

John Larson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

5,710

citations

33

h-index

63

g-index

63

ext. papers

6,202

ext. citations

5.2

avg, IF

5.29

L-index

#	Paper	IF	Citations
62	Intracellular injections of EGTA block induction of hippocampal long-term potentiation. <i>Nature</i> , 1983 , 305, 719-21	50.4	963
61	Patterned stimulation at the theta frequency is optimal for the induction of hippocampal long-term potentiation. <i>Brain Research</i> , 1986 , 368, 347-50	3.7	943
60	Fructose-driven glycolysis supports anoxia resistance in the naked mole-rat. <i>Science</i> , 2017 , 356, 307-311	33.3	361
59	Alterations in synaptic transmission and long-term potentiation in hippocampal slices from young and aged PDAPP mice. <i>Brain Research</i> , 1999 , 840, 23-35	3.7	232
58	Dicer and eIF2c are enriched at postsynaptic densities in adult mouse brain and are modified by neuronal activity in a calpain-dependent manner. <i>Journal of Neurochemistry</i> , 2005 , 94, 896-905	6	225
57	Role of N-methyl-D-aspartate receptors in the induction of synaptic potentiation by burst stimulation patterned after the hippocampal theta-rhythm. <i>Brain Research</i> , 1988 , 441, 111-8	3.7	221
56	Expression of microRNAs and their precursors in synaptic fractions of adult mouse forebrain. <i>Journal of Neurochemistry</i> , 2008 , 106, 650-61	6	212
55	Complex environment experience rescues impaired neurogenesis, enhances synaptic plasticity, and attenuates neuropathology in familial Alzheimer's disease-linked APP ^{swe} /PS1 ^{DeltaE9} mice. <i>FASEB Journal</i> , 2010 , 24, 1667-81	0.9	136
54	Reversal of LTP by theta frequency stimulation. <i>Brain Research</i> , 1993 , 600, 97-102	3.7	130
53	Theta-burst LTP. <i>Brain Research</i> , 2015 , 1621, 38-50	3.7	126
52	Stimulation of NMDA receptors induces proteolysis of spectrin in hippocampus. <i>Brain Research</i> , 1988 , 460, 189-94	3.7	123
51	Age-dependent and selective impairment of long-term potentiation in the anterior piriform cortex of mice lacking the fragile X mental retardation protein. <i>Journal of Neuroscience</i> , 2005 , 25, 9460-9	6.6	111
50	Long-term potentiation of monosynaptic EPSPs in rat piriform cortex in vitro. <i>Synapse</i> , 1990 , 6, 279-83	2.4	107
49	Extreme hypoxia tolerance of naked mole-rat brain. <i>NeuroReport</i> , 2009 , 20, 1634-7	1.7	104
48	Theta pattern stimulation and the induction of LTP: the sequence in which synapses are stimulated determines the degree to which they potentiate. <i>Brain Research</i> , 1989 , 489, 49-58	3.7	104
47	Impaired hippocampal long-term potentiation in melatonin MT2 receptor-deficient mice. <i>Neuroscience Letters</i> , 2006 , 393, 23-6	3.3	99
46	No oxygen? No problem! Intrinsic brain tolerance to hypoxia in vertebrates. <i>Journal of Experimental Biology</i> , 2014 , 217, 1024-39	3	98

45	The nature and causes of hippocampal long-term potentiation. <i>Progress in Brain Research</i> , 1990 , 83, 233-50		91
44	Development of hippocampal long-term potentiation is reduced by recently introduced calpain inhibitors. <i>Brain Research</i> , 1990 , 530, 91-5	3.7	91
43	Mossy fiber potentiation and long-term potentiation involve different expression mechanisms. <i>Synapse</i> , 1990 , 5, 333-5	2.4	90
42	Anoxia reveals a vulnerable period in the development of long-term potentiation. <i>Brain Research</i> , 1990 , 511, 353-7	3.7	84
41	Long-term potentiation: persisting problems and recent results. <i>Brain Research Bulletin</i> , 1988 , 21, 363-73.9		74
40	Lesions of entorhinal cortex produce a calpain-mediated degradation of brain spectrin in dentate gyrus. I. Biochemical studies. <i>Brain Research</i> , 1988 , 459, 226-32	3.7	71
39	Olfactory discrimination learning deficit in heterozygous reeler mice. <i>Brain Research</i> , 2003 , 971, 40-6	3.7	66
38	Endogenous siRNAs and noncoding RNA-derived small RNAs are expressed in adult mouse hippocampus and are up-regulated in olfactory discrimination training. <i>Rna</i> , 2011 , 17, 166-81	5.8	54
37	Blunted neuronal calcium response to hypoxia in naked mole-rat hippocampus. <i>PLoS ONE</i> , 2012 , 7, e31568		51
36	Short-latency single unit processing in olfactory cortex. <i>Journal of Cognitive Neuroscience</i> , 1991 , 3, 293-93.1		48
35	Impaired olfactory discrimination learning and decreased olfactory sensitivity in aged C57Bl/6 mice. <i>Neurobiology of Aging</i> , 2009 , 30, 829-37	5.6	45
34	Protracted brain development in a rodent model of extreme longevity. <i>Scientific Reports</i> , 2015 , 5, 115924.9		41
33	Activation of NMDA receptors stimulates extracellular proteolysis of cell adhesion molecules in hippocampus. <i>Brain Research</i> , 1998 , 811, 152-5	3.7	41
32	Effects of an AMPA receptor modulator on methamphetamine-induced hyperactivity in rats. <i>Brain Research</i> , 1996 , 738, 353-6	3.7	41
31	Adult naked mole-rat brain retains the NMDA receptor subunit GluN2D associated with hypoxia tolerance in neonatal mammals. <i>Neuroscience Letters</i> , 2012 , 506, 342-5	3.3	39
30	Translational suppression of a glutamate receptor subunit impairs long-term potentiation. <i>Synapse</i> , 1992 , 12, 333-7	2.4	39
29	Primary microRNA precursor transcripts are localized at post-synaptic densities in adult mouse forebrain. <i>Journal of Neurochemistry</i> , 2012 , 123, 459-66	6	33
28	Effects of cyclothiazide on synaptic responses in slices of adult and neonatal rat hippocampus. <i>NeuroReport</i> , 1994 , 5, 389-92	1.7	33

