

Larry S Zweifel

List of Publications by Year in descending order

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73
papers

6,960
citations

81900

39
h-index

85541

71
g-index

84
all docs

84
docs citations

84
times ranked

9268
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic identification of a neural circuit that suppresses appetite. <i>Nature</i> , 2013, 503, 111-114.	27.8	483
2	Role of NMDA Receptors in Dopamine Neurons for Plasticity and Addictive Behaviors. <i>Neuron</i> , 2008, 59, 486-496.	8.1	428
3	Anxiety Cells in a Hippocampal-Hypothalamic Circuit. <i>Neuron</i> , 2018, 97, 670-683.e6.	8.1	408
4	Functions and mechanisms of retrograde neurotrophin signalling. <i>Nature Reviews Neuroscience</i> , 2005, 6, 615-625.	10.2	371
5	Disruption of NMDAR-dependent burst firing by dopamine neurons provides selective assessment of phasic dopamine-dependent behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7281-7288.	7.1	360
6	Elucidating an Affective Pain Circuit that Creates a Threat Memory. <i>Cell</i> , 2015, 162, 363-374.	28.9	349
7	A Neurotrophin Signaling Cascade Coordinates Sympathetic Neuron Development through Differential Control of TrkA Trafficking and Retrograde Signaling. <i>Cell</i> , 2004, 118, 243-255.	28.9	342
8	Functional circuit architecture underlying parental behaviour. <i>Nature</i> , 2018, 556, 326-331.	27.8	290
9	Agouti-related peptide neural circuits mediate adaptive behaviors in the starved state. <i>Nature Neuroscience</i> , 2016, 19, 734-741.	14.8	223
10	Activation of dopamine neurons is critical for aversive conditioning and prevention of generalized anxiety. <i>Nature Neuroscience</i> , 2011, 14, 620-626.	14.8	210
11	Evidence in Support of Signaling Endosome-Based Retrograde Survival of Sympathetic Neurons. <i>Neuron</i> , 2003, 39, 57-68.	8.1	203
12	A Central Amygdala CRF Circuit Facilitates Learning about Weak Threats. <i>Neuron</i> , 2017, 93, 164-178.	8.1	159
13	Hotspots of missense mutation identify neurodevelopmental disorder genes and functional domains. <i>Nature Neuroscience</i> , 2017, 20, 1043-1051.	14.8	152
14	Kappa Opioid Receptor-Induced Aversion Requires p38 MAPK Activation in VTA Dopamine Neurons. <i>Journal of Neuroscience</i> , 2015, 35, 12917-12931.	3.6	147
15	The cAMP-Dependent Protein Kinase A Signal Transduction Pathway Modulates Ethanol Consumption and Sedative Effects of Ethanol. <i>Journal of Neuroscience</i> , 2001, 21, 5297-5303.	3.6	139
16	Recruitment of Actin Modifiers to TrkA Endosomes Governs Retrograde NGF Signaling and Survival. <i>Cell</i> , 2011, 146, 421-434.	28.9	133
17	Systematic Identification of Splice Variants in Human P/Q-Type Channel α_1 Subunits: Implications for Current Density and Ca^{2+} -Dependent Inactivation. <i>Journal of Neuroscience</i> , 2002, 22, 10142-10152.	3.6	131
18	A Mouse Model of Albright Hereditary Osteodystrophy Generated by Targeted Disruption of Exon 1 of the <i>Gnas</i> Gene. <i>Endocrinology</i> , 2005, 146, 4697-4709.	2.8	122

