

Chu Chen

List of Publications by Year in descending order

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46
papers

3,771
citations

126907

33
h-index

223800

46
g-index

49
all docs

49
docs citations

49
times ranked

4733
citing authors

#	ARTICLE	IF	CITATIONS
1	Sleep Deprivation Causes Behavioral, Synaptic, and Membrane Excitability Alterations in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 9687-9695.	3.6	349
2	Cyclooxygenase-2 Regulates Prostaglandin E ₂ Signaling in Hippocampal Long-Term Synaptic Plasticity. <i>Journal of Neurophysiology</i> , 2002, 87, 2851-2857.	1.8	277
3	Monoacylglycerol Lipase Is a Therapeutic Target for Alzheimer's Disease. <i>Cell Reports</i> , 2012, 2, 1329-1339.	6.4	219
4	Lipid signaling: Sleep, synaptic plasticity, and neuroprotection. <i>Prostaglandins and Other Lipid Mediators</i> , 2005, 77, 65-76.	1.9	174
5	Postsynaptically Synthesized Prostaglandin E ₂ (PGE ₂) Modulates Hippocampal Synaptic Transmission via a Presynaptic PGE ₂ EP ₂ Receptor. <i>Journal of Neuroscience</i> , 2005, 25, 9858-9870.	3.6	166
6	Homeostatic Scaling of Vesicular Glutamate and GABA Transporter Expression in Rat Neocortical Circuits. <i>Journal of Neuroscience</i> , 2005, 25, 7121-7133.	3.6	166
7	Î ⁹ -THC-Caused Synaptic and Memory Impairments Are Mediated through COX-2 Signaling. <i>Cell</i> , 2013, 155, 1154-1165.	28.9	166
8	Cyclooxygenase-2 in Synaptic Signaling. <i>Current Pharmaceutical Design</i> , 2008, 14, 1443-1451.	1.9	164
9	Endogenous PGE ₂ Regulates Membrane Excitability and Synaptic Transmission in Hippocampal CA1 Pyramidal Neurons. <i>Journal of Neurophysiology</i> , 2005, 93, 929-941.	1.8	131
10	Hypoxia inducible factors in hepatocellular carcinoma. <i>Oncotarget</i> , 2017, 8, 46691-46703.	1.8	113
11	Synaptic and Cognitive Improvements by Inhibition of 2-AG Metabolism Are through Upregulation of MicroRNA-188-3p in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2014, 34, 14919-14933.	3.6	111
12	COX-2's new role in inflammation. <i>Nature Chemical Biology</i> , 2010, 6, 401-402.	8.0	102
13	Endocannabinoid 2-Arachidonoylglycerol Protects Neurons by Limiting COX-2 Elevation. <i>Journal of Biological Chemistry</i> , 2008, 283, 22601-22611.	3.4	100
14	Inhibition of COX-2 expression by endocannabinoid 2-araachidonoylglycerol is mediated via PPAR-Î ³ . <i>British Journal of Pharmacology</i> , 2011, 163, 1533-1549.	5.4	100
15	Endocannabinoids in Synaptic Plasticity and Neuroprotection. <i>Neuroscientist</i> , 2015, 21, 152-168.	3.5	95
16	Altered NMDA receptor trafficking contributes to sleep deprivation-induced hippocampal synaptic and cognitive impairments. <i>Biochemical and Biophysical Research Communications</i> , 2006, 340, 435-440.	2.1	94
17	Lipid Signaling and Synaptic Plasticity. <i>Neuroscientist</i> , 2006, 12, 425-434.	3.5	84
18	PGE ₂ glycerol ester, a COX-2 oxidative metabolite of 2-arachidonoyl glycerol, modulates inhibitory synaptic transmission in mouse hippocampal neurons. <i>Journal of Physiology</i> , 2006, 572, 735-745.	2.9	83

