

Sheena Ann Josselyn

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

9,348
citations

49
h-index

96
g-index

107
ext. papers

11,282
ext. citations

11.3
avg, IF

6.43
L-index

#	Paper	IF	Citations
99	Memory reconsolidation and extinction have distinct temporal and biochemical signatures. <i>Journal of Neuroscience</i> , 2004 , 24, 4787-95	6.6	883
98	CREB required for the stability of new and reactivated fear memories. <i>Nature Neuroscience</i> , 2002 , 5, 348-55	25.5	494
97	Neuronal competition and selection during memory formation. <i>Science</i> , 2007 , 316, 457-60	33.3	466
96	Hippocampal neurogenesis regulates forgetting during adulthood and infancy. <i>Science</i> , 2014 , 344, 598-603	33.3	455
95	Selective erasure of a fear memory. <i>Science</i> , 2009 , 323, 1492-6	33.3	377
94	Long-term memory is facilitated by cAMP response element-binding protein overexpression in the amygdala. <i>Journal of Neuroscience</i> , 2001 , 21, 2404-12	6.6	364
93	Optical controlling reveals time-dependent roles for adult-born dentate granule cells. <i>Nature Neuroscience</i> , 2012 , 15, 1700-6	25.5	311
92	Finding the engram. <i>Nature Reviews Neuroscience</i> , 2015 , 16, 521-34	13.5	299
91	Stimulation of entorhinal cortex promotes adult neurogenesis and facilitates spatial memory. <i>Journal of Neuroscience</i> , 2011 , 31, 13469-84	6.6	279
90	MAPK, CREB and zif268 are all required for the consolidation of recognition memory. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003 , 358, 805-14	5.8	245
89	Maze training in mice induces MRI-detectable brain shape changes specific to the type of learning. <i>NeuroImage</i> , 2011 , 54, 2086-95	7.9	236
88	Neurons are recruited to a memory trace based on relative neuronal excitability immediately before training. <i>Neuron</i> , 2014 , 83, 722-35	13.9	231
87	Memory engrams: Recalling the past and imagining the future. <i>Science</i> , 2020 , 367,	33.3	193
86	Upregulation of CREB-mediated transcription enhances both short- and long-term memory. <i>Journal of Neuroscience</i> , 2011 , 31, 8786-802	6.6	178
85	Competition between engrams influences fear memory formation and recall. <i>Science</i> , 2016 , 353, 383-7	33.3	164
84	Hippocampal neurogenesis and forgetting. <i>Trends in Neurosciences</i> , 2013 , 36, 497-503	13.3	154
83	CREB, synapses and memory disorders: past progress and future challenges. <i>CNS and Neurological Disorders</i> , 2005 , 4, 481-97		144

82	Posttraining ablation of adult-generated neurons degrades previously acquired memories. <i>Journal of Neuroscience</i> , 2011 , 31, 15113-27	6.6	140
81	Structural foundations of optogenetics: Determinants of channelrhodopsin ion selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 822-9	11.5	136
80	Computer-assisted behavioral assessment of Pavlovian fear conditioning in mice. <i>Learning and Memory</i> , 2000 , 7, 58-72	2.8	129
79	Suppression of adult neurogenesis impairs population coding of similar contexts in hippocampal CA3 region. <i>Nature Communications</i> , 2012 , 3, 1253	17.4	128
78	Spine growth in the anterior cingulate cortex is necessary for the consolidation of contextual fear memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8456-60	11.5	127
77	Disruption of Oligodendrogenesis Impairs Memory Consolidation in Adult Mice. <i>Neuron</i> , 2020 , 105, 150-164.e6	14.9	124
76	Chemogenetic Interrogation of a Brain-wide Fear Memory Network in Mice. <i>Neuron</i> , 2017 , 94, 363-374.e4	13.9	119
75	Neurogenesis-mediated forgetting minimizes proactive interference. <i>Nature Communications</i> , 2016 , 7, 10838	17.4	118
74	Consolidation of CS and US representations in associative fear conditioning. <i>Hippocampus</i> , 2004 , 14, 557-69	3.9	113
73	Memory recall and modifications by activating neurons with elevated CREB. <i>Nature Neuroscience</i> , 2014 , 17, 65-72	25.5	99
72	Optogenetics: 10 years after Chr2 in neurons--views from the community. <i>Nature Neuroscience</i> , 2015 , 18, 1202-12	25.5	98
71	MEF2 negatively regulates learning-induced structural plasticity and memory formation. <i>Nature Neuroscience</i> , 2012 , 15, 1255-64	25.5	96
70	FoxO6 regulates memory consolidation and synaptic function. <i>Genes and Development</i> , 2012 , 26, 2780-801.6	11.6	96
69	The Role of The RNA Demethylase FTO (Fat Mass and Obesity-Associated) and mRNA Methylation in Hippocampal Memory Formation. <i>Neuropsychopharmacology</i> , 2017 , 42, 1502-1510	8.7	88
68	Increasing CREB in the auditory thalamus enhances memory and generalization of auditory conditioned fear. <i>Learning and Memory</i> , 2008 , 15, 443-53	2.8	86
67	Infantile amnesia: a neurogenic hypothesis. <i>Learning and Memory</i> , 2012 , 19, 423-33	2.8	85
66	Neuronal Allocation to a Hippocampal Engram. <i>Neuropsychopharmacology</i> , 2016 , 41, 2987-2993	8.7	85
65	Optimization of CLARITY for Clearing Whole-Brain and Other Intact Organs. <i>ENeuro</i> , 2015 , 2,	3.9	83

