

Cheng Xiao

List of Publications by Year in descending order

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49
papers

2,902
citations

186265

28
h-index

189892

50
g-index

50
all docs

50
docs citations

50
times ranked

4201
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic Nicotine Cell Specifically Upregulates Functional $\alpha 4^*$ Nicotinic Receptors: Basis for Both Tolerance in Midbrain and Enhanced Long-Term Potentiation in Perforant Path. <i>Journal of Neuroscience</i> , 2007, 27, 8202-8218.	3.6	239
2	Whole-body tissue stabilization and selective extractions via tissue-hydrogel hybrids for high-resolution intact circuit mapping and phenotyping. <i>Nature Protocols</i> , 2015, 10, 1860-1896.	12.0	234
3	Dorsal Raphe Dopamine Neurons Modulate Arousal and Promote Wakefulness by Salient Stimuli. <i>Neuron</i> , 2017, 94, 1205-1219.e8.	8.1	201
4	Cholinergic Mesopontine Signals Govern Locomotion and Reward through Dissociable Midbrain Pathways. <i>Neuron</i> , 2016, 90, 333-347.	8.1	168
5	The Prototoxin lynx1 Acts on Nicotinic Acetylcholine Receptors to Balance Neuronal Activity and Survival In Vivo. <i>Neuron</i> , 2006, 51, 587-600.	8.1	151
6	Reversible Silencing of Neuronal Excitability in Behaving Mice by a Genetically Targeted, Ivermectin-Gated Cl^- Channel. <i>Neuron</i> , 2007, 54, 35-49.	8.1	151
7	Nicotine is a Selective Pharmacological Chaperone of Acetylcholine Receptor Number and Stoichiometry. Implications for Drug Discovery. <i>AAPS Journal</i> , 2009, 11, 167-177.	4.4	148
8	Patch-clamp studies in the CNS illustrate a simple new method for obtaining viable neurons in rat brain slices: Glycerol replacement of NaCl protects CNS neurons. <i>Journal of Neuroscience Methods</i> , 2006, 158, 251-259.	2.5	139
9	Archaeorhodopsin variants with enhanced voltage-sensitive fluorescence in mammalian and <i>Caenorhabditis elegans</i> neurons. <i>Nature Communications</i> , 2014, 5, 4894.	12.8	124
10	Ethanol Facilitates Glutamatergic Transmission to Dopamine Neurons in the Ventral Tegmental Area. <i>Neuropsychopharmacology</i> , 2009, 34, 307-318.	5.4	109
11	Chronic Nicotine Selectively Enhances $\alpha 4\beta 2^*$ Nicotinic Acetylcholine Receptors in the Nigrostriatal Dopamine Pathway. <i>Journal of Neuroscience</i> , 2009, 29, 12428-12439.	3.6	95
12	Effects of Ethanol on Midbrain Neurons: Role of Opioid Receptors. <i>Alcoholism: Clinical and Experimental Research</i> , 2007, 31, 1106-1113.	2.4	77
13	Neural circuits and nicotinic acetylcholine receptors mediate the cholinergic regulation of midbrain dopaminergic neurons and nicotine dependence. <i>Acta Pharmacologica Sinica</i> , 2020, 41, 1-9.	6.1	65
14	The Duplicated $\alpha 7$ Subunits Assemble and Form Functional Nicotinic Receptors with the Full-length $\alpha 7$. <i>Journal of Biological Chemistry</i> , 2014, 289, 26451-26463.	3.4	64
15	Menthol Alone Upregulates Midbrain nAChRs, Alters nAChR Subtype Stoichiometry, Alters Dopamine Neuron Firing Frequency, and Prevents Nicotine Reward. <i>Journal of Neuroscience</i> , 2016, 36, 2957-2974.	3.6	64
16	Deep tissue optical focusing and optogenetic modulation with time-reversed ultrasonically encoded light. <i>Science Advances</i> , 2017, 3, eaao5520.	10.3	60
17	Pharmacological Chaperoning of Nicotinic Acetylcholine Receptors Reduces the Endoplasmic Reticulum Stress Response. <i>Molecular Pharmacology</i> , 2012, 81, 759-769.	2.3	57
18	Trafficking of $\alpha 4^*$ Nicotinic Receptors Revealed by Superecliptic Phluorin. <i>Journal of Biological Chemistry</i> , 2011, 286, 31241-31249.	3.4	50

