Min Zhuo

List of Publications by Year
in descending order

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323	24,242	5574	9589
papers	citations	82 h-index	142 g-index

349	349	349	17330
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genetic enhancement of learning and memory in mice. Nature, 1999, 401, 63-69.	27.8	1,666
2	Nitric oxide and carbon monoxide produce activity-dependent long-term synaptic enhancement in hippocampus. Science, 1993, 260, 1946-1950.	12.6	556
3	Age-related defects in spatial memory are correlated with defects in the late phase of hippocampal long-term potentiation in vitro and are attenuated by drugs that enhance the cAMP signaling pathway. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5280-5285.	7.1	513
4	Synaptic plasticity in the anterior cingulate cortex in acute and chronic pain. Nature Reviews Neuroscience, 2016, 17, 485-496.	10.2	509
5	Role of guanylyl cyclase and cGMP-dependent protein kinase in long-term potentiation. Nature, 1994, 368, 635-639.	27.8	500
6	Roles of NMDA NR2B Subtype Receptor in Prefrontal Long-Term Potentiation and Contextual Fear Memory. Neuron, 2005, 47, 859-872.	8.1	434
7	Cortical excitation and chronic pain. Trends in Neurosciences, 2008, 31, 199-207.	8.6	432
8	Spinophilin regulates the formation and function of dendritic spines. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9287-9292.	7.1	368
9	Alleviating Neuropathic Pain Hypersensitivity by Inhibiting PKMÎ¶ in the Anterior Cingulate Cortex. Science, 2010, 330, 1400-1404.	12.6	350
10	Sleep deprivation impairs cAMP signalling in the hippocampus. Nature, 2009, 461, 1122-1125.	27.8	339
11	Mice lacking the gene encoding tissue-type plasminogen activator show a selective interference with late-phase long-term potentiation in both Schaffer collateral and mossy fiber pathways.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 8699-8704.	7.1	323
12	Genetic enhancement of inflammatory pain by forebrain NR2B overexpression. Nature Neuroscience, 2001, 4, 164-169.	14.8	305
13	Presynaptic and Postsynaptic Amplifications of Neuropathic Pain in the Anterior Cingulate Cortex. Journal of Neuroscience, 2008, 28, 7445-7453.	3.6	305
14	Enhancement of Learning and Memory by Elevating Brain Magnesium. Neuron, 2010, 65, 165-177.	8.1	281
15	Role of Tissue Plasminogen Activator Receptor LRP in Hippocampal Long-Term Potentiation. Journal of Neuroscience, 2000, 20, 542-549.	3.6	277
16	Deficits in Trace Fear Memory and Long-Term Potentiation in a Mouse Model for Fragile X Syndrome. Journal of Neuroscience, 2005, 25, 7385-7392.	3.6	265
17	Silent glutamatergic synapses and nociception in mammalian spinal cord. Nature, 1998, 393, 695-698.	27.8	261
18	Coexistence of Two Forms of LTP in ACC Provides a Synaptic Mechanism for the Interactions between Anxiety and Chronic Pain. Neuron, 2015, 85, 377-389.	8.1	261

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19	Kainate-receptor-mediated sensory synaptic transmission in mammalian spinal cord. Nature, 1999, 397, 161-164.	27.8	259
20	Impaired Synaptic Plasticity and cAMP Response Element-Binding Protein Activation in Ca²⁺/Calmodulin-Dependent Protein Kinase Type IV/Gr-Deficient Mice. Journal of Neuroscience, 2000, 20, 6459-6472.	3.6	234
21	Descending facilitatory modulation of a behavioral nociceptive response by stimulation in the adult rat anterior cingulate cortex. European Journal of Pain, 2000, 4, 83-96.	2.8	231
22	Biphasic Modulation of Spinal Nociceptive Transmission From the Medullary Raphe Nuclei in the Rat. Journal of Neurophysiology, 1997, 78, 746-758.	1.8	229
23	Genetic Elimination of Behavioral Sensitization in Mice Lacking Calmodulin-Stimulated Adenylyl Cyclases. Neuron, 2002, 36, 713-726.	8.1	226
