

Laurence O Trussell

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

5,503
citations

101543

36
h-index

128289

60
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69
all docs

69
docs citations

69
times ranked

3593
citing authors

#	ARTICLE	IF	CITATIONS
1	KCNQ Channels Enable Reliable Presynaptic Spiking and Synaptic Transmission at High Frequency. <i>Journal of Neuroscience</i> , 2022, 42, 3305-3315.	3.6	5
2	Descending Axonal Projections from the Inferior Colliculus Target Nearly All Excitatory and Inhibitory Cell Types of the Dorsal Cochlear Nucleus. <i>Journal of Neuroscience</i> , 2022, 42, 3381-3393.	3.6	11
3	Central circuitry and function of the cochlear efferent systems. <i>Hearing Research</i> , 2022, 425, 108516.	2.0	11
4	Incomplete removal of extracellular glutamate controls synaptic transmission and integration at a cerebellar synapse. <i>ELife</i> , 2021, 10, .	6.0	12
5	Distinct forms of synaptic plasticity during ascending vs descending control of medial olivocochlear efferent neurons. <i>ELife</i> , 2021, 10, .	6.0	20
6	Identification of an inhibitory neuron subtype, the L-stellate cell of the cochlear nucleus. <i>ELife</i> , 2020, 9, .	6.0	23
7	Selective targeting of unipolar brush cell subtypes by cerebellar mossy fibers. <i>ELife</i> , 2019, 8, .	6.0	41
8	Microcircuits of the Dorsal Cochlear Nucleus. <i>Springer Handbook of Auditory Research</i> , 2018, , 73-99.	0.7	16
9	The Calyx of Held: A Hypothesis on the Need for Reliable Timing in an Intensity-Difference Encoder. <i>Neuron</i> , 2018, 100, 534-549.	8.1	42
10	Serotonergic Modulation of Sensory Representation in a Central Multisensory Circuit Is Pathway Specific. <i>Cell Reports</i> , 2017, 20, 1844-1854.	6.4	45
11	Corelease of Inhibitory Neurotransmitters in the Mouse Auditory Midbrain. <i>Journal of Neuroscience</i> , 2017, 37, 9453-9464.	3.6	45
12	Slow AMPAR Synaptic Transmission Is Determined by Stargazin and Glutamate Transporters. <i>Neuron</i> , 2017, 96, 73-80.e4.	8.1	28
13	Double-Nanodomain Coupling of Calcium Channels, Ryanodine Receptors, and BK Channels Controls the Generation of Burst Firing. <i>Neuron</i> , 2017, 96, 856-870.e4.	8.1	48
14	Auditory Golgi cells are interconnected predominantly by electrical synapses. <i>Journal of Neurophysiology</i> , 2016, 116, 540-551.	1.8	15
15	Quantum Disentanglement: Electrical Analysis of the Complex Roles of Ions in Filling Vesicles with Glutamate. <i>Neuron</i> , 2016, 90, 667-669.	8.1	2
16	Spontaneous Activity Defines Effective Convergence Ratios in an Inhibitory Circuit. <i>Journal of Neuroscience</i> , 2016, 36, 3268-3280.	3.6	25
17	Serotonergic Regulation of Excitability of Principal Cells of the Dorsal Cochlear Nucleus. <i>Journal of Neuroscience</i> , 2015, 35, 4540-4551.	3.6	56
18	ON and OFF Unipolar Brush Cells Transform Multisensory Inputs to the Auditory System. <i>Neuron</i> , 2015, 85, 1029-1042.	8.1	51

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19	Single Granule Cells Excite Golgi Cells and Evoke Feedback Inhibition in the Cochlear Nucleus. <i>Journal of Neuroscience</i> , 2015, 35, 4741-4750.	3.6	17
20	Superficial stellate cells of the dorsal cochlear nucleus. <i>Frontiers in Neural Circuits</i> , 2014, 8, 63.	2.8	14
21	Chemical synaptic transmission onto superficial stellate cells of the mouse dorsal cochlear nucleus. <i>Journal of Neurophysiology</i> , 2014, 111, 1812-1822.	1.8	15
22	Presynaptic HCN Channels Regulate Vesicular Glutamate Transport. <i>Neuron</i> , 2014, 84, 340-346.	8.1	47
23	Control of Interneuron Firing by Subthreshold Synaptic Potentials in Principal Cells of the Dorsal Cochlear Nucleus. <i>Neuron</i> , 2014, 83, 324-330.	8.1	29
24	Regulation of interneuron excitability by gap junction coupling with principal cells. <i>Nature Neuroscience</i> , 2013, 16, 1764-1772.	14.8	49
25	Rapid, Activity-Independent Turnover of Vesicular Transmitter Content at a Mixed Glycine/GABA Synapse. <i>Journal of Neuroscience</i> , 2013, 33, 4768-4781.	3.6	73
26	Intrinsic and synaptic properties of vertical cells of the mouse dorsal cochlear nucleus. <i>Journal of Neurophysiology</i> , 2012, 108, 1186-1198.	1.8	28
27	The Physiology of the Axon Initial Segment. <i>Annual Review of Neuroscience</i> , 2012, 35, 249-265.	10.7	189
28	Control of firing patterns through modulation of axon initial segment T-type calcium channels. <i>Journal of Physiology</i> , 2012, 590, 109-118.	2.9	51
29	Presynaptic regulation of quantal size: K ⁺ /H ⁺ exchange stimulates vesicular glutamate transport. <i>Nature Neuroscience</i> , 2011, 14, 1285-1292.	14.8	66
30	Spontaneous Spiking and Synaptic Depression Underlie Noradrenergic Control of Feed-Forward Inhibition. <i>Neuron</i> , 2011, 71, 306-318.	8.1	70
31	Synaptic plasticity in inhibitory neurons of the auditory brainstem. <i>Neuropharmacology</i> , 2011, 60, 774-779.	4.1	18
32	KCNQ5 channels control resting properties and release probability of a synapse. <i>Nature Neuroscience</i> , 2011, 14, 840-847.	14.8	73
33	Molecular Layer Inhibitory Interneurons Provide Feedforward and Lateral Inhibition in the Dorsal Cochlear Nucleus. <i>Journal of Neurophysiology</i> , 2010, 104, 2462-2473.	1.8	45
34	Dopaminergic Modulation of Axon Initial Segment Calcium Channels Regulates Action Potential Initiation. <i>Neuron</i> , 2010, 68, 500-511.	8.1	104
35	Heterogeneous Kinetics and Pharmacology of Synaptic Inhibition in the Chick Auditory Brainstem. <i>Journal of Neuroscience</i> , 2009, 29, 9625-9634.	3.6	51
36	Negative Shift in the Glycine Reversal Potential Mediated by a Ca ²⁺ - and pH-Dependent Mechanism in Interneurons. <i>Journal of Neuroscience</i> , 2009, 29, 11495-11510.	3.6	35

