

# John Larson

## List of Publications by Year in descending order

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62  
papers

6,592  
citations

109137

35  
h-index

128067

60  
g-index

63  
all docs

63  
docs citations

63  
times ranked

5782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracellular injections of EGTA block induction of hippocampal long-term potentiation. <i>Nature</i> , 1983, 305, 719-721.	13.7	1,060
2	Patterned stimulation at the theta frequency is optimal for the induction of hippocampal long-term potentiation. <i>Brain Research</i> , 1986, 368, 347-350.	1.1	1,045
3	Fructose-driven glycolysis supports anoxia resistance in the naked mole-rat. <i>Science</i> , 2017, 356, 307-311.	6.0	503
4	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.	1.1	251
5	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.	2.1	250
6	Expression of microRNAs and their precursors in synaptic fractions of adult mouse forebrain. <i>Journal of Neurochemistry</i> , 2008, 106, 650-661.	2.1	241
7	Role of N-methyl-D-aspartate receptors in the induction of synaptic potentiation by burst stimulation patterned after the hippocampal $\bar{I}$ -rhythm. <i>Brain Research</i> , 1988, 441, 111-118.	1.1	237
8	Theta-burst LTP. <i>Brain Research</i> , 2015, 1621, 38-50.	1.1	203
9	Complex environment experience rescues impaired neurogenesis, enhances synaptic plasticity, and attenuates neuropathology in familial Alzheimer's disease-linked APP <sup>swE</sup> /PS1 <sup>E9</sup> mice. <i>FASEB Journal</i> , 2010, 24, 1667-1681.	0.2	162
10	Stimulation of NMDA receptors induces proteolysis of spectrin in hippocampus. <i>Brain Research</i> , 1988, 460, 189-194.	1.1	143
11	Reversal of LTP by theta frequency stimulation. <i>Brain Research</i> , 1993, 600, 97-102.	1.1	137
12	Extreme hypoxia tolerance of naked mole-rat brain. <i>NeuroReport</i> , 2009, 20, 1634-1637.	0.6	129
13	No oxygen? No problem! Intrinsic brain tolerance to hypoxia in vertebrates. <i>Journal of Experimental Biology</i> , 2014, 217, 1024-1039.	0.8	128
14	Long-term potentiation of monosynaptic EPSPs in rat piriform cortex in vitro. <i>Synapse</i> , 1990, 6, 279-283.	0.6	120
15	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.	1.1	119
16	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, 9460-9469.	1.7	119
17	Chapter 17 Chapter The nature and causes of hippocampal long-term potentiation. <i>Progress in Brain Research</i> , 1990, 83, 233-250.	0.9	111
18	Impaired hippocampal long-term potentiation in melatonin MT2 receptor-deficient mice. <i>Neuroscience Letters</i> , 2006, 393, 23-26.	1.0	108

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19	Development of hippocampal long-term potentiation is reduced by recently introduced calpain inhibitors. <i>Brain Research</i> , 1990, 530, 91-95.	1.1	93
20	Mossy fiber potentiation and long-term potentiation involve different expression mechanisms. <i>Synapse</i> , 1990, 5, 333-335.	0.6	92
21	Anoxia reveals a vulnerable period in the development of long-term potentiation. <i>Brain Research</i> , 1990, 511, 353-357.	1.1	90
22	Long-term potentiation: Persisting problems and recent results. <i>Brain Research Bulletin</i> , 1988, 21, 363-372.	1.4	81
23	Lesions of entorhinal cortex produce a calpain-mediated degradation of brain spectrin in dentate gyrus. I. Biochemical studies. <i>Brain Research</i> , 1988, 459, 226-232.	1.1	73
24	Olfactory discrimination learning deficit in heterozygous reeler mice. <i>Brain Research</i> , 2003, 971, 40-46.	1.1	67
25	The naked truth: a comprehensive clarification and classification of current "myths" in naked mole-rat biology. <i>Biological Reviews</i> , 2022, 97, 115-140.	4.7	62
26	Blunted Neuronal Calcium Response to Hypoxia in Naked Mole-Rat Hippocampus. <i>PLoS ONE</i> , 2012, 7, e31568.	1.1	61
27	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, 166-181.	1.6	59
28	Impaired olfactory discrimination learning and decreased olfactory sensitivity in aged C57Bl/6 mice. <i>Neurobiology of Aging</i> , 2009, 30, 829-837.	1.5	51
29	Adult naked mole-rat brain retains the NMDA receptor subunit GluN2D associated with hypoxia tolerance in neonatal mammals. <i>Neuroscience Letters</i> , 2012, 506, 342-345.	1.0	50
30	Short-Latency Single Unit Processing in Olfactory Cortex. <i>Journal of Cognitive Neuroscience</i> , 1991, 3, 293-299.	1.1	49
31	Protracted brain development in a rodent model of extreme longevity. <i>Scientific Reports</i> , 2015, 5, 11592.	1.6	48
32	Translational suppression of a glutamate receptor subunit impairs long-term potentiation. <i>Synapse</i> , 1992, 12, 333-337.	0.6	44
33	Activation of NMDA receptors stimulates extracellular proteolysis of cell adhesion molecules in hippocampus. <i>Brain Research</i> , 1998, 811, 152-155.	1.1	43
34	Effects of an AMPA receptor modulator on methamphetamine-induced hyperactivity in rats. <i>Brain Research</i> , 1996, 738, 353-356.	1.1	41
35	Primary microRNA precursor transcripts are localized at postsynaptic densities in adult mouse forebrain. <i>Journal of Neurochemistry</i> , 2012, 123, 459-466.	2.1	40
36	The NMDA receptor-mediated components of responses evoked by patterned stimulation are not increased by long-term potentiation. <i>Brain Research</i> , 1989, 477, 396-399.	1.1	34