24	Upregulation of CREB-Mediated Transcription Enhances Both Short- and Long-Term Memory. Journal of Neuroscience, 2011, 31, 8786-8802.	3.6	223
25	Neural Mechanisms Underlying Anxietyâ€“Chronic Pain Interactions. Trends in Neurosciences, 2016, 39, 136-145.	8.6	220
26	Upregulation of Forebrain NMDA NR2B Receptors Contributes to Behavioral Sensitization after Inflammation. Journal of Neuroscience, 2005, 25, 11107-11116.	3.6	218
27	Calciumâ€“calmodulin-dependent protein kinase IV is required for fear memory. Nature Neuroscience, 2002, 5, 573-579.	14.8	208
28	Hippocampal long-term depression and depotentiation are defective in mice carrying a targeted disruption of the gene encoding the RI beta subunit of cAMP-dependent protein kinase.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8851-8855.	7.1	204
29	Neuronal and microglial mechanisms of neuropathic pain. Molecular Brain, 2011, 4, 31.	2.6	196
30	The JAK/STAT Pathway Is Involved in Synaptic Plasticity. Neuron, 2012, 73, 374-390.	8.1	185
31	FMRP Acts as a Key Messenger for Dopamine Modulation in the Forebrain. Neuron, 2008, 59, 634-647.	8.1	184
32	AMPA receptorâ€“PDZ interactions in facilitation of spinal sensory synapses. Nature Neuroscience, 1999, 2, 972-977.	14.8	180
33	Pavlovian Fear Memory Induced by Activation in the Anterior Cingulate Cortex. Molecular Pain, 2005, 1, 1744-8069-1-6.	2.1	174
34	Enhanced Presynaptic Neurotransmitter Release in the Anterior Cingulate Cortex of Mice with Chronic Pain. Journal of Neuroscience, 2006, 26, 8923-8930.	3.6	171
35	Impaired hippocampal plasticity in mice lacking the Cbeta1 catalytic subunit of cAMP-dependent protein kinase.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 1571-1576.	7.1	169
36	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

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37	Synaptic Imbalance, Stereotypies, and Impaired Social Interactions in Mice with Altered Neuroligin 2 Expression. Journal of Neuroscience, 2008, 28, 6055-6067.	3.6	163
38	Potentiation of sensory responses in the anterior cingulate cortex following digit amputation in the anaesthetised rat. Journal of Physiology, 2001, 532, 823-833.	2.9	160
39	Hyperactivity of Anterior Cingulate Cortex Areas 24a/24b Drives Chronic Pain-Induced Anxiodepressive-like Consequences. Journal of Neuroscience, 2018, 38, 3102-3115.	3.6	158
40	A selective role of calcineurin AÂ in synaptic depotentiation in hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4650-4655.	7.1	157
41	Loss of Synaptic Depression in Mammalian Anterior Cingulate Cortex after Amputation. Journal of Neuroscience, 1999, 19, 9346-9354.	3.6	154
42	Top-down descending facilitation of spinal sensory excitatory transmission from the anterior cingulate cortex. Nature Communications, 2018, 9, 1886.	12.8	151
43	Inducible protein knockout reveals temporal requirement of CaMKII reactivation for memory consolidation in the brain. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4287-4292.	7.1	149
44	Altered Stress-Induced Anxiety in Adenylyl Cyclase Type VIII-Deficient Mice. Journal of Neuroscience, 2000, 20, 4809-4820.	3.6	148
45	Presynaptic Kainate Receptors Regulate Spinal Sensory Transmission. Journal of Neuroscience, 2001, 21, 59-66.	3.6	148
46	Spinal serotonin receptors mediate descending facilitation of a nociceptive reflex from the nuclei reticularis gigantocellularis and gigantocellularis pars alpha in the rat. Brain Research, 1991, 550, 35-48.	2.2	147
47	Targeting the NMDA Receptor Subunit NR2B for the Treatment of Neuropathic Pain. Neurotherapeutics, 2009, 6, 693-702.	4.4	147
48	Plasticity of NMDA receptor NR2B subunit in memory and chronic pain. Molecular Brain, 2009, 2, 4.	2.6	146
49	Long-term potentiation in the anterior cingulate cortex and chronic pain. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130146.	4.0	143
