

Seung-Hee Lee

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,846
citations

430874

18
h-index

276875

41
g-index

44
all docs

44
docs citations

44
times ranked

3864
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of specific interneurons improves V1 feature selectivity and visual perception. <i>Nature</i> , 2012, 488, 379-383.	27.8	530
2	Neuromodulation of Brain States. <i>Neuron</i> , 2012, 76, 209-222.	8.1	515
3	Fast modulation of visual perception by basal forebrain cholinergic neurons. <i>Nature Neuroscience</i> , 2013, 16, 1857-1863.	14.8	489
4	Distinct Roles of Parvalbumin- and Somatostatin-Expressing Interneurons in Working Memory. <i>Neuron</i> , 2016, 92, 902-915.	8.1	155
5	Cell type-specific long-range connections of basal forebrain circuit. <i>ELife</i> , 2016, 5, .	6.0	119
6	Selectivity of Neuromodulatory Projections from the Basal Forebrain and Locus Ceruleus to Primary Sensory Cortices. <i>Journal of Neuroscience</i> , 2016, 36, 5314-5327.	3.6	103
7	Interneuron subtypes and orientation tuning. <i>Nature</i> , 2014, 508, E1-E2.	27.8	96
8	A Neural Circuit for Auditory Dominance over Visual Perception. <i>Neuron</i> , 2017, 93, 940-954.e6.	8.1	89
9	Bottom-up and top-down modulation of multisensory integration. <i>Current Opinion in Neurobiology</i> , 2018, 52, 115-122.	4.2	69
10	Cofilin expression induces cofilin-actin rod formation and disrupts synaptic structure and function in <i>Aplysia</i> synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16072-16077.	7.1	65
11	Neural Circuits for Goal-Directed Sensorimotor Transformations. <i>Trends in Neurosciences</i> , 2019, 42, 66-77.	8.6	60
12	The role of neuropeptide somatostatin in the brain and its application in treating neurological disorders. <i>Experimental and Molecular Medicine</i> , 2021, 53, 328-338.	7.7	54
13	Nuclear Translocation of CAM-Associated Protein Activates Transcription for Long-Term Facilitation in <i>Aplysia</i> . <i>Cell</i> , 2007, 129, 801-812.	28.9	50
14	Identification of a serotonin receptor coupled to adenylyl cyclase involved in learning-related heterosynaptic facilitation in <i>Aplysia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14634-14639.	7.1	48
15	Microglial MERTK eliminates phosphatidylserine displaying inhibitory postsynapses. <i>EMBO Journal</i> , 2021, 40, e107121.	7.8	43
16	Function of Selective Neuromodulatory Projections in the Mammalian Cerebral Cortex: Comparison Between Cholinergic and Noradrenergic Systems. <i>Frontiers in Neural Circuits</i> , 2018, 12, 47.	2.8	36
17	Precise Mapping of Single Neurons by Calibrated 3D Reconstruction of Brain Slices Reveals Topographic Projection in Mouse Visual Cortex. <i>Cell Reports</i> , 2020, 31, 107682.	6.4	32
18	Somatostatin enhances visual processing and perception by suppressing excitatory inputs to parvalbumin-positive interneurons in V1. <i>Science Advances</i> , 2020, 6, eaaz0517.	10.3	29

