

# Lu Chen

## List of Publications by Year in descending order

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44  
papers

6,503  
citations

147801

31  
h-index

243625

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74  
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74  
docs citations

74  
times ranked

7540  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Single-Step Induction of Functional Neurons from Human Pluripotent Stem Cells. <i>Neuron</i> , 2013, 78, 785-798.	8.1	1,209
2	Stargazin regulates synaptic targeting of AMPA receptors by two distinct mechanisms. <i>Nature</i> , 2000, 408, 936-943.	27.8	975
3	Direct interactions between PSD-95 and stargazin control synaptic AMPA receptor number. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 13902-13907.	7.1	656
4	Functional studies and distribution define a family of transmembrane AMPA receptor regulatory proteins. <i>Journal of Cell Biology</i> , 2003, 161, 805-816.	5.2	486
5	Synaptic Signaling by All-Trans Retinoic Acid in Homeostatic Synaptic Plasticity. <i>Neuron</i> , 2008, 60, 308-320.	8.1	324
6	Postsynaptic assembly induced by neurexin-neurologin interaction and neurotransmitter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6137-6142.	7.1	281
7	Aldehyde dehydrogenase 1a1 mediates a GABA synthesis pathway in midbrain dopaminergic neurons. <i>Science</i> , 2015, 350, 102-106.	12.6	182
8	Fragile X Protein FMRP Is Required for Homeostatic Plasticity and Regulation of Synaptic Strength by Retinoic Acid. <i>Journal of Neuroscience</i> , 2010, 30, 16910-16921.	3.6	160
9	Postsynaptic synaptotagmins mediate AMPA receptor exocytosis during LTP. <i>Nature</i> , 2017, 544, 316-321.	27.8	153
10	Phosphorylation of the Postsynaptic Density-95 (PSD-95)/Discs Large/Zona Occludens-1 Binding Site of Stargazin Regulates Binding to PSD-95 and Synaptic Targeting of AMPA Receptors. <i>Journal of Neuroscience</i> , 2002, 22, 5791-5796.	3.6	142
11	$\hat{1}^2$ -Neurexins Control Neural Circuits by Regulating Synaptic Endocannabinoid Signaling. <i>Cell</i> , 2015, 162, 593-606.	28.9	123
12	Retinoic acid regulates $RAR\hat{1}^{\pm}$ -mediated control of translation in dendritic RNA granules during homeostatic synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16015-16020.	7.1	121
13	Retinoic acid-gated sequence-specific translational control by $RAR\hat{1}^{\pm}$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20303-20308.	7.1	120
14	Synaptic retinoic acid signaling and homeostatic synaptic plasticity. <i>Neuropharmacology</i> , 2014, 78, 3-12.	4.1	109
15	Decrease in Calcium Concentration Triggers Neuronal Retinoic Acid Synthesis during Homeostatic Synaptic Plasticity. <i>Journal of Neuroscience</i> , 2011, 31, 17764-17771.	3.6	94
16	Postsynaptic EphrinB3 Promotes Shaft Glutamatergic Synapse Formation. <i>Journal of Neuroscience</i> , 2007, 27, 7508-7519.	3.6	82
17	AMPA receptor/TARP stoichiometry visualized by single-molecule subunit counting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5163-5168.	7.1	79
18	The fragile X mutation impairs homeostatic plasticity in human neurons by blocking synaptic retinoic acid signaling. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	79