50	Dendritic Ca2+ Channels Characterized by Recordings from Isolated Hippocampal Dendritic Segments. Neuron, 1997, 18, 651-663.	8.1	138
51	Oxytocin mediates stressâ€induced analgesia in adult mice. Journal of Physiology, 2002, 540, 593-606.	2.9	135
52	Identification of an Adenylyl Cyclase Inhibitor for Treating Neuropathic and Inflammatory Pain. Science Translational Medicine, 2011, 3, 65ra3.	12.4	135
53	Impaired NMDA Receptor-Mediated Postsynaptic Function and Blunted NMDA Receptor-Dependent Persistent Pain in Mice Lacking Postsynaptic Density-93 Protein. Journal of Neuroscience, 2003, 23, 6703-6712.	3.6	132
54	Characterization of descending inhibition and facilitation from the nuclei reticularis gigantocellularis and gigantocellularis pars alpha in the rat. Pain, 1990, 42, 337-350.	4.2	131

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55	Nitric oxide and carbon monoxide as possible retrograde messengers in hgippocampal long-term potentiation. Journal of Neurobiology, 1994, 25, 652-665.	3.6	131
56	Increased soluble amyloid-Â peptide and memory deficits in amyloid model mice overexpressing the low-density lipoprotein receptor-related protein. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1075-1080.	7.1	128
57	ATP-induced chemotaxis of microglial processes requires P2Y receptor-activated initiation of outward potassium currents. Glia, 2007, 55, 810-821.	4.9	128
58	PI3KÎ³ is required for NMDA receptorâ€“dependent long-term depression and behavioral flexibility. Nature Neuroscience, 2011, 14, 1447-1454.	14.8	126
59	Calcium Calmodulin-Stimulated Adenylyl Cyclases Contribute to Activation of Extracellular Signal-Regulated Kinase in Spinal Dorsal Horn Neurons in Adult Rats and Mice. Journal of Neuroscience, 2006, 26, 851-861.	3.6	121
60	Neuronal Mechanism for Neuropathic Pain. Molecular Pain, 2007, 3, 1744-8069-3-14.	2.1	121
61	A synaptic model for pain: long-term potentiation in the anterior cingulate cortex. Molecules and Cells, 2007, 23, 259-71.	2.6	120
62	ATP P_{2Ã—} Receptors and Sensory Synaptic Transmission Between Primary Afferent Fibers and Spinal Dorsal Horn Neurons in Rats. Journal of Neurophysiology, 1998, 80, 3356-3360.	1.8	118
63	Bidirectional modulation of hyperalgesia via the specific control of excitatory and inhibitory neuronal activity in the ACC. Molecular Brain, 2015, 8, 81.	2.6	118
64	Direct Presynaptic Regulation of GABA/Glycine Release by Kainate Receptors in the Dorsal Horn. Neuron, 2001, 32, 477-488.	8.1	116
65	NMDA receptor-dependent long-term potentiation comprises a family of temporally overlapping forms of synaptic plasticity that are induced by different patterns of stimulation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130131.	4.0	116
66	Calcium-Stimulated Adenylyl Cyclases Required for Long-Term Potentiation in the Anterior Cingulate Cortex. Journal of Neurophysiology, 2005, 94, 878-882.	1.8	114
67	Upregulation of Calcium/Calmodulin-Dependent Protein Kinase IV Improves Memory Formation and Rescues Memory Loss with Aging. Journal of Neuroscience, 2008, 28, 9910-9919.	3.6	114
68	Neuronal and microglial mechanisms for neuropathic pain in the spinal dorsal horn and anterior cingulate cortex. Journal of Neurochemistry, 2017, 141, 486-498.	3.9	112
69	The Specific Role of cGMP in Hippocampal LTP. Learning and Memory, 1998, 5, 231-245.	1.3	112
70	Altered Behavioral Responses to Noxious Stimuli and Fear in Glutamate Receptor 5 (GluR5)- or GluR6-Deficient Mice. Journal of Neuroscience, 2005, 25, 977-984.	3.6	110
71	An Increase in Synaptic NMDA Receptors in the Insular Cortex Contributes to Neuropathic Pain. Science Signaling, 2013, 6, ra34.	3.6	110
