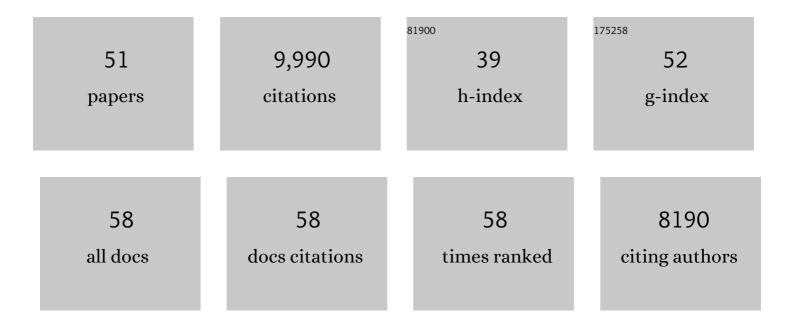
## Steven A Siegelbaum

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Hyperpolarization-Activated Cation Currents: From Molecules to Physiological Function. Annual Review of Physiology, 2003, 65, 453-480.	13.1	1,059
2	The hippocampal CA2 region is essential for social memory. Nature, 2014, 508, 88-92.	27.8	729
3	Identification of a Gene Encoding a Hyperpolarization-Activated Pacemaker Channel of Brain. Cell, 1998, 93, 717-729.	28.9	656
4	Serotonin and cyclic AMP close single K+ channels in Aplysia sensory neurones. Nature, 1982, 299, 413-417.	27.8	649
5	Molecular and Functional Heterogeneity of Hyperpolarization-Activated Pacemaker Channels in the Mouse CNS. Journal of Neuroscience, 2000, 20, 5264-5275.	3.6	537
6	PRESYNAPTIC IONOTROPIC RECEPTORS AND THE CONTROL OF TRANSMITTER RELEASE. Annual Review of Neuroscience, 1999, 22, 443-485.	10.7	521
7	The role of Rab3A in neurotransmitter release. Nature, 1994, 369, 493-497.	27.8	471
8	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
9	Molecular cloning and single-channel properties of the cyclic nucleotide-gated channel from catfish olfactory neurons. Neuron, 1992, 8, 45-58.	8.1	313
10	A Behavioral Role for Dendritic Integration. Cell, 2004, 119, 719-732.	28.9	299
11	Molecular mechanism of cyclic-nucleotide-gated channel activation. Nature, 1994, 372, 369-374.	27.8	292
12	Visualization of changes in presynaptic function during long-term synaptic plasticity. Nature Neuroscience, 2001, 4, 711-717.	14.8	287
13	Strong CA2 Pyramidal Neuron Synapses Define a Powerful Disynaptic Cortico-Hippocampal Loop. Neuron, 2010, 66, 560-572.	8.1	248
14	Gating of hippocampal activity, plasticity, and memory by entorhinal cortex long-range inhibition. Science, 2016, 351, aaa5694.	12.6	220
15	A hippocampal circuit linking dorsal CA2 to ventral CA1 critical for social memory dynamics. Nature Communications, 2018, 9, 4163.	12.8	189
16	Regulation of HCN Channel Surface Expression by a Novel C-Terminal Protein-Protein Interaction. Journal of Neuroscience, 2004, 24, 10750-10762.	3.6	186
17	A circuit from hippocampal CA2 to lateral septum disinhibits social aggression. Nature, 2018, 564, 213-218.	27.8	184
18	A Role for Synaptic Inputs at Distal Dendrites: Instructive Signals for Hippocampal Long-Term Plasticity. Neuron, 2007, 56, 866-879.	8.1	175

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19	Recurrent Circuitry Dynamically Shapes the Activation of Piriform Cortex. Neuron, 2011, 72, 49-56.	8.1	175
20	HCN hyperpolarization-activated cation channels inhibit EPSPs by interactions with M-type K+ channels. Nature Neuroscience, 2009, 12, 577-584.	14.8	167
21	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
22	Hippocampal CA2 sharp-wave ripples reactivate and promote social memory. Nature, 2020, 587, 264-269.	27.8	145
23	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
24	The Corticohippocampal Circuit, Synaptic Plasticity, and Memory. Cold Spring Harbor Perspectives in Biology, 2015, 7, a021733.	5.5	140
25	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
26	Direct modulation of Aplysia S-K+ channels by a 12-lipoxygenase metabolite of arachidonic acid. Nature, 1989, 342, 553-555.	27.8	136
27	Midbrain dopamine neurons bidirectionally regulate CA3-CA1 synaptic drive. Nature Neuroscience, 2015, 18, 1763-1771.	14.8	121
28	A Cortico-Hippocampal Learning Rule Shapes Inhibitory Microcircuit Activity to Enhance Hippocampal Information Flow. Neuron, 2013, 79, 1208-1221.	8.1	113
29	Allosteric activation and tuning of ligand efficacy in cyclic-nucleotide-gated channels. Nature, 1997, 386, 612-615.	27.8	107
30	Proximodistal Heterogeneity of Hippocampal CA3 Pyramidal Neuron Intrinsic Properties, Connectivity, and Reactivation during Memory Recall. Neuron, 2017, 95, 656-672.e3.	8.1	99
31	Medial and Lateral Entorhinal Cortex Differentially Excite Deep versus Superficial CA1 Pyramidal Neurons. Cell Reports, 2017, 18, 148-160.	6.4	93
32	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
33	Hippocampal 5-HT Input Regulates Memory Formation and Schaffer Collateral Excitation. Neuron, 2018, 98, 992-1004.e4.	8.1	88
34	Changes in Local S4 Environment Provide a Voltage-sensing Mechanism for Mammalian Hyperpolarization–activated HCN Channels. Journal of General Physiology, 2004, 123, 5-20.	1.9	81
35	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
36	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

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37	Dendritic Na+ spikes enable cortical input to drive action potential output from hippocampal CA2 pyramidal neurons. ELife, 2014, 3, .	6.0	64
38	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
39	Reelin Signaling Specifies the Molecular Identity of the Pyramidal Neuron Distal Dendritic Compartment. Cell, 2014, 158, 1335-1347.	28.9	55
40	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
41	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
42	Gating movements and ion permeation in HCN4 pacemaker channels. Molecular Cell, 2021, 81, 2929-2943.e6.	9.7	41
43	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
44	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
45	Presynaptic facilitation by hyperpolarization-activated pacemaker channels. Nature Neuroscience, 2000, 3, 101-102.	14.8	19
46	Postsynaptic integrative properties of dorsal CA1 pyramidal neuron subpopulations. Journal of Neurophysiology, 2020, 123, 980-992.	1.8	15
47	Synaptic Organization of Anterior Olfactory Nucleus Inputs to Piriform Cortex. Journal of Neuroscience, 2020, 40, 9414-9425.	3.6	13
48	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
49	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
50	Somatic Depolarization Enhances Hippocampal CA1 Dendritic Spike Propagation and Distal Input-Driven Synaptic Plasticity. Journal of Neuroscience, 2022, 42, 3406-3425.	3.6	3
51	Synaptic Organization of Anterior Olfactory Nucleus Inputs to Piriform Cortex. Journal of Neuroscience, 2020, 40, 9414-9425.	3.6	1