Shaul Hestrin

List of Publications by Year
in descending order

43 papers	9,061 citations	117625 34 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	7165 citing authors

#	Article	IF	Citations
1	Motivation and Engagement during Visually Guided Behavior. Cell Reports, 2020, 33, 108272.	6.4	2
2	Feature-Specific Organization of Feedback Pathways in Mouse Visual Cortex. Current Biology, 2018, 28, 114-120.e5.	3.9	51
3	Correlation of Synaptic Inputs in the Visual Cortex of Awake, Behaving Mice. Neuron, 2018, 99, 1289-1301.e2.	8.1	28
4	Nicotinic modulation of cortical circuits. Frontiers in Neural Circuits, 2014, 8, 30.	2.8	58
5	Layer 6 Corticothalamic Neurons Activate a Cortical Output Layer, Layer 5a. Journal of Neuroscience, 2014, 34, 9656-9664.	3.6	136
6	Controlling Brain States. Neuron, 2014, 83, 260-261.	8.1	12
7	Subthreshold Mechanisms Underlying State-Dependent Modulation of Visual Responses. Neuron, 2013, 80, 350-357.	8.1	258
8	New insights into the classification and nomenclature of cortical GABAergic interneurons. Nature Reviews Neuroscience, 2013, 14, 202-216.	10.2	707
9	Mechanisms Generating Dual-Component Nicotinic EPSCs in Cortical Interneurons. Journal of Neuroscience, 2012, 32, 17287-17296.	3.6	78
10	Prolonged Disynaptic Inhibition in the Cortex Mediated by Slow, Non-Î±7 Nicotinic Excitation of a Specific Subset of Cortical Interneurons. Journal of Neuroscience, 2012, 32, 3859-3864.	3.6	136
11	Noradrenaline Enhances Signal-to-Noise Ratio of Inhibitory Inputs in the Dorsal Cochlear Nucleus. Neuron, 2011, 71, 197-198.	8.1	2
12	The Strength of Electrical Synapses. Science, 2011, 334, 315-316.	12.6	15
13	Synaptogenesis of Electrical and GABAergic Synapses of Fast-Spiking Inhibitory Neurons in the Neocortex. Journal of Neuroscience, 2011, 31, 10767-10775.	3.6	73
14	Cell-type identity: a key to unlocking the function of neocortical circuits. Current Opinion in Neurobiology, 2009, 19, 415-421.	4.2	59
15	Intracortical circuits of pyramidal neurons reflect their long-range axonal targets. Nature, 2009, 457, 1133-1136.	27.8	335
16	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. Nature Reviews Neuroscience, 2008, 9, 557-568.	10.2	1,314
17	D₁-Like Dopamine Receptor Activation Modulates GABAergic Inhibition But Not Electrical Coupling between Neocortical Fast-Spiking Interneurons. Journal of Neuroscience, 2008, 28, 2633-2641.	3.6	48
18	Cannabinoid Sensitivity and Synaptic Properties of 2 GABAergic Networks in the Neocortex. Cerebral Cortex, 2008, 18, 2296-2305.	2.9	55

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19	Synchronous versus asynchronous transmitter release: a tale of two types of inhibitory neurons. Nature Neuroscience, 2005, 8, 1283-1284.	14.8	18
20	Background Synaptic Conductance and Precision of EPSP-Spike Coupling at Pyramidal Cells. Journal of Neurophysiology, 2005, 93, 3248-3256.	1.8	38
21	Electrical synapses define networks of neocortical GABAergic neurons. Trends in Neurosciences, 2005, 28, 304-309.	8.6	238
22	Electrical Coupling among Irregular-Spiking GABAergic Interneurons Expressing Cannabinoid Receptors. Journal of Neuroscience, 2004, 24, 9770-9778.	3.6	114
23	Synaptic Interactions of Late-Spiking Neocortical Neurons in Layer 1. Journal of Neuroscience, 2003, 23, 96-102.	3.6	159
24	Fast Spiking Cells and the Balance of Excitation and Inhibition in the Neocortex. , 2003, , 173-185.		1
25	Electrical and chemical synapses among parvalbumin fast-spiking GABAergic interneurons in adult mouse neocortex. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12438-12443.	7.1	331
26	Electrical synapses between Gaba-Releasing interneurons. Nature Reviews Neuroscience, 2001, 2, 425-433.	10.2	387
27	Spike Transmission and Synchrony Detection in Networks of GABAergic Interneurons. Science, 2001, 292, 2295-2299.	12.6	354
28	Enhanced neurotransmitter release at glutamatergic synapses on oxytocin neurones during lactation in the rat. Journal of Physiology, 2000, 526, 109-114.	2.9	62
29	Burst Firing Induces a Rebound of Synaptic Strength at Unitary Neocortical Synapses. Journal of Neurophysiology, 2000, 83, 621-624.	1.8	18
30	Differences in the Properties of Ionotropic Glutamate Synaptic Currents in Oxytocin and Vasopressin Neuroendocrine Neurons. Journal of Neuroscience, 1999, 19, 3367-3375.	3.6	61
31	A network of fast-spiking cells in the neocortex connected by electrical synapses. Nature, 1999, 402, 72-75.	27.8	870
32	Frequency-dependent synaptic depression and the balance of excitation and inhibition in the neocortex. Nature Neuroscience, 1998, 1, 587-594.	14.8	358
33	Title is missing!. Nature Neuroscience, 1998, 1, 587-594.	14.8	163
34	Subunit Composition, Kinetic, and Permeation Properties of AMPA Receptors in Single Neocortical Nonpyramidal Cells. Journal of Neuroscience, 1997, 17, 6685-6696.	3.6	123
35	Properties of GABAAReceptors Underlying Inhibitory Synaptic Currents in Neocortical Pyramidal Neurons. Journal of Neuroscience, 1997, 17, 7220-7227.	3.6	80
36	Developmental Regulation of Basket/Stellate Cellâ†'Purkinje Cell Synapses in the Cerebellum. Journal of Neuroscience, 1997, 17, 9104-9112.	3.6	151

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37	Molecular and Physiological Diversity of Cortical Nonpyramidal Cells. Journal of Neuroscience, 1997, 17, 3894-3906.	3.6	636
38	Morphology and Physiology of Cortical Neurons in Layer I. Journal of Neuroscience, 1996, 16, 5290-5300.	3.6	184
39	Different glutamate receptor channels mediate fast excitatory synaptic currents in inhibitory and excitatory cortical neurons. Neuron, 1993, 11, 1083-1091.	8.1	202
40	Activation and desensitization of glutamate-activated channels mediating fast excitatory synaptic currents in the visual cortex. Neuron, 1992, 9, 991-999.	8.1	240
41	Developmental regulation of NMDA receptor-mediated synaptic currents at a central synapse. Nature, 1992, 357, 686-689.	27.8	513
42	Mechanisms generating the time course of dual component excitatory synaptic currents recorded in hippocampal slices. Neuron, 1990, 5, 247-253.	8.1	384
43	Activation of acetylcholine receptors causes the partition of hydrophobic cations into postsynaptic membrane vesicles. Nature, 1983, 302, 525-528.	27.8	9