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37	Olfactory Discrimination Training Up-Regulates and Reorganizes Expression of MicroRNAs in Adult Mouse Hippocampus. <i>ASN Neuro</i> , 2010, 2, AN20090055.	1.5	34
38	Effects of cyclothiazide on synaptic responses in slices of adult and neonatal rat hippocampus. <i>NeuroReport</i> , 1994, 5, 389-392.	0.6	33
39	LTP changes the waveform of synaptic responses. <i>Synapse</i> , 1991, 9, 314-316.	0.6	29
40	Waveform analysis suggests that LTP alters the kinetics of synaptic receptor channels. <i>Brain Research</i> , 1993, 620, 237-244.	1.1	29
41	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.	4.4	27
42	Synaptic NMDA receptor-mediated currents in anterior piriform cortex are reduced in the adult fragile X mouse. <i>Neuroscience</i> , 2012, 221, 170-181.	1.1	25
43	African Naked Mole-Rats Demonstrate Extreme Tolerance to Hypoxia and Hypercapnia. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1319, 255-269.	0.8	25
44	Olfactory discrimination learning in mice lacking the fragile X mental retardation protein. <i>Neurobiology of Learning and Memory</i> , 2008, 90, 90-102.	1.0	23
45	Immunocytochemical localization of reelin in the olfactory bulb of the heterozygous reeler mouse: An animal model for schizophrenia. <i>Neurological Research</i> , 2003, 25, 819-830.	0.6	22
46	Mitochondrial small RNAs that are up-regulated in hippocampus during olfactory discrimination training in mice. <i>Mitochondrion</i> , 2011, 11, 994-995.	1.6	21
47	Further characteristics of long-term potentiation in piriform cortex. <i>Synapse</i> , 1994, 18, 298-306.	0.6	20
48	Evidence for loss of synaptic AMPA receptors in anterior piriform cortex of aged mice. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 39.	1.7	20
49	Impaired survival of neural progenitor cells in dentate gyrus of adult mice lacking FMRP. <i>Hippocampus</i> , 2012, 22, 1220-1224.	0.9	19
50	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, 127-135.	2.5	18
51	Automated study of simultaneous-cue olfactory discrimination learning in adult mice. <i>Behavioral Neuroscience</i> , 2002, 116, 588-599.	0.6	18
52	A test of the spine resistance hypothesis for LTP expression. <i>Brain Research</i> , 1991, 538, 347-350.	1.1	16
53	Synaptic transmission despite severe hypoxia in hippocampal slices of the deep-diving hooded seal. <i>Neuroscience</i> , 2016, 334, 39-46.	1.1	15
54	Evidence that changes in spine neck resistance are not responsible for expression of LTP. <i>Synapse</i> , 1991, 7, 216-220.	0.6	14

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55	New perspectives on the physiology, chemistry, and pharmacology of memory. Drug Development Research, 1987, 10, 295-315.	1.4	8
56	Automated study of simultaneous-cue olfactory discrimination learning in adult mice. Behavioral Neuroscience, 2002, 116, 588-99.	0.6	8
57	Peripheral administration of a serine protease inhibitor blocks kindling. Brain Research, 2000, 861, 178-180.	1.1	7
58	An NO Donor Approach to Neuroprotective and Procognitive Estrogen Therapy Overcomes Loss of NO Synthase Function and Potentially Thrombotic Risk. PLoS ONE, 2013, 8, e70740.	1.1	5
59	Extracellular ATP-Induced Alterations in Extracellular H <sup>+</sup> Fluxes From Cultured Cortical and Hippocampal Astrocytes. Frontiers in Cellular Neuroscience, 2021, 15, 640217.	1.8	5
60	Synaptic and Network Contributions to Anoxic Depolarization in Mouse Hippocampal Slices. Neuroscience, 2021, 461, 102-117.	1.1	5
61	Some Possible Functions of Simple Cortical Networks Suggested by Computer Modeling. , 1989, , 329-362.		2
62	Some Possible Functions of Simple Cortical Networks Suggested by Computer Modeling. , 1989, , 329-362.		0