Lee-Wei Lim

List of Publications by Year
in descending order

108	3,304	218677	302126
papers	citations	26 h-index	39 g-index

113	113	113	4647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transplantation of ACE2- Mesenchymal Stem Cells Improves the Outcome of Patients with COVID-19 Pneumonia. , 2020, 11, 216.		921
2	Electrical stimulation alleviates depressive-like behaviors of rats: investigation of brain targets and potential mechanisms. Translational Psychiatry, 2015, 5, e535-e535.	4.8	97
3	Deep brain stimulation of the forniceal area enhances memory functions in experimental dementia: The role of stimulation parameters. Brain Stimulation, 2013, 6, 72-77.	1.6	91
4	Mesenchymal stem cell treatment improves outcome of COVID-19 patients via multiple immunomodulatory mechanisms. Cell Research, 2021, 31, 1244-1262.	12.0	81
5	Low-frequency hippocampalâ€“cortical activity drives brain-wide resting-state functional MRI connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6972-E6981.	7.1	80
6	Therapeutic Potential of Hericium erinaceus for Depressive Disorder. International Journal of Molecular Sciences, 2020, 21, 163.	4.1	69
7	Deep brain stimulation in dementia-related disorders. Neuroscience and Biobehavioral Reviews, 2013, 37, 2666-2675.	6.1	65
8	Relationships between Mitochondrial Dysfunction and Neurotransmission Failure in Alzheimerâ€™s Disease. , 2020, 11, 1291.		64
9	Deep brain stimulation of the nucleus accumbens shell increases impulsive behavior and tissue levels of dopamine and serotonin. Experimental Neurology, 2010, 225, 302-309.	4.1	63
10	Experimental Deep Brain Stimulation in Animal Models. Neurosurgery, 2010, 67, 1073-1080.	1.1	61
11	Deep brain stimulation of the nucleus accumbens core and shell: Opposite effects on impulsive action. Experimental Neurology, 2008, 214, 135-139.	4.1	59
12	Ventromedial prefrontal cortex stimulation enhances memory and hippocampal neurogenesis in the middle-aged rats. ELife, 2015, 4, .	6.0	59
13	Neurostimulatory and ablative treatment options in major depressive disorder: a systematic review. Acta Neurochirurgica, 2010, 152, 565-577.	1.7	50
14	An Overview of Protocols for the Neural Induction of Dental and Oral Stem CellsIn Vitro. Tissue Engineering - Part B: Reviews, 2016, 22, 220-250.	4.8	49
15	Exploring ER stress response in cellular aging and neuroinflammation in Alzheimer's disease. Ageing Research Reviews, 2021, 70, 101417.	10.9	43
16	Chronic mild stress paradigm as a rat model of depression: facts, artifacts, and future perspectives. Psychopharmacology, 2022, 239, 663-693.	3.1	42
17	Glial cells in Alzheimerâ€™s disease: From neuropathological changes to therapeutic implications. Ageing Research Reviews, 2022, 78, 101622.	10.9	39
18	Hyperdopaminergic Status in Experimental Huntington Disease. Journal of Neuropathology and Experimental Neurology, 2010, 69, 910-917.	1.7	38

#	Article	IF	Citations
19	Cerebellar nuclei are involved in impulsive behaviour. Behavioural Brain Research, 2009, 203, 256-263.	2.2	34
20	High frequency stimulation of the subthalamic nucleus increases c-fos immunoreactivity in the dorsal raphe nucleus and afferent brain regions. Journal of Psychiatric Research, 2011, 45, 1307-1315.	3.1	34
21	High-frequency stimulation of the dorsolateral periaqueductal gray and ventromedial hypothalamus fails to inhibit panic-like behaviour. Behavioural Brain Research, 2008, 193, 197-203.	2.2	33