64	Patterns across multiple memories are identified over time. <i>Nature Neuroscience</i> , 2014 , 17, 981-6	25.5	82
63	Parvalbumin-positive interneurons mediate neocortical-hippocampal interactions that are necessary for memory consolidation. <i>ELife</i> , 2017 , 6,	8.9	82
62	Continuing the search for the engram: examining the mechanism of fear memories. <i>Journal of Psychiatry and Neuroscience</i> , 2010 , 35, 221-8	4.5	79
61	Neuropeptide Y: intraaccumbens injections produce a place preference that is blocked by cis-flupenthixol. <i>Pharmacology Biochemistry and Behavior</i> , 1993 , 46, 543-52	3.9	79
60	Memory Allocation: Mechanisms and Function. <i>Annual Review of Neuroscience</i> , 2018 , 41, 389-413	17	76
59	Increasing CREB function in the CA1 region of dorsal hippocampus rescues the spatial memory deficits in a mouse model of Alzheimer's disease. <i>Neuropsychopharmacology</i> , 2011 , 36, 2169-86	8.7	75
58	Dorsal hippocampal CREB is both necessary and sufficient for spatial memory. <i>Learning and Memory</i> , 2010 , 17, 280-3	2.8	74
57	Activation of amygdala cholecystokininB receptors potentiates the acoustic startle response in the rat. <i>Journal of Neuroscience</i> , 1997 , 17, 1838-47	6.6	69
56	Increasing CRT1 function in the dentate gyrus during memory formation or reactivation increases memory strength without compromising memory quality. <i>Journal of Neuroscience</i> , 2012 , 32, 17857-68	6.6	68
55	Manipulating a "cocaine engram" in mice. <i>Journal of Neuroscience</i> , 2014 , 34, 14115-27	6.6	66
54	Development of Adult-Generated Cell Connectivity with Excitatory and Inhibitory Cell Populations in the Hippocampus. <i>Journal of Neuroscience</i> , 2015 , 35, 10600-12	6.6	61
53	Memory allocation. <i>Neuropsychopharmacology</i> , 2015 , 40, 243	8.7	52
52	The nucleus accumbens is not critically involved in mediating the effects of a safety signal on behavior. <i>Neuropsychopharmacology</i> , 2005 , 30, 17-26	8.7	52
51	Recovery of "Lost" Infant Memories in Mice. <i>Current Biology</i> , 2018 , 28, 2283-2290.e3	6.3	51
50	Heroes of the Engram. <i>Journal of Neuroscience</i> , 2017 , 37, 4647-4657	6.6	49
49	Ontogeny of contextual fear memory formation, specificity, and persistence in mice. <i>Learning and Memory</i> , 2012 , 19, 598-604	2.8	49
48	Elevation of Hippocampal Neurogenesis Induces a Temporally Graded Pattern of Forgetting of Contextual Fear Memories. <i>Journal of Neuroscience</i> , 2018 , 38, 3190-3198	6.6	47
47	Age-dependent effects of hippocampal neurogenesis suppression on spatial learning. <i>Hippocampus</i> , 2013 , 23, 66-74	3.5	47

