

# L Stan Leung

## List of Publications by Year in descending order

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122  
papers

4,091  
citations

109321

35  
h-index

144013

57  
g-index

122  
all docs

122  
docs citations

122  
times ranked

3830  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of Theta and Gamma Rhythms in the Hippocampus. <i>Neuroscience and Biobehavioral Reviews</i> , 1998, 22, 275-290.	6.1	144
2	Functional Networks in the Anesthetized Rat Brain Revealed by Independent Component Analysis of Resting-State fMRI. <i>Journal of Neurophysiology</i> , 2010, 103, 3398-3406.	1.8	143
3	Theta-Frequency Resonance in Hippocampal CA1 Neurons In Vitro Demonstrated by Sinusoidal Current Injection. <i>Journal of Neurophysiology</i> , 1998, 79, 1592-1596.	1.8	141
4	Selective Theta-Synchronization of Choice-Relevant Information Subserves Goal-Directed Behavior. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 210.	2.0	136
5	Resting-state networks in the macaque at 7T. <i>NeuroImage</i> , 2011, 56, 1546-1555.	4.2	131
6	Behavior-dependent evoked potentials in the hippocampal CA1 region of the rat. I. Correlation with behavior and egg. <i>Brain Research</i> , 1980, 198, 95-117.	2.2	127
7	Cholinergic Activity Enhances Hippocampal Long-Term Potentiation in CA1 during Walking in Rats. <i>Journal of Neuroscience</i> , 2003, 23, 9297-9304.	3.6	109
8	The Septohippocampal System Participates in General Anesthesia. <i>Journal of Neuroscience</i> , 2002, 22, RC200-RC200.	3.6	103
9	Brain areas that influence general anesthesia. <i>Progress in Neurobiology</i> , 2014, 122, 24-44.	5.7	102
10	Behavior-dependent evoked potentials in the hippocampal CA1 region of the rat. II. Effect of eserine, atropine, ether and pentobarbital. <i>Brain Research</i> , 1980, 198, 119-133.	2.2	97
11	Rhythmic delta-frequency activities in the nucleus accumbens of anesthetized and freely moving rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 1993, 71, 311-320.	1.4	86
12	Basal Forebrain Histaminergic Transmission Modulates Electroencephalographic Activity and Emergence from Isoflurane Anesthesia. <i>Anesthesiology</i> , 2009, 111, 725-733.	2.5	84
13	Fast (beta) rhythms in the hippocampus: A review. <i>Hippocampus</i> , 1992, 2, 93-98.	1.9	82
14	Factors affecting paired-pulse facilitation in hippocampal CA1 neurons in vitro. <i>Brain Research</i> , 1994, 650, 75-84.	2.2	79
15	The supramammillo-septal hippocampal pathway mediates sensorimotor gating impairment and hyperlocomotion induced by MK-801 and ketamine in rats. <i>Psychopharmacology</i> , 2007, 191, 961-974.	3.1	79
16	Apical and Basal Orthodromic Population Spikes in Hippocampal CA1 In Vivo Show Different Origins and Patterns of Propagation. <i>Journal of Neurophysiology</i> , 2001, 86, 2435-2444.	1.8	75
17	Partial Hippocampal Kindling Decreases Efficacy of Presynaptic GABA <sub>B</sub> Autoreceptors in CA1. <i>Journal of Neuroscience</i> , 1997, 17, 9261-9269.	3.6	67
18	Hippocampal Melatonin Receptors Modulate Seizure Threshold. <i>Epilepsia</i> , 2005, 46, 473-480.	5.1	66

