Lorna W Role

List of Publications by Year
in descending order

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95 papers	12,888 citations	43973 48 h-index	40881 93 g-index
99 all docs	99 docs citations	99 times ranked	9096 citing authors

#	Article	IF	Citations
1	Acetylcholine is released in the basolateral amygdala in response to predictors of reward and enhances the learning of cue-reward contingency. ELife, 2020, 9, .	2.8	55
2	Mecp2Deletion from Cholinergic Neurons Selectively Impairs Recognition Memory and Disrupts Cholinergic Modulation of the Perirhinal Cortex. ENeuro, 2019, 6, ENEURO.0134-19.2019.	0.9	14
3	Specific Basal Forebrainâ€“Cortical Cholinergic Circuits Coordinate Cognitive Operations. Journal of Neuroscience, 2018, 38, 9446-9458.	1.7	139
4	A genetically encoded fluorescent acetylcholine indicator for in vitro and in vivo studies. Nature Biotechnology, 2018, 36, 726-737.	9.4	292
5	Electrophysiological properties of basal forebrain cholinergic neurons identified by genetic and optogenetic tagging. Journal of Neurochemistry, 2017, 142, 103-110.	2.1	18
6	Axonal Type III Nrg1 Controls Glutamate Synapse Formation and GluA2 Trafficking in Hippocampal-Accumbens Connections. ENeuro, 2017, 4, ENEURO.0232-16.2017.	0.9	10
7	Cholinergic Signaling Controls Conditioned Fear Behaviors and Enhances Plasticity of Cortical-Amygdala Circuits. Neuron, 2016, 90, 1057-1070.	3.8	173
8	Basal Forebrain Cholinergic Circuits and Signaling in Cognition and Cognitive Decline. Neuron, 2016, 91, 1199-1218.	3.8	523
9	Live Imaging of Nicotine Induced Calcium Signaling and Neurotransmitter Release Along Ventral Hippocampal Axons. Journal of Visualized Experiments, 2015, , e52730.	0.2	5
10	Illuminating the role of cholinergic signaling in circuits of attention and emotionally salient behaviors. Frontiers in Synaptic Neuroscience, 2014, 6, 24.	1.3	62
11	Optogenetic studies of nicotinic contributions to cholinergic signaling in the central nervous system. Reviews in the Neurosciences, 2014, 25, 755-71.	1.4	12
12	Increased stability of microtubules in cultured olfactory neuroepithelial cells from individuals with schizophrenia. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2014, 48, 252-258.	2.5	29
13	Presynaptic Nicotinic Acetylcholine Receptors and the Modulation of Circuit Excitability. Receptors, 2014, , 137-167.	0.2	0
14	Type III Neuregulin 1 Is Required for Multiple Forms of Excitatory Synaptic Plasticity of Mouse Cortico-Amygdala Circuits. Journal of Neuroscience, 2013, 33, 9655-9666.	1.7	38
15	Overnight Fasting Regulates Inhibitory Tone to Cholinergic Neurons of the Dorsomedial Nucleus of the Hypothalamus. PLoS ONE, 2013, 8, e60828.	1.1	13
16	Nicotine Elicits Prolonged Calcium Signaling along Ventral Hippocampal Axons. PLoS ONE, 2013, 8, e82719.	1.1	48
17	Age-related neuronal loss in the cochlea is not delayed by synaptic modulation. Neurobiology of Aging, 2011, 32, 2321.e13-2321.e23.	1.5	16
18	Type III Nrg1 Back Signaling Enhances Functional TRPV1 along Sensory Axons Contributing to Basal and Inflammatory Thermal Pain Sensation. PLoS ONE, 2011, 6, e25108.	1.1	12

