

Tian-Le Xu

List of Publications by Year in descending order

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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	Coupling between NMDA Receptor and Acid-Sensing Ion Channel Contributes to Ischemic Neuronal Death. <i>Neuron</i> , 2005, 48, 635-646.	8.1	305
2	Characterization of Acid-sensing Ion Channels in Dorsal Horn Neurons of Rat Spinal Cord. <i>Journal of Biological Chemistry</i> , 2004, 279, 43716-43724.	3.4	169
3	Upregulation of Acid-Sensing Ion Channel ASIC1a in Spinal Dorsal Horn Neurons Contributes to Inflammatory Pain Hypersensitivity. <i>Journal of Neuroscience</i> , 2007, 27, 11139-11148.	3.6	148
4	Extracellular Spermine Exacerbates Ischemic Neuronal Injury through Sensitization of ASIC1a Channels to Extracellular Acidosis. <i>Journal of Neuroscience</i> , 2011, 31, 2101-2112.	3.6	141
5	A Disinhibitory Microcircuit Mediates Conditioned Social Fear in the Prefrontal Cortex. <i>Neuron</i> , 2019, 102, 668-682.e5.	8.1	119
6	Tissue acidosis induces neuronal necroptosis via ASIC1a channel independent of its ionic conduction. <i>ELife</i> , 2015, 4, .	6.0	118
7	Ca ²⁺ signaling evoked by activation of Na ⁺ channels and Na ⁺ /Ca ²⁺ exchangers is required for GABA-induced NG2 cell migration. <i>Journal of Cell Biology</i> , 2009, 186, 113-128.	5.2	117
8	Glycine and glycine receptor signaling in hippocampal neurons: Diversity, function and regulation. <i>Progress in Neurobiology</i> , 2010, 91, 349-361.	5.7	117
9	Glycine Uptake Regulates Hippocampal Network Activity via Glycine Receptor-Mediated Tonic Inhibition. <i>Neuropsychopharmacology</i> , 2008, 33, 701-711.	5.4	84
10	PI3-kinase/Akt Pathway-Regulated Membrane Insertion of Acid-Sensing Ion Channel 1a Underlies BDNF-Induced Pain Hypersensitivity. <i>Journal of Neuroscience</i> , 2012, 32, 6351-6363.	3.6	78
11	ASIC3 Channels Integrate Agmatine and Multiple Inflammatory Signals through the Nonproton Ligand Sensing Domain. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-88.	2.1	75
12	WDR45 contributes to neurodegeneration through regulation of ER homeostasis and neuronal death. <i>Autophagy</i> , 2020, 16, 531-547.	9.1	65
13	Selective activation of TWIK-related acid-sensitive K ⁺ 3 subunit-containing channels is analgesic in rodent models. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	64
14	Alpha-asarone from <i>Acorus gramineus</i> alleviates epilepsy by modulating A-Type GABA receptors. <i>Neuropharmacology</i> , 2013, 65, 1-11.	4.1	62
15	Histamine up-regulates astrocytic glutamate transporter 1 and protects neurons against ischemic injury. <i>Neuropharmacology</i> , 2014, 77, 156-166.	4.1	60
16	ASIC3 Channels in Multimodal Sensory Perception. <i>ACS Chemical Neuroscience</i> , 2011, 2, 26-37.	3.5	58
17	Disruption of auto-inhibition underlies conformational signaling of ASIC1a to induce neuronal necroptosis. <i>Nature Communications</i> , 2020, 11, 475.	12.8	56
18	SLC17A9 Protein Functions as a Lysosomal ATP Transporter and Regulates Cell Viability. <i>Journal of Biological Chemistry</i> , 2014, 289, 23189-23199.	3.4	53