46	The neurobiological foundation of memory retrieval. <i>Nature Neuroscience</i> , 2019 , 22, 1576-1585	25.5	46
45	Parvalbumin interneurons constrain the size of the lateral amygdala engram. <i>Neurobiology of Learning and Memory</i> , 2016 , 135, 91-99	3.1	42
44	Memory formation in the absence of experience. <i>Nature Neuroscience</i> , 2019 , 22, 933-940	25.5	41
43	Caution When Diagnosing Your Mouse With Schizophrenia: The Use and Misuse of Model Animals for Understanding Psychiatric Disorders. <i>Biological Psychiatry</i> , 2016 , 79, 32-8	7.9	36
42	p63 Regulates adult neural precursor and newly born neuron survival to control hippocampal-dependent Behavior. <i>Journal of Neuroscience</i> , 2013 , 33, 12569-85	6.6	34
41	A Compact Head-Mounted Endoscope for In Vivo Calcium Imaging in Freely Behaving Mice. <i>Current Protocols in Neuroscience</i> , 2018 , 84, e51	2.7	34
40	CREB regulates spine density of lateral amygdala neurons: implications for memory allocation. <i>Frontiers in Behavioral Neuroscience</i> , 2013 , 7, 209	3.5	33
39	Contextual fear conditioning in zebrafish. <i>Learning and Memory</i> , 2017 , 24, 516-523	2.8	32
38	Entorhinal Cortical Deep Brain Stimulation Rescues Memory Deficits in Both Young and Old Mice Genetically Engineered to Model Alzheimer's Disease. <i>Neuropsychopharmacology</i> , 2017 , 42, 2493-2503	8.7	31
37	Upregulation of Anandamide Hydrolysis in the Basolateral Complex of Amygdala Reduces Fear Memory Expression and Indices of Stress and Anxiety. <i>Journal of Neuroscience</i> , 2019 , 39, 1275-1292	6.6	31
36	Optogenetic Inhibitor of the Transcription Factor CREB. <i>Chemistry and Biology</i> , 2015 , 22, 1531-1539		29
35	Neuronal competition: microcircuit mechanisms define the sparsity of the engram. <i>Current Opinion in Neurobiology</i> , 2019 , 54, 163-170	7.6	29
34	Conditional deletion of β CaMKII impairs integration of adult-generated granule cells into dentate gyrus circuits and hippocampus-dependent learning. <i>Journal of Neuroscience</i> , 2014 , 34, 11919-28	6.6	26
33	What's right with my mouse model? New insights into the molecular and cellular basis of cognition from mouse models of Rubinstein-Taybi Syndrome. <i>Learning and Memory</i> , 2005 , 12, 80-3	2.8	26
32	Age-dependent changes in spatial memory retention and flexibility in mice. <i>Neurobiology of Learning and Memory</i> , 2017 , 143, 59-66	3.1	23
31	Posttraining ablation of adult-generated olfactory granule cells degrades odor-reward memories. <i>Journal of Neuroscience</i> , 2014 , 34, 15793-803	6.6	23
30	Cholinergic control of morphine-induced locomotion in rostromedial tegmental nucleus versus ventral tegmental area sites. <i>European Journal of Neuroscience</i> , 2013 , 38, 2774-85	3.5	23
29	Hippocampal Neurogenesis and Memory Clearance. <i>Neuropsychopharmacology</i> , 2016 , 41, 382-3	8.7	22

