Steven A Siegelbaum

List of Publications by Year
in descending order

51 papers	9,990 citations	81900 39 h-index	175258 52 g-index
58 all docs	58 docs citations	58 times ranked	8190 citing authors

#	Article	IF	Citations
1	Enkephalin release from VIP interneurons in the hippocampal CA2/3a region mediates heterosynaptic plasticity and social memory. Molecular Psychiatry, 2022, 27, 2879-2900.	7.9	20
2	A direct lateral entorhinal cortex to hippocampal CA2 circuit conveys social information required for social memory. Neuron, 2022, 110, 1559-1572.e4.	8.1	48
3	Somatic Depolarization Enhances Hippocampal CA1 Dendritic Spike Propagation and Distal Input-Driven Synaptic Plasticity. Journal of Neuroscience, 2022, 42, 3406-3425.	3.6	3
4	Gating movements and ion permeation in HCN4 pacemaker channels. Molecular Cell, 2021, 81, 2929-2943.e6.	9.7	41
5	Frequency-Dependent Synaptic Dynamics Differentially Tune CA1 and CA2 Pyramidal Neuron Responses to Cortical Input. Journal of Neuroscience, 2021, 41, 8103-8110.	3.6	7
6	Coding of social novelty in the hippocampal CA2 region and its disruption and rescue in a 22q11.2 microdeletion mouse model. Nature Neuroscience, 2020, 23, 1365-1375.	14.8	59
7	Hippocampal CA2 sharp-wave ripples reactivate and promote social memory. Nature, 2020, 587, 264-269.	27.8	145
8	Postsynaptic integrative properties of dorsal CA1 pyramidal neuron subpopulations. Journal of Neurophysiology, 2020, 123, 980-992.	1.8	15
9	Synaptic Organization of Anterior Olfactory Nucleus Inputs to Piriform Cortex. Journal of Neuroscience, 2020, 40, 9414-9425.	3.6	1
10	Synaptic Organization of Anterior Olfactory Nucleus Inputs to Piriform Cortex. Journal of Neuroscience, 2020, 40, 9414-9425.	3.6	13
11	A circuit from hippocampal CA2 to lateral septum disinhibits social aggression. Nature, 2018, 564, 213-218.	27.8	184
12	A hippocampal circuit linking dorsal CA2 to ventral CA1 critical for social memory dynamics. Nature Communications, 2018, 9, 4163.	12.8	189
13	Hippocampal 5-HT Input Regulates Memory Formation and Schaffer Collateral Excitation. Neuron, 2018, 98, 992-1004.e4.	8.1	88
14	Medial and Lateral Entorhinal Cortex Differentially Excite Deep versus Superficial CA1 Pyramidal Neurons. Cell Reports, 2017, 18, 148-160.	6.4	93
15	The Dendrites of CA2 and CA1 Pyramidal Neurons Differentially Regulate Information Flow in the Cortico-Hippocampal Circuit. Journal of Neuroscience, 2017, 37, 3276-3293.	3.6	54
16	Proximodistal Heterogeneity of Hippocampal CA3 Pyramidal Neuron Intrinsic Properties, Connectivity, and Reactivation during Memory Recall. Neuron, 2017, 95, 656-672.e3.	8.1	99
17	Input-Timing-Dependent Plasticity in the Hippocampal CA2 Region and Its Potential Role in Social Memory. Neuron, 2017, 95, 1089-1102.e5.	8.1	73
18	Age-Dependent Specific Changes in Area CA2 of the Hippocampus and Social Memory Deficit in a Mouse Model of the 22q11.2 Deletion Syndrome. Neuron, 2016, 89, 163-176.	8.1	137