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19	Central Processing of Itch in the Midbrain Reward Center. <i>Neuron</i> , 2019, 102, 858-872.e5.	8.1	53
20	TRPV1 SUMOylation regulates nociceptive signaling in models of inflammatory pain. <i>Nature Communications</i> , 2018, 9, 1529.	12.8	52
21	ASIC1a regulates insular long-term depression and is required for the extinction of conditioned taste aversion. <i>Nature Communications</i> , 2016, 7, 13770.	12.8	50
22	Selection of an ASIC1a-blocking combinatorial antibody that protects cells from ischemic death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7469-E7477.	7.1	48
23	Dynamic Regulation of Acid-Sensing Ion Channels by Extracellular and Intracellular Modulators. <i>Current Medicinal Chemistry</i> , 2007, 14, 1753-1763.	2.4	47
24	Kainate receptor activation induces glycine receptor endocytosis through PKC deSUMOylation. <i>Nature Communications</i> , 2014, 5, 4980.	12.8	46
25	Fear extinction requires ASIC1a-dependent regulation of hippocampal-prefrontal correlates. <i>Science Advances</i> , 2018, 4, eaau3075.	10.3	46
26	Nonproton Ligand Sensing Domain Is Required for Paradoxical Stimulation of Acid-sensing Ion Channel 3 (ASIC3) Channels by Amiloride. <i>Journal of Biological Chemistry</i> , 2011, 286, 42635-42646.	3.4	45
27	Cell type-specific differential modulation of prefrontal cortical GABAergic interneurons on low gamma rhythm and social interaction. <i>Science Advances</i> , 2020, 6, eaay4073.	10.3	44
28	NG2 glia-derived GABA release tunes inhibitory synapses and contributes to stress-induced anxiety. <i>Nature Communications</i> , 2021, 12, 5740.	12.8	43
29	A neuronal molecular switch through cell-cell contact that regulates quiescent neural stem cells. <i>Science Advances</i> , 2019, 5, eaav4416.	10.3	42
30	DUSP6 SUMOylation protects cells from oxidative damage via direct regulation of Drp1 dephosphorylation. <i>Science Advances</i> , 2020, 6, eaaz0361.	10.3	42
31	Molecular Mechanism of Constitutive Endocytosis of Acid-Sensing Ion Channel 1a and Its Protective Function in Acidosis-Induced Neuronal Death. <i>Journal of Neuroscience</i> , 2013, 33, 7066-7078.	3.6	41
32	Acid-sensing ion channel 1a contributes to hippocampal LTP inducibility through multiple mechanisms. <i>Scientific Reports</i> , 2016, 6, 23350.	3.3	41
33	Photocatalysis Enables Visible-Light Uncaging of Bioactive Molecules in Live Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 561-565.	13.8	41
34	Calcium-permeable acid-sensing ion channel in nociceptive plasticity: A new target for pain control. <i>Progress in Neurobiology</i> , 2009, 87, 171-180.	5.7	38
35	Modulation of the glycine response by Ca ²⁺ -permeable AMPA receptors in rat spinal neurones. <i>Journal of Physiology</i> , 1999, 514, 701-711.	2.9	34
36	Transketolase Deficiency Protects the Liver from DNA Damage by Increasing Levels of Ribose 5-Phosphate and Nucleotides. <i>Cancer Research</i> , 2019, 79, 3689-3701.	0.9	33