27	The NMDA receptor-mediated components of responses evoked by patterned stimulation are not increased by long-term potentiation. <i>Brain Research</i> , 1989 , 477, 396-9	3.7	32
26	Olfactory discrimination training up-regulates and reorganizes expression of microRNAs in adult mouse hippocampus. <i>ASN Neuro</i> , 2010 , 2, e00028	5.3	28
25	LTP changes the waveform of synaptic responses. <i>Synapse</i> , 1991 , 9, 314-6	2.4	28
24	Waveform analysis suggests that LTP alters the kinetics of synaptic receptor channels. <i>Brain Research</i> , 1993 , 620, 237-44	3.7	28
23	A multifunctional therapeutic approach to disease modification in multiple familial mouse models and a novel sporadic model of Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2016 , 11, 35	19	22
22	Synaptic NMDA receptor-mediated currents in anterior piriform cortex are reduced in the adult fragile X mouse. <i>Neuroscience</i> , 2012 , 221, 170-81	3.9	20
21	Immunocytochemical localization of reelin in the olfactory bulb of the heterozygous reeler mouse: an animal model for schizophrenia. <i>Neurological Research</i> , 2003 , 25, 819-30	2.7	20
20	Mitochondrial small RNAs that are up-regulated in hippocampus during olfactory discrimination training in mice. <i>Mitochondrion</i> , 2011 , 11, 994-5	4.9	18
19	Comparison of the effects of an ampakine with those of methamphetamine on aggregate neuronal activity in cortex versus striatum. <i>Molecular Brain Research</i> , 1997 , 46, 127-35		18
18	Olfactory discrimination learning in mice lacking the fragile X mental retardation protein. <i>Neurobiology of Learning and Memory</i> , 2008 , 90, 90-102	3.1	18
17	Further characteristics of long-term potentiation in piriform cortex. <i>Synapse</i> , 1994 , 18, 298-306	2.4	18
16	Automated study of simultaneous-cue olfactory discrimination learning in adult mice. <i>Behavioral Neuroscience</i> , 2002 , 116, 588-599	2.1	16
15	Impaired survival of neural progenitor cells in dentate gyrus of adult mice lacking FMRP. <i>Hippocampus</i> , 2012 , 22, 1220-4	3.5	15
14	Evidence that changes in spine neck resistance are not responsible for expression of LTP. <i>Synapse</i> , 1991 , 7, 216-20	2.4	14
13	A test of the spine resistance hypothesis for LTP expression. <i>Brain Research</i> , 1991 , 538, 347-50	3.7	14
12	Evidence for loss of synaptic AMPA receptors in anterior piriform cortex of aged mice. <i>Frontiers in Aging Neuroscience</i> , 2013 , 5, 39	5.3	12
11	Synaptic transmission despite severe hypoxia in hippocampal slices of the deep-diving hooded seal. <i>Neuroscience</i> , 2016 , 334, 39-46	3.9	11
10	The naked truth: a comprehensive clarification and classification of current myths in naked mole-rat biology. <i>Biological Reviews</i> , 2021 ,	13.5	11

9	African Naked Mole-Rats Demonstrate Extreme Tolerance to Hypoxia and Hypercapnia. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1319, 255-269	3.6	10
8	Automated study of simultaneous-cue olfactory discrimination learning in adult mice. <i>Behavioral Neuroscience</i> , 2002 , 116, 588-99	2.1	8
7	New perspectives on the physiology, chemistry, and pharmacology of memory. <i>Drug Development Research</i> , 1987 , 10, 295-315	5.1	7
6	Peripheral administration of a serine protease inhibitor blocks kindling. <i>Brain Research</i> , 2000 , 861, 178-80.	3.7	6
5	An NO donor approach to neuroprotective and procognitive estrogen therapy overcomes loss of NO synthase function and potentially thrombotic risk. <i>PLoS ONE</i> , 2013 , 8, e70740	3.7	5
4	Some Possible Functions of Simple Cortical Networks Suggested by Computer Modeling 1989 , 329-362		2
3	Extracellular ATP-Induced Alterations in Extracellular H Fluxes From Cultured Cortical and Hippocampal Astrocytes. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 640217	6.1	1
2	Synaptic and Network Contributions to Anoxic Depolarization in Mouse Hippocampal Slices. <i>Neuroscience</i> , 2021 , 461, 102-117	3.9	1
1	Some Possible Functions of Simple Cortical Networks Suggested by Computer Modeling 1989 , 329-362		