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19	Gating of hippocampal activity, plasticity, and memory by entorhinal cortex long-range inhibition. Science, 2016, 351, aaa5694.	12.6	220
20	Midbrain dopamine neurons bidirectionally regulate CA3-CA1 synaptic drive. Nature Neuroscience, 2015, 18, 1763-1771.	14.8	121
21	The Corticohippocampal Circuit, Synaptic Plasticity, and Memory. Cold Spring Harbor Perspectives in Biology, 2015, 7, a021733.	5.5	140
22	Differential contribution of TRPM4 and TRPM5 nonselective cation channels to the slow afterdepolarization in mouse prefrontal cortex neurons. Frontiers in Cellular Neuroscience, 2014, 8, 267.	3.7	38
23	The hippocampal CA2 region is essential for social memory. Nature, 2014, 508, 88-92.	27.8	729
24	Reelin Signaling Specifies the Molecular Identity of the Pyramidal Neuron Distal Dendritic Compartment. Cell, 2014, 158, 1335-1347.	28.9	55
25	Dendritic Na+ spikes enable cortical input to drive action potential output from hippocampal CA2 pyramidal neurons. ELife, 2014, 3, .	6.0	64
26	A Cortico-Hippocampal Learning Rule Shapes Inhibitory Microcircuit Activity to Enhance Hippocampal Information Flow. Neuron, 2013, 79, 1208-1221.	8.1	113
27	TRIP8b Splice Forms Act in Concert to Regulate the Localization and Expression of HCN1 Channels in CA1 Pyramidal Neurons. Neuron, 2011, 70, 495-509.	8.1	69
28	Recurrent Circuitry Dynamically Shapes the Activation of Piriform Cortex. Neuron, 2011, 72, 49-56.	8.1	175
29	Strong CA2 Pyramidal Neuron Synapses Define a Powerful Disynaptic Cortico-Hippocampal Loop. Neuron, 2010, 66, 560-572.	8.1	248
30	Probing S4 and S5 segment proximity in mammalian hyperpolarization-activated HCN channels by disulfide bridging and Cd2+ coordination. Pflugers Archiv European Journal of Physiology, 2009, 458, 259-272.	2.8	9
31	HCN hyperpolarization-activated cation channels inhibit EPSPs by interactions with M-type K+ channels. Nature Neuroscience, 2009, 12, 577-584.	14.8	167
32	TRIP8b Splice Variants Form a Family of Auxiliary Subunits that Regulate Gating and Trafficking of HCN Channels in the Brain. Neuron, 2009, 62, 802-813.	8.1	151
33	A Role for Synaptic Inputs at Distal Dendrites: Instructive Signals for Hippocampal Long-Term Plasticity. Neuron, 2007, 56, 866-879.	8.1	175
34	Modulation of cyclic nucleotide-regulated HCN channels by PIP2 and receptors coupled to phospholipase C. Pflugers Archiv European Journal of Physiology, 2007, 455, 125-145.	2.8	89
35	Regulation of Gating and Rundown of HCN Hyperpolarization-activated Channels by Exogenous and Endogenous PIP2. Journal of General Physiology, 2006, 128, 593-604.	1.9	142
36	Changes in Local S4 Environment Provide a Voltage-sensing Mechanism for Mammalian Hyperpolarizationâ€“activated HCN Channels. Journal of General Physiology, 2004, 123, 5-20.	1.9	81

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37	Regulation of HCN Channel Surface Expression by a Novel C-Terminal Protein-Protein Interaction. Journal of Neuroscience, 2004, 24, 10750-10762.	3.6	186
38	A Behavioral Role for Dendritic Integration. Cell, 2004, 119, 719-732.	28.9	299
39	Hyperpolarization-Activated Cation Currents: From Molecules to Physiological Function. Annual Review of Physiology, 2003, 65, 453-480.	13.1	1,059
40	Visualization of changes in presynaptic function during long-term synaptic plasticity. Nature Neuroscience, 2001, 4, 711-717.	14.8	287
41	Properties of Hyperpolarization-Activated Pacemaker Current Defined by Coassembly of Hcn1 and Hcn2 Subunits and Basal Modulation by Cyclic Nucleotide. Journal of General Physiology, 2001, 117, 491-504.	1.9	379
42	Presynaptic facilitation by hyperpolarization-activated pacemaker channels. Nature Neuroscience, 2000, 3, 101-102.	14.8	19
43	Molecular and Functional Heterogeneity of Hyperpolarization-Activated Pacemaker Channels in the Mouse CNS. Journal of Neuroscience, 2000, 20, 5264-5275.	3.6	537
44	PRESYNAPTIC IONOTROPIC RECEPTORS AND THE CONTROL OF TRANSMITTER RELEASE. Annual Review of Neuroscience, 1999, 22, 443-485.	10.7	521
45	Identification of a Gene Encoding a Hyperpolarization-Activated Pacemaker Channel of Brain. Cell, 1998, 93, 717-729.	28.9	656
46	Allosteric activation and tuning of ligand efficacy in cyclic-nucleotide-gated channels. Nature, 1997, 386, 612-615.	27.8	107
47	The role of Rab3A in neurotransmitter release. Nature, 1994, 369, 493-497.	27.8	471
48	Molecular mechanism of cyclic-nucleotide-gated channel activation. Nature, 1994, 372, 369-374.	27.8	292
49	Molecular cloning and single-channel properties of the cyclic nucleotide-gated channel from catfish olfactory neurons. Neuron, 1992, 8, 45-58.	8.1	313
50	Direct modulation of Aplysia S-K+ channels by a 12-lipoxygenase metabolite of arachidonic acid. Nature, 1989, 342, 553-555.	27.8	136
51	Serotonin and cyclic AMP close single K+ channels in Aplysia sensory neurones. Nature, 1982, 299, 413-417.	27.8	649