Cheng Xiao

List of Publications by Year
in descending order

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	Age-dependent alterations in key components of the nigrostriatal dopaminergic system and distinct motor phenotypes. Acta Pharmacologica Sinica, 2022, 43, 862-875.	6.1	5
2	Regulation of Axon Initial Segment Diameter by COUP-TFI Fine-tunes Action Potential Generation. Neuroscience Bulletin, 2022, 38, 505-518.	2.9	3
3	Differential modulation of subthalamic projection neurons by short-term and long-term electrical stimulation in physiological and parkinsonian conditions. Acta Pharmacologica Sinica, 2022, 43, 1928-1939.	6.1	5
4	Malfunction of astrocyte and cholinergic input is involved in postoperative impairment of hippocampal synaptic plasticity and cognitive function. Neuropharmacology, 2022, 217, 109191.	4.1	8
5	D2 receptor activation relieves pain hypersensitivity by inhibiting superficial dorsal horn neurons in parkinsonian mice. Acta Pharmacologica Sinica, 2021, 42, 189-198.	6.1	15
6	Neural circuits and nicotinic acetylcholine receptors mediate the cholinergic regulation of midbrain dopaminergic neurons and nicotine dependence. Acta Pharmacologica Sinica, 2020, 41, 1-9.	6.1	65
7	Internal States Influence the Representation and Modulation of Food Intake by Subthalamic Neurons. Neuroscience Bulletin, 2020, 36, 1355-1368.	2.9	19
8	Reversal of hyperactive subthalamic circuits differentially mitigates pain hypersensitivity phenotypes in parkinsonian mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10045-10054.	7.1	31
9	Calcineurin Signaling Mediates Disruption of the Axon Initial Segment Cytoskeleton after Injury. IScience, 2020, 23, 100880.	4.1	9
10	Bidirectional dopamine modulation of excitatory and inhibitory synaptic inputs to subthalamic neuron subsets containing Î±4Î²2 or Î±7 nAChRs. Neuropharmacology, 2019, 148, 220-228.	4.1	14
11	Galantamine reversed early postoperative cognitive deficit via alleviating inflammation and enhancing synaptic transmission in mouse hippocampus. European Journal of Pharmacology, 2019, 846, 63-72.	3.5	29
12	Dorsal Raphe Dopamine Neurons Modulate Arousal and Promote Wakefulness by Salient Stimuli. Neuron, 2017, 94, 1205-1219.e8.	8.1	201
13	Deep tissue optical focusing and optogenetic modulation with time-reversed ultrasonically encoded light. Science Advances, 2017, 3, eaao5520.	10.3	60
14	Cholinergic Mesopontine Signals Govern Locomotion and Reward through Dissociable Midbrain Pathways. Neuron, 2016, 90, 333-347.	8.1	168
15	Nicotine regulates activity of lateral habenula neurons via presynaptic and postsynaptic mechanisms. Scientific Reports, 2016, 6, 32937.	3.3	25
16	Menthol Alone Upregulates Midbrain nAChRs, Alters nAChR Subtype Stoichiometry, Alters Dopamine Neuron Firing Frequency, and Prevents Nicotine Reward. Journal of Neuroscience, 2016, 36, 2957-2974.	3.6	64
17	Smoking-Relevant Nicotine Concentration Attenuates the Unfolded Protein Response in Dopaminergic Neurons. Journal of Neuroscience, 2016, 36, 65-79.	3.6	44
18	Nicotinic Receptor Subtype-Selective Circuit Patterns in the Subthalamic Nucleus. Journal of Neuroscience, 2015, 35, 3734-3746.	3.6	35

