Wei Lu

List of Publications by Year
in descending order

45 papers	3,975 citations	186265 28 h-index	233421 45 g-index
50 all docs	50 docs citations	50 times ranked	5599 citing authors

#	Article	IF	Citations
1	Increased Expression of Î±-Synuclein Reduces Neurotransmitter Release by Inhibiting Synaptic Vesicle Reclustering after Endocytosis. Neuron, 2010, 65, 66-79.	8.1	885
2	Subunit Composition of Synaptic AMPA Receptors Revealed by a Single-Cell Genetic Approach. Neuron, 2009, 62, 254-268.	8.1	558
3	LTP requires a reserve pool of glutamate receptors independent of subunit type. Nature, 2013, 493, 495-500.	27.8	275
4	PICK1 Interacts with ABP/GRIP to Regulate AMPA Receptor Trafficking. Neuron, 2005, 47, 407-421.	8.1	203
5	Activation of NR2B-containing NMDA receptors is not required for NMDA receptor-dependent long-term depression. Neuropharmacology, 2007, 52, 71-76.	4.1	199
6	Posttranslational regulation of AMPA receptor trafficking and function. Current Opinion in Neurobiology, 2012, 22, 470-479.	4.2	176
7	The Stoichiometry of AMPA Receptors and TARPs Varies by Neuronal Cell Type. Neuron, 2009, 62, 633-640.	8.1	123
8	Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. Neuron, 2020, 106, 37-65.e5.	8.1	109
9	Metaplastic Regulation of Long-Term Potentiation/Long-Term Depression Threshold by Activity-Dependent Changes of NR2A/NR2B Ratio. Journal of Neuroscience, 2009, 29, 8764-8773.	3.6	95
10	PKCÎ» is critical in AMPA receptor phosphorylation and synaptic incorporation during LTP. EMBO Journal, 2013, 32, 1365-1380.	7.8	93
11	Synaptic Anchorage of AMPA Receptors by Cadherins through Neural Plakophilin-Related Arm Protein AMPA Receptor-Binding Protein Complexes. Journal of Neuroscience, 2007, 27, 8505-8516.	3.6	90
12	Mossy Cells Control Adult Neural Stem Cell Quiescence and Maintenance through a Dynamic Balance between Direct and Indirect Pathways. Neuron, 2018, 99, 493-510.e4.	8.1	82
13	GSG1L suppresses AMPA receptor-mediated synaptic transmission and uniquely modulates AMPA receptor kinetics in hippocampal neurons. Nature Communications, 2016, 7, 10873.	12.8	79
14	The Cell-Autonomous Role of Excitatory Synaptic Transmission in the Regulation of Neuronal Structure and Function. Neuron, 2013, 78, 433-439.	8.1	75
15	Synaptic targeting of AMPA receptors is regulated by a CaMKII site in the first intracellular loop of GluA1. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22266-22271.	7.1	74
16	Role for VGLUT2 in selective vulnerability of midbrain dopamine neurons. Journal of Clinical Investigation, 2018, 128, 774-788.	8.2	72
17	Shisa7 is a GABA _A receptor auxiliary subunit controlling benzodiazepine actions. Science, 2019, 366, 246-250.	12.6	65
18	A Rare Variant Identified Within the GluN2B C-Terminus in a Patient with Autism Affects NMDA Receptor Surface Expression and Spine Density. Journal of Neuroscience, 2017, 37, 4093-4102.	3.6	64