72	Nitric oxide and cGMP can produce either synaptic depression or potentiation depending on the frequency of presynaptic stimulation in the hippocampus. NeuroReport, 1994, 5, 1033-1036.	1.2	107

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73	Role of Egr1 in Hippocampal Synaptic Enhancement Induced by Tetanic Stimulation and Amputation. Journal of Cell Biology, 2000, 149, 1325-1334.	5.2	104
74	Selective Activation of Microglia in Spinal Cord but Not Higher Cortical Regions Following Nerve Injury in Adult Mouse. Molecular Pain, 2008, 4, 1744-8069-4-15.	2.1	98
75	The Role of Hippocampal GluR1 and GluR2 Receptors in Manic-Like Behavior. Journal of Neuroscience, 2008, 28, 68-79.	3.6	98
76	Tonic cholinergic inhibition of spinal mechanical transmission. Pain, 1991, 46, 211-222.	4.2	91
77	Kainate Receptor Subunits Underlying Presynaptic Regulation of Transmitter Release in the Dorsal Horn. Journal of Neuroscience, 2002, 22, 8010-8017.	3.6	89
78	Kainate Receptor-Mediated Synaptic Transmission in the Adult Anterior Cingulate Cortex. Journal of Neurophysiology, 2005, 94, 1805-1813.	1.8	87
79	Glutamate receptors and persistent pain: targeting forebrain NR2B subunits. Drug Discovery Today, 2002, 7, 259-267.	6.4	86
80	Contribution of synaptic plasticity in the insular cortex to chronic pain. Neuroscience, 2016, 338, 220-229.	2.3	85
81	Facilitation and attenuation of a visceral nociceptive reflex from the rostroventral medulla in the rat. Gastroenterology, 2002, 122, 1007-1019.	1.3	84
82	Postsynaptic Potentiation of Corticospinal Projecting Neurons in the Anterior Cingulate Cortex after Nerve Injury. Molecular Pain, 2014, 10, 1744-8069-10-33.	2.1	84
83	Ionotropic glutamate receptors contribute to pain transmission and chronic pain. Neuropharmacology, 2017, 112, 228-234.	4.1	84
84	Endogenous nitric oxide is required for tonic cholinergic inhibition of spinal mechanical transmission. Pain, 1993, 54, 71-78.	4.2	82
85	Effects of Elevation of Brain Magnesium on Fear Conditioning, Fear Extinction, and Synaptic Plasticity in the Infralimbic Prefrontal Cortex and Lateral Amygdala. Journal of Neuroscience, 2011, 31, 14871-14881.	3.6	81
86	Neurabin in the anterior cingulate cortex regulates anxiety-like behavior in adult mice. Molecular Brain, 2011, 4, 6.	2.6	80
87	Calcium-Permeable AMPA Receptors Mediate the Induction of the Protein Kinase A-Dependent Component of Long-Term Potentiation in the Hippocampus. Journal of Neuroscience, 2016, 36, 622-631.	3.6	80
88	Spinal cholinergic and monoaminergic receptors mediate descending inhibition from the nuclei reticularis gigantocellularis and gigantocellularis pars alpha in the rat. Brain Research, 1990, 535, 67-78.	2.2	78
89	Roles of NMDA receptor NR2A and NR2B subtypes for long-term depression in the anterior cingulate cortex. European Journal of Neuroscience, 2005, 22, 485-494.	2.6	77
90	Molecular mechanisms of pain in the anterior cingulate cortex. Journal of Neuroscience Research, 2006, 84, 927-933.	2.9	77

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91	Spinal serotonergic receptors mediate facilitation of a nociceptive reflex by subcutaneous formalin injection into the hindpaw in rats. Brain Research, 1998, 798, 46-54.	2.2	76
92	Hot Receptors in the Brain. Molecular Pain, 2006, 2, 1744-8069-2-34.	2.1	76
93	GluA1 Phosphorylation Contributes to Postsynaptic Amplification of Neuropathic Pain in the Insular Cortex. Journal of Neuroscience, 2014, 34, 13505-13515.	3.6	75
94	Increased Anxiety-Like Behavior and Enhanced Synaptic Efficacy in the Amygdala of GluR5 Knockout Mice. PLoS ONE, 2007, 2, e167.	2.5	74
95	Resting Microglial Motility Is Independent of Synaptic Plasticity in Mammalian Brain. Journal of Neurophysiology, 2008, 99, 2026-2032.	1.8	73
96	A Behavioral Model of Neuropathic Pain Induced by Ligation of the Common Peroneal Nerve in Mice. Journal of Pain, 2005, 6, 747-756.	1.4	71