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19	Whole-body tissue stabilization and selective extractions via tissue-hydrogel hybrids for high-resolution intact circuit mapping and phenotyping. Nature Protocols, 2015, 10, 1860-1896.	12.0	234
20	Archaerhodopsin variants with enhanced voltage-sensitive fluorescence in mammalian and Caenorhabditis elegans neurons. Nature Communications, 2014, 5, 4894.	12.8	124
21	The Duplicated Î±7 Subunits Assemble and Form Functional Nicotinic Receptors with the Full-length Î±7. Journal of Biological Chemistry, 2014, 289, 26451-26463.	3.4	64
22	Transcriptional regulation by nicotine in dopaminergic neurons. Biochemical Pharmacology, 2013, 86, 1074-1083.	4.4	27
23	Electrophysiological characterization of Grueneberg ganglion olfactory neurons: spontaneous firing, sodium conductance, and hyperpolarization-activated currents. Journal of Neurophysiology, 2012, 108, 1318-1334.	1.8	14
24	Pharmacological Chaperoning of Nicotinic Acetylcholine Receptors Reduces the Endoplasmic Reticulum Stress Response. Molecular Pharmacology, 2012, 81, 759-769.	2.3	57
25	GABAergic Actions Mediate Opposite Ethanol Effects on Dopaminergic Neurons in the Anterior and Posterior Ventral Tegmental Area. Journal of Pharmacology and Experimental Therapeutics, 2012, 341, 33-42.	2.5	34
26	Characterizing functional Î±6Î²2 nicotinic acetylcholine receptors in vitro: Mutant Î²2 subunits improve membrane expression, and fluorescent proteins reveal responsive cells. Biochemical Pharmacology, 2011, 82, 852-861.	4.4	34
27	Trafficking of Î±4* Nicotinic Receptors Revealed by Superecliptic Phluorin. Journal of Biological Chemistry, 2011, 286, 31241-31249.	3.4	50
28	Chronic Nicotine Selectively Enhances Î±4Î²2* Nicotinic Acetylcholine Receptors in the Nigrostriatal Dopamine Pathway. Journal of Neuroscience, 2009, 29, 12428-12439.	3.6	95
29	Ethanol Facilitates Glutamatergic Transmission to Dopamine Neurons in the Ventral Tegmental Area. Neuropsychopharmacology, 2009, 34, 307-318.	5.4	109
30	Nicotine modulates GABAergic transmission to dopaminergic neurons in substantia nigra pars compacta. Acta Pharmacologica Sinica, 2009, 30, 851-858.	6.1	10
31	Nicotine is a Selective Pharmacological Chaperone of Acetylcholine Receptor Number and Stoichiometry. Implications for Drug Discovery. AAPS Journal, 2009, 11, 167-177.	4.4	148
32	Excitatory effects of lowâ€level lead exposure on action potential firing of pyramidal neurons in CA1 region of rat hippocampal slices. Journal of Neuroscience Research, 2008, 86, 3665-3673.	2.9	10
33	Labetalol facilitates GABAergic transmission to rat periaqueductal gray neurons via antagonizing Î²1-adrenergic receptors â€" A possible mechanism underlying labetalol-induced analgesia. Brain Research, 2008, 1198, 34-43.	2.2	14
34	Purinergic Type 2 Receptors at GABAergic Synapses on Ventral Tegmental Area Dopamine Neurons Are Targets for Ethanol Action. Journal of Pharmacology and Experimental Therapeutics, 2008, 327, 196-205.	2.5	31
35	Nanomolar Propofol Stimulates Glutamate Transmission to Dopamine Neurons: A Possible Mechanism of Abuse Potential?. Journal of Pharmacology and Experimental Therapeutics, 2008, 325, 165-174.	2.5	37
36	Chronic Nicotine Cell Specifically Upregulates Functional Î±4* Nicotinic Receptors: Basis for Both Tolerance in Midbrain and Enhanced Long-Term Potentiation in Perforant Path. Journal of Neuroscience, 2007, 27, 8202-8218.	3.6	239

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37	Reversible Silencing of Neuronal Excitability in Behaving Mice by a Genetically Targeted, Ivermectin-Gated Clâ¯ Channel. Neuron, 2007, 54, 35-49.	8.1	151
38	Presynaptic GABAAreceptors facilitate GABAergic transmission to dopaminergic neurons in the ventral tegmental area of young rats. Journal of Physiology, 2007, 580, 731-743.	2.9	36
39	Effects of Ethanol on Midbrain Neurons: Role of Opioid Receptors. Alcoholism: Clinical and Experimental Research, 2007, 31, 1106-1113.	2.4	77
40	Extracellular proton modulates GABAergic synaptic transmission in rat hippocampal CA3 neurons. Brain Research, 2007, 1145, 213-220.	2.2	11
41	The Prototoxin lynx1 Acts on Nicotinic Acetylcholine Receptors to Balance Neuronal Activity and Survival In Vivo. Neuron, 2006, 51, 587-600.	8.1	151
42	Mesencephalic astrocyte-derived neurotrophic factor enhances nigral Î³-aminobutyric acid release. NeuroReport, 2006, 17, 293-297.	1.2	19
43	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. Journal of Neuroscience Methods, 2006, 158, 251-259.	2.5	139
44	Pb2+ impairs GABAergic synaptic transmission in rat hippocampal slices: A possible involvement of presynaptic calcium channels. Brain Research, 2006, 1088, 93-100.	2.2	42
45	Mefloquine Enhances Nigral Î³-Aminobutyric Acid Release via Inhibition of Cholinesterase. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 1155-1160.	2.5	31
46	Taurine activates excitatory non-synaptic glycine receptors on dopamine neurones in ventral tegmental area of young rats. Journal of Physiology, 2005, 565, 503-516.	2.9	47
47	Caffeine-dependent stimulus-triggered oscillations in the CA3 region of hippocampal slices from rats chronically exposed to lead. Experimental Neurology, 2004, 190, 525-534.	4.1	11
48	The influence of developmental periods of sodium valproate exposure on synaptic plasticity in the CA1 region of rat hippocampus. Neuroscience Letters, 2003, 351, 165-168.	2.1	21
49	Effects of sodium valproate on synaptic plasticity in the CA1 region of rat hippocampus. Food and Chemical Toxicology, 2003, 41, 1617-1623.	3.6	18