22	Increased electrical and metabolic activity in the dorsal raphe nucleus of Parkinsonian rats. Brain Research, 2008, 1221, 93-97.	2.2	32
23	Motor and non-motor behaviour in experimental Huntington's disease. Behavioural Brain Research, 2012, 226, 435-439.	2.2	32
24	Dopamine depletion effects on cognitive flexibility as modulated by tDCS of the dlPFC. Brain Stimulation, 2020, 13, 105-108.	1.6	32
25	TGF-Î²/Smad Signalling in Neurogenesis: Implications for Neuropsychiatric Diseases. Cells, 2021, 10, 1382.	4.1	32
26	Neuromodulation in Psychiatric Disorders. International Review of Neurobiology, 2012, 107, 283-314.	2.0	30
27	Exploring the multifunctional role of melatonin in regulating autophagy and sleep to mitigate Alzheimerâ€™s disease neuropathology. Ageing Research Reviews, 2021, 67, 101304.	10.9	30
28	Rodent Models of Amyloid-Beta Feature of Alzheimerâ€™s Disease: Development and Potential Treatment Implications. , 2020, 11, 1235.		30
29	Neural Differentiation of Human Pluripotent Stem Cells for Nontherapeutic Applications: Toxicology, Pharmacology, andIn VitroDisease Modeling. Stem Cells International, 2015, 2015, 1-11.	2.5	28
30	Behavioral effects of deep brain stimulation of different areas of the Papez circuit on memory- and anxiety-related functions. Behavioural Brain Research, 2015, 292, 353-360.	2.2	28
31	The antidepressant effects of ventromedial prefrontal cortex stimulation is associated with neural activation in the medial part of the subthalamic nucleus. Behavioural Brain Research, 2015, 279, 17-21.	2.2	28
32	DNA methylation in the pathology of Alzheimer's disease: from gene to cognition. Annals of the New York Academy of Sciences, 2020, 1475, 15-33.	3.8	28
33	Regulation of Melatonin and Neurotransmission in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 6841.	4.1	27
34	Cognitive and limbic effects of deep brain stimulation in preclinical studies. Frontiers in Bioscience - Landmark, 2009, Volume, 1891.	3.0	26
35	Neuroprotective effects of Hericium erinaceus (Bull.: Fr.) Pers. against high-dose corticosterone-induced oxidative stress in PC-12 cells. BMC Complementary Medicine and Therapies, 2020, 20, 340.	2.7	26
36	Therapeutic potential of neurogenesis and melatonin regulation in Alzheimer's disease. Annals of the New York Academy of Sciences, 2020, 1478, 43-62.	3.8	25

#	Article	IF	Citations
37	Effect of Buspirone on the Behavioral Regulation of Rats in Low versus High Anxiety Conditions. Arzneimittelforschung, 2008, 58, 269-276.	0.4	24
38	Increased plasma corticosterone levels after periaqueductal gray stimulation-induced escape reaction or panic attacks in rats. Behavioural Brain Research, 2011, 218, 301-307.	2.2	24
39	Small molecules enhance neurogenic differentiation of dental-derived adult stem cells. Archives of Oral Biology, 2019, 102, 26-38.	1.8	24
40	New insights on brainâ€derived neurotrophic factor epigenetics: from depression to memory extinction. Annals of the New York Academy of Sciences, 2021, 1484, 9-31.	3.8	24
41	Infection of male rats with Toxoplasma gondii results in enhanced delay aversion and neural changes in the nucleus accumbens core. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150042.	2.6	22
42	Role of melatonin in Alzheimerâ€™s disease: From preclinical studies to novel melatonin-based therapies. Frontiers in Neuroendocrinology, 2022, 65, 100986.	5.2	22
43	Neurogenesis-dependent antidepressant-like activity of Hericium erinaceus in an animal model of depression. Chinese Medicine, 2021, 16, 132.	4.0	22