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19	Glutamatergic synaptic transmission participates in generating the hippocampal EEG. <i>Hippocampus</i> , 2004, 14, 510-525.	1.9	64
20	Effects of hippocampal kindling on paired-pulse response in CA1 in vitro. <i>Brain Research</i> , 1991, 564, 220-229.	2.2	60
21	GABAB receptor blockade enhances theta and gamma rhythms in the hippocampus of behaving rats. <i>Hippocampus</i> , 2007, 17, 281-291.	1.9	57
22	Involvement of Tuberomamillary Histaminergic Neurons in Isoflurane Anesthesia. <i>Anesthesiology</i> , 2011, 115, 36-43.	2.5	57
23	Hippocampal CA1 evoked response and radial 8-arm maze performance after hippocampal kindling. <i>Brain Research</i> , 1991, 555, 353-357.	2.2	54
24	Long-lasting effects of partial hippocampal kindling on hippocampal physiology and function. <i>Hippocampus</i> , 1994, 4, 696-704.	1.9	53
25	Increased dendritic excitability in hippocampal ca1 in vivo in the kainic acid model of temporal lobe epilepsy: a study using current source density analysis. <i>Neuroscience</i> , 2003, 116, 599-616.	2.3	47
26	Cholinergic modulation of hippocampal CA1 basal-dendritic long-term potentiation. <i>Neurobiology of Learning and Memory</i> , 2008, 90, 382-388.	1.9	46
27	Limbic System Participates in Mediating the Effects of General Anesthetics. <i>Neuropsychopharmacology</i> , 2006, 31, 1177-1192.	5.4	44
28	Hyperthermia induces age-dependent changes in rat hippocampal excitability. <i>Annals of Neurology</i> , 2002, 52, 318-326.	5.3	43
29	Hippocampal Afterdischarges after GABAB-Receptor Blockade in the Freely Moving Rat. <i>Epilepsia</i> , 2005, 46, 203-216.	5.1	41
30	Activation of immobility-related hippocampal theta by cholinergic septohippocampal neurons during vestibular stimulation. <i>Hippocampus</i> , 2012, 22, 914-925.	1.9	41
31	Schizophrenia-like behavioral changes after partial hippocampal kindling. <i>Brain Research</i> , 2004, 997, 111-118.	2.2	40
32	Hippocampal kindling induced paired-pulse depression in the dentate gyrus and paired-pulse facilitation in CA3. <i>Brain Research</i> , 1992, 582, 163-167.	2.2	39
33	The medial septum mediates impairment of prepulse inhibition of acoustic startle induced by a hippocampal seizure or phencyclidine. <i>Behavioural Brain Research</i> , 2004, 155, 153-166.	2.2	39
34	Deep brain stimulation of the medial septum or nucleus accumbens alleviates psychosis-relevant behavior in ketamine-treated rats. <i>Behavioural Brain Research</i> , 2014, 266, 174-182.	2.2	39
35	Hippocampal theta rhythm in behaving rats following ibotenic acid lesion of the septum. <i>Hippocampus</i> , 1994, 4, 136-147.	1.9	37
36	Physiology of the Entorhinal and Perirhinal Projections to the Hippocampus Studied by Current Source Density Analysis. <i>Annals of the New York Academy of Sciences</i> , 2000, 911, 55-72.	3.8	37