97	Fragile X mental retardation protein is required for chemicallyâ€induced longâ€term potentiation of the hippocampus in adult mice. Journal of Neurochemistry, 2009, 111, 635-646.	3.9	71
98	Glutamate Acts as a Neurotransmitter for Gastrin Releasing Peptide-Sensitive and Insensitive Itch-Related Synaptic Transmission in Mammalian Spinal Cord. Molecular Pain, 2011, 7, 1744-8069-7-47.	2.1	71
99	Long-Term Depression: A Learning-Related Type of Synaptic Plasticity in the Mammalian Central Nervous System. Reviews in the Neurosciences, 1995, 6, 259-77.	2.9	70
100	Activation of Erk in the Anterior Cingulate Cortex During the Induction and Expression of Chronic Pain. Molecular Pain, 2008, 4, 1744-8069-4-28.	2.1	70
101	Oxytocin in the anterior cingulate cortex attenuates neuropathic pain and emotional anxiety by inhibiting presynaptic long-term potentiation. Cell Reports, 2021, 36, 109411.	6.4	70
102	Effects of NB001 and gabapentin on irritable bowel syndrome-induced behavioral anxiety and spontaneous pain. Molecular Brain, 2014, 7, 47.	2.6	69
103	Calciumâ€“calmodulin-dependent protein kinase IV is required for fear memory. Nature Neuroscience, 2002, 5, 573-579.	14.8	69
104	Biphasic Modulation of Spinal Visceral Nociceptive Transmission From the Rostroventral Medial Medulla in the Rat. Journal of Neurophysiology, 2002, 87, 2225-2236.	1.8	68
105	The Role of Calcium-Permeable AMPARs in Long-Term Potentiation at Principal Neurons in the Rodent Hippocampus. Frontiers in Synaptic Neuroscience, 2018, 10, 42.	2.5	68
106	Enhanced Quantal Release of Excitatory Transmitter in Anterior Cingulate Cortex of Adult Mice with Chronic Pain. Molecular Pain, 2009, 5, 1744-8069-5-4.	2.1	67
107	DREAM (Downstream Regulatory Element Antagonist Modulator) contributes to synaptic depression and contextual fear memory. Molecular Brain, 2010, 3, 3.	2.6	67
108	Plasticity of Metabotropic Glutamate Receptor-Dependent Long-Term Depression in the Anterior Cingulate Cortex after Amputation. Journal of Neuroscience, 2012, 32, 11318-11329.	3.6	66

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109	Requirement of Extracellular Signal-Regulated Kinase/Mitogen-Activated Protein Kinase for Long-Term Potentiation in Adult Mouse Anterior Cingulate Cortex. Molecular Pain, 2007, 3, 1744-8069-3-36.	2.1	65
110	Genetic Reduction of Chronic Muscle Pain in Mice Lacking Calcium/Calmodulin-Stimulated Adenylyl Cyclases. Molecular Pain, 2006, 2, 1744-8069-2-7.	2.1	64
111	Calmodulin Regulates Synaptic Plasticity in the Anterior Cingulate Cortex and Behavioral Responses: A Microelectroporation Study in Adult Rodents. Journal of Neuroscience, 2003, 23, 8402-8409.	3.6	63
112	Neuromedin U Receptor 2-Deficient Mice Display Differential Responses in Sensory Perception, Stress, and Feeding. Molecular and Cellular Biology, 2006, 26, 9352-9363.	2.3	63
113	Induction of Neuronal Vascular Endothelial Growth Factor Expression by cAMP in the Dentate Gyrus of the Hippocampus Is Required for Antidepressant-Like Behaviors. Journal of Neuroscience, 2009, 29, 8493-8505.	3.6	62
114	Evidence for the involvement of a descending cholinergic pathway in systemic morphine analgesia. Brain Research, 1989, 478, 293-300.	2.2	61
115	Roles of the AMPA Receptor Subunit GluA1 but Not GluA2 in Synaptic Potentiation and Activation of ERK in the Anterior Cingulate Cortex. Molecular Pain, 2009, 5, 1744-8069-5-46.	2.1	61
116	Descending facilitation. Molecular Pain, 2017, 13, 174480691769921.	2.1	60
117	Postsynaptic insertion of AMPA receptor onto cortical pyramidal neurons in the anterior cingulate cortex after peripheral nerve injury. Molecular Brain, 2014, 7, 76.	2.6	59
118	Comparison of behavioral responses to noxious cold and heat in mice. Brain Research, 1999, 845, 117-121.	2.2	58
