Min Whan Jung

List of Publications by Year
in descending order

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87	5,184	94433	98798
papers	citations	37 h-index	67 g-index

93	93	93	6317
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neural circuits and mechanisms involved in Pavlovian fear conditioning: A critical review. Neuroscience and Biobehavioral Reviews, 2006, 30, 188-202.	6.1	494
2	Neural Basis of Reinforcement Learning and Decision Making. Annual Review of Neuroscience, 2012, 35, 287-308.	10.7	388
3	Distinct Roles of Rodent Orbitofrontal and Medial Prefrontal Cortex in Decision Making. Neuron, 2010, 66, 449-460.	8.1	327
4	Role of rodent secondary motor cortex in value-based action selection. Nature Neuroscience, 2011, 14, 1202-1208.	14.8	195
5	Prefrontal cortex and hippocampus subserve different components of working memory in rats. Learning and Memory, 2008, 15, 97-105.	1.3	194
6	Role of Striatum in Updating Values of Chosen Actions. Journal of Neuroscience, 2009, 29, 14701-14712.	3.6	179
7	Social deficits in IRSp53 mutant mice improved by NMDAR and mGluR5 suppression. Nature Neuroscience, 2015, 18, 435-443.	14.8	168
8	Distinct Roles of Parvalbumin- and Somatostatin-Expressing Interneurons in Working Memory. Neuron, 2016, 92, 902-915.	8.1	155
9	Stimulation of NMDA receptors induces proteolysis of spectrin in hippocampus. Brain Research, 1988, 460, 189-194.	2.2	143
10	Neural Correlates of Interval Timing in Rodent Prefrontal Cortex. Journal of Neuroscience, 2013, 33, 13834-13847.	3.6	133
11	Lovastatin enhances AÎ² production and senile plaque deposition in female Tg2576 mice. Neurobiology of Aging, 2003, 24, 637-643.	3.1	131
12	Ginsenoside Rb1 and Rg1 improve spatial learning and increase hippocampal synaptophysin level in mice. Journal of Neuroscience Research, 2001, 63, 509-515.	2.9	127
13	Long-term potentiation of monosynaptic EPSPS in rat piroform cortex in vitro. Synapse, 1990, 6, 279-283.	1.2	120
14	Protective effects of asiaticoside derivatives against beta-amyloid neurotoxicity. Journal of Neuroscience Research, 1999, 58, 417-425.	2.9	113
15	Enhanced Neuronal Activity in the Medial Prefrontal Cortex during Social Approach Behavior. Journal of Neuroscience, 2016, 36, 6926-6936.	3.6	107
16	Stress-induced alterations in hippocampal plasticity, place cells, and spatial memory. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18297-18302.	7.1	106
17	ERK1/2 is an endogenous negative regulator of the Î³secretase activity. FASEB Journal, 2006, 20, 157-159.	0.5	93
18	Sequential Firing Codes for Time in Rodent Medial Prefrontal Cortex. Cerebral Cortex, 2017, 27, 5663-5671.	2.9	81

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19	Human Serum Transthyretin Levels Correlate Inversely with Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 25, 77-84.	2.6	76
20	Enhanced proliferation of progenitor cells following long-term potentiation induction in the rat dentate gyrus. Neurobiology of Learning and Memory, 2006, 86, 322-329.	1.9	75
21	Scopolamine-induced learning impairment reversed by physostigmine in zebrafish. Neuroscience Research, 2010, 67, 156-161.	1.9	74
22	Neuroprotective effects of estrogen against beta-amyloid toxicity are mediated by estrogen receptors in cultured neuronal cells. Neuroscience Letters, 2001, 302, 58-62.	2.1	73
23	Estrogen blocks neurotoxic effects of Î²-amyloid (1â€“42) and induces neurite extension on B103 cells. Neuroscience Letters, 1997, 235, 101-104.	2.1	64
24	Structureâ€“activity relationship study of asiatic acid derivatives against beta amyloid (AÎ²)-induced neurotoxicity. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 119-121.	2.2	64
25	Signals for Previous Goal Choice Persist in the Dorsomedial, but Not Dorsolateral Striatum of Rats. Journal of Neuroscience, 2013, 33, 52-63.	3.6	64
26	Differential coding of reward and movement information in the dorsomedial striatal direct and indirect pathways. Nature Communications, 2018, 9, 404.	12.8	63
27	Effect of orbitofrontal cortex lesions on temporal discounting in rats. Behavioural Brain Research, 2013, 245, 22-28.	2.2	62
28	Amyloid beta peptide directly inhibits PKC activation. Molecular and Cellular Neurosciences, 2004, 26, 222-231.	2.2	60
29	Inactivation of medial prefrontal cortex impairs time interval discrimination in rats. Frontiers in Behavioral Neuroscience, 2009, 3, 38.	2.0	55
30	Blockade of PKCÏµ Activation Attenuates Phorbol Ester-Induced Increase of Î±-Secretase-Derived Secreted Form of Amyloid Precursor Protein. Biochemical and Biophysical Research Communications, 2001, 280, 782-787.	2.1	54
31	Role of active movement in place-specific firing of hippocampal neurons. Hippocampus, 2005, 15, 8-17.	1.9	51
32	Learning-Induced Enduring Changes in Functional Connectivity among Prefrontal Cortical Neurons. Journal of Neuroscience, 2007, 27, 909-918.	3.6	48
33	Neuroprotective Effects of Constituents of the Oriental Crude Drugs, Rhodiola sacra, R. sachalinensis and Tokaku-joki-to, against Beta-amyloid Toxicity, Oxidative Stress and Apoptosis.. Biological and Pharmaceutical Bulletin, 2002, 25, 1101-1104.	1.4	47
34	Variation in Effective Stimulus Patterns for Induction of Long-Term Potentiation Across Different Layers of Rat Entorhinal Cortex. Journal of Neuroscience, 2002, 22, RC214-RC214.	3.6	45
35	Altered long-term potentiation in the hippocampus of apolipoprotein E-deficient mice. Neuroscience Letters, 1998, 249, 71-74.	2.1	39
36	Encoding of Action History in the Rat Ventral Striatum. Journal of Neurophysiology, 2007, 98, 3548-3556.	1.8	39