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37	Sodium-activated potassium conductance participates in the depolarizing afterpotential following a single action potential in rat hippocampal CA1 pyramidal cells. <i>Brain Research</i> , 2004, 1023, 185-192.	2.2	36
38	Decrease of Hippocampal GABAB Receptor-Mediated Inhibition after Hyperthermia-induced Seizures in Immature Rats. <i>Epilepsia</i> , 2006, 47, 277-287.	5.1	36
39	Hippocampal CA1 kindling but not long-term potentiation disrupts spatial memory performance. <i>Learning and Memory</i> , 2006, 13, 18-26.	1.3	35
40	Lateral entorhinal, perirhinal, and amygdala-entorhinal transition projections to hippocampal CA1 and dentate gyrus in the rat: A current source density study. , 1998, 7, 643-655.		34
41	Metabotropic glutamate receptors in the hippocampus and nucleus accumbens are involved in generating seizure-induced hippocampal gamma waves and behavioral hyperactivity. <i>Behavioural Brain Research</i> , 2002, 133, 45-56.	2.2	34
42	Kindling suppresses primed-burst-induced long-term potentiation in hippocampal CA1. <i>NeuroReport</i> , 2003, 14, 211-214.	1.2	34
43	Lesion of cholinergic neurons in nucleus basalis enhances response to general anesthetics. <i>Experimental Neurology</i> , 2011, 228, 259-269.	4.1	34
44	Regulation of Cognitive Processing by Hippocampal Cholinergic Tone. <i>Cerebral Cortex</i> , 2017, 27, bhv349.	2.9	34
45	Resting state functional network disruptions in a kainic acid model of temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2017, 13, 70-81.	2.7	33
46	N-methyl-D-aspartate receptor antagonists are less effective in blocking long-term potentiation at apical than basal dendrites in hippocampal CA1 of awake rats. , 1999, 9, 617-630.		32
47	Cholinergic Modulation Differs between Basal and Apical Dendritic Excitation of Hippocampal CA1 Pyramidal Cells. <i>Cerebral Cortex</i> , 2010, 20, 1865-1877.	2.9	32
48	Partial hippocampal kindling affects retention but not acquisition and place but not cue tasks on the radial arm maze.. <i>Behavioral Neuroscience</i> , 1996, 110, 1017-1024.	1.2	31
49	Linear aspects of transformation from interictal epileptic discharges to BOLD fMRI signals in an animal model of occipital epilepsy. <i>NeuroImage</i> , 2006, 30, 1133-1148.	4.2	30
50	Hyperthermia decreases GABAergic synaptic transmission in hippocampal neurons of immature rats. <i>Neurobiology of Disease</i> , 2007, 27, 320-327.	4.4	30
51	Lateral entorhinal, perirhinal, and amygdala-entorhinal transition projections to hippocampal CA1 and dentate gyrus in the rat: A current source density study. <i>Hippocampus</i> , 1997, 7, 643-655.	1.9	29
52	Functional interconnections between CA3 and the dentate gyrus revealed by current source density analysis. <i>Hippocampus</i> , 1998, 8, 217-230.	1.9	28
53	Recording and marking with silicon multichannel electrodes. <i>Brain Research Protocols</i> , 2002, 9, 122-129.	1.6	28
54	GABAB receptors inhibit backpropagating dendritic spikes in hippocampal CA1 pyramidal cells in vivo. <i>Hippocampus</i> , 2006, 16, 388-407.	1.9	28

