

# Shaul Hestrin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11325476/publications.pdf>

Version: 2024-02-01

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	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. <i>Nature Reviews Neuroscience</i> , 2008, 9, 557-568.	10.2	1,314
2	A network of fast-spiking cells in the neocortex connected by electrical synapses. <i>Nature</i> , 1999, 402, 72-75.	27.8	870
3	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013, 14, 202-216.	10.2	707
4	Molecular and Physiological Diversity of Cortical Nonpyramidal Cells. <i>Journal of Neuroscience</i> , 1997, 17, 3894-3906.	3.6	636
5	Developmental regulation of NMDA receptor-mediated synaptic currents at a central synapse. <i>Nature</i> , 1992, 357, 686-689.	27.8	513
6	Electrical synapses between Gaba-Releasing interneurons. <i>Nature Reviews Neuroscience</i> , 2001, 2, 425-433.	10.2	387
7	Mechanisms generating the time course of dual component excitatory synaptic currents recorded in hippocampal slices. <i>Neuron</i> , 1990, 5, 247-253.	8.1	384
8	Frequency-dependent synaptic depression and the balance of excitation and inhibition in the neocortex. <i>Nature Neuroscience</i> , 1998, 1, 587-594.	14.8	358
9	Spike Transmission and Synchrony Detection in Networks of GABAergic Interneurons. <i>Science</i> , 2001, 292, 2295-2299.	12.6	354
10	Intracortical circuits of pyramidal neurons reflect their long-range axonal targets. <i>Nature</i> , 2009, 457, 1133-1136.	27.8	335
11	Electrical and chemical synapses among parvalbumin fast-spiking GABAergic interneurons in adult mouse neocortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12438-12443.	7.1	331
12	Subthreshold Mechanisms Underlying State-Dependent Modulation of Visual Responses. <i>Neuron</i> , 2013, 80, 350-357.	8.1	258
13	Activation and desensitization of glutamate-activated channels mediating fast excitatory synaptic currents in the visual cortex. <i>Neuron</i> , 1992, 9, 991-999.	8.1	240
14	Electrical synapses define networks of neocortical GABAergic neurons. <i>Trends in Neurosciences</i> , 2005, 28, 304-309.	8.6	238
15	Different glutamate receptor channels mediate fast excitatory synaptic currents in inhibitory and excitatory cortical neurons. <i>Neuron</i> , 1993, 11, 1083-1091.	8.1	202
16	Morphology and Physiology of Cortical Neurons in Layer I. <i>Journal of Neuroscience</i> , 1996, 16, 5290-5300.	3.6	184
17	Title is missing!. <i>Nature Neuroscience</i> , 1998, 1, 587-594.	14.8	163
18	Synaptic Interactions of Late-Spiking Neocortical Neurons in Layer 1. <i>Journal of Neuroscience</i> , 2003, 23, 96-102.	3.6	159

#	ARTICLE	IF	CITATIONS
19	Developmental Regulation of Basket/Stellate Cell $\rightarrow$ Purkinje Cell Synapses in the Cerebellum. <i>Journal of Neuroscience</i> , 1997, 17, 9104-9112.	3.6	151
20	Prolonged Disynaptic Inhibition in the Cortex Mediated by Slow, Non- $\alpha$ 7 Nicotinic Excitation of a Specific Subset of Cortical Interneurons. <i>Journal of Neuroscience</i> , 2012, 32, 3859-3864.	3.6	136
21	Layer 6 Corticothalamic Neurons Activate a Cortical Output Layer, Layer 5a. <i>Journal of Neuroscience</i> , 2014, 34, 9656-9664.	3.6	136
22	Subunit Composition, Kinetic, and Permeation Properties of AMPA Receptors in Single Neocortical Nonpyramidal Cells. <i>Journal of Neuroscience</i> , 1997, 17, 6685-6696.	3.6	123
23	Electrical Coupling among Irregular-Spiking GABAergic Interneurons Expressing Cannabinoid Receptors. <i>Journal of Neuroscience</i> , 2004, 24, 9770-9778.	3.6	114
24	Properties of GABA <sub>A</sub> Receptors Underlying Inhibitory Synaptic Currents in Neocortical Pyramidal Neurons. <i>Journal of Neuroscience</i> , 1997, 17, 7220-7227.	3.6	80
25	Mechanisms Generating Dual-Component Nicotinic EPSCs in Cortical Interneurons. <i>Journal of Neuroscience</i> , 2012, 32, 17287-17296.	3.6	78
26	Synaptogenesis of Electrical and GABAergic Synapses of Fast-Spiking Inhibitory Neurons in the Neocortex. <i>Journal of Neuroscience</i> , 2011, 31, 10767-10775.	3.6	73
27	Enhanced neurotransmitter release at glutamatergic synapses on oxytocin neurones during lactation in the rat. <i>Journal of Physiology</i> , 2000, 526, 109-114.	2.9	62
28	Differences in the Properties of Ionotropic Glutamate Synaptic Currents in Oxytocin and Vasopressin Neuroendocrine Neurons. <i>Journal of Neuroscience</i> , 1999, 19, 3367-3375.	3.6	61
29	Cell-type identity: a key to unlocking the function of neocortical circuits. <i>Current Opinion in Neurobiology</i> , 2009, 19, 415-421.	4.2	59
30	Nicotinic modulation of cortical circuits. <i>Frontiers in Neural Circuits</i> , 2014, 8, 30.	2.8	58
31	Cannabinoid Sensitivity and Synaptic Properties of 2 GABAergic Networks in the Neocortex. <i>Cerebral Cortex</i> , 2008, 18, 2296-2305.	2.9	55
32	Feature-Specific Organization of Feedback Pathways in Mouse Visual Cortex. <i>Current Biology</i> , 2018, 28, 114-120.e5.	3.9	51
33	D <sub>1</sub> -Like Dopamine Receptor Activation Modulates GABAergic Inhibition But Not Electrical Coupling between Neocortical Fast-Spiking Interneurons. <i>Journal of Neuroscience</i> , 2008, 28, 2633-2641.	3.6	48
34	Background Synaptic Conductance and Precision of EPSP-Spike Coupling at Pyramidal Cells. <i>Journal of Neurophysiology</i> , 2005, 93, 3248-3256.	1.8	38
35	Correlation of Synaptic Inputs in the Visual Cortex of Awake, Behaving Mice. <i>Neuron</i> , 2018, 99, 1289-1301.e2.	8.1	28
36	Burst Firing Induces a Rebound of Synaptic Strength at Unitary Neocortical Synapses. <i>Journal of Neurophysiology</i> , 2000, 83, 621-624.	1.8	18

#	ARTICLE	IF	CITATIONS
37	Synchronous versus asynchronous transmitter release: a tale of two types of inhibitory neurons. Nature Neuroscience, 2005, 8, 1283-1284.	14.8	18
38	The Strength of Electrical Synapses. Science, 2011, 334, 315-316.	12.6	15
39	Controlling Brain States. Neuron, 2014, 83, 260-261.	8.1	12
40	Activation of acetylcholine receptors causes the partition of hydrophobic cations into postsynaptic membrane vesicles. Nature, 1983, 302, 525-528.	27.8	9
41	Noradrenaline Enhances Signal-to-Noise Ratio of Inhibitory Inputs in the Dorsal Cochlear Nucleus. Neuron, 2011, 71, 197-198.	8.1	2
42	Motivation and Engagement during Visually Guided Behavior. Cell Reports, 2020, 33, 108272.	6.4	2
43	Fast Spiking Cells and the Balance of Excitation and Inhibition in the Neocortex. , 2003, , 173-185.		1