

Tak Pan Wong

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

6,568
citations

136950

32
h-index

138484

58
g-index

62
all docs

62
docs citations

62
times ranked

8648
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of NMDA Receptor Subtypes in Governing the Direction of Hippocampal Synaptic Plasticity. <i>Science</i> , 2004, 304, 1021-1024.	12.6	975
2	NMDA Receptor Subunits Have Differential Roles in Mediating Excitotoxic Neuronal Death Both <i>In Vitro</i> and <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2007, 27, 2846-2857.	3.6	674
3	LTP Inhibits LTD in the Hippocampus via Regulation of GSK3 β . <i>Neuron</i> , 2007, 53, 703-717.	8.1	632
4	A balance between excitatory and inhibitory synapses is controlled by PSD-95 and neuroligin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13915-13920.	7.1	323
5	Activation of PI3-Kinase Is Required for AMPA Receptor Insertion during LTP of mEPSCs in Cultured Hippocampal Neurons. <i>Neuron</i> , 2003, 38, 611-624.	8.1	317
6	Tyrosine phosphorylation of GluR2 is required for insulin-stimulated AMPA receptor endocytosis and LTD. <i>EMBO Journal</i> , 2004, 23, 1040-1050.	7.8	267
7	Nucleus Accumbens Long-Term Depression and the Expression of Behavioral Sensitization. <i>Science</i> , 2005, 310, 1340-1343.	12.6	261
8	Hippocampal long-term depression is required for the consolidation of spatial memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16697-16702.	7.1	244
9	Neurexins Mediate Excitatory and Inhibitory Synapse Formation. <i>Journal of Biological Chemistry</i> , 2005, 280, 17312-17319.	3.4	242
10	Hippocampal long-term depression mediates acute stress-induced spatial memory retrieval impairment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11471-11476.	7.1	205
11	Reorganization of Cholinergic Terminals in the Cerebral Cortex and Hippocampus in Transgenic Mice Carrying Mutated Presenilin-1 and Amyloid Precursor Protein Transgenes. <i>Journal of Neuroscience</i> , 1999, 19, 2706-2716.	3.6	193
12	A Critical Role for Myosin IIB in Dendritic Spine Morphology and Synaptic Function. <i>Neuron</i> , 2006, 49, 175-182.	8.1	158
13	Calpain-Mediated mGluR1 β Truncation: A Key Step in Excitotoxicity. <i>Neuron</i> , 2007, 53, 399-412.	8.1	155
14	Cholinergic nerve terminals establish classical synapses in the rat cerebral cortex: synaptic pattern and age-related atrophy. <i>Neuroscience</i> , 2001, 105, 277-285.	2.3	130
15	Variations in postnatal maternal care and the epigenetic regulation of metabotropic glutamate receptor 1 expression and hippocampal function in the rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17200-17207.	7.1	130
16	Involvement of Myosin Vb in Glutamate Receptor Trafficking. <i>Journal of Biological Chemistry</i> , 2006, 281, 3669-3678.	3.4	113
17	Astrocytes Control Glutamate Receptor Levels at Developing Synapses through SPARC β -Integrin Interactions. <i>Journal of Neuroscience</i> , 2011, 31, 4154-4165.	3.6	112
18	Changes in retinal expression of neurotrophins and neurotrophin receptors induced by ocular hypertension. <i>Journal of Neurobiology</i> , 2004, 58, 341-354.	3.6	105