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37	Curcuminol from <i>Rhizoma Curcumae</i> suppresses epileptic seizure by facilitation of GABA(A) receptors. <i>Neuropharmacology</i> , 2014, 81, 244-255.	4.1	31
38	Acid-Sensing Ion Channels: A Novel Therapeutic Target for Pain and Anxiety. <i>Current Pharmaceutical Design</i> , 2014, 21, 885-894.	1.9	31
39	Neurophysiological correlate of incubation of craving in individuals with methamphetamine use disorder. <i>Molecular Psychiatry</i> , 2021, 26, 6198-6208.	7.9	29
40	The acid-sensing ion channel ASIC1a mediates striatal synapse remodeling and procedural motor learning. <i>Science Signaling</i> , 2018, 11, .	3.6	29
41	Activation of acid-sensing ion channels by localized proton transient reveals their role in proton signaling. <i>Scientific Reports</i> , 2015, 5, 14125.	3.3	28
42	Non-oxidative pentose phosphate pathway controls regulatory T cell function by integrating metabolism and epigenetics. <i>Nature Metabolism</i> , 2022, 4, 559-574.	11.9	27
43	Proton production, regulation and pathophysiological roles in the mammalian brain. <i>Neuroscience Bulletin</i> , 2012, 28, 1-13.	2.9	26
44	ASIC3 Mediates Itch Sensation in Response to Coincident Stimulation by Acid and Nonproton Ligand. <i>Cell Reports</i> , 2015, 13, 387-398.	6.4	25
45	CAMK2/CaMKII activates MLKL in short-term starvation to facilitate autophagic flux. <i>Autophagy</i> , 2022, 18, 726-744.	9.1	25
46	Astrocytic Acid-Sensing Ion Channel 1a Contributes to the Development of Chronic Epileptogenesis. <i>Scientific Reports</i> , 2016, 6, 31581.	3.3	23
47	Protein Kinase C Lambda Mediates Acid-Sensing Ion Channel 1a-Dependent Cortical Synaptic Plasticity and Pain Hypersensitivity. <i>Journal of Neuroscience</i> , 2019, 39, 5773-5793.	3.6	23
48	Electrophysiological Characterization of Methyleugenol: A Novel Agonist of GABA(A) Receptors. <i>ACS Chemical Neuroscience</i> , 2014, 5, 803-811.	3.5	22
49	Analysis of the concentrations and size distributions of cell-free DNA in schizophrenia using fluorescence correlation spectroscopy. <i>Translational Psychiatry</i> , 2018, 8, 104.	4.8	22
50	Quercetin Reduces Cortical GABAergic Transmission and Alleviates MK-801-Induced Hyperactivity. <i>EBioMedicine</i> , 2018, 34, 201-213.	6.1	22
51	Transketolase Deficiency in Adipose Tissues Protects Mice From Diet-Induced Obesity by Promoting Lipolysis. <i>Diabetes</i> , 2020, 69, 1355-1367.	0.6	22
52	Role of the potassium chloride cotransporter isoform 2-mediated spinal chloride homeostasis in a rat model of visceral hypersensitivity. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, G767-G778.	3.4	21
53	Kir4.1 channels in NG2-glia play a role in development, potassium signaling, and ischemia-related myelin loss. <i>Communications Biology</i> , 2018, 1, 80.	4.4	21
54	Restoration of Cingulate Long-Term Depression by Enhancing Non-apoptotic Caspase 3 Alleviates Peripheral Pain Hypersensitivity. <i>Cell Reports</i> , 2020, 33, 108369.	6.4	21

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55	Bilirubin enhances the activity of ASIC channels to exacerbate neurotoxicity in neonatal hyperbilirubinemia in mice. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	21
56	Improved symptoms following bumetanide treatment in children aged 3~6 years with autism spectrum disorder: a randomized, double-blind, placebo-controlled trial. <i>Science Bulletin</i> , 2021, 66, 1591-1598.	9.0	21
57	High dose glargine alters the expression profiles of microRNAs in pancreatic cancer cells. <i>World Journal of Gastroenterology</i> , 2012, 18, 2630.	3.3	21
58	Temporal Dynamics of Anxiety Phenotypes in a Dental Pulp Injury Model. <i>Molecular Pain</i> , 2015, 11, s12990-015-0040.	2.1	20
59	Hierarchy in sensory processing reflected by innervation balance on cortical interneurons. <i>Science Advances</i> , 2021, 7, .	10.3	20
60	Curcumol allosterically modulates GABA(A) receptors in a manner distinct from benzodiazepines. <i>Scientific Reports</i> , 2017, 7, 46654.	3.3	17
61	Understanding the mechanisms of cognitive impairments in developmental coordination disorder. <i>Pediatric Research</i> , 2014, 75, 210-216.	2.3	16
62	Retrograde regulation of mossy fiber axon targeting and terminal maturation via postsynaptic Lnx1. <i>Journal of Cell Biology</i> , 2018, 217, 4007-4024.	5.2	16
63	Nav1.7 is phosphorylated by Fyn tyrosine kinase which modulates channel expression and gating in a cell type-dependent manner. <i>Molecular Pain</i> , 2018, 14, 174480691878222.	2.1	16
64	Nuclear Tkt promotes ischemic heart failure via the cleaved Parp1/Aif axis. <i>Basic Research in Cardiology</i> , 2022, 117, 18.	5.9	16
65	Hippocampal Lnx1~NMDAR multiprotein complex mediates initial social memory. <i>Molecular Psychiatry</i> , 2021, 26, 3956-3969.	7.9	15
66	2-Guanidine-4-methylquinazoline acts as a novel competitive antagonist of A type β^3 -aminobutyric acid receptors. <i>Neuropharmacology</i> , 2013, 75, 126-137.	4.1	14
67	Targeting neuroplasticity in patients with neurodegenerative diseases using brain stimulation techniques. <i>Translational Neurodegeneration</i> , 2020, 9, 44.	8.0	14
68	ASIC1a channels regulate mitochondrial ion signaling and energy homeostasis in neurons. <i>Journal of Neurochemistry</i> , 2020, 153, 203-215.	3.9	14
69	Neurons Release Injured Mitochondria as ~Help-Me~ Signaling After Ischemic Stroke. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 785761.	3.4	13
70	TKT maintains intestinal ATP production and inhibits apoptosis-induced colitis. <i>Cell Death and Disease</i> , 2021, 12, 853.	6.3	12
71	The nonproton ligand of acid-sensing ion channel 3 activates mollusk-specific FaNaC channels via a mechanism independent of the native FMRamide peptide. <i>Journal of Biological Chemistry</i> , 2017, 292, 21662-21675.	3.4	11
72	Input associativity underlies fear memory renewal. <i>National Science Review</i> , 2021, 8, nwab004.	9.5	11

