Xiaoning Bi

List of Publications by Year
in descending order

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98 papers	10,213 citations	61984 43 h-index	40979 93 g-index
100 all docs	100 docs citations	100 times ranked	17379 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
2	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. Autophagy, 2008, 4, 151-175.	9.1	2,064
3	Reversal of age-related learning deficits and brain oxidative stress in mice with superoxide dismutase/catalase mimetics. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8526-8531.	7.1	338
4	Positive AMPA Receptor Modulation Rapidly Stimulates BDNF Release and Increases Dendritic mRNA Translation. Journal of Neuroscience, 2009, 29, 8688-8697.	3.6	199
5	Cholesterol Accumulation Is Associated with Lysosomal Dysfunction and Autophagic Stress in Npc1âˆ’/âˆ’ Mouse Brain. American Journal of Pathology, 2007, 171, 962-975.	3.8	189
6	Calpain-1 and Calpain-2: The Yin and Yang of Synaptic Plasticity and Neurodegeneration. Trends in Neurosciences, 2016, 39, 235-245.	8.6	187
7	Theta Stimulation Polymerizes Actin in Dendritic Spines of Hippocampus. Journal of Neuroscience, 2005, 25, 2062-2069.	3.6	164
8	Postnatal development of inflammation in a murine model of Niemannâ€“Pick type C disease: immunohistochemical observations of microglia and astroglia. Experimental Neurology, 2003, 184, 887-903.	4.1	149
9	Distinct Roles for Î¼-Calpain and m-Calpain in Synaptic NMDAR-Mediated Neuroprotection and Extrasynaptic NMDAR-Mediated Neurodegeneration. Journal of Neuroscience, 2013, 33, 18880-18892.	3.6	142
10	Chronic Elevation of Brain-Derived Neurotrophic Factor by Ampakines. Journal of Pharmacology and Experimental Therapeutics, 2003, 307, 297-305.	2.5	126
11	Brain-Derived Neurotrophic Factor and Epidermal Growth Factor Activate Neuronal m-Calpain via Mitogen-Activated Protein Kinase-Dependent Phosphorylation. Journal of Neuroscience, 2010, 30, 1086-1095.	3.6	113
12	Evidence that integrins contribute to multiple stages in the consolidation of long term potentiation in rat hippocampus. Neuroscience, 2001, 105, 815-829.	2.3	103
13	UBE3A Regulates Synaptic Plasticity and Learning and Memory by Controlling SK2 Channel Endocytosis. Cell Reports, 2015, 12, 449-461.	6.4	101
14	Different Patterns of Electrical Activity Lead to Long-term Potentiation by Activating Different Intracellular Pathways. Journal of Neuroscience, 2015, 35, 621-633.	3.6	99
15	Uptake and pathogenic effects of amyloid beta peptide 1â€“42 are enhanced by integrin antagonists and blocked by NMDA receptor antagonists. Neuroscience, 2002, 112, 827-840.	2.3	98
16	17-Î²-Estradiol increases neuronal excitability through MAP kinase-induced calpain activation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21936-21941.	7.1	98
17	Progesteroneâ€“estrogen interactions in synaptic plasticity and neuroprotection. Neuroscience, 2013, 239, 280-294.	2.3	94
18	Multiple cellular cascades participate in long-term potentiation and in hippocampus-dependent learning. Brain Research, 2015, 1621, 73-81.	2.2	92