#	Article	IF	Citations
19	Molecular Dissection of Neuroligin 2 and Slitrk3 Reveals an Essential Framework for GABAergic Synapse Development. Neuron, 2017, 96, 808-826.e8.	8.1	64
20	An NMDA Receptor-Dependent Mechanism Underlies Inhibitory Synapse Development. Cell Reports, 2016, 14, 471-478.	6.4	55
21	A Cluster of Autism-Associated Variants on X-Linked NLGN4X Functionally Resemble NLGN4Y. Neuron, 2020, 106, 759-768.e7.	8.1	45
22	PSD-95 binding dynamically regulates NLGN1 trafficking and function. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12035-12044.	7.1	42
23	Trafficking of Î±-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid Receptor (AMPA) Receptor Subunit GluA2 from the Endoplasmic Reticulum Is Stimulated by a Complex Containing Ca2+/Calmodulin-activated Kinase II (CaMKII) and PICK1 Protein and by Release of Ca2+ from Internal Stores. Journal of Biological Chemistry, 2014, 289, 19218-19230.	3.4	37
24	Regulation of GABAergic synapse development by postsynaptic membrane proteins. Brain Research Bulletin, 2017, 129, 30-42.	3.0	37
25	An Epilepsy-Associated GRIN2A Rare Variant Disrupts CaMKIIÎ± Phosphorylation of GluN2A and NMDA Receptor Trafficking. Cell Reports, 2020, 32, 108104.	6.4	37
26	Regulation of GABAARs by Transmembrane Accessory Proteins. Trends in Neurosciences, 2021, 44, 152-165.	8.6	35
27	Synaptic Metaplasticity through NMDA Receptor Lateral Diffusion. Journal of Neuroscience, 2008, 28, 3060-3070.	3.6	34
28	Looking for Novelty in an â€œOldâ€• Receptor: Recent Advances Toward Our Understanding of GABAARs and Their Implications in Receptor Pharmacology. Frontiers in Neuroscience, 2020, 14, 616298.	2.8	34
29	Genetic analysis of neuronal ionotropic glutamate receptor subunits. Journal of Physiology, 2011, 589, 4095-4101.	2.9	31
30	Casein kinase 2 phosphorylates <scp>G</scp>lu<scp>A</scp>1 and regulates its surface expression. European Journal of Neuroscience, 2014, 39, 1148-1158.	2.6	23
31	GSG1L regulates the strength of AMPA receptor-mediated synaptic transmission but not AMPA receptor kinetics in hippocampal dentate granule neurons. Journal of Neurophysiology, 2017, 117, 28-35.	1.8	19
32	Activity- and sleep-dependent regulation of tonic inhibition by Shisa7. Cell Reports, 2021, 34, 108899.	6.4	19
33	Potentiation of Synaptic AMPA Receptors Induced by the Deletion of NMDA Receptors Requires the GluA2 Subunit. Journal of Neurophysiology, 2011, 105, 923-928.	1.8	18
34	Neurolastin, a Dynamin Family GTPase, Regulates Excitatory Synapses and Spine Density. Cell Reports, 2015, 12, 743-751.	6.4	18
35	Ferric Chelate Reductase 1 Like Protein (FRRS1L) Associates with Dynein Vesicles and Regulates Glutamatergic Synaptic Transmission. Frontiers in Molecular Neuroscience, 2017, 10, 402.	2.9	16
36	The post-synaptic scaffolding protein tamalin regulates ligand-mediated trafficking of metabotropic glutamate receptors. Journal of Biological Chemistry, 2020, 295, 8575-8588.	3.4	15

#	Article	IF	Citations
37	How could N-Methyl-D-Aspartate Receptor Antagonists Lead to Excitation Instead of Inhibition?. Brain Science Advances, 2018, 4, 73-98.	0.9	14
38	Genetic deletion of NMDA receptors suppresses GABAergic synaptic transmission in two distinct types of central neurons. Neuroscience Letters, 2018, 668, 147-153.	2.1	13
39	Genetic inhibition of neurotransmission reveals role of glutamatergic input to dopamine neurons in high-effort behavior. Molecular Psychiatry, 2018, 23, 1213-1225.	7.9	13
40	Distinct regulation of tonic GABAergic inhibition by NMDA receptor subtypes. Cell Reports, 2021, 37, 109960.	6.4	12
41	Genetic Deletion of GABAA Receptors Reveals Distinct Requirements of Neurotransmitter Receptors for GABAergic and Glutamatergic Synapse Development. Frontiers in Cellular Neuroscience, 2019, 13, 217.	3.7	7
42	Neuronal accumulation of peroxidated lipids promotes demyelination and neurodegeneration through the activation of the microglial NLRP3 inflammasome. Nature Aging, 2021, 1, 1024-1037.	11.6	7
43	A Conserved Tyrosine Residue in Slitrk3 Carboxyl-Terminus Is Critical for GABAergic Synapse Development. Frontiers in Molecular Neuroscience, 2019, 12, 213.	2.9	5
44	Shisa7 phosphorylation regulates GABAergic transmission and neurodevelopmental behaviors. Neuropsychopharmacology, 2022, 47, 2160-2170.	5.4	5
45	Development of fast neurotransmitter synapses: General principle and recent progress. Brain Research Bulletin, 2017, 129, 1-2.	3.0	2