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19	The impact of A β 2-plaques on cortical cholinergic and non-cholinergic presynaptic boutons in alzheimer's disease-like transgenic mice. <i>Neuroscience</i> , 2003, 121, 421-432.	2.3	91
20	Presynaptic D2 Dopamine Receptors Control Long-Term Depression Expression and Memory Processes in the Temporal Hippocampus. <i>Biological Psychiatry</i> , 2015, 77, 513-525.	1.3	84
21	dcc orchestrates the development of the prefrontal cortex during adolescence and is altered in psychiatric patients. <i>Translational Psychiatry</i> , 2013, 3, e338-e338.	4.8	83
22	Loss of Presynaptic and Postsynaptic Structures Is Accompanied by Compensatory Increase in Action Potential-Dependent Synaptic Input to Layer V Neocortical Pyramidal Neurons in Aged Rats. <i>Journal of Neuroscience</i> , 2000, 20, 8596-8606.	3.6	70
23	Morphological and functional changes in the preweaning basolateral amygdala induced by early chronic stress associate with anxiety and fear behavior in adult male, but not female rats. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 81, 25-37.	4.8	70
24	Maternal Care Influences Hippocampal N-Methyl-D-Aspartate Receptor Function and Dynamic Regulation by Corticosterone in Adulthood. <i>Biological Psychiatry</i> , 2012, 72, 491-498.	1.3	58
25	A longitudinal study of stress-induced hippocampal volume changes in mice that are susceptible or resilient to chronic social defeat. <i>Hippocampus</i> , 2014, 24, 1120-1128.	1.9	58
26	Inhibiting tumor necrosis factor- β before amyloidosis prevents synaptic deficits in an Alzheimer's disease model. <i>Neurobiology of Aging</i> , 2016, 47, 41-49.	3.1	57
27	Synaptic numbers across cortical laminae and cognitive performance of the rat during ageing. <i>Neuroscience</i> , 1998, 84, 403-412.	2.3	51
28	Modulation of Synaptic Plasticity by Stress Hormone Associates with Plastic Alteration of Synaptic NMDA Receptor in the Adult Hippocampus. <i>PLoS ONE</i> , 2011, 6, e27215.	2.5	46
29	It Is All in the Right Amygdala: Increased Synaptic Plasticity and Perineuronal Nets in Male, But Not Female, Juvenile Rat Pups after Exposure to Early-Life Stress. <i>Journal of Neuroscience</i> , 2020, 40, 8276-8291.	3.6	45
30	NMDA Receptor Function and NMDA Receptor-Dependent Phosphorylation of Huntingtin Is Altered by the Endocytic Protein HIP1. <i>Journal of Neuroscience</i> , 2007, 27, 2298-2308.	3.6	41
31	Ligand-Dependent TrkA Activity in Brain Differentially Affects Spatial Learning and Long-Term Memory. <i>Molecular Pharmacology</i> , 2011, 80, 498-508.	2.3	41
32	Early Growth Response 1 (Egr-1) Regulates N-Methyl-d-aspartate Receptor (NMDAR)-dependent Transcription of PSD-95 and β -Amino-3-hydroxy-5-methyl-4-isoxazole Propionic Acid Receptor (AMPA) Trafficking in Hippocampal Primary Neurons. <i>Journal of Biological Chemistry</i> , 2015, 290, 29603-29616.	3.4	36
33	Maternal Care Differentially Affects Neuronal Excitability and Synaptic Plasticity in the Dorsal and Ventral Hippocampus. <i>Neuropsychopharmacology</i> , 2015, 40, 1590-1599.	5.4	36
34	Imbalance towards inhibition as a substrate of aging-associated cognitive impairment. <i>Neuroscience Letters</i> , 2006, 397, 64-68.	2.1	35
35	Antidepressive effects of targeting ELK-1 signal transduction. <i>Nature Medicine</i> , 2018, 24, 591-597.	30.7	33
36	Negative Memory Engrams in the Hippocampus Enhance the Susceptibility to Chronic Social Defeat Stress. <i>Journal of Neuroscience</i> , 2019, 39, 7576-7590.	3.6	32