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19	Taurine activates excitatory non-synaptic glycine receptors on dopamine neurones in ventral tegmental area of young rats. <i>Journal of Physiology</i> , 2005, 565, 503-516.	2.9	47
20	Smoking-Relevant Nicotine Concentration Attenuates the Unfolded Protein Response in Dopaminergic Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 65-79.	3.6	44
21	Pb ²⁺ impairs GABAergic synaptic transmission in rat hippocampal slices: A possible involvement of presynaptic calcium channels. <i>Brain Research</i> , 2006, 1088, 93-100.	2.2	42
22	Nanomolar Propofol Stimulates Glutamate Transmission to Dopamine Neurons: A Possible Mechanism of Abuse Potential?. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 325, 165-174.	2.5	37
23	Presynaptic GABA _A receptors facilitate GABAergic transmission to dopaminergic neurons in the ventral tegmental area of young rats. <i>Journal of Physiology</i> , 2007, 580, 731-743.	2.9	36
24	Nicotinic Receptor Subtype-Selective Circuit Patterns in the Subthalamic Nucleus. <i>Journal of Neuroscience</i> , 2015, 35, 3734-3746.	3.6	35
25	Characterizing functional $\alpha 6 \beta 2$ nicotinic acetylcholine receptors in vitro: Mutant $\beta 2$ subunits improve membrane expression, and fluorescent proteins reveal responsive cells. <i>Biochemical Pharmacology</i> , 2011, 82, 852-861.	4.4	34
26	GABAergic Actions Mediate Opposite Ethanol Effects on Dopaminergic Neurons in the Anterior and Posterior Ventral Tegmental Area. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 341, 33-42.	2.5	34
27	Mefloquine Enhances Nigral β -Aminobutyric Acid Release via Inhibition of Cholinesterase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 317, 1155-1160.	2.5	31
28	Purinergic Type 2 Receptors at GABAergic Synapses on Ventral Tegmental Area Dopamine Neurons Are Targets for Ethanol Action. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 327, 196-205.	2.5	31
29	Reversal of hyperactive subthalamic circuits differentially mitigates pain hypersensitivity phenotypes in parkinsonian mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10045-10054.	7.1	31
30	Galantamine reversed early postoperative cognitive deficit via alleviating inflammation and enhancing synaptic transmission in mouse hippocampus. <i>European Journal of Pharmacology</i> , 2019, 846, 63-72.	3.5	29
31	Transcriptional regulation by nicotine in dopaminergic neurons. <i>Biochemical Pharmacology</i> , 2013, 86, 1074-1083.	4.4	27
32	Nicotine regulates activity of lateral habenula neurons via presynaptic and postsynaptic mechanisms. <i>Scientific Reports</i> , 2016, 6, 32937.	3.3	25
33	The influence of developmental periods of sodium valproate exposure on synaptic plasticity in the CA1 region of rat hippocampus. <i>Neuroscience Letters</i> , 2003, 351, 165-168.	2.1	21
34	Mesencephalic astrocyte-derived neurotrophic factor enhances nigral β -aminobutyric acid release. <i>NeuroReport</i> , 2006, 17, 293-297.	1.2	19
35	Internal States Influence the Representation and Modulation of Food Intake by Subthalamic Neurons. <i>Neuroscience Bulletin</i> , 2020, 36, 1355-1368.	2.9	19
36	Effects of sodium valproate on synaptic plasticity in the CA1 region of rat hippocampus. <i>Food and Chemical Toxicology</i> , 2003, 41, 1617-1623.	3.6	18

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37	D2 receptor activation relieves pain hypersensitivity by inhibiting superficial dorsal horn neurons in parkinsonian mice. <i>Acta Pharmacologica Sinica</i> , 2021, 42, 189-198.	6.1	15
38	Labetalol facilitates GABAergic transmission to rat periaqueductal gray neurons via antagonizing β_2 -adrenergic receptors – A possible mechanism underlying labetalol-induced analgesia. <i>Brain Research</i> , 2008, 1198, 34-43.	2.2	14
39	Electrophysiological characterization of Grueneberg ganglion olfactory neurons: spontaneous firing, sodium conductance, and hyperpolarization-activated currents. <i>Journal of Neurophysiology</i> , 2012, 108, 1318-1334.	1.8	14
40	Bidirectional dopamine modulation of excitatory and inhibitory synaptic inputs to subthalamic neuron subsets containing α_2 or α_7 nAChRs. <i>Neuropharmacology</i> , 2019, 148, 220-228.	4.1	14
41	Caffeine-dependent stimulus-triggered oscillations in the CA3 region of hippocampal slices from rats chronically exposed to lead. <i>Experimental Neurology</i> , 2004, 190, 525-534.	4.1	11
42	Extracellular proton modulates GABAergic synaptic transmission in rat hippocampal CA3 neurons. <i>Brain Research</i> , 2007, 1145, 213-220.	2.2	11
43	Excitatory effects of low-level lead exposure on action potential firing of pyramidal neurons in CA1 region of rat hippocampal slices. <i>Journal of Neuroscience Research</i> , 2008, 86, 3665-3673.	2.9	10
44	Nicotine modulates GABAergic transmission to dopaminergic neurons in substantia nigra pars compacta. <i>Acta Pharmacologica Sinica</i> , 2009, 30, 851-858.	6.1	10
45	Calcineurin Signaling Mediates Disruption of the Axon Initial Segment Cytoskeleton after Injury. <i>IScience</i> , 2020, 23, 100880.	4.1	9
46	Malfunction of astrocyte and cholinergic input is involved in postoperative impairment of hippocampal synaptic plasticity and cognitive function. <i>Neuropharmacology</i> , 2022, 217, 109191.	4.1	8
47	Age-dependent alterations in key components of the nigrostriatal dopaminergic system and distinct motor phenotypes. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 862-875.	6.1	5
48	Differential modulation of subthalamic projection neurons by short-term and long-term electrical stimulation in physiological and parkinsonian conditions. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 1928-1939.	6.1	5
49	Regulation of Axon Initial Segment Diameter by COUP-TFI Fine-tunes Action Potential Generation. <i>Neuroscience Bulletin</i> , 2022, 38, 505-518.	2.9	3