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73	A behavioral defect of temporal association memory in mice that partly lack dopamine reuptake transporter. <i>Scientific Reports</i> , 2015, 5, 17461.	3.3	10
74	Subtype-selective inhibition of acid-sensing ion channel 3 by a natural flavonoid. <i>CNS Neuroscience and Therapeutics</i> , 2019, 25, 47-56.	3.9	10
75	Methyleugenol Potentiates Central Amygdala GABAergic Inhibition and Reduces Anxiety. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 368, 1-10.	2.5	10
76	Reconsolidation of a post-ingestive nutrient memory requires mTOR in the central amygdala. <i>Molecular Psychiatry</i> , 2021, 26, 2820-2836.	7.9	10
77	Postsynaptic Targeting and Mobility of Membrane Surface-Localized hASIC1a. <i>Neuroscience Bulletin</i> , 2021, 37, 145-165.	2.9	10
78	Basal forebrain mediates prosocial behavior via disinhibition of midbrain dopamine neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
79	ASIC1a senses lactate uptake to regulate metabolism in neurons. <i>Redox Biology</i> , 2022, 51, 102253.	9.0	10
80	The immuno-behavioural covariation associated with the treatment response to bumetanide in young children with autism spectrum disorder. <i>Translational Psychiatry</i> , 2022, 12, .	4.8	10
81	Photocatalysis Enables Visible-Light Uncaging of Bioactive Molecules in Live Cells. <i>Angewandte Chemie</i> , 2019, 131, 571-575.	2.0	9
82	Long-Term NMDAR Antagonism Correlates Weight Loss With Less Eating. <i>Frontiers in Psychiatry</i> , 2019, 10, 15.	2.6	9
83	Methyleugenol counteracts anorexigenic signals in association with GABAergic inhibition in the central amygdala. <i>Neuropharmacology</i> , 2018, 141, 331-342.	4.1	8
84	Dynamic tripartite construct of interregional engram circuits underlies forgetting of extinction memory. <i>Molecular Psychiatry</i> , 2022, 27, 4077-4091.	7.9	8
85	Acidosis counteracts itch tachyphylaxis to consecutive pruritogen exposure dependent on acid-sensing ion channel 3. <i>Molecular Pain</i> , 2017, 13, 174480691772111.	2.1	7
86	Pharmacological Validation of ASIC1a as a Druggable Target for Neuroprotection in Cerebral Ischemia Using an Intravenously Available Small Molecule Inhibitor. <i>Frontiers in Pharmacology</i> , 2022, 13, 849498.	3.5	6
87	A 12-genus bacterial signature identifies a group of severe autistic children with differential sensory behavior and brain structures. <i>Clinical and Translational Medicine</i> , 2021, 11, e314.	4.0	5
88	Emerging approaches to probing ion channel structure and function. <i>Neuroscience Bulletin</i> , 2012, 28, 351-374.	2.9	4
89	Unraveling the Mechanisms of Memory Extinction. <i>Neuroscience Bulletin</i> , 2018, 34, 385-388.	2.9	4
90	Cell-Type Identification in the Autonomic Nervous System. <i>Neuroscience Bulletin</i> , 2019, 35, 145-155.	2.9	2