Suk-Ho Lee

List of Publications by Year
in descending order

62 papers	2,443 citations	257450 24 h-index	214800 47 g-index
65 all docs	65 docs citations	65 times ranked	3208 citing authors

#	Article	IF	Citations
1	Voltage-gated calcium channels contribute to spontaneous glutamate release directly via nanodomain coupling or indirectly via calmodulin. Progress in Neurobiology, 2022, 208, 102182.	5.7	9
2	Gradual decorrelation of <scp>CA3</scp> ensembles associated with contextual discrimination learning is impaired by Kv1.2 insufficiency. Hippocampus, 2022, 32, 193-216.	1.9	9
3	Interâ€spike mitochondrial Ca²⁺ release enhances high frequency synaptic transmission. Journal of Physiology, 2021, 599, 1567-1594.	2.9	9
4	Impaired pattern separation in Tg2576 mice is associated with hyperexcitable dentate gyrus caused by Kv4.1 downregulation. Molecular Brain, 2021, 14, 62.	2.6	15
5	Calbindin regulates Kv4.1 trafficking and excitability in dentate granule cells via CaMKII-dependent phosphorylation. Experimental and Molecular Medicine, 2021, 53, 1134-1147.	7.7	2
6	Postnatal maturation of glutamate clearance and release kinetics at the rat and mouse calyx of Held synapses. Synapse, 2021, 75, e22215.	1.2	4
7	Disparities in Short-Term Depression Among Prefrontal Cortex Synapses Sustain Persistent Activity in a Balanced Network. Cerebral Cortex, 2020, 30, 113-134.	2.9	5
8	Somatostatin enhances visual processing and perception by suppressing excitatory inputs to parvalbumin-positive interneurons in V1. Science Advances, 2020, 6, eaaz0517.	10.3	29
9	Kv4.1, a Key Ion Channel For Low Frequency Firing of Dentate Granule Cells, Is Crucial for Pattern Separation. Journal of Neuroscience, 2020, 40, 2200-2214.	3.6	20
10	Intracellular Zn²⁺Signaling Facilitates Mossy Fiber Input-Induced Heterosynaptic Potentiation of Direct Cortical Inputs in Hippocampal CA3 Pyramidal Cells. Journal of Neuroscience, 2019, 39, 3812-3831.	3.6	15
11	Association of mGluR-Dependent LTD of Excitatory Synapses with Endocannabinoid-Dependent LTD of Inhibitory Synapses Leads to EPSP to Spike Potentiation in CA1 Pyramidal Neurons. Journal of Neuroscience, 2019, 39, 224-237.	3.6	14
12	Endocytosis of KATP Channels Drives Glucose-Stimulated Excitation of Pancreatic Î² Cells. Cell Reports, 2018, 22, 471-481.	6.4	16
13	Enhancement of dendritic persistent Na+ currents by mGluR5 leads to an advancement of spike timing with an increase in temporal precision. Molecular Brain, 2018, 11, 67.	2.6	7
14	Dendritic spikes in hippocampal granule cells are necessary for long-term potentiation at the perforant path synapse. ELife, 2018, 7, .	6.0	24
15	Kv1.2 mediates heterosynaptic modulation of direct cortical synaptic inputs in CA3 pyramidal cells. Journal of Physiology, 2015, 593, 3617-3643.	2.9	19
16	Bidirectional Signaling of Neuregulin-2 Mediates Formation of GABAergic Synapses and Maturation of Glutamatergic Synapses in Newborn Granule Cells of Postnatal Hippocampus. Journal of Neuroscience, 2015, 35, 16479-16493.	3.6	20
17	Ca2+ clearance by plasmalemmal NCLX, Li+-permeable Na+/Ca2+ exchanger, is required for the sustained exocytosis in rat insulinoma INS-1 cells. Pflugers Archiv European Journal of Physiology, 2015, 467, 2461-2472.	2.8	6
18	Rac-mediated actin remodeling and myosin II are involved in KATP channel trafficking in pancreatic Î²-cells. Experimental and Molecular Medicine, 2015, 47, e190-e190.	7.7	11