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55	Real-time display of artifact-free electroencephalography during functional magnetic resonance imaging and magnetic resonance spectroscopy in an animal model of epilepsy. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 456-464.	3.0	27
56	Paired-pulse depression of excitatory postsynaptic current sinks in hippocampal CA1 in vivo. <i>Hippocampus</i> , 2008, 18, 1008-1020.	1.9	27
57	Mechanisms of hyperthermia-induced depression of GABAergic synaptic transmission in the immature rat hippocampus. <i>Journal of Neurochemistry</i> , 2008, 106, 2158-2169.	3.9	27
58	Hippocampal CA1 region "demonstration of antidromic dendritic spike and dendritic inhibition. <i>Brain Research</i> , 1978, 158, 219-222.	2.2	26
59	Pathogenesis of Mesial Temporal Sclerosis. <i>Canadian Journal of Neurological Sciences</i> , 1993, 20, 184-193.	0.5	26
60	Seizures induced by GABAB-receptor blockade in early-life induced long-term GABAB receptor hypofunction and kindling facilitation. <i>Epilepsy Research</i> , 2008, 79, 187-200.	1.6	26
61	Kindled seizure in the prefrontal cortex activated behavioral hyperactivity and increase in accumbens gamma oscillations through the hippocampus. <i>Behavioural Brain Research</i> , 2010, 206, 68-77.	2.2	25
62	GABAB receptor blockade in the hippocampus affects sensory and sensorimotor gating in Long-Evans rats. <i>Psychopharmacology</i> , 2011, 217, 167-176.	3.1	24
63	Medial septal lesion enhances general anesthesia response. <i>Experimental Neurology</i> , 2013, 247, 419-428.	4.1	24
64	Presynaptic GABAB receptors on glutamatergic terminals of CA1 pyramidal cells decrease in efficacy after partial hippocampal kindling. <i>Synapse</i> , 2006, 59, 125-134.	1.2	23
65	Medial Septal Cholinergic Neurons Modulate Isoflurane Anesthesia. <i>Anesthesiology</i> , 2014, 120, 392-402.	2.5	23
66	Endogenous Histamine Facilitates Long-Term Potentiation in the Hippocampus during Walking. <i>Journal of Neuroscience</i> , 2010, 30, 7845-7852.	3.6	22
67	A Model of Intracellular Theta Phase Precession Dependent on Intrinsic Subthreshold Membrane Currents. <i>Journal of Neuroscience</i> , 2011, 31, 12282-12296.	3.6	22
68	Septohippocampal GABAergic neurons mediate the altered behaviors induced by N-methyl-D-aspartate receptor antagonists. <i>Hippocampus</i> , 2012, 22, 2208-2218.	1.9	22
69	The hippocampus participates in a pharmacological rat model of absence seizures. <i>Epilepsy Research</i> , 2016, 120, 79-90.	1.6	22
70	The effects of a single neonatally induced convulsion on spatial navigation, locomotor activity and convulsion susceptibility in the adult rat. <i>Brain Research</i> , 1996, 706, 155-159.	2.2	21
71	Ketamine-induced deficit of auditory gating in the hippocampus of rats is alleviated by medial septal inactivation and antipsychotic drugs. <i>Psychopharmacology</i> , 2009, 206, 457-467.	3.1	21
72	Medial septum modulates hippocampal gamma activity and prepulse inhibition in an N-methyl-d-aspartate receptor antagonist model of schizophrenia. <i>Schizophrenia Research</i> , 2018, 198, 36-44.	2.0	21

