Tian-Le Xu

List of Publications by Year in descending order

90 papers	3,567 citations	117625 34 h-index	168389 53 g-index
95 all docs	95 docs citations	95 times ranked	4087 citing authors

#	Article	IF	Citations
1	CAMK2/CaMKII activates MLKL in short-term starvation to facilitate autophagic flux. Autophagy, 2022, 18, 726-744.	9.1	25
2	ASIC1a senses lactate uptake to regulate metabolism in neurons. Redox Biology, 2022, 51, 102253.	9.0	10
3	Neurons Release Injured Mitochondria as â€œHelp-Meâ€•Signaling After Ischemic Stroke. Frontiers in Aging Neuroscience, 2022, 14, 785761.	3.4	13
4	Pharmacological Validation of ASIC1a as a Druggable Target for Neuroprotection in Cerebral Ischemia Using an Intravenously Available Small Molecule Inhibitor. Frontiers in Pharmacology, 2022, 13, 849498.	3.5	6
5	Nuclear Tkt promotes ischemic heart failure via the cleaved Parp1/Aif axis. Basic Research in Cardiology, 2022, 117, 18.	5.9	16
6	Non-oxidative pentose phosphate pathway controls regulatory T cell function by integrating metabolism and epigenetics. Nature Metabolism, 2022, 4, 559-574.	11.9	27
7	The immuno-behavioural covariation associated with the treatment response to bumetanide in young children with autism spectrum disorder. Translational Psychiatry, 2022, 12, .	4.8	10
8	Dynamic tripartite construct of interregional engram circuits underlies forgetting of extinction memory. Molecular Psychiatry, 2022, 27, 4077-4091.	7.9	8
9	Hippocampal Lnx1â€“NMDAR multiprotein complex mediates initial social memory. Molecular Psychiatry, 2021, 26, 3956-3969.	7.9	15
10	Reconsolidation of a post-ingestive nutrient memory requires mTOR in the central amygdala. Molecular Psychiatry, 2021, 26, 2820-2836.	7.9	10
11	Postsynaptic Targeting and Mobility of Membrane Surface-Localized hASIC1a. Neuroscience Bulletin, 2021, 37, 145-165.	2.9	10
12	A 12â€genus bacterial signature identifies a group of severe autistic children with differential sensory behavior and brain structures. Clinical and Translational Medicine, 2021, 11, e314.	4.0	5
13	Basal forebrain mediates prosocial behavior via disinhibition of midbrain dopamine neurons. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
14	Hierarchy in sensory processing reflected by innervation balance on cortical interneurons. Science Advances, 2021, 7, .	10.3	20
15	Improved symptoms following bumetanide treatment in children aged 3â^'6Âyears with autism spectrum disorder: a randomized, double-blind, placebo-controlled trial. Science Bulletin, 2021, 66, 1591-1598.	9.0	21
16	Neurophysiological correlate of incubation of craving in individuals with methamphetamine use disorder. Molecular Psychiatry, 2021, 26, 6198-6208.	7.9	29
17	TKT maintains intestinal ATP production and inhibits apoptosis-induced colitis. Cell Death and Disease, 2021, 12, 853.	6.3	12
18	NG2 glia-derived GABA release tunes inhibitory synapses and contributes to stress-induced anxiety. Nature Communications, 2021, 12, 5740.	12.8	43