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19	Olfactory inputs modulate respiration-related rhythmic activity in the prefrontal cortex and freezing behavior. <i>Nature Communications</i> , 2018, 9, 1528.	12.8	121
20	Dentate granule cell recruitment of feedforward inhibition governs engram maintenance and remote memory generalization. <i>Nature Medicine</i> , 2018, 24, 438-449.	30.7	115
21	Direct Midbrain Dopamine Input to the Suprachiasmatic Nucleus Accelerates Circadian Entrainment. <i>Current Biology</i> , 2017, 27, 2465-2475.e3.	3.9	97
22	Divergent medial amygdala projections regulate approach-avoidance conflict behavior. <i>Nature Neuroscience</i> , 2019, 22, 565-575.	14.8	93
23	Dramatic enhancement of the detection limits of bioassays via ultrafast deposition of polydopamine. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	93
24	Synergy of Distinct Dopamine Projection Populations in Behavioral Reinforcement. <i>Neuron</i> , 2020, 105, 909-920.e5.	8.1	92
25	VTA Glutamate Neuron Activity Drives Positive Reinforcement Absent Dopamine Co-release. <i>Neuron</i> , 2020, 107, 864-873.e4.	8.1	85
26	Absence of NMDA receptors in dopamine neurons attenuates dopamine release but not conditioned approach during Pavlovian conditioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13491-13496.	7.1	77
27	Coronin-1 is a neurotrophin endosomal effector that is required for developmental competition for survival. <i>Nature Neuroscience</i> , 2014, 17, 36-45.	14.8	77
28	Ablation of Type III Adenylyl Cyclase in Mice Causes Reduced Neuronal Activity, Altered Sleep Pattern, and Depression-like Phenotypes. <i>Biological Psychiatry</i> , 2016, 80, 836-848.	1.3	70
29	Dopamine Neurons Reflect the Uncertainty in Fear Generalization. <i>Neuron</i> , 2018, 100, 916-925.e3.	8.1	70
30	Periaqueductal gray/dorsal raphe dopamine neurons contribute to sex differences in pain-related behaviors. <i>Neuron</i> , 2021, 109, 1365-1380.e5.	8.1	66
31	Dorsolateral septum somatostatin interneurons gate mobility to calibrate context-specific behavioral fear responses. <i>Nature Neuroscience</i> , 2019, 22, 436-446.	14.8	63
32	Intercalated amygdala clusters orchestrate a switch in fear state. <i>Nature</i> , 2021, 594, 403-407.	27.8	61
33	Disruption of Dopamine Neuron Activity Pattern Regulation through Selective Expression of a Human KCNN3 Mutation. <i>Neuron</i> , 2013, 80, 997-1009.	8.1	60
34	Dopamine D1 Receptor-Positive Neurons in the Lateral Nucleus of the Cerebellum Contribute to Cognitive Behavior. <i>Biological Psychiatry</i> , 2018, 84, 401-412.	1.3	60
35	Balanced NMDA receptor activity in dopamine D1 receptor (D1R)- and D2R-expressing medium spiny neurons is required for amphetamine sensitization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4206-4211.	7.1	59
36	Conditional Single Vector CRISPR/SaCas9 Viruses for Efficient Mutagenesis in the Adult Mouse Nervous System. <i>Cell Reports</i> , 2020, 30, 4303-4316.e6.	6.4	55

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37	Transient activation of specific neurons in mice by selective expression of the capsaicin receptor. <i>Nature Communications</i> , 2012, 3, 746.	12.8	54
38	Manipulating Gene Expression in Projection-Specific Neuronal Populations Using Combinatorial Viral Approaches. <i>Current Protocols in Neuroscience</i> , 2013, 65, 4.35.1-20.	2.6	53
39	Functional modulation of primary visual cortex by the superior colliculus in the mouse. <i>Nature Communications</i> , 2018, 9, 3895.	12.8	51
40	Genetic Isolation of Hypothalamic Neurons that Regulate Context-Specific Male Social Behavior. <i>Cell Reports</i> , 2016, 16, 304-313.	6.4	49
41	An endogenous opioid circuit determines state-dependent reward consumption. <i>Nature</i> , 2021, 598, 646-651.	27.8	49
42	Attenuating GABA _A Receptor Signaling in Dopamine Neurons Selectively Enhances Reward Learning and Alters Risk Preference in Mice. <i>Journal of Neuroscience</i> , 2011, 31, 17103-17112.	3.6	48
43	Genetic Reconstruction of Dopamine D1 Receptor Signaling in the Nucleus Accumbens Facilitates Natural and Drug Reward Responses. <i>Journal of Neuroscience</i> , 2013, 33, 8640-8649.	3.6	44
44	Anatomic resolution of neurotransmitter-specific projections to the VTA reveals diversity of GABAergic inputs. <i>Nature Neuroscience</i> , 2020, 23, 968-980.	14.8	40
45	Reversal of Alcohol-Induced Dysregulation in Dopamine Network Dynamics May Rescue Maladaptive Decision-making. <i>Journal of Neuroscience</i> , 2016, 36, 3698-3708.	3.6	39
46	Visualization of plasticity in fear-evoked calcium signals in midbrain dopamine neurons. <i>Learning and Memory</i> , 2014, 21, 575-579.	1.3	35
47	Inactivation of Pde8b enhances memory, motor performance, and protects against age-induced motor coordination decay. <i>Genes, Brain and Behavior</i> , 2012, 11, 837-847.	2.2	33
48	A behavioral genetics approach to understanding D1 receptor involvement in phasic dopamine signaling. <i>Molecular and Cellular Neurosciences</i> , 2011, 46, 21-31.	2.2	32
49	Persistent activation of central amygdala CRF neurons helps drive the immediate fear extinction deficit. <i>Nature Communications</i> , 2020, 11, 422.	12.8	32
50	Central amygdala circuits in valence and salience processing. <i>Behavioural Brain Research</i> , 2021, 410, 113355.	2.2	31
51	Sexual congruency in the connectome and translome of VTA dopamine neurons. <i>Scientific Reports</i> , 2017, 7, 11120.	3.3	27
52	Purkinje Cell-Specific Knockout of Tyrosine Hydroxylase Impairs Cognitive Behaviors. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 228.	3.7	27
53	A genetic link between discriminative fear coding by the lateral amygdala, dopamine, and fear generalization. <i>ELife</i> , 2015, 4, .	6.0	23
54	Overexpression of the Type 1 Adenylyl Cyclase in the Forebrain Leads to Deficits of Behavioral Inhibition. <i>Journal of Neuroscience</i> , 2015, 35, 339-351.	3.6	19