44	Fos immunoreactivity in the rat forebrain induced by electrical stimulation of the dorsolateral periaqueductal gray matter. Journal of Chemical Neuroanatomy, 2009, 38, 83-96.	2.1	21
45	Acute serotonergic treatment changes the relation between anxiety and HPA-axis functioning and periaqueductal gray activation. Behavioural Brain Research, 2014, 273, 155-165.	2.2	21
46	Periaqueductal Grey Stimulation Induced Panic-Like Behaviour Is Accompanied by Deactivation of the Deep Cerebellar Nuclei. Cerebellum, 2011, 10, 61-69.	2.5	20
47	Antioxidant-mediated protective role of Hericium erinaceus (Bull.: Fr.) Pers. against oxidative damage in fibroblasts from Friedreichâ€™s ataxia patient. Food Science and Technology, 2020, 40, 264-272.	1.7	20
48	Buspirone induced acute and chronic changes of neural activation in the periaqueductal gray of rats. Neuroscience, 2008, 155, 164-173.	2.3	19
49	Attenuation of fear-like response by escitalopram treatment after electrical stimulation of the midbrain dorsolateral periaqueductal gray. Experimental Neurology, 2010, 226, 293-300.	4.1	19
50	Electrical Stimulation Normalizes c-Fos Expression in the Deep Cerebellar Nuclei of Depressive-like Rats: Implication of Antidepressant Activity. Cerebellum, 2017, 16, 398-410.	2.5	18
51	Catecholaminergic modulation of indices of cognitive flexibility: AÂpharmaco-tDCS study. Brain Stimulation, 2019, 12, 290-295.	1.6	17
52	Eternal sunshine of the neuromodulated mind: Altering fear memories through neuromodulation. Experimental Neurology, 2019, 314, 9-19.	4.1	17
53	Dysregulation of the orexinergic system: A potential neuropeptide target in depression. Neuroscience and Biobehavioral Reviews, 2020, 118, 384-396.	6.1	17
54	Hericium erinaceus potentially rescues behavioural motor deficits through ERK-CREB-PSD95 neuroprotective mechanisms in rat model of 3-acetylpyridine-induced cerebellar ataxia. Scientific Reports, 2020, 10, 14945.	3.3	17

#	Article	IF	Citations
55	Therapeutic Potential of Human Stem Cell Implantation in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 10151.	4.1	17
56	High-frequency stimulation of the ventrolateral thalamus regulates gene expression in hippocampus, motor cortex and caudateâ€“putamen. Brain Research, 2011, 1391, 1-13.	2.2	16
57	Memory and neuromodulation: A perspective of DNA methylation. Neuroscience and Biobehavioral Reviews, 2020, 111, 57-68.	6.1	15
58	Conditional N-WASP knockout in mouse brain implicates actin cytoskeleton regulation in hydrocephalus pathology. Experimental Neurology, 2014, 254, 29-40.	4.1	14
59	Tetratricopeptide repeat domain 9A modulates anxiety-like behavior in female mice. Scientific Reports, 2016, 6, 37568.	3.3	14
60	Decellularized Matrix Derived from Neural Differentiation of Embryonic Stem Cells Enhances the Neurogenic Potential of Dental Follicle Stem Cells. Journal of Endodontics, 2017, 43, 409-416.	3.1	14
61	The Paradoxical Effect of Deep Brain Stimulation on Memory. , 2020, 11, 179.		14
62	Buspirone-induced changes in the serotonergic and non-serotonergic cells in the dorsal raphe nucleus of rats. Neuroscience Letters, 2010, 473, 136-140.	2.1	13
63	Deactivation of the parvalbumin-positive interneurons in the hippocampus after fear-like behaviour following electrical stimulation of the dorsolateral periaqueductal gray of rats. Behavioural Brain Research, 2012, 233, 322-325.	2.2	13
64	Distribution of neuronal nitric oxide synthase immunoreactivity in adult male Sprague-Dawley rat brain. Acta Histochemica, 2019, 121, 151437.	1.8	13