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37	Functional Relationships between the Hippocampus and Dorsomedial Striatum in Learning a Visual Scene-Based Memory Task in Rats. Journal of Neuroscience, 2014, 34, 15534-15547.	3.6	39
38	Augmentation by zinc of NMDA receptor-mediated synaptic responses in CA1 of rat hippocampal slices: Mediation by Src family tyrosine kinases. Synapse, 2002, 46, 49-56.	1.2	38
39	Plasticity and Memory in the Prefrontal Cortex. Reviews in the Neurosciences, 2008, 19, 29-46.	2.9	38
40	Separation or binding? Role of the dentate gyrus in hippocampal mnemonic processing. Neuroscience and Biobehavioral Reviews, 2017, 75, 183-194.	6.1	36
41	Involvement of calcium-mediated apoptotic signals in H2O2-induced MIN6N8a cell death. European Journal of Pharmacology, 2006, 547, 1-9.	3.5	35
42	Synaptotagmin and synaptic transmission alterations in apolipoprotein E-deficient mice. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 1999, 23, 519-531.	4.8	29
43	Distinct effects of reward and navigation history on hippocampal forward and reverse replays. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 689-697.	7.1	29
44	Somatostatin enhances visual processing and perception by suppressing excitatory inputs to parvalbumin-positive interneurons in V1. Science Advances, 2020, 6, eaaz0517.	10.3	29
45	Relationship among Discharges of Neighboring Neurons in the Rat Prefrontal Cortex During Spatial Working Memory Tasks. Journal of Neuroscience, 2000, 20, 6166-6172.	3.6	28
46	Role of dentate gyrus in aligning internal spatial map to external landmark. Learning and Memory, 2009, 16, 530-536.	1.3	28
47	Model-based reinforcement learning under concurrent schedules of reinforcement in rodents. Learning and Memory, 2009, 16, 315-323.	1.3	27
48	Fear paradigms: The times they are a-changinâ€™. Current Opinion in Behavioral Sciences, 2018, 24, 38-43.	3.9	27
49	Role of dopamine D2 receptors in optimizing choice strategy in a dynamic and uncertain environment. Frontiers in Behavioral Neuroscience, 2014, 8, 368.	2.0	26
50	Cholinergic modulation of synaptic physiology in deep layer entorhinal cortex of the rat. Journal of Neuroscience Research, 2001, 66, 117-121.	2.9	25
51	Spatial organization of functional clusters representing reward and movement information in the striatal direct and indirect pathways. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27004-27015.	7.1	25
52	Zinc Enhances Synthesis of Presenilin 1 in Mouse Primary Cortical Culture. Biochemical and Biophysical Research Communications, 2001, 285, 680-688.	2.1	23
53	Robust and distributed neural representation of action values. ELife, 2021, 10, .	6.0	22
54	Role of the hippocampal CA1 region in incremental value learning. Scientific Reports, 2018, 8, 9870.	3.3	21