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19	An Aplysia Type 4 Phosphodiesterase Homolog Localizes at the Presynaptic Terminals of Aplysia Neuron and Regulates Synaptic Facilitation. <i>Journal of Neuroscience</i> , 2005, 25, 9037-9045.	3.6	27
20	The LIM protein complex establishes a retinal circuitry of visual adaptation by regulating Pax6 β -enhancer activity. <i>ELife</i> , 2017, 6, .	6.0	20
21	Gated feedforward inhibition in the frontal cortex releases goal-directed action. <i>Nature Neuroscience</i> , 2021, 24, 1452-1464.	14.8	19
22	Aggregate formation and the impairment of long-term synaptic facilitation by ectopic expression of mutant huntingtin in <i>Aplysia</i> neurons. <i>Journal of Neurochemistry</i> , 2003, 85, 160-169.	3.9	14
23	Regulation of neuritogenesis and synaptic transmission by msec7a1, a guanine nucleotide exchange factor, in cultured <i>Aplysia</i> neurons. <i>Journal of Neurochemistry</i> , 2003, 85, 282-285.	3.9	14
24	Learning-Related Synaptic Growth Mediated by Internalization of <i>Aplysia</i> Cell Adhesion Molecule Is Controlled by Membrane Phosphatidylinositol 4,5-Bisphosphate Synthetic Pathway. <i>Journal of Neuroscience</i> , 2012, 32, 16296-16305.	3.6	13
25	The effect of brain-derived neurotrophic factor on neuritogenesis and synaptic plasticity in <i>Aplysia</i> neurons and the hippocampal cell line HiB5. <i>Molecules and Cells</i> , 2003, 15, 233-9.	2.6	13
26	Responsibility and risk: accounts of reasons for seeking an HIV test. <i>Sociology of Health and Illness</i> , 2008, 30, 167-181.	2.1	12
27	Detection of TrkB Receptors Distributed in Cultured Hippocampal Neurons through Bioconjugation between Highly Luminescent (Quantum Dot-Neutravidin) and (Biotinylated Anti-TrkB Antibody) on Neurons by Combined Atomic Force Microscope and Confocal Laser Scanning Microscope. <i>Bioconjugate Chemistry</i> , 2010, 21, 597-603.	3.6	11
28	Hydrogen peroxide modulates K ⁺ ion currents in cultured <i>Aplysia</i> sensory neurons. <i>Brain Research</i> , 2003, 970, 159-168.	2.2	9
29	NGL-1/LRRC4C-Mutant Mice Display Hyperactivity and Anxiolytic-Like Behavior Associated With Widespread Suppression of Neuronal Activity. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 250.	2.9	9
30	Neuronal RNA granule contains ApCPEB1, a novel cytoplasmic polyadenylation element binding protein, in <i>Aplysia</i> sensory neuron. <i>Experimental and Molecular Medicine</i> , 2010, 42, 30.	7.7	8
31	Functional dissection of inhibitory microcircuits in the visual cortex. <i>Neuroscience Research</i> , 2017, 116, 70-76.	1.9	7
32	3D Ultrastructure of Synaptic Inputs to Distinct GABAergic Neurons in the Mouse Primary Visual Cortex. <i>Cerebral Cortex</i> , 2021, 31, 2610-2624.	2.9	7
33	Conformational and functional changes of the native neuropeptide somatostatin occur in the presence of copper and amyloid- β . <i>Nature Chemistry</i> , 2022, 14, 1021-1030.	13.6	7
34	The role of cell adhesion molecules (CAMs) in defining synapse-specific function and plasticity. <i>Animal Cells and Systems</i> , 2013, 17, 1-6.	2.2	5
35	Dual roles of the N-terminal coiled-coil domain of an <i>Aplysia</i> sec7 protein: homodimer formation and nuclear export. <i>Journal of Neurochemistry</i> , 2016, 139, 1102-1112.	3.9	5
36	Presynaptic Structure of <i>Aplysia</i> Single Live Neuron by Atomic Force and Confocal Laser Scanning Microscope. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4779-4788.	2.6	4

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37	Multi-wavelength light emitting diode-based disposable optrode array for in vivo optogenetic modulation. <i>Journal of Biophotonics</i> , 2019, 12, e201800343.	2.3	4
38	Thiol oxidation-mediated cell death in <i>Aplysia</i> cultured sensory neurons. <i>Brain Research</i> , 2004, 1007, 71-77.	2.2	3
39	ApCPEB4, a non-prion domain containing homolog of ApCPEB, is involved in the initiation of long-term facilitation. <i>Molecular Brain</i> , 2016, 9, 91.	2.6	3