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73	Difference in LTP at basal and apical dendrites of CA1 pyramidal neurons in urethane-anesthetized rats. <i>Brain Research</i> , 1995, 694, 40-48.	2.2	19
74	Partial hippocampal kindling increases GABAB receptor-mediated postsynaptic currents in CA1 pyramidal cells. <i>Epilepsy Research</i> , 2003, 57, 33-47.	1.6	19
75	Physiological monitoring of small animals during magnetic resonance imaging. <i>Journal of Neuroscience Methods</i> , 2005, 144, 207-213.	2.5	18
76	Effects of temperature elevation on neuronal inhibition in hippocampal neurons of immature and mature rats. <i>Journal of Neuroscience Research</i> , 2009, 87, 2773-2785.	2.9	18
77	Ciproxifan, an H3 receptor antagonist, improves short-term recognition memory impaired by isoflurane anesthesia. <i>Journal of Anesthesia</i> , 2016, 30, 684-690.	1.7	16
78	Hippocampal long-term potentiation is enhanced in urethane-anesthetized RGS2 knockout mice. <i>Hippocampus</i> , 2009, 19, 687-691.	1.9	14
79	Effects of memantine on hippocampal long-term potentiation, gamma activity, and sensorimotor gating in freely moving rats. <i>Neurobiology of Aging</i> , 2015, 36, 2544-2554.	3.1	14
80	Dual Effects of Limbic Seizures on Psychosis-Relevant Behaviors Shown by Nucleus Accumbens Kindling in Rats. <i>Brain Stimulation</i> , 2016, 9, 762-769.	1.6	14
81	Long-term potentiation of the nucleus reuniens and entorhinal cortex to CA1 distal dendritic synapses in mice. <i>Brain Structure and Function</i> , 2020, 225, 1817-1838.	2.3	14
82	Hippocampal partial kindling decreased hippocampal GABAB receptor efficacy and wet dog shakes in rats. <i>Behavioural Brain Research</i> , 2006, 173, 274-281.	2.2	13
83	Forebrain Acetylcholine Modulates Isoflurane and Ketamine Anesthesia in Adult Mice. <i>Anesthesiology</i> , 2021, 134, 588-606.	2.5	13
84	Associative spike timing-dependent potentiation of the basal dendritic excitatory synapses in the hippocampus in vivo. <i>Journal of Neurophysiology</i> , 2016, 115, 3264-3274.	1.8	12
85	Long-Term Potentiation and Excitability in the Hippocampus Are Modulated Differently by $\delta$ Rhythm. <i>ENeuro</i> , 2018, 5, ENEURO.0236-18.2018.	1.9	12
86	Behavioral depression induced by an amygdala seizure and the opioid fentanyl was mediated through the nucleus accumbens. <i>Epilepsia</i> , 2009, 50, 1953-1961.	5.1	11
87	Nucleus accumbens $\delta$ opioid receptors mediate immediate postictal decrease in locomotion after an amygdaloid kindled seizure in rats. <i>Epilepsy and Behavior</i> , 2010, 17, 165-171.	1.7	11
88	Vestibular stimulation enhances hippocampal long-term potentiation via activation of cholinergic septohippocampal cells. <i>Behavioural Brain Research</i> , 2012, 232, 174-182.	2.2	11
89	Long-lasting auditory gating deficit accompanied by GABAB receptor dysfunction in the hippocampus after early-life limbic seizures in rats. <i>Physiology and Behavior</i> , 2012, 106, 534-541.	2.1	9
90	Functional connectivity of the hippocampus to the thalamocortical circuitry in an animal model of absence seizures. <i>Epilepsy Research</i> , 2017, 137, 19-24.	1.6	9

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91	Involvement of posterior cingulate cortex in ketamine-induced psychosis relevant behaviors in rats. <i>Behavioural Brain Research</i> , 2018, 338, 17-27.	2.2	9
92	Cholinergic Modulation of General Anesthesia. <i>Current Neuropharmacology</i> , 2021, 19, 1925-1936.	2.9	9
93	Phasic modulation of hippocampal synaptic plasticity by theta rhythm.. <i>Behavioral Neuroscience</i> , 2020, 134, 595-612.	1.2	9
94	Current source density analysis does not reveal a direct projection from the perirhinal cortex to septal part of hippocampal CA1 or dentate gyrus. , 1999, 9, 599-600.		8
95	Seizures in the developing brain result in a long-lasting decrease in GABAB inhibitory postsynaptic currents in the rat hippocampus. <i>Neurobiology of Disease</i> , 2010, 37, 704-710.	4.4	8
96	Disruption of Hippocampal Multisynaptic Networks by General Anesthetics. <i>Anesthesiology</i> , 2017, 127, 838-851.	2.5	8
97	Effects of GABA-B receptor positive modulator on ketamine-induced psychosis-relevant behaviors and hippocampal electrical activity in freely moving rats. <i>Psychopharmacology</i> , 2017, 234, 3129-3142.	3.1	7
98	Inactivation of ATRX in forebrain excitatory neurons affects hippocampal synaptic plasticity. <i>Hippocampus</i> , 2020, 30, 565-581.	1.9	7
99	Long-Lasting Behavioral and Electrophysiological Effects Induced by Partial Hippocampal Kindling. <i>Advances in Behavioral Biology</i> , 1998, , 395-408.	0.2	7
100	Kindling in the posterior cingulate cortex: electrographic and behavioral characteristics. <i>Electroencephalography and Clinical Neurophysiology</i> , 1990, 76, 177-186.	0.3	6
101	Effect of atropine and PCPA on the behavioral modulation of paired-pulse response in the hippocampal CA1 region. <i>Brain Research</i> , 1992, 576, 339-342.	2.2	6
102	Recurrent inhibition model of hippocampal CA1 in vivo. <i>Trends in Neurosciences</i> , 1996, 19, 468-469.	8.6	6
103	A gliotoxin model of occipital seizures in rats. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2008, 17, 483-489.	2.0	6
104	Pilocarpine model of temporal lobe epilepsy shows enhanced response to general anesthetics. <i>Experimental Neurology</i> , 2009, 219, 308-318.	4.1	6
105	Effects of hippocampal partial kindling on sensory and sensorimotor gating and methamphetamine-induced locomotion in kindling-prone and kindling-resistant rats. <i>Epilepsy and Behavior</i> , 2016, 58, 119-126.	1.7	6
106	Loss of dendritic inhibition in the hippocampus after repeated early-life hyperthermic seizures in rats. <i>Epilepsy Research</i> , 2013, 103, 62-72.	1.6	5
107	The neurotoxins colchicine and kainic acid block odor-induced fast waves and olfactory-evoked potentials in the dentate gyrus of the behaving rat. <i>Brain Research</i> , 1995, 690, 157-166.	2.2	4
108	Long-lasting disruption of spatial memory by GABAB receptor antagonist induced seizures. <i>Epilepsy and Behavior</i> , 2019, 96, 1-5.	1.7	4