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55	Further characteristics of long-term potentiation in piriform cortex. Synapse, 1994, 18, 298-306.	1.2	20
56	Neural Signals Related to Outcome Evaluation Are Stronger in CA1 than CA3. Frontiers in Neural Circuits, 2017, 11, 40.	2.8	19
57	Dynamically changing neuronal activity supporting working memory for predictable and unpredictable durations. Scientific Reports, 2019, 9, 15512.	3.3	19
58	Excitatory synapses and gap junctions cooperate to improve Pv neuronal burst firing and cortical social cognition in Shank2-mutant mice. Nature Communications, 2021, 12, 5116.	12.8	18
59	Distinct roles of striatal direct and indirect pathways in value-based decision making. ELife, 2019, 8, .	6.0	18
60	Neuronal activity in dorsomedial and dorsolateral striatum under the requirement for temporal credit assignment. Scientific Reports, 2016, 6, 27056.	3.3	16
61	Auditory cortex is important in the extinction of two different tone-based conditioned fear memories in rats. Frontiers in Behavioral Neuroscience, 2010, 4, 24.	2.0	15
62	Differential coding of uncertain reward in rat insular and orbitofrontal cortex. Scientific Reports, 2016, 6, 24085.	3.3	15
63	Evidence that changes in spine neck resistance are not responsible for expression of LTP. Synapse, 1991, 7, 216-220.	1.2	14
64	Amyloid precursor protein processing is separately regulated by protein kinase C and tyrosine kinase in human astrocytes. Neuroscience Letters, 2002, 324, 185-188.	2.1	14
65	A computer vision-based automated Figure-8 maze for working memory test in rodents. Journal of Neuroscience Methods, 2006, 156, 10-16.	2.5	14
66	Remembering rewarding futures: A simulationâ€selection model of the hippocampus. Hippocampus, 2018, 28, 913-930.	1.9	14
67	Induction of homosynaptic long-term depression in entorhinal cortex. Brain Research, 2002, 954, 308-310.	2.2	13
68	Selective enhancement of non-NMDA receptor-mediated responses following induction of long-term potentiation in entorhinal cortex. , 2000, 35, 1-7.		12
69	Distinct Dynamics of Striatal and Prefrontal Neural Activity During Temporal Discrimination. Frontiers in Integrative Neuroscience, 2018, 12, 34.	2.1	12
70	Transient effect of mossy fiber stimulation on spatial firing of CA3 neurons. Hippocampus, 2019, 29, 639-651.	1.9	12
71	Haloperidol and clozapine increase neural activity in the rat prefrontal cortex. Neuroscience Letters, 2001, 298, 217-221.	2.1	11
72	LTD induction suppresses LTP-induced hippocampal adult neurogenesis. NeuroReport, 2009, 20, 1279-1283.	1.2	11

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73	Neural activity in mediodorsal nucleus of thalamus in rats performing a working memory task. Frontiers in Neural Circuits, 2013, 7, 128.	2.8	11
74	Parallel processing of working memory and temporal information by distinct types of cortical projection neurons. Nature Communications, 2021, 12, 4352.	12.8	11
75	Lithium attenuates stress-induced impairment of long-term potentiation induction. NeuroReport, 2005, 16, 1605-1608.	1.2	9
76	LTP induction modifies functional relationship among hippocampal neurons. Learning and Memory, 2007, 14, 190-194.	1.3	9
77	Distinct roles of parvalbumin- and somatostatin-expressing neurons in flexible representation of task variables in the prefrontal cortex. Progress in Neurobiology, 2020, 187, 101773.	5.7	9
78	Effects of fictive reward on rat's choice behavior. Scientific Reports, 2015, 5, 8040.	3.3	7
79	Effects of Methamphetamine on Single Unit Activity in Rat Medial Prefrontal Cortex In Vivo. Neural Plasticity, 2007, 2007, 1-9.	2.2	6
80	Effect of dentate gyrus disruption on remembering what happened where. Frontiers in Behavioral Neuroscience, 2015, 9, 170.	2.0	6
81	Active maintenance of eligibility trace in rodent prefrontal cortex. Scientific Reports, 2020, 10, 18860.	3.3	5
82	A role of anterior cingulate cortex in the emergence of workerâ€“parasite relationship. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	3
83	Information transmission by stimulus-dependent modulation of noise correlation. NeuroReport, 2008, 19, 453-457.	1.2	2
84	Stimulus-induced reduction of noise correlation in rat prefrontal cortex. NeuroReport, 2011, 22, 824-829.	1.2	2
85	Cover Image, Volume 28, Issue 12. Hippocampus, 2018, 28, C1-C1.	1.9	1
86	Transient effect of mossy fiber stimulation on spatial firing of CA3 neurons in familiar and novel environments. Hippocampus, 2020, 30, 693-702.	1.9	1
87	Variations in Commissural Input Processing Across Different Types of Cortical Projection Neurons. Cerebral Cortex, 2022, 32, 2508-2520.	2.9	1