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19	Regional distribution and time-course of calpain activation following kainate-induced seizure activity in adult rat brain. Brain Research, 1996, 726, 98-108.	2.2	86
20	Ampakines promote spine actin polymerization, long-term potentiation, and learning in a mouse model of Angelman syndrome. Neurobiology of Disease, 2012, 47, 210-215.	4.4	85
21	Defects in the CAPN1 Gene Result in Alterations in Cerebellar Development and Cerebellar Ataxia in Mice and Humans. Cell Reports, 2016, 16, 79-91.	6.4	82
22	Calpain-mediated regulation of NMDA receptor structure and function. Brain Research, 1998, 790, 245-253.	2.2	79
23	Calpain-2-Mediated PTEN Degradation Contributes to BDNF-Induced Stimulation of Dendritic Protein Synthesis. Journal of Neuroscience, 2013, 33, 4317-4328.	3.6	78
24	Allopregnanolone treatment, both as a single injection or repetitively, delays demyelination and enhances survival of Niemann-Pick C mice. Journal of Neuroscience Research, 2005, 82, 811-821.	2.9	77
25	A molecular brake controls the magnitude of long-term potentiation. Nature Communications, 2014, 5, 3051.	12.8	77
26	Polarized distribution of ?5 integrin in dendrites of hippocampal and cortical neurons. Journal of Comparative Neurology, 2001, 435, 184-193.	1.6	75
27	Novel Cathepsin D Inhibitors Block the Formation of Hyperphosphorylated Tau Fragments in Hippocampus. Journal of Neurochemistry, 2000, 74, 1469-1477.	3.9	67
28	A Novel Function for p53: Regulation of Growth Cone Motility through Interaction with Rho Kinase. Journal of Neuroscience, 2009, 29, 5183-5192.	3.6	64
29	Inhibition of Geranylgeranylation Mediates the Effects of 3-Hydroxy-3-methylglutaryl (HMG)-CoA Reductase Inhibitors on Microglia. Journal of Biological Chemistry, 2004, 279, 48238-48245.	3.4	63
30	The C-terminal domain of glutamate receptor subunit 1 is a target for calpain-mediated proteolysis. Neuroscience, 1996, 73, 903-906.	2.3	62
31	Imbalanced Mechanistic Target of Rapamycin C1 and C2 Activity in the Cerebellum of Angelman Syndrome Mice Impairs Motor Function. Journal of Neuroscience, 2015, 35, 4706-4718.	3.6	62
32	mTORC1â€“S6K1 inhibition or mTORC2 activation improves hippocampal synaptic plasticity and learning in Angelman syndrome mice. Cellular and Molecular Life Sciences, 2016, 73, 4303-4314.	5.4	61
33	Activity-Dependent Rapid Local RhoA Synthesis Is Required for Hippocampal Synaptic Plasticity. Journal of Neuroscience, 2015, 35, 2269-2282.	3.6	59
34	A novel form of synaptic plasticity in field CA3 of hippocampus requires GPER1 activation and BDNF release. Journal of Cell Biology, 2015, 210, 1225-1237.	5.2	59
35	Phosphorylation regulates calpain-mediated truncation of glutamate ionotropic receptors. Brain Research, 1998, 797, 154-158.	2.2	58
36	Allopregnanolone treatment delays cholesterol accumulation and reduces autophagic/lysosomal dysfunction and inflammation in Npc1â^'/â^' mouse brain. Brain Research, 2009, 1270, 140-151.	2.2	58

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37	Effects of the Superoxide Dismutase/Catalase Mimetic EUK-207 in a Mouse Model of Alzheimer's Disease: Protection Against and Interruption of Progression of Amyloid and Tau Pathology and Cognitive Decline. Journal of Alzheimer's Disease, 2012, 30, 183-208.	2.6	58
38	Two synaptotagmin genes, Syt 1 and Syt 4, are differentially regulated in adult brain and during postnatal development following kainic acid-induced seizures. Molecular Brain Research, 1996, 40, 229-239.	2.3	53
39	Increased expression of cyclin D1 in the adult rat brain following kainic acid treatment. NeuroReport, 1996, 7, 2785-2790.	1.2	53
40	Lysosomal Protease Inhibitors Induce Meganeurites and Tangle-like Structures in Entorhinohippocampal Regions Vulnerable to Alzheimer's Disease. Experimental Neurology, 1999, 158, 312-327.	4.1	53
41	Characterization of Calpainâ€Mediated Proteolysis of GluR1 Subunits of Î±â€Aminoâ€3â€Hydroxyâ€5â€Methylisoxazoleâ€4â€Propionate Receptors in Rat Brain. Journal of Neurochemistry, 1997, 68, 1484-1494.	3.9	51
42	Calpain-mediated regulation of AMPA receptors in adult rat brain. NeuroReport, 1994, 6, 61-64.	1.2	50
43	The biochemistry of memory: The 26year journey of a â€˜new and specific hypothesisâ€™. Neurobiology of Learning and Memory, 2011, 95, 125-133.	1.9	45
44	Regulation of Calpain-2 in Neurons: Implications for Synaptic Plasticity. Molecular Neurobiology, 2010, 42, 143-150.	4.0	44
45	Protection against TBI-Induced Neuronal Death with Post-Treatment with a Selective Calpain-2 Inhibitor in Mice. Journal of Neurotrauma, 2018, 35, 105-117.	3.4	43
46	Calpain-mediated proteolysis of GluR1 subunits in organotypic hippocampal cultures following kainic acid treatment. Brain Research, 1998, 781, 355-357.	2.2	42
47	Neuroprotection against neonatal hypoxia/ischemia-induced cerebral cell death by prevention of calpain-mediated mGluR1Î± truncation. Experimental Neurology, 2009, 218, 75-82.	4.1	42
48	Targeting calpain in synaptic plasticity. Expert Opinion on Therapeutic Targets, 2013, 17, 579-592.	3.4	42
49	Calpain-1 and calpain-2 play opposite roles in retinal ganglion cell degeneration induced by retinal ischemia/reperfusion injury. Neurobiology of Disease, 2016, 93, 121-128.	4.4	42
50	Cholesterol in Niemannâ€"Pick Type C disease. Sub-Cellular Biochemistry, 2010, 51, 319-335.	2.4	40
51	UBE3A-mediated p18/LAMTOR1 ubiquitination and degradation regulate mTORC1 activity and synaptic plasticity. ELife, 2018, 7, .	6.0	38
52	Autophagic-Lysosomal Dysfunction and Neurodegeneration in Niemann-Pick Type C Mice: Lipid Starvation or Indigestion?. Autophagy, 2007, 3, 646-648.	9.1	36
53	Lysosomes and brain aging in mammals. Neurochemical Research, 2003, 28, 1725-1734.	3.3	34
54	Calpain-1 deletion impairs mGluR-dependent LTD and fear memory extinction. Scientific Reports, 2017, 7, 42788.	3.3	34