65	Neurosurgical Treatments of Depression. Current Topics in Behavioral Neurosciences, 2012, 14, 327-339.	1.7	12
66	Therapeutic roles of natural remedies in combating hereditary ataxia: A systematic review. Chinese Medicine, 2021, 16, 15.	4.0	12
67	A Decade of Progress in Deep Brain Stimulation of the Subcallosal Cingulate for the Treatment of Depression. Journal of Clinical Medicine, 2020, 9, 3260.	2.4	11
68	Antidepressant-like effects of transcorneal electrical stimulation in rat models. Brain Stimulation, 2022, 15, 843-856.	1.6	11
69	Electrical Brain Stimulation in Depression: Which Target(s)?. Biological Psychiatry, 2011, 69, e5-e6.	1.3	10
70	Close communication between the subependymal serotonergic plexus and the neurogenic subventricular zone. Journal of Chemical Neuroanatomy, 2011, 42, 297-303.	2.1	10
71	Prelimbic Cortical Stimulation Improves Spatial Memory Through Distinct Patterns of Hippocampal Gene Expression in Aged Rats. Neurotherapeutics, 2020, 17, 2054-2068.	4.4	10
72	Interdisciplinary Research in Alzheimerâ€™s Disease and the Roles International Societies Can Play. , 2021, 12, 36.		10

#	Article	IF	Citations
73	Discovering the Potential of Natural Antioxidants in Age-Related Macular Degeneration: A Review. Pharmaceuticals, 2022, 15, 101.	3.8	10
74	ASD-like behaviors, a dysregulated inflammatory response and decreased expression of PLP1 characterize mice deficient for sialyltransferase ST3GAL5. Brain, Behavior, & Immunity - Health, 2021, 16, 100306.	2.5	9
75	Enriched Environment Facilitates Anxiolytic Efficacy Driven by Deep-Brain Stimulation of Medial Prefrontal Cortex. Frontiers in Behavioral Neuroscience, 2018, 12, 204.	2.0	8
76	A practical approach to the ethical use of memory modulating technologies. BMC Medical Ethics, 2020, 21, 89.	2.4	8
77	Prelimbic cortical stimulation disrupts fear memory consolidation through ventral hippocampal dopamine D 2 receptors. British Journal of Pharmacology, 2021, 178, 3587-3601.	5.4	8
78	Therapeutic Potential of Complementary and Alternative Medicines in Peripheral Nerve Regeneration: A Systematic Review. Cells, 2021, 10, 2194.	4.1	8
79	Neuroprotective Effects and Therapeutic Potential of Transcorneal Electrical Stimulation for Depression. Cells, 2021, 10, 2492.	4.1	8
80	Altered synaptic plasticity of the longitudinal dentate gyrus network in noise-induced anxiety. IScience, 2022, 25, 104364.	4.1	8
81	Transcorneal electrical stimulation enhances cognitive functions in aged and 5XFAD mouse models. Annals of the New York Academy of Sciences, 2022, 1515, 249-265.	3.8	8
82	Neuromodulation and hippocampal neurogenesis in depression: A scoping review. Brain Research Bulletin, 2022, 188, 92-107.	3.0	8
83	Pluripotent Human embryonic stem cell derived neural lineages for in vitro modelling of enterovirus 71 infectionÂand therapy. Virology Journal, 2016, 13, 5.	3.4	7
84	GABA Supplementation Negatively Affects Cognitive Flexibility Independent of Tyrosine. Journal of Clinical Medicine, 2021, 10, 1807.	2.4	7
85	Discovering the Potentials of Medicinal Mushrooms in Combating Depression â€“ A Review. Mini-Reviews in Medicinal Chemistry, 2020, 20, 1518-1531.	2.4	7
86	EphrinB2 signalling modulates the neural differentiation of human dental pulp stem cells. Biomedical Reports, 2018, 9, 161-168.	2.0	6