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19	Input associativity underlies fear memory renewal. National Science Review, 2021, 8, nwab004.	9.5	11
20	WDR45 contributes to neurodegeneration through regulation of ER homeostasis and neuronal death. Autophagy, 2020, 16, 531-547.	9.1	65
21	Restoration of Cingulate Long-Term Depression by Enhancing Non-apoptotic Caspase 3 Alleviates Peripheral Pain Hypersensitivity. Cell Reports, 2020, 33, 108369.	6.4	21
22	Targeting neuroplasticity in patients with neurodegenerative diseases using brain stimulation techniques. Translational Neurodegeneration, 2020, 9, 44.	8.0	14
23	Cell typeâ€"differential modulation of prefrontal cortical GABAergic interneurons on low gamma rhythm and social interaction. Science Advances, 2020, 6, eaay4073.	10.3	44
24	Bilirubin enhances the activity of ASIC channels to exacerbate neurotoxicity in neonatal hyperbilirubinemia in mice. Science Translational Medicine, 2020, 12, .	12.4	21
25	Disruption of auto-inhibition underlies conformational signaling of ASIC1a to induce neuronal necroptosis. Nature Communications, 2020, 11, 475.	12.8	56
26	ASIC1a channels regulate mitochondrial ion signaling and energy homeostasis in neurons. Journal of Neurochemistry, 2020, 153, 203-215.	3.9	14
27	DUSP6 SUMOylation protects cells from oxidative damage via direct regulation of Drp1 dephosphorylation. Science Advances, 2020, 6, eaaz0361.	10.3	42
28	Transketolase Deficiency in Adipose Tissues Protects Mice From Diet-Induced Obesity by Promoting Lipolysis. Diabetes, 2020, 69, 1355-1367.	0.6	22
29	Photocatalysis Enables Visibleâ€Light Uncaging of Bioactive Molecules in Live Cells. Angewandte Chemie, 2019, 131, 571-575.	2.0	9
30	Subtype-selective inhibition of acid-sensing ion channel 3 by a natural flavonoid. CNS Neuroscience and Therapeutics, 2019, 25, 47-56.	3.9	10
31	Protein Kinase C Lambda Mediates Acid-Sensing Ion Channel 1a-Dependent Cortical Synaptic Plasticity and Pain Hypersensitivity. Journal of Neuroscience, 2019, 39, 5773-5793.	3.6	23
32	Transketolase Deficiency Protects the Liver from DNA Damage by Increasing Levels of Ribose 5-Phosphate and Nucleotides. Cancer Research, 2019, 79, 3689-3701.	0.9	33
33	Central Processing of Itch in the Midbrain Reward Center. Neuron, 2019, 102, 858-872.e5.	8.1	53
34	A Disinhibitory Microcircuit Mediates Conditioned Social Fear in the Prefrontal Cortex. Neuron, 2019, 102, 668-682.e5.	8.1	119
35	A neuronal molecular switch through cell-cell contact that regulates quiescent neural stem cells. Science Advances, 2019, 5, eaav4416.	10.3	42
36	Long-Term NMDAR Antagonism Correlates Weight Loss With Less Eating. Frontiers in Psychiatry, 2019, 10, 15.	2.6	9

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37	Selective activation of TWIK-related acid-sensitive K ⁺ 3 subunitâ€“containing channels is analgesic in rodent models. Science Translational Medicine, 2019, 11, .	12.4	64
38	Cell-Type Identification in the Autonomic Nervous System. Neuroscience Bulletin, 2019, 35, 145-155.	2.9	2
39	Photocatalysis Enables Visibleâ€Light Uncaging of Bioactive Molecules in Live Cells. Angewandte Chemie - International Edition, 2019, 58, 561-565.	13.8	41
40	Methyleugenol Potentiates Central Amygdala GABAergic Inhibition and Reduces Anxiety. Journal of Pharmacology and Experimental Therapeutics, 2019, 368, 1-10.	2.5	10
41	TRPV1 SUMOylation regulates nociceptive signaling in models of inflammatory pain. Nature Communications, 2018, 9, 1529.	12.8	52
42	Unraveling the Mechanisms of Memory Extinction. Neuroscience Bulletin, 2018, 34, 385-388.	2.9	4
43	Fear extinction requires ASIC1a-dependent regulation of hippocampal-prefrontal correlates. Science Advances, 2018, 4, eaau3075.	10.3	46
44	Methyleugenol counteracts anorexigenic signals in association with GABAergic inhibition in the central amygdala. Neuropharmacology, 2018, 141, 331-342.	4.1	8
45	Retrograde regulation of mossy fiber axon targeting and terminal maturation via postsynaptic Lnx1. Journal of Cell Biology, 2018, 217, 4007-4024.	5.2	16
46	Nav1.7 is phosphorylated by Fyn tyrosine kinase which modulates channel expression and gating in a cell type-dependent manner. Molecular Pain, 2018, 14, 174480691878222.	2.1	16
47	Analysis of the concentrations and size distributions of cell-free DNA in schizophrenia using fluorescence correlation spectroscopy. Translational Psychiatry, 2018, 8, 104.	4.8	22
48	Quercetin Reduces Cortical GABAergic Transmission and Alleviates MK-801-Induced Hyperactivity. EBioMedicine, 2018, 34, 201-213.	6.1	22
49	Selection of an ASIC1a-blocking combinatorial antibody that protects cells from ischemic death. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7469-E7477.	7.1	48
50	Kir4.1 channels in NG2-glia play a role in development, potassium signaling, and ischemia-related myelin loss. Communications Biology, 2018, 1, 80.	4.4	21
51	The acid-sensing ion channel ASIC1a mediates striatal synapse remodeling and procedural motor learning. Science Signaling, 2018, 11, .	3.6	29
52	Curcumol allosterically modulates GABA(A) receptors in a manner distinct from benzodiazepines. Scientific Reports, 2017, 7, 46654.	3.3	17
53	Acidosis counteracts itch tachyphylaxis to consecutive pruritogen exposure dependent on acid-sensing ion channel 3. Molecular Pain, 2017, 13, 174480691772111.	2.1	7
54	The nonproton ligand of acid-sensing ion channel 3 activates mollusk-specific FaNaC channels via a mechanism independent of the native FMRFamide peptide. Journal of Biological Chemistry, 2017, 292, 21662-21675.	3.4	11