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55	Role of calpain-mediated p53 truncation in semaphorin 3A-induced axonal growth regulation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13883-13887.	7.1	33
56	Deregulation of the Phosphatidylinositol-3 Kinase Signaling Cascade Is Associated with Neurodegeneration in Npc1âˆ’/âˆ’ Mouse Brain. American Journal of Pathology, 2005, 167, 1081-1092.	3.8	32
57	A calpain-2 selective inhibitor enhances learning & memory by prolonging ERK activation. Neuropharmacology, 2016, 105, 471-477.	4.1	32
58	NMDA Receptor-Mediated Regulation of AMPA Receptor Properties in Organotypic Hippocampal Slice Cultures. Journal of Neurochemistry, 2002, 69, 131-136.	3.9	30
59	Calpain-1 and Calpain-2 in the Brain: New Evidence for a Critical Role of Calpain-2 in Neuronal Death. Cells, 2020, 9, 2698.	4.1	30
60	Calpain-2 as a therapeutic target for acute neuronal injury. Expert Opinion on Therapeutic Targets, 2018, 22, 19-29.	3.4	28
61	Developmental changes in calpain activity, GluR1 receptors and in the effect of kainic acid treatment in rat brain. Neuroscience, 1997, 81, 1123-1135.	2.3	27
62	Abnormal gene expression in cerebellum of Npc1âˆ’/âˆ’ mice during postnatal development. Brain Research, 2010, 1325, 128-140.	2.2	27
63	Effects of positive AMPA receptor modulators on calpain-mediated spectrin degradation in cultured hippocampal slices. Neurochemistry International, 2005, 46, 31-40.	3.8	26
64	Prolonged Positive Modulation of Î±-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptors Induces Calpain-Mediated PSD-95/Dlg/ZO-1 Protein Degradation and AMPA Receptor Down-Regulation in Cultured Hippocampal Slices. Journal of Pharmacology and Experimental Therapeutics, 2005, 314, 16-26.	2.5	25
65	The PDE10A inhibitor, papaverine, differentially activates ERK in male and female rat striatal slices. Neuropharmacology, 2011, 61, 1275-1281.	4.1	23
66	Learning and memory: An emergent property of cell motility. Neurobiology of Learning and Memory, 2013, 104, 64-72.	1.9	23
67	Î²-Amyloid increases cathepsin D levels in hippocampus. Neuroscience Letters, 1998, 250, 75-78.	2.1	22
68	The tyrosine phosphatase PTPN13/FAP-1 links calpain-2, TBI and tau tyrosine phosphorylation. Scientific Reports, 2017, 7, 11771.	3.3	22
69	Spatial patterns of mammalian brain aging: Distribution of cathepsin D-immunoreactive cell bodies and dystrophic dendrites in aging dogs resembles that in Alzheimer's disease. Journal of Comparative Neurology, 2003, 464, 371-381.	1.6	21
70	SK2 channel regulation of neuronal excitability, synaptic transmission, and brain rhythmic activity in health and diseases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118834.	4.1	20
71	Maintenance of Synaptic Stability Requires Calcium-Independent Phospholipase A₂Activity. Neural Plasticity, 2012, 2012, 1-13.	2.2	18
72	Cholesterol Perturbation in Mice Results in p53 Degradation and Axonal Pathology through p38 MAPK and Mdm2 Activation. PLoS ONE, 2010, 5, e9999.	2.5	18

