 2007, 30, 447-455.	8.6	101
53	Role of Ca2+ channels in short-term synaptic plasticity. Current Opinion in Neurobiology, 2007, 17, 352-359.	4.2	77
54	Synaptic Vesicle Cycle at Nerve Terminals. , 2007, , 27-40.		0

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55	Two modes of fusion pore opening revealed by cell-attached recordings at a synapse. Nature, 2006, 444, 102-105.	27.8	209
56	Activity-Dependent Acceleration of Endocytosis at a Central Synapse. Journal of Neuroscience, 2005, 25, 11676-11683.	3.6	117
57	The Decrease in the Presynaptic Calcium Current Is a Major Cause of Short-Term Depression at a Calyx-Type Synapse. Neuron, 2005, 46, 633-645.	8.1	204
58	Capacitance measurements at the calyx of Held in the medial nucleus of the trapezoid body. Journal of Neuroscience Methods, 2004, 134, 121-131.	2.5	39
59	Kinetic regulation of vesicle endocytosis at synapses. Trends in Neurosciences, 2004, 27, 548-554.	8.6	56
60	Isoflurane Inhibits Transmitter Release and the Presynaptic Action Potential. Anesthesiology, 2004, 100, 663-670.	2.5	136
61	Single and multiple vesicle fusion induce different rates of endocytosis at a central synapse. Nature, 2002, 417, 555-559.	27.8	220
62	Fast Kinetics of Exocytosis Revealed by Simultaneous Measurements of Presynaptic Capacitance and Postsynaptic Currents at a Central Synapse. Neuron, 2001, 30, 171-182.	8.1	221
63	Protein Kinase C Increases the Apparent Affinity of the Release Machinery to Ca²⁺ by Enhancing the Release Machinery Downstream of the Ca²⁺ Sensor. Journal of Neuroscience, 2001, 21, 7928-7936.	3.6	68
64	Calcium Channel Types with Distinct Presynaptic Localization Couple Differentially to Transmitter Release in Single Calyx-Type Synapses. Journal of Neuroscience, 1999, 19, 726-736.	3.6	393
65	Imaging Synaptic Activity in Intact Brain and Slices with FM1-43 in C. elegans, Lamprey, and Rat. Neuron, 1999, 24, 809-817.	8.1	153
66	The Reduced Release Probability of Releasable Vesicles during Recovery from Short-Term Synaptic Depression. Neuron, 1999, 23, 821-832.	8.1	275
67	Kinetics of Synaptic Depression and Vesicle Recycling after Tetanic Stimulation of Frog Motor Nerve Terminals. Biophysical Journal, 1998, 74, 3003-3009.	0.5	62
68	Presynaptic Calcium Dynamics and Transmitter Release Evoked by Single Action Potentials at Mammalian Central Synapses. Biophysical Journal, 1997, 72, 637-651.	0.5	73
69	Presynaptic inhibition of elicited neurotransmitter release. Trends in Neurosciences, 1997, 20, 204-212.	8.6	563
70	Adenosine inhibits evoked synaptic transmission primarily by reducing presynaptic calcium influx in area CA1 of hippocampus. Neuron, 1994, 12, 1139-1148.	8.1	332
71	Neuromuscular function. , 0, , 261-276.		1