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55	ASIC1a regulates insular long-term depression and is required for the extinction of conditioned taste aversion. Nature Communications, 2016, 7, 13770.	12.8	50
56	Acid-sensing ion channel 1a contributes to hippocampal LTP inducibility through multiple mechanisms. Scientific Reports, 2016, 6, 23350.	3.3	41
57	Astrocytic Acid-Sensing Ion Channel 1a Contributes to the Development of Chronic Epileptogenesis. Scientific Reports, 2016, 6, 31581.	3.3	23
58	Temporal Dynamics of Anxiety Phenotypes in a Dental Pulp Injury Model. Molecular Pain, 2015, 11, s12990-015-0040.	2.1	20
59	A behavioral defect of temporal association memory in mice that partly lack dopamine reuptake transporter. Scientific Reports, 2015, 5, 17461.	3.3	10
60	Activation of acid-sensing ion channels by localized proton transient reveals their role in proton signaling. Scientific Reports, 2015, 5, 14125.	3.3	28
61	ASIC3 Mediates Itch Sensation in Response to Coincident Stimulation by Acid and Nonproton Ligand. Cell Reports, 2015, 13, 387-398.	6.4	25
62	Tissue acidosis induces neuronal necroptosis via ASIC1a channel independent of its ionic conduction. ELife, 2015, 4, .	6.0	118
63	Role of the potassium chloride cotransporter isoform 2-mediated spinal chloride homeostasis in a rat model of visceral hypersensitivity. American Journal of Physiology - Renal Physiology, 2015, 308, G767-G778.	3.4	21
64	Understanding the mechanisms of cognitive impairments in developmental coordination disorder. Pediatric Research, 2014, 75, 210-216.	2.3	16
65	Kainate receptor activation induces glycine receptor endocytosis through PKC deSUMOylation. Nature Communications, 2014, 5, 4980.	12.8	46
66	Histamine up-regulates astrocytic glutamate transporter 1 and protects neurons against ischemic injury. Neuropharmacology, 2014, 77, 156-166.	4.1	60
67	SLC17A9 Protein Functions as a Lysosomal ATP Transporter and Regulates Cell Viability. Journal of Biological Chemistry, 2014, 289, 23189-23199.	3.4	53
68	Electrophysiological Characterization of Methyleugenol: A Novel Agonist of GABA(A) Receptors. ACS Chemical Neuroscience, 2014, 5, 803-811.	3.5	22
69	Curcumol from Rhizoma Curcumae suppresses epileptic seizure by facilitation of GABA(A) receptors. Neuropharmacology, 2014, 81, 244-255.	4.1	31
70	Acid-Sensing Ion Channels: A Novel Therapeutic Target for Pain and Anxiety. Current Pharmaceutical Design, 2014, 21, 885-894.	1.9	31
71	2-Guanidine-4-methylquinazoline acts as a novel competitive antagonist of A type Î³-aminobutyric acid receptors. Neuropharmacology, 2013, 75, 126-137.	4.1	14
72	Molecular Mechanism of Constitutive Endocytosis of Acid-Sensing Ion Channel 1a and Its Protective Function in Acidosis-Induced Neuronal Death. Journal of Neuroscience, 2013, 33, 7066-7078.	3.6	41