119	Interplay of Amygdala and Cingulate Plasticity in Emotional Fear. Neural Plasticity, 2011, 2011, 1-9.	2.2	55
120	Group I Metabotropic Glutamate Receptor-Mediated Gene Transcription and Implications for Synaptic Plasticity and Diseases. Frontiers in Pharmacology, 2012, 3, 189.	3.5	55
121	Cholinergic, noradrenergic, and serotonergic inhibition of fast synaptic transmission in spinal lumbar dorsal horn of rat. Brain Research Bulletin, 2001, 54, 639-647.	3.0	54
122	Genetic Evidence for Adenylyl Cyclase 1 as a Target for Preventing Neuronal Excitotoxicity Mediated by N-Methyl-D-aspartate Receptors. Journal of Biological Chemistry, 2007, 282, 1507-1517.	3.4	54
123	Translational Investigation and Treatment of Neuropathic Pain. Molecular Pain, 2012, 8, 1744-8069-8-15.	2.1	54
124	Long-term potentiation of synaptic transmission in the adult mouse insular cortex: multielectrode array recordings. Journal of Neurophysiology, 2013, 110, 505-521.	1.8	54
125	Selective contribution of Egr1 (zif/268) to persistent inflammatory pain. Journal of Pain, 2005, 6, 12-20.	1.4	52
126	Molecular Targets of Anxiety: From Membrane to Nucleus. Neurochemical Research, 2008, 33, 1925-1932.	3.3	52

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127	Delay-dependent impairment of spatial working memory with inhibition of NR2B-containing NMDA receptors in hippocampal CA1 region of rats. Molecular Brain, 2013, 6, 13.	2.6	51
128	Pain Perception in Acute Model Mice of Parkinson's Disease Induced by 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine (MPTP). Molecular Pain, 2015, 11, s12990-015-0026.	2.1	51
129	Impaired Presynaptic Long-Term Potentiation in the Anterior Cingulate Cortex ofFmr1Knock-out Mice. Journal of Neuroscience, 2015, 35, 2033-2043.	3.6	51
130	Post-translational modification of NMDA receptor GluN2B subunit and its roles in chronic pain and memory. Seminars in Cell and Developmental Biology, 2011, 22, 521-529.	5.0	50
131	NMDA Receptor Dependent Long-term Potentiation in Chronic Pain. Neurochemical Research, 2019, 44, 531-538.	3.3	50
132	Sex differences in late behavioral response to subcutaneous formalin injection in mice. Brain Research, 1999, 829, 185-189.	2.2	49
133	Roles of Fragile X Mental Retardation Protein in Dopaminergic Stimulation-induced Synapse-associated Protein Synthesis and Subsequent Î±-Amino-3-hydroxyl-5-methyl-4-isoxazole-4-propionate (AMPA) Receptor Internalization. Journal of Biological Chemistry, 2010, 285, 21888-21901.	3.4	49
134	Targeting neuronal adenylyl cyclase for the treatment of chronic pain. Drug Discovery Today, 2012, 17, 573-582.	6.4	49
135	Molecular Pain, a New Era of Pain Research and Medicine. Molecular Pain, 2005, 1, 1744-8069-1-1.	2.1	48
136	In vivo Whole-Cell Patch-Clamp Recording of Sensory Synaptic Responses of Cingulate Pyramidal Neurons to Noxious Mechanical Stimuli in Adult Mice. Molecular Pain, 2010, 6, 1744-8069-6-62.	2.1	48
137	Pharmacological Rescue of Cortical Synaptic and Network Potentiation in a Mouse Model for Fragile X Syndrome. Neuropsychopharmacology, 2014, 39, 1955-1967.	5.4	46
138	Glutamatergic synapses from the insular cortex to the basolateral amygdala encode observational pain. Neuron, 2022, 110, 1993-2008.e6.	8.1	46
139	Selective Phosphorylation of AMPA Receptor Contributes to the Network of Long-Term Potentiation in the Anterior Cingulate Cortex. Journal of Neuroscience, 2017, 37, 8534-8548.	3.6	45
140	NMDA receptors and synaptic plasticity in the anterior cingulate cortex. Neuropharmacology, 2021, 197, 108749.	4.1	45
141	Rapid synaptic potentiation within the anterior cingulate cortex mediates trace fear learning. Molecular Brain, 2012, 5, 6.	2.6	44
142	Ascending noradrenergic excitation from the locus coeruleus to the anterior cingulate cortex. Molecular Brain, 2020, 13, 49.	2.6	44