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19	COX-2 oxidative metabolite of endocannabinoid 2-AG enhances excitatory glutamatergic synaptic transmission and induces neurotoxicity. <i>Journal of Neurochemistry</i> , 2007, 102, 1966-1977.	3.9	79
20	Reduced expression of glutamate receptors and phosphorylation of CREB are responsible for <i>in vivo</i> Δ^9 -THC exposure-impaired hippocampal synaptic plasticity. <i>Journal of Neurochemistry</i> , 2010, 112, 691-702.	3.9	76
21	Inhibition of Monoacylglycerol Lipase Prevents Chronic Traumatic Encephalopathy-like Neuropathology in a Mouse Model of Repetitive Mild Closed Head Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 443-453.	4.3	72
22	Attenuated LTP in Hippocampal Dentate Gyrus Neurons of Mice Deficient in the PAF Receptor. <i>Journal of Neurophysiology</i> , 2001, 85, 384-390.	1.8	70
23	β -Amyloid increases dendritic Ca^{2+} influx by inhibiting the A-type K^+ current in hippocampal CA1 pyramidal neurons. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1913-1919.	2.1	68
24	ZD7288 inhibits postsynaptic glutamate receptor-mediated responses at hippocampal perforant path-granule cell synapses. <i>European Journal of Neuroscience</i> , 2004, 19, 643-649.	2.6	66
25	Hyperpolarization-activated current (I _h) in primary auditory neurons. <i>Hearing Research</i> , 1997, 110, 179-190.	2.0	63
26	COX-2 oxidative metabolism of endocannabinoids augments hippocampal synaptic plasticity. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 682-695.	2.2	61
27	A novel mechanism of synaptic and cognitive impairments mediated via microRNA-30b in Alzheimer's disease. <i>EBioMedicine</i> , 2019, 39, 409-421.	6.1	60
28	Altered hippocampal long-term synaptic plasticity in mice deficient in the PGE2 EP2 receptor. <i>Journal of Neurochemistry</i> , 2009, 108, 295-304.	3.9	54
29	Neurodevelopmental Role for VGLUT2 in Pyramidal Neuron Plasticity, Dendritic Refinement, and in Spatial Learning. <i>Journal of Neuroscience</i> , 2012, 32, 15886-15901.	3.6	52
30	Down-regulated expression of microRNA-338-5p contributes to neuropathology in Alzheimer's disease. <i>FASEB Journal</i> , 2019, 33, 4404-4417.	0.5	46
31	Long-lasting potentiation of hippocampal synaptic transmission by direct cortical input is mediated via endocannabinoids. <i>Journal of Physiology</i> , 2012, 590, 2305-2315.	2.9	41
32	Heterogeneous expression and regulation of hippocampal prostaglandin E2 receptors. <i>Journal of Neuroscience Research</i> , 2005, 81, 817-826.	2.9	39
33	Endocannabinoids Differentially Modulate Synaptic Plasticity in Rat Hippocampal CA1 Pyramidal Neurons. <i>PLoS ONE</i> , 2010, 5, e10306.	2.5	33
34	Alleviation of Neuropathology by Inhibition of Monoacylglycerol Lipase in APP Transgenic Mice Lacking CB2 Receptors. <i>Molecular Neurobiology</i> , 2018, 55, 4802-4810.	4.0	29
35	Inhibition of 2-Arachidonoylglycerol Metabolism Alleviates Neuropathology and Improves Cognitive Function in a Tau Mouse Model of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2021, 58, 4122-4133.	4.0	23
36	Acetaminophen modifies hippocampal synaptic plasticity via a presynaptic 5-HT ₂ receptor. <i>NeuroReport</i> , 2003, 14, 743-747.	1.2	22

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37	Genome-wide Gene-Asbestos Exposure Interaction Association Study Identifies a Common Susceptibility Variant on 22q13.31 Associated with Lung Cancer Risk. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2015, 24, 1564-1573.	2.5	21
38	TDP-43 drives synaptic and cognitive deterioration following traumatic brain injury. <i>Acta Neuropathologica</i> , 2022, 144, 187-210.	7.7	20
39	Enhancing endocannabinoid signalling in astrocytes promotes recovery from traumatic brain injury. <i>Brain</i> , 2022, 145, 179-193.	7.6	18
40	Anandamide potentiation of miniature spontaneous excitatory synaptic transmission is mediated via IP3 pathway. <i>Neurochemistry International</i> , 2010, 56, 590-596.	3.8	12
41	Fine-tuning of synaptic upscaling at excitatory synapses by endocannabinoid signaling is mediated via the CB1 receptor. <i>Scientific Reports</i> , 2015, 5, 16257.	3.3	11
42	Homeostatic regulation of brain functions by endocannabinoid signaling. <i>Neural Regeneration Research</i> , 2015, 10, 691.	3.0	11
43	Long-term potentiation at hippocampal perforant path-dentate astrocyte synapses. <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 326-330.	2.1	10
44	Endocannabinoid Metabolism and Traumatic Brain Injury. <i>Cells</i> , 2021, 10, 2979.	4.1	9
45	Endocannabinoid metabolism in neurodegenerative diseases. <i>Neuroimmunology and Neuroinflammation</i> , 2016, 3, 268.	1.4	7
46	Endocannabinoid metabolism and Alzheimer's disease. <i>Neural Regeneration Research</i> , 2022, 17, 1987.	3.0	4