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19	The Retromer Supports AMPA Receptor Trafficking During LTP. <i>Neuron</i> , 2017, 94, 74-82.e5.	8.1	74
20	Stargazin Differentially Controls the Trafficking of $\hat{\Gamma}$ -Amino-3-hydroxyl-5-methyl-4-isoxazolepropionate and Kainate Receptors. <i>Molecular Pharmacology</i> , 2003, 64, 703-706.	2.3	72
21	Retinoic Acid and LTP Recruit Postsynaptic AMPA Receptors Using Distinct SNARE-Dependent Mechanisms. <i>Neuron</i> , 2015, 86, 442-456.	8.1	72
22	Homeostatic synaptic plasticity as a metaplasticity mechanism—a molecular and cellular perspective. <i>Current Opinion in Neurobiology</i> , 2019, 54, 44-53.	4.2	65
23	Rapid Suppression of Inhibitory Synaptic Transmission by Retinoic Acid. <i>Journal of Neuroscience</i> , 2013, 33, 11440-11450.	3.6	63
24	Chronic Inactivation of a Neural Circuit Enhances LTP by Inducing Silent Synapse Formation. <i>Journal of Neuroscience</i> , 2013, 33, 2087-2096.	3.6	63
25	Bidirectional ephrin/Eph signaling in synaptic functions. <i>Brain Research</i> , 2007, 1184, 72-80.	2.2	60
26	A metaplasticity view of the interaction between homeostatic and Hebbian plasticity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160155.	4.0	57
27	Calcineurin mediates homeostatic synaptic plasticity by regulating retinoic acid synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5744-52.	7.1	50
28	Accelerated Experience-Dependent Pruning of Cortical Synapses in Ephrin-A2 Knockout Mice. <i>Neuron</i> , 2013, 80, 64-71.	8.1	48
29	Synaptic retinoic acid receptor signaling mediates mTOR-dependent metaplasticity that controls hippocampal learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7113-7122.	7.1	40
30	Conditional $\hat{\Gamma}$ knockout mice reveal acute requirement for retinoic acid and $\hat{\Gamma}$ in homeostatic plasticity. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 16.	2.9	39
31	An analog of psychedelics restores functional neural circuits disrupted by unpredictable stress. <i>Molecular Psychiatry</i> , 2021, 26, 6237-6252.	7.9	39
32	Retinoic Acid Receptor $\hat{\Gamma}$ -Dependent Synaptic Signaling Mediates Homeostatic Synaptic Plasticity at the Inhibitory Synapses of Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2018, 38, 10454-10466.	3.6	36
33	Cell-type-specific profiling of human cellular models of fragile X syndrome reveal PI3K-dependent defects in translation and neurogenesis. <i>Cell Reports</i> , 2021, 35, 108991.	6.4	36
34	Acute knockdown of AMPA receptors reveals a trans-synaptic signal for presynaptic maturation. <i>EMBO Journal</i> , 2011, 30, 1577-1592.	7.8	29
35	Dynamics of postsynaptic glutamate receptor targeting. <i>Current Opinion in Neurobiology</i> , 2007, 17, 53-58.	4.2	25
36	Homeostatic plasticity and excitation-inhibition balance: The good, the bad, and the ugly. <i>Current Opinion in Neurobiology</i> , 2022, 75, 102553.	4.2	25

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37	The Quest for the Hippocampal Memory Engram: From Theories to Experimental Evidence. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 632019.	2.0	16
38	Defective memory engram reactivation underlies impaired fear memory recall in Fragile X syndrome. <i>ELife</i> , 2020, 9, .	6.0	14
39	Differential regulation of spontaneous and evoked inhibitory synaptic transmission in somatosensory cortex by retinoic acid. <i>Synapse</i> , 2016, 70, 445-452.	1.2	12
40	Postnatal Ablation of Synaptic Retinoic Acid Signaling Impairs Cortical Information Processing and Sensory Discrimination in Mice. <i>Journal of Neuroscience</i> , 2018, 38, 5277-5288.	3.6	10
41	Kinase pathway inhibition restores PSD95 induction in neurons lacking fragile X mental retardation protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12007-12012.	7.1	5
42	FMRP Interacts with RAR $\beta$ in Synaptic Retinoic Acid Signaling and Homeostatic Synaptic Plasticity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6579.	4.1	5
43	Identification of cis-regulatory modules for adeno-associated virus-based cell-type-specific targeting in the retina and brain. <i>Journal of Biological Chemistry</i> , 2022, 298, 101674.	3.4	3
44	Synaptic Trafficking of AMPA Receptors. , 2007, , 175-201.		2