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19	Disrupted Activity in the Hippocampalâ€“Accumbens Circuit of Type III Neuregulin 1 Mutant Mice. Neuropsychopharmacology, 2011, 36, 488-496.	2.8	23
20	Type III neuregulin 1 regulates pathfinding of sensory axons in the developing spinal cord and periphery. Development (Cambridge), 2011, 138, 4887-4898.	1.2	24
21	Intramembranous Valine Linked to Schizophrenia Is Required for Neuregulin 1 Regulation of the Morphological Development of Cortical Neurons. Journal of Neuroscience, 2010, 30, 9199-9208.	1.7	64
22	Nicotinic modulation of synaptic transmission and plasticity in cortico-limbic circuits. Seminars in Cell and Developmental Biology, 2009, 20, 432-440.	2.3	106
23	Presynaptic Type III Neuregulin1-ErbB signaling targets Î±7 nicotinic acetylcholine receptors to axons. Journal of Cell Biology, 2008, 181, 511-521.	2.3	57
24	Type III Neuregulin-1 Is Required for Normal Sensorimotor Gating, Memory-Related Behaviors, and Corticostriatal Circuit Components. Journal of Neuroscience, 2008, 28, 6872-6883.	1.7	183
25	Presynaptic Type III Neuregulin 1 Is Required for Sustained Enhancement of Hippocampal Transmission by Nicotine and for Axonal Targeting of Î±7 Nicotinic Acetylcholine Receptors. Journal of Neuroscience, 2008, 28, 9111-9116.	1.7	66
26	Facilitation of Corticoâ€“Amygdala Synapses by Nicotine: Activity-Dependent Modulation of Glutamatergic Transmission. Journal of Neurophysiology, 2008, 99, 1988-1999.	0.9	49
27	Presynaptic type III neuregulin1-ErbB signaling targetsÎ±7 nicotinic acetylcholine receptors to axons. Journal of General Physiology, 2008, 131, i4-i4.	0.9	7
28	Cholinergic Circuits and Signaling in the Pathophysiology of Schizophrenia. International Review of Neurobiology, 2007, 78, 193-223.	0.9	37
29	New order for thought disorders. Nature, 2007, 448, 263-265.	13.7	29
30	Tangential Neuronal Migration Controls Axon Guidance: A Role for Neuregulin-1 in Thalamocortical Axon Navigation. Cell, 2006, 125, 127-142.	13.5	338
31	Selective deletion of the Î±5 subunit differentially affects somatic-dendriticversusaxonally targeted nicotinic ACh receptors in mouse. Journal of Physiology, 2005, 563, 119-137.	1.3	29
32	Cholinergic Modulation of Appetite-Related Synapses in Mouse Lateral Hypothalamic Slice. Journal of Neuroscience, 2005, 25, 11133-11144.	1.7	47
33	Requirement of Nicotinic Acetylcholine Receptor Subunit Â2 in the Maintenance of Spiral Ganglion Neurons during Aging. Journal of Neuroscience, 2005, 25, 3041-3045.	1.7	50
34	Neuregulin-1 Type III Determines the Ensheathment Fate of Axons. Neuron, 2005, 47, 681-694.	3.8	634
35	Integration of Endocannabinoid and Leptin Signaling in an Appetite-Related Neural Circuit. Neuron, 2005, 48, 1055-1066.	3.8	211
36	Multiple personalities of neuregulin gene family members. Journal of Comparative Neurology, 2004, 472, 134-139.	0.9	19

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37	Axonal Neuregulin-1 Regulates Myelin Sheath Thickness. Science, 2004, 304, 700-703.	6.0	821
38	Mapping of presynaptic nicotinic acetylcholine receptors using fluorescence imaging of neuritic calcium. Journal of Neuroscience Methods, 2003, 122, 109-122.	1.3	7
39	Back signaling by the Nrg-1 intracellular domain. Journal of Cell Biology, 2003, 161, 1133-1141.	2.3	219
40	Coordinate Release of ATP and GABA at In VitroSynapses of Lateral Hypothalamic Neurons. Journal of Neuroscience, 2002, 22, 4794-4804.	1.7	132
41	Cholinergic Modulation of Purinergic and GABAergic Co-Transmission at In Vitro Hypothalamic Synapses. Journal of Neurophysiology, 2002, 88, 2501-2508.	0.9	42
42	Nicotinic receptor-mediated effects on appetite and food intake. Journal of Neurobiology, 2002, 53, 618-632.	3.7	284
43	Nicotine-Induced Enhancement of Glutamatergic and GABAergic Synaptic Transmission in the Mouse Amygdala. Journal of Neurophysiology, 2001, 86, 463-474.	0.9	77
44	Long-Lasting Enhancement of Glutamatergic Synaptic Transmission by Acetylcholine Contrasts with Response Adaptation after Exposure to Low-Level Nicotine. Journal of Neuroscience, 2001, 21, 5182-5190.	1.7	52
45	Differential Modulation of Nicotinic Acetylcholine Receptor Subtypes and Synaptic Transmission in Chick Sympathetic Ganglia by PGE2. Journal of Neurophysiology, 2001, 85, 2498-2508.	0.9	18
46	Cysteine-Rich Domain Isoforms of the Neuregulin-1 Gene Are Required for Maintenance of Peripheral Synapses. Neuron, 2000, 25, 79-91.	3.8	277
47	Facilitation of glutamatergic neurotransmission by presynaptic nicotinic acetylcholine receptors. Neuropharmacology, 2000, 39, 2715-2725.	2.0	113
48	Multiorgan Autonomic Dysfunction in Mice Lacking the Î²2 and the Î²4 Subunits of Neuronal Nicotinic Acetylcholine Receptors. Journal of Neuroscience, 1999, 19, 9298-9305.	1.7	263
49	Megacystis, mydriasis, and ion channel defect in mice lacking the Â3 neuronal nicotinic acetylcholine receptor. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5746-5751.	3.3	267
50	Heteromeric Complexes of alpha5 and/or alpha7 Subunits: Effects of Calcium and Potential Role in Nicotine-Induced Presynaptic Facilitation. Annals of the New York Academy of Sciences, 1999, 868, 578-590.	1.8	79
51	Target-specific control of nicotinic receptor expression at developing interneuronal synapses in chick. Nature Neuroscience, 1999, 2, 528-534.	7.1	26
52	lynx1, an Endogenous Toxin-like Modulator of Nicotinic Acetylcholine Receptors in the Mammalian CNS. Neuron, 1999, 23, 105-114.	3.8	285
53	PRESYNAPTIC IONOTROPIC RECEPTORS AND THE CONTROL OF TRANSMITTER RELEASE. Annual Review of Neuroscience, 1999, 22, 443-485.	5.0	521
54	Functional contribution of the Î±7 subunit to multiple subtypes of nicotinic receptors in embryonic chick sympathetic neurones. Journal of Physiology, 1998, 509, 651-665.	1.3	139