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73	Potential therapeutic approaches for Angelman syndrome. Expert Opinion on Therapeutic Targets, 2016, 20, 601-613.	3.4	16
74	Differential Activation of Calpain-1 and Calpain-2 following Kainate-Induced Seizure Activity in Rats and Mice. ENeuro, 2016, 3, ENEURO.0088-15.2016.	1.9	16
75	Deleting both PHLPP1 and CANP1 rescues impairments in long-term potentiation and learning in both single knockout mice. Learning and Memory, 2016, 23, 399-404.	1.3	15
76	Calpain-2 as a therapeutic target in repeated concussionâ€“induced neuropathy and behavioral impairment. Science Advances, 2020, 6, .	10.3	15
77	Posttranslational Regulation of Ionotropic Glutamate Receptors and Synaptic Plasticity. International Review of Neurobiology, 1998, 42, 227-284.	2.0	14
78	Calpain-Mediated Truncation of Glutamate Ionotropic Receptors: Methods for Studying the Effects of Calpain Activation in Brain Tissue. , 2000, 144, 203-217.		14
79	Enhancement of synaptic plasticity and reversal of impairments in motor and cognitive functions in a mouse model of Angelman Syndrome by a small neurogenic molecule, NSI-189. Neuropharmacology, 2019, 144, 337-344.	4.1	12
80	Reduced early hypoxic/ischemic brain damage is associated with increased GLT-1 levels in mice expressing mutant (P301L) human tau. Brain Research, 2009, 1247, 159-170.	2.2	11
81	Calpain-mediated regulation of stargazin in adult rat brain. Neuroscience, 2011, 178, 13-20.	2.3	11
82	Enhanced expression of matrix metalloproteinase-12 contributes to Npc1 deficiency-induced axonal degeneration. Experimental Neurology, 2015, 269, 67-74.	4.1	11
83	Deletion of the Capn1 Gene Results in Alterations in Signaling Pathways Related to Alzheimerâ€™s Disease, Protein Quality Control and Synaptic Plasticity in Mouse Brain. Frontiers in Genetics, 2020, 11, 334.	2.3	11
84	Alzheimer disease: update on basic mechanisms. Journal of the American Osteopathic Association, The, 2010, 110, S3-9.	1.7	11
85	Ultrastructural analysis of hippocampal pyramidal neurons from apolipoprotein E-deficient mice treated with a cathepsin inhibitor. Journal of Neurocytology, 2004, 33, 37-48.	1.5	10
86	Impaired cerebellar plasticity and eye-blink conditioning in calpain-1 knock-out mice. Neurobiology of Learning and Memory, 2020, 170, 106995.	1.9	10
87	Calpain-2 activation in mouse hippocampus plays a critical role in seizure-induced neuropathology. Neurobiology of Disease, 2021, 147, 105149.	4.4	10
88	LAMTOR1 inhibition of TRPML1â€dependent lysosomal calcium release regulates dendritic lysosome trafficking and hippocampal neuronal function. EMBO Journal, 2022, 41, e108119.	7.8	8
89	Experimentally induced lysosomal dysfunction disrupts processing of hypothalamic releasing factors. Journal of Comparative Neurology, 1998, 401, 382-394.	1.6	7
90	PKA and Ube3a regulate SK2 channel trafficking to promote synaptic plasticity in hippocampus: Implications for Angelman Syndrome. Scientific Reports, 2020, 10, 9824.	3.3	7

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91	Role of Calpain-1 in Neurogenesis. Frontiers in Molecular Biosciences, 2021, 8, 685938.	3.5	7
92	P13BP, a Calpain-2-Mediated Breakdown Product of PTPN13, Is a Novel Blood Biomarker for Traumatic Brain Injury. Journal of Neurotrauma, 2021, 38, 3077-3085.	3.4	5
93	Novel neurobiological roles of UBE3A. Oncotarget, 2017, 8, 12548-12549.	1.8	3
94	Changes in neurodegeneration-related miRNAs in brains from CAPN1âˆ'/âˆ' mice. BBA Advances, 2021, 1, 100004.	1.6	1
95	Yin-and-Yang of mTORC1/C2 in Angelman syndrome mice. Oncotarget, 2015, 6, 13844-13845.	1.8	1
96	To Survive or to Die: How Neurons Deal with it. , 2018, , 19-35.		0
97	Calpainâ€•1 Knockout in Mice Causes Degeneration of Cerebellar Granule Cells and Ataxia. FASEB Journal, 2015, 29, 727.8.	0.5	0
98	A novel form of synaptic plasticity in field CA3 of hippocampus requires GPER1 activation and BDNF release. Journal of Experimental Medicine, 2015, 212, 21211OIA92.	8.5	0