28	Prefrontal consolidation supports the attainment of fear memory accuracy. <i>Learning and Memory</i> , 2014 , 21, 394-405	2.8	19
27	Cerebellar abnormalities in purine nucleoside phosphorylase deficient mice. <i>Neurobiology of Disease</i> , 2012 , 47, 201-9	7.5	17
26	Basal variability in CREB phosphorylation predicts trait-like differences in amygdala-dependent memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16645-50	11.5	17
25	Hippocampal clock regulates memory retrieval via Dopamine and PKA-induced GluA1 phosphorylation. <i>Nature Communications</i> , 2019 , 10, 5766	17.4	17
24	Reflections on the past two decades of neuroscience. <i>Nature Reviews Neuroscience</i> , 2020 , 21, 524-534	13.5	15
23	Development and validation of a sensitive entropy-based measure for the water maze. <i>Frontiers in Integrative Neuroscience</i> , 2009 , 3, 33	3.2	14
22	A time-dependent role for the transcription factor CREB in neuronal allocation to an engram underlying a fear memory revealed using a novel in vivo optogenetic tool to modulate CREB function. <i>Neuropsychopharmacology</i> , 2020 , 45, 916-924	8.7	13
21	Forgetting at biologically realistic levels of neurogenesis in a large-scale hippocampal model. <i>Behavioural Brain Research</i> , 2019 , 376, 112180	3.4	10
20	The past, present and future of light-gated ion channels and optogenetics. <i>ELife</i> , 2018 , 7,	8.9	9
19	An inhibitory hippocampal-thalamic pathway modulates remote memory retrieval. <i>Nature Neuroscience</i> , 2021 , 24, 685-693	25.5	9
18	Impaired Recent, but Preserved Remote, Autobiographical Memory in Pediatric Brain Tumor Patients. <i>Journal of Neuroscience</i> , 2018 , 38, 8251-8261	6.6	7
17	Assessing Individual Neuronal Activity Across the Intact Brain: Using Hybridization Chain Reaction (HCR) to Detect Arc mRNA Localized to the Nucleus in Volumes of Cleared Brain Tissue. <i>Current Protocols in Neuroscience</i> , 2018 , 84, e49	2.7	6
16	Reprint of: disrupting Jagged1-Notch signaling impairs spatial memory formation in adult mice. <i>Neurobiology of Learning and Memory</i> , 2013 , 105, 20-30	3.1	5
15	The role of neuronal excitability, allocation to an engram and memory linking in the behavioral generation of a false memory in mice. <i>Neurobiology of Learning and Memory</i> , 2020 , 174, 107284	3.1	5
14	Facing your fears. <i>Science</i> , 2018 , 360, 1186-1187	33.3	4
13	Fear Extinction Requires Reward. <i>Cell</i> , 2018 , 175, 639-640	56.2	4
12	Retinoic acid receptor plays both sides of homeostatic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6528-6530	11.5	3
11	Author response: Parvalbumin-positive interneurons mediate neocortical-hippocampal interactions that are necessary for memory consolidation 2017 ,		3

10	Automated Curation of CNMF-E-Extracted ROI Spatial Footprints and Calcium Traces Using Open-Source AutoML Tools. <i>Frontiers in Neural Circuits</i> , 2020 , 14, 42	3.5	3
9	Starring role for astrocytes in memory. <i>Nature Neuroscience</i> , 2020 , 23, 1181-1182	25.5	3
8	Voluntary Exercise Increases Neurogenesis and Mediates Forgetting of Complex Paired Associates Memories. <i>Neuroscience</i> , 2021 , 475, 1-9	3.9	2
7	The Role of CREB and CREB Co-activators in Memory Formation 2012 , 171-194		1
6	CREB: A Cornerstone of Memory Consolidation? 2005 , 359-380		1
5	Chapter XIII CREB, plasticity and memory. <i>Handbook of Chemical Neuroanatomy</i> , 2002 , 19, 329-361		1
4	Electroconvulsive therapy with a memory reactivation intervention for post-traumatic stress disorder: A randomized controlled trial. <i>Brain Stimulation</i> , 2021 , 14, 635-642	5.1	1
3	Why Have Two When One Will Do? Comparing Task Representations across Amygdala and Prefrontal Cortex in Single Neurons and Neuronal Populations. <i>Neuron</i> , 2020 , 107, 597-599	13.9	0
2	Memory: Ironing Out a Wrinkle in Time. <i>Current Biology</i> , 2018 , 28, R599-R601	6.3	0
1	Using Viral Vectors to Study the Memory Trace in Mice. <i>Neuromethods</i> , 2014 , 137-154	0.4	