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37	The susceptibility to chronic social defeat stress is related to low hippocampal extrasynaptic NMDA receptor function. <i>Neuropsychopharmacology</i> , 2019, 44, 1310-1318.	5.4	27
38	Knockdown of Prodynorphin Gene Prevents Cognitive Decline, Reduces Anxiety, and Rescues Loss of Group 1 Metabotropic Glutamate Receptor Function in Aging. <i>Journal of Neuroscience</i> , 2013, 33, 12792-12804.	3.6	26
39	Dynamic regulation of NMDAR function in the adult brain by the stress hormone corticosterone. <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 9.	3.7	24
40	Prenatal immune activation interacts with stress and corticosterone exposure later in life to modulate N-methyl-d-aspartate receptor synaptic function and plasticity. <i>International Journal of Neuropsychopharmacology</i> , 2013, 16, 1835-1848.	2.1	24
41	Loss of dysbindin-1, a risk gene for schizophrenia, leads to impaired group 1 metabotropic glutamate receptor function in mice. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 72.	2.0	24
42	Heterochromatic genome instability and neurodegeneration sharing similarities with Alzheimer's disease in old Bmi1+/+ mice. <i>Scientific Reports</i> , 2019, 9, 594.	3.3	22
43	Opposing Alterations in Excitation and Inhibition of Layer 5 Medial Prefrontal Cortex Pyramidal Neurons Following Neonatal Ventral Hippocampal Lesion. <i>Cerebral Cortex</i> , 2013, 23, 1198-1207.	2.9	20
44	A Rapid Pipeline to Model Rare Neurodevelopmental Disorders with Simultaneous CRISPR/Cas9 Gene Editing. <i>Stem Cells Translational Medicine</i> , 2017, 6, 886-896.	3.3	19
45	Developmental Hippocampal Neuroplasticity in a Model of Nicotine Replacement Therapy during Pregnancy and Breastfeeding. <i>PLoS ONE</i> , 2012, 7, e37219.	2.5	18
46	Simultaneous Monitoring of Presynaptic Transmitter Release and Postsynaptic Receptor Trafficking Reveals an Enhancement of Presynaptic Activity in Metabotropic Glutamate Receptor-Mediated Long-Term Depression. <i>Journal of Neuroscience</i> , 2013, 33, 5867-5877.	3.6	18
47	Preventing synaptic deficits in Alzheimer's disease by inhibiting tumor necrosis factor alpha signaling. <i>IBRO Reports</i> , 2018, 4, 18-21.	0.3	18
48	Early Development of Parvalbumin-, Somatostatin-, and Cholecystokinin-Expressing Neurons in Rat Brain following Prenatal Immune Activation and Maternal Iron Deficiency. <i>Developmental Neuroscience</i> , 2016, 38, 342-353.	2.0	17
49	Impaired Adrenergic-Mediated Plasticity of Prefrontal Cortical Glutamate Synapses in Rats with Developmental Disruption of the Ventral Hippocampus. <i>Neuropsychopharmacology</i> , 2014, 39, 2963-2973.	5.4	16
50	Brain region- and sex-specific alterations in mitochondrial function and NF- κ B signaling in the TgCRND8 mouse model of Alzheimer's disease. <i>Neuroscience</i> , 2017, 361, 81-92.	2.3	16
51	Primary Blast-Induced Changes in Akt and GSK3 β Phosphorylation in Rat Hippocampus. <i>Frontiers in Neurology</i> , 2017, 8, 413.	2.4	15
52	p97 regulates GluA1 homomeric AMPA receptor formation and plasma membrane expression. <i>Nature Communications</i> , 2019, 10, 4089.	12.8	13
53	Neurodevelopmental insights into circuit dysconnectivity in schizophrenia. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 104, 110047.	4.8	11
54	The hippocampus in stress susceptibility and resilience: Reviewing molecular and functional markers. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2022, 119, 110601.	4.8	10

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55	Generalization of Conditioned Auditory Fear is Regulated by Maternal Effects on Ventral Hippocampal Synaptic Plasticity. <i>Neuropsychopharmacology</i> , 2018, 43, 1297-1307.	5.4	7
56	Pharmacological interrogation of TrkA-mediated mechanisms in hippocampal-dependent memory consolidation. <i>PLoS ONE</i> , 2019, 14, e0218036.	2.5	7
57	Prenatal immune activation potentiates endocannabinoid-related plasticity of inhibitory synapses in the hippocampus of adolescent rat offspring. <i>European Neuropsychopharmacology</i> , 2018, 28, 1405-1417.	0.7	5
58	Opposing Changes in Synaptic and Extrasynaptic N-Methyl-D-Aspartate Receptor Function in Response to Acute and Chronic Restraint Stress. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 716675.	2.9	5
59	Interference Peptides: A Novel Therapeutic Approach Targeting Synaptic Plasticity in Drug Addiction. , 2006, , 473-484.		3
60	Altered excitatory and decreased inhibitory transmission in the prefrontal cortex of male mice with early developmental disruption to the ventral hippocampus. <i>Cerebral Cortex</i> , 2022, , .	2.9	0