87	Human Embryonic Stem Cell-Derived Neural Lineages as In Vitro Models for Screening the Neuroprotective Properties of Lignosus rhinocerus (Cooke) Ryvarden. BioMed Research International, 2019, 2019, 1-19.	1.9	6
88	Tyrosine negatively affects flexible-like behaviour under cognitively demanding conditions. Journal of Affective Disorders, 2020, 260, 329-333.	4.1	6
89	Dropout in Neural Networks Simulates the Paradoxical Effects of Deep Brain Stimulation on Memory. Frontiers in Aging Neuroscience, 2020, 12, 273.	3.4	6
90	Behavioural responses of anxiety in aversive and non-aversive conditions between young and aged Sprague-Dawley rats. Behavioural Brain Research, 2020, 385, 112559.	2.2	6

#	Article	IF	Citations
91	Eyeblink rate, a putative dopamine marker, predicts negative reinforcement learning by tDCS of the dlPFC. Brain Stimulation, 2022, 15, 533-535.	1.6	6
92	Discovery of Therapeutics Targeting Oxidative Stress in Autosomal Recessive Cerebellar Ataxia: A Systematic Review. Pharmaceuticals, 2022, 15, 764.	3.8	6
93	Germinal Matrix Hemorrhage of Prematurity: Treatment Approaches and Outcomes in a Single Institutional Review in the Ukraine. Pediatric Neurosurgery, 2009, 45, 132-140.	0.7	5
94	TTC9A deficiency induces estradiol-mediated changes in hippocampus and amygdala neuroplasticity-related gene expressions in female mice. Brain Research Bulletin, 2020, 157, 162-168.	3.0	5
95	Serotonergic treatment normalizes midbrain dopaminergic neuron increase after periaqueductal gray stimulation. Brain Structure and Function, 2020, 225, 1957-1966.	2.3	4
96	Functional Roles of Neuronal Nitric Oxide Synthase in Neurodegenerative Diseases and Mood Disorders. Current Alzheimer Research, 2021, 18, .	1.4	4
97	Sex-Specific ADHD-like Behaviour, Altered Metabolic Functions, and Altered EEG Activity in Sialyltransferase ST3GAL5-Deficient Mice. Biomolecules, 2021, 11, 1759.	4.0	4
98	Predation Stress Causes Excessive Aggression in Female Mice with Partial Genetic Inactivation of Tryptophan Hydroxylase-2: Evidence for Altered Myelination-Related Processes. Cells, 2022, 11, 1036.	4.1	4
99	Marine algae as emerging therapeutic alternatives for depression: A review. Iranian Journal of Basic Medical Sciences, 2021, 24, 997-1013.	1.0	4
100	Development of a tool to accurately predict UK REF funding allocation. Scientometrics, 2021, 126, 8049-8062.	3.0	3
101	A Brief Comparative Look at Experimental Memory Editing Techniques for Cognitive Dysfunction. Current Alzheimer Research, 2021, 18, 841-848.	1.4	3
102	Iatrogenic Traumatic Brain Injury. Journal of Craniofacial Surgery, 2007, 18, 674-679.	0.7	2
103	The Periaqueductal Gray: From Longitudinal columns to defensive behaviour. Journal of Experimental and Clinical Medicine (Turkey), 2009, 26, 01-26.	0.2	2
104	c-Fos expression in the deep cerebellar nuclei in a rat model of conditioned fear. Journal of Experimental and Clinical Medicine (Turkey), 2012, 29, 201-207.	0.2	2
105	An existentialist approach to authentic science. IBRO Neuroscience Reports, 2021, 11, 52-55.	1.6	1
106	Basal Ganglia and Behaviour: Behavioural Effects of Deep Brain Stimulation in Experimental Neurological and Psychiatric Disorders. Advances in Behavioral Biology, 2009, , 471-482.	0.2	1
107	How have COVIDâ€19 stringency measures changed scholarly activity?. Annals of the New York Academy of Sciences, 2022, , .	3.8	1
108	High frequency stimulation of the ventrolateral and mediodorsal thalamic nuclei: differential effects on impulsive action. Journal of Experimental and Clinical Medicine (Turkey), 2009, 26, 27-34.	0.2	0