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55	Functional contribution of the Î±5 subunit to neuronal nicotinic channels expressed by chick sympathetic ganglion neurones. Journal of Physiology, 1998, 509, 667-681.	1.3	84
56	A Cysteine-Rich Isoform of Neuregulin Controls the Level of Expression of Neuronal Nicotinic Receptor Channels during Synaptogenesis. Neuron, 1998, 20, 255-270.	3.8	132
57	Neuronal nicotinic acetylcholine receptor modulation by general anesthetics. Toxicology Letters, 1998, 100-101, 149-153.	0.4	32
58	Modulation of Nicotinic AChR Channels by Prostaglandin E2 in Chick Sympathetic Ganglion Neurons. Journal of Neurophysiology, 1998, 79, 870-878.	0.9	20
59	Alpha4beta2 Neuronal Nicotinic Acetylcholine Receptors in the Central Nervous System Are Inhibited by Isoflurane and Propofol, but alpha7-type Nicotinic Acetylcholine Receptors Are UnaffectedÂ. Anesthesiology, 1997, 86, 859-865.	1.3	228
60	Presynaptic ionotropic receptors. Current Opinion in Neurobiology, 1996, 6, 342-349.	2.0	136
61	Nicotinic Receptors in the Development and Modulation of CNS Synapses. Neuron, 1996, 16, 1077-1085.	3.8	737
62	Functional contributions of Î±5 subunit to neuronal acetylcholine receptor channels. Nature, 1996, 380, 347-351.	13.7	365
63	Memories of nicotine. Nature, 1996, 383, 670-671.	13.7	33
64	Physiological Diversity of Nicotinic Acetylcholine Receptors Expressed by Vertebrate Neurons. Annual Review of Physiology, 1995, 57, 521-546.	5.6	931
65	Nicotine enhancement of fast excitatory synaptic transmission in CNS by presynaptic receptors. Science, 1995, 269, 1692-1696.	6.0	985
66	Substance P potentiates calcium channel modulation by somatostatin in chick sympathetic ganglia. Journal of Neurophysiology, 1994, 72, 2683-2690.	0.9	8
67	Diversity in Functional Properties and Primary Structure of Neuronal Nicotinic Receptor Channels. Kidney and Blood Pressure Research, 1994, 17, 172-177.	0.9	2
68	Developmental regulation of multiple nicotinic AChR channel subtypes in embryonic chick habenula neurons: contributions of both theÎ±2 andÎ±4 subunit genes. Pflugers Archiv European Journal of Physiology, 1994, 429, 27-43.	1.3	34
69	Regulation of nAChR Subunit Gene Expression Relative to the Development of Pre- and Postsynaptic Projections of Embryonic Chick Sympathetic Neurons. Developmental Biology, 1994, 162, 56-70.	0.9	39
70	Uptake of antisense oligonucleotides and functional block of acetylcholine receptor subunit gene expression in primary embryonic neurons. Genesis, 1993, 14, 296-304.	3.1	28
71	Peptide modulation of ACh receptor desensitization controls neurotransmitter release from chicken sympathetic neurons. Journal of Neurophysiology, 1993, 69, 928-942.	0.9	45
72	Protein kinase C blocks somatostatin-induced modulation of calcium current in chick sympathetic neurons. Journal of Neurophysiology, 1993, 70, 1639-1643.	0.9	25