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109	Epilepsy-based changes in hippocampal excitability: causes and effects. <i>Advances in Neurology</i> , 2006, 97, 63-8.	0.8	4
110	Positive allosteric modulator of GABAB receptor alters behavioral effects but not afterdischarge progression induced by partial hippocampal kindling. <i>Neuropharmacology</i> , 2016, 110, 154-164.	4.1	3
111	Aberrant slow waves in the hippocampus during activation in mice with low cholinergic tone. <i>Hippocampus</i> , 2021, 31, 1233-1253.	1.9	3
112	Glial potentials evoked by single afferent pulses in hippocampal CA1 area in vitro. <i>Brain Research</i> , 1995, 697, 262-265.	2.2	2
113	Reply to Liu and Bilkey's reply. <i>Hippocampus</i> , 1999, 9, 603-604.	1.9	2
114	Hippocampal Kindling and GABAB Receptor Functions. , 2005, , 81-90.		2
115	Field Potential Generation and Current Source Density Analysis. <i>NeuroMethods</i> , 2011, , 1-25.	0.3	2
116	Long-lasting changes in hippocampal GABAB-receptor mediated inhibition following early-life seizures in kindling-prone but not kindling-resistant rats. <i>Brain Research Bulletin</i> , 2019, 150, 231-239.	3.0	2
117	Medial Septum Modulates Consciousness and Psychosis-Related Behaviors Through Hippocampal Gamma Activity. <i>Frontiers in Neural Circuits</i> , 0, 16, .	2.8	2
118	Differential long-term depression in CA3 but not in dentate gyrus following low-frequency stimulation of the medial perforant path. <i>Synapse</i> , 2011, 65, 677-686.	1.2	1
119	Ketamine Mediates Psychosis through the Medial Septum, Hippocampus, and Nucleus Accumbens. , 2016, , 661-671.		1
120	Generalized seizures evoked by nucleus accumbens stimulation induced an opiate-mediated suppression of psychosis relevant behaviors. <i>Behavioural Brain Research</i> , 2019, 356, 365-370.	2.2	1
121	Dopamine in the ventral tegmental area facilitates emergence from general anesthesia. <i>Annals of Translational Medicine</i> , 2017, 5, 86-86.	1.7	1
122	Kindling, long-term potentiation and spatial memory performance. <i>Canadian Journal of Neurological Sciences</i> , 2009, 36 Suppl 2, S36-8.	0.5	1