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73	Alpha-asarone from Acorus gramineus alleviates epilepsy by modulating A-Type GABA receptors. Neuropharmacology, 2013, 65, 1-11.	4.1	62
74	PI3-kinase/Akt Pathway-Regulated Membrane Insertion of Acid-Sensing Ion Channel 1a Underlies BDNF-Induced Pain Hypersensitivity. Journal of Neuroscience, 2012, 32, 6351-6363.	3.6	78
75	Emerging approaches to probing ion channel structure and function. Neuroscience Bulletin, 2012, 28, 351-374.	2.9	4
76	Proton production, regulation and pathophysiological roles in the mammalian brain. Neuroscience Bulletin, 2012, 28, 1-13.	2.9	26
77	High dose glargine alters the expression profiles of microRNAs in pancreatic cancer cells. World Journal of Gastroenterology, 2012, 18, 2630.	3.3	21
78	ASIC3 Channels in Multimodal Sensory Perception. ACS Chemical Neuroscience, 2011, 2, 26-37.	3.5	58
79	Nonproton Ligand Sensing Domain Is Required for Paradoxical Stimulation of Acid-sensing Ion Channel 3 (ASIC3) Channels by Amiloride. Journal of Biological Chemistry, 2011, 286, 42635-42646.	3.4	45
80	Extracellular Spermine Exacerbates Ischemic Neuronal Injury through Sensitization of ASIC1a Channels to Extracellular Acidosis. Journal of Neuroscience, 2011, 31, 2101-2112.	3.6	141
81	ASIC3 Channels Integrate Agmatine and Multiple Inflammatory Signals through the Nonproton Ligand Sensing Domain. Molecular Pain, 2010, 6, 1744-8069-6-88.	2.1	75
82	Glycine and glycine receptor signaling in hippocampal neurons: Diversity, function and regulation. Progress in Neurobiology, 2010, 91, 349-361.	5.7	117
83	Ca2+ signaling evoked by activation of Na+ channels and Na+/Ca2+ exchangers is required for GABA-induced NG2 cell migration. Journal of Cell Biology, 2009, 186, 113-128.	5.2	117
84	Calcium-permeable acid-sensing ion channel in nociceptive plasticity: A new target for pain control. Progress in Neurobiology, 2009, 87, 171-180.	5.7	38
85	Glycine Uptake Regulates Hippocampal Network Activity via Glycine Receptor-Mediated Tonic Inhibition. Neuropsychopharmacology, 2008, 33, 701-711.	5.4	84
86	Dynamic Regulation of Acid-Sensing Ion Channels by Extracellular and Intracellular Modulators. Current Medicinal Chemistry, 2007, 14, 1753-1763.	2.4	47
87	Upregulation of Acid-Sensing Ion Channel ASIC1a in Spinal Dorsal Horn Neurons Contributes to Inflammatory Pain Hypersensitivity. Journal of Neuroscience, 2007, 27, 11139-11148.	3.6	148
88	Coupling between NMDA Receptor and Acid-Sensing Ion Channel Contributes to Ischemic Neuronal Death. Neuron, 2005, 48, 635-646.	8.1	305
89	Characterization of Acid-sensing Ion Channels in Dorsal Horn Neurons of Rat Spinal Cord. Journal of Biological Chemistry, 2004, 279, 43716-43724.	3.4	169
90	Modulation of the glycine response by Ca2+-permeable AMPA receptors in rat spinal neurones. Journal of Physiology, 1999, 514, 701-711.	2.9	34