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73	Enhanced ACh sensitivity is accompanied by changes in ACh receptor channel properties and segregation of ACh receptor subtypes on sympathetic neurons during innervation in vivo. Journal of Neuroscience, 1993, 13, 13-28.	1.7	45
74	Activation of phosphoinositide turnover and protein kinase C by neurotransmitters that modulate calcium channels in embryonic chick sensory neurons. International Journal of Developmental Neuroscience, 1992, 10, 421-433.	0.7	6
75	Diversity in primary structure and function of neuronal nicotinic acetylcholine receptor channels. Current Opinion in Neurobiology, 1992, 2, 254-262.	2.0	178
76	Developmental changes in transmitter sensitivity and synaptic transmission in embryonic chicken sympathetic neurons innervated in Vitro. Developmental Biology, 1991, 147, 83-95.	0.9	35
77	Functional contribution of neuronal AChR subunits revealed by antisense oligonucleotides. Science, 1991, 254, 1518-1521.	6.0	154
78	Development of synaptic transmission at autonomic synapsesin vitro revealed by cytochrome oxidase histochemistry. Journal of Neurobiology, 1990, 21, 578-591.	3.7	16
79	Substance P modulates single-channel properties of neuronal nicotinic acetylcholine receptors. Neuron, 1990, 4, 393-403.	3.8	58
80	Functional properties and developmental regulation of nicotinic acetylcholine receptors on embryonic chicken sympathetic neurons. Neuron, 1989, 3, 597-607.	3.8	65
81	Research in Neuroscience: Fidia Research Foundation Neuroscience Award Lectures.. Science, 1988, 241, 1238-1238.	6.0	0
82	Neural regulation of acetylcholine sensitivity in embryonic sympathetic neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 2825-2829.	3.3	38
83	Changes in the number of chick ciliary ganglion neuron processes with time in cell culture.. Journal of Cell Biology, 1987, 104, 363-370.	2.3	29
84	Developmental Regulation of Nicotinic Acetylcholine Receptors. Annual Review of Neuroscience, 1987, 10, 403-457.	5.0	353
85	Activators of protein kinase C enhance acetylcholine receptor desensitization in sympathetic ganglion neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 7739-7743.	3.3	95
86	The distribution of acetylcholine receptor clusters and sites of transmitter release along chick ciliary ganglion neurite-myotube contacts in culture.. Journal of Cell Biology, 1987, 104, 371-379.	2.3	34
87	On the mechanism of acetylcholine receptor accumulation at newly formed synapses on chick myotubes. Journal of Neuroscience, 1985, 5, 2197-2204.	1.7	112
88	Substance P modulation of acetylcholine-induced currents in embryonic chicken sympathetic and ciliary ganglion neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 2924-2928.	3.3	76
89	Acetylcholine release from growth cones detected with patches of acetylcholine receptor-rich membranes. Nature, 1983, 305, 632-634.	13.7	360
90	Both nicotinic and muscarinic receptors mediate catecholamine secretion by isolated guinea-pig chromaffin cells. Neuroscience, 1983, 10, 979-985.	1.1	63

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91	Catecholamine uptake into isolated adrenal chromaffin cells: Inhibition of uptake by acetylcholine. Neuroscience, 1983, 10, 987-996.	1.1	38
92	Somatostatin and substance P inhibit catecholamine secretion from isolated cells of guinea-pig adrenal medulla. Neuroscience, 1981, 6, 1813-1821.	1.1	112
93	Purification of adrenal medullary chromaffin cells by density gradient centrifugation. Journal of Neuroscience Methods, 1980, 2, 253-265.	1.3	51
94	Mechanisms of ionophore-induced catecholamine secretion. Journal of Pharmacology and Experimental Therapeutics, 1980, 213, 241-6.	1.3	31
95	Regional variations in calculated diastolic wall stress in rat left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 1978, 235, H247-H250.	1.5	6