143	Induction- and conditioning-protocol dependent involvement of NR2B-containing NMDA receptors in synaptic potentiation and contextual fear memory in the hippocampal CA1 region of rats. Molecular Brain, 2008, 1, 9.	2.6	43
144	Predicting Aversive Events and Terminating Fear in the Mouse Anterior Cingulate Cortex during Trace Fear Conditioning. Journal of Neuroscience, 2012, 32, 1082-1095.	3.6	43

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145	NMDA receptor-dependent long term hyperalgesia after tail amputation in mice. European Journal of Pharmacology, 1998, 349, 211-220.	3.5	42
146	Synergistic Enhancement of Glutamate-Mediated Responses by Serotonin and Forskolin in Adult Mouse Spinal Dorsal Horn Neurons. Journal of Neurophysiology, 2002, 87, 732-739.	1.8	42
147	Kainate Receptors and Pain: From Dorsal Root Ganglion to the Anterior Cingulate Cortex. Current Pharmaceutical Design, 2007, 13, 1597-1605.	1.9	42
148	The anterior insular cortex unilaterally controls feeding in response to aversive visceral stimuli in mice. Nature Communications, 2020, 11, 640.	12.8	42
149	Long-Term Memory Deficits in Pavlovian Fear Conditioning in Ca 2+ /Calmodulin Kinase Kinase Î±-Deficient Mice. Molecular and Cellular Biology, 2006, 26, 9105-9115.	2.3	41
150	Enhancement of Presynaptic Glutamate Release and Persistent Inflammatory Pain by Increasing Neuronal cAMP in the Anterior Cingulate Cortex. Molecular Pain, 2008, 4, 1744-8069-4-40.	2.1	41
151	DREAM Controls the On/Off Switch of Specific Activity-Dependent Transcription Pathways. Molecular and Cellular Biology, 2014, 34, 877-887.	2.3	41
152	Post-Training Dephosphorylation of eEF-2 Promotes Protein Synthesis for Memory Consolidation. PLoS ONE, 2009, 4, e7424.	2.5	41
153	Loss of Long-Term Depression in the Insular Cortex after Tail Amputation in Adult Mice. Molecular Pain, 2014, 10, 1744-8069-10-1.	2.1	40
154	Postsynaptic RIM1 modulates synaptic function by facilitating membrane delivery of recycling NMDARs in hippocampal neurons. Nature Communications, 2018, 9, 2267.	12.8	40
155	Time-dependent postsynaptic AMPA GluR1 receptor recruitment in the cingulate synaptic potentiation. Developmental Neurobiology, 2007, 67, 498-509.	3.0	39
156	Adenylyl Cyclase Subtype 1 is Essential for Late-Phase Long Term Potentiation and Spatial Propagation of Synaptic Responses in the Anterior Cingulate Cortex of Adult Mice. Molecular Pain, 2014, 10, 1744-8069-10-65.	2.1	39
157	Long-term upregulation of cortical glutamatergic AMPA receptors in a mouse model of chronic visceral pain. Molecular Brain, 2015, 8, 76.	2.6	39
158	Characterization of Intrinsic Properties of Cingulate Pyramidal Neurons in Adult Mice after Nerve Injury. Molecular Pain, 2009, 5, 1744-8069-5-73.	2.1	38
159	Long-term depression requires postsynaptic AMPA GluR2 receptor in adult mouse cingulate cortex. Journal of Cellular Physiology, 2007, 211, 336-343.	4.1	37
160	Genetic evidence for the requirement of adenylyl cyclaseâ€ƒ1 in synaptic scaling of forebrain cortical neurons. European Journal of Neuroscience, 2007, 26, 275-288.	2.6	37
161	Cingulate NMDA NR2B receptors contribute to morphine-induced analgesic tolerance. Molecular Brain, 2008, 1, 2.	2.6	37
162	A G Protein Î³ Subunit-specific Peptide Inhibits Muscarinic Receptor Signaling. Journal of Biological Chemistry, 1999, 274, 35305-35308.	3.4	36

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163	Fragile X Mental Retardation Protein in Learning-Related Synaptic Plasticity. Molecules and Cells, 2009, 28, 501-508.	2.6	36
164	Cortical Plasticity as a New Endpoint Measurement for Chronic Pain. Molecular Pain, 2011, 7, 1744-8069-7-54.	2.1	36
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