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55	Behavioral Effects of Pulp Exposure in Mice Lacking Cannabinoid Receptor 2. <i>Journal of Endodontics</i> , 2012, 38, 86-90.	3.1	18
56	Repetitive blast mild traumatic brain injury increases ethanol sensitivity in male mice and risky drinking behavior in male combat veterans. <i>Alcoholism: Clinical and Experimental Research</i> , 2021, 45, 1051-1064.	2.4	16
57	Catecholaminergic Innervation of the Lateral Nucleus of the Cerebellum Modulates Cognitive Behaviors. <i>Journal of Neuroscience</i> , 2021, 41, 3512-3530.	3.6	15
58	Î² Opioid Receptor-Dynorphin Signaling in the Central Amygdala Regulates Conditioned Threat Discrimination and Anxiety. <i>ENeuro</i> , 2021, 8, ENEURO.0370-20.2020.	1.9	15
59	A-kinase Anchoring Protein 79/150 Recruits Protein Kinase C to Phosphorylate Roundabout Receptors. <i>Journal of Biological Chemistry</i> , 2015, 290, 14107-14119.	3.4	14
60	Roundabout receptor 2 maintains inhibitory control of the adult midbrain. <i>ELife</i> , 2017, 6, .	6.0	14
61	Autism-associated mutations in K _v 7 channels induce gating pore current. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
62	Helium Scanning Transmission Ion Microscopy and Electrical Characterization of Glass Nanocapillaries with Reproducible Tip Geometries. <i>ACS Nano</i> , 2016, 10, 1918-1925.	14.6	11
63	CRISPR knockdown of Kcnq3 attenuates the M-current and increases excitability of NPY/AgRP neurons to alter energy balance. <i>Molecular Metabolism</i> , 2021, 49, 101218.	6.5	11
64	A midbrain dynorphin circuit promotes threat generalization. <i>Current Biology</i> , 2021, 31, 4388-4396.e5.	3.9	11
65	Distinct Encoding of Reward and Aversion by Peptidergic BNST Inputs to the VTA. <i>Frontiers in Neural Circuits</i> , 0, 16, .	2.8	11
66	Defining functional gene-circuit interfaces in the mouse nervous system. <i>Genes, Brain and Behavior</i> , 2014, 13, 2-12.	2.2	9
67	NMDA receptor deletion on dopamine neurons disrupts visual discrimination and reversal learning. <i>Neuroscience Letters</i> , 2019, 699, 109-114.	2.1	9
68	Dynamics of a hippocampal neuronal ensemble encoding trace fear memory revealed by in vivo Ca ²⁺ imaging. <i>PLoS ONE</i> , 2019, 14, e0219152.	2.5	8
69	Protocol to Design, Clone, and Validate sgRNAs for In Vivo Reverse Genetic Studies. <i>STAR Protocols</i> , 2020, 1, 100070.	1.2	8
70	Sex-dependent impaired locomotion and motor coordination in the Hdh ^{Q200/200} mouse model of Huntington's Disease. <i>Neurobiology of Disease</i> , 2019, 132, 104607.	4.4	7
71	Dopamine, uncertainty, and fear generalization. <i>Current Opinion in Behavioral Sciences</i> , 2019, 26, 157-164.	3.9	7
72	â€Fearful-placeâ€™ coding in the amygdala-hippocampal network. <i>ELife</i> , 2021, 10, .	6.0	6

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73	Disinhibitory feedback loops for reward and aversion. Cell Research, 2022, 32, 115-116.	12.0	0