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37	Slow glycinergic transmission mediated by transmitter pooling. <i>Nature Neuroscience</i> , 2009, 12, 286-294.	14.8	40
38	Axon Initial Segment Ca ²⁺ Channels Influence Action Potential Generation and Timing. <i>Neuron</i> , 2009, 61, 259-271.	8.1	142
39	Fidelity of Complex Spike-Mediated Synaptic Transmission between Inhibitory Interneurons. <i>Journal of Neuroscience</i> , 2008, 28, 9440-9450.	3.6	33
40	Glycinergic Transmission Shaped by the Corelease of GABA in a Mammalian Auditory Synapse. <i>Neuron</i> , 2008, 57, 524-535.	8.1	114
41	Control of Presynaptic Function by a Persistent Na ⁺ Current. <i>Neuron</i> , 2008, 60, 975-979.	8.1	57
42	Synaptic Inputs to Granule Cells of the Dorsal Cochlear Nucleus. <i>Journal of Neurophysiology</i> , 2008, 99, 208-219.	1.8	21
43	Ion Channels Generating Complex Spikes in Cartwheel Cells of the Dorsal Cochlear Nucleus. <i>Journal of Neurophysiology</i> , 2007, 97, 1705-1725.	1.8	66
44	Coactivation of Pre- and Postsynaptic Signaling Mechanisms Determines Cell-Specific Spike-Timing-Dependent Plasticity. <i>Neuron</i> , 2007, 54, 291-301.	8.1	202
45	Estimate of the Chloride Concentration in a Central Glutamatergic Terminal: A Gramicidin Perforated-Patch Study on the Calyx of Held. <i>Journal of Neuroscience</i> , 2006, 26, 11432-11436.	3.6	121
46	Staggered Development of GABAergic and Glycinergic Transmission in the MNTB. <i>Journal of Neurophysiology</i> , 2005, 93, 819-828.	1.8	126
47	Modulation of Transmitter Release by Presynaptic Resting Potential and Background Calcium Levels. <i>Neuron</i> , 2005, 48, 109-121.	8.1	236
48	Inhibitory Control at a Synaptic Relay. <i>Journal of Neuroscience</i> , 2004, 24, 2643-2647.	3.6	74
49	Cell-specific, spike timing-dependent plasticities in the dorsal cochlear nucleus. <i>Nature Neuroscience</i> , 2004, 7, 719-725.	14.8	277
50	Modulation of transmitter release at giant synapses of the auditory system. <i>Current Opinion in Neurobiology</i> , 2002, 12, 400-404.	4.2	39
51	Maturation of Synaptic Transmission at End-Bulb Synapses of the Cochlear Nucleus. <i>Journal of Neuroscience</i> , 2001, 21, 9487-9498.	3.6	112
52	Minimizing Synaptic Depression by Control of Release Probability. <i>Journal of Neuroscience</i> , 2001, 21, 1857-1867.	3.6	112
53	Correlation of AMPA Receptor Subunit Composition with Synaptic Input in the Mammalian Cochlear Nuclei. <i>Journal of Neuroscience</i> , 2001, 21, 7428-7437.	3.6	116
54	Presynaptic glycine receptors enhance transmitter release at a mammalian central synapse. <i>Nature</i> , 2001, 411, 587-590.	27.8	280

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55	Inhibitory Transmission Mediated by Asynchronous Transmitter Release. <i>Neuron</i> , 2000, 26, 683-694.	8.1	203
56	Time Course and Permeation of Synaptic AMPA Receptors in Cochlear Nuclear Neurons Correlate with Input. <i>Journal of Neuroscience</i> , 1999, 19, 8721-8729.	3.6	143
57	SYNAPTIC MECHANISMS FOR CODING TIMING IN AUDITORY NEURONS. <i>Annual Review of Physiology</i> , 1999, 61, 477-496.	13.1	379
58	Desensitization of AMPA receptors upon multiquantal neurotransmitter release. <i>Neuron</i> , 1993, 10, 1185-1196.	8.1	443
59	The kinetics of the response to glutamate and kainate in neurons of the avian cochlear nucleus. <i>Neuron</i> , 1992, 9, 173-186.	8.1	232
60	Glutamate receptor desensitization and its role in synaptic transmission. <i>Neuron</i> , 1989, 3, 209-218.	8.1	462