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19	Costimulation of AMPA and Metabotropic Glutamate Receptors Underlies Phospholipase C Activation by Glutamate in Hippocampus. Journal of Neuroscience, 2015, 35, 6401-6412.	3.6	20
20	Developmental upregulation of presynaptic NCKX underlies the decrease of mitochondria-dependent posttetanic potentiation at the rat calyx of Held synapse. Journal of Neurophysiology, 2013, 109, 1724-1734.	1.8	6
21	Superpriming of synaptic vesicles after their recruitment to the readily releasable pool. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15079-15084.	7.1	78
22	Activityâ€dependent downregulation of Dâ€type K⁺ channel subunit Kv1.2 in rat hippocampal CA3 pyramidal neurons. Journal of Physiology, 2013, 591, 5525-5540.	2.9	42
23	Leptin promotes K _{ATP} channel trafficking by AMPK signaling in pancreatic Î²-cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12673-12678.	7.1	69
24	Endocytosis of somatodendritic NCKX2 is regulated by Src family kinase-dependent tyrosine phosphorylation. Frontiers in Cellular Neuroscience, 2013, 7, 14.	3.7	11
25	Actin-dependent rapid recruitment of reluctant synaptic vesicles into a fast-releasing vesicle pool. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E765-74.	7.1	85
26	KIF21A-Mediated Axonal Transport and Selective Endocytosis Underlie the Polarized Targeting of NCKX2. Journal of Neuroscience, 2012, 32, 4102-4117.	3.6	35
27	Impaired Short-Term Plasticity in Mossy Fiber Synapses Caused by Mitochondrial Dysfunction of Dentate Granule Cells Is the Earliest Synaptic Deficit in a Mouse Model of Alzheimer's Disease. Journal of Neuroscience, 2012, 32, 5953-5963.	3.6	71
28	GABA mediates the network activityâ€dependent facilitation of axonal outgrowth from the newborn granule cells in the early postnatal rat hippocampus. European Journal of Neuroscience, 2012, 36, 2743-2752.	2.6	10
29	Cyclic ADP Ribose-Dependent Ca2+ Release by Group I Metabotropic Glutamate Receptors in Acutely Dissociated Rat Hippocampal Neurons. PLoS ONE, 2011, 6, e26625.	2.5	10
30	Sustained CaMKII activity mediates transient oxidative stress-induced long-term facilitation of L-type Ca2+ current in cardiomyocytes. Free Radical Biology and Medicine, 2011, 51, 1708-1716.	2.9	17
31	Prolonged Membrane Depolarization Enhances Midbrain Dopamine Neuron Differentiation via Epigenetic Histone Modifications. Stem Cells, 2011, 29, 1861-1873.	3.2	52
32	Protein-based human iPS cells efficiently generate functional dopamine neurons and can treat a rat model of Parkinson disease. Journal of Clinical Investigation, 2011, 121, 2326-2335.	8.2	211
33	Post-tetanic increase in the fast-releasing synaptic vesicle pool at the expense of the slowly releasing pool. Journal of General Physiology, 2010, 136, 259-272.	1.9	43
34	Functional Recapitulation of Smooth Muscle Cells Via Induced Pluripotent Stem Cells From Human Aortic Smooth Muscle Cells. Circulation Research, 2010, 106, 120-128.	4.5	100
35	L-type Ca2+ channel facilitation mediated by H2O2-induced activation of CaMKII in rat ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2010, 48, 773-780.	1.9	53
36	Glucose Deprivation Regulates KATPChannel Trafficking via AMP-Activated Protein Kinase in Pancreatic Î²-Cells. Diabetes, 2009, 58, 2813-2819.	0.6	71

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37	Characterization of somatic Ca2+ clearance mechanisms in young and mature hippocampal granule cells. Cell Calcium, 2009, 45, 465-473.	2.4	22
38	Presynaptic Release Probability and Readily Releasable Pool Size Are Regulated by Two Independent Mechanisms during Posttetanic Potentiation at the Calyx of Held Synapse. Journal of Neuroscience, 2008, 28, 7945-7953.	3.6	72
39	Target Cell-Specific Involvement of Presynaptic Mitochondria in Post-Tetanic Potentiation at Hippocampal Mossy Fiber Synapses. Journal of Neuroscience, 2007, 27, 13603-13613.	3.6	70
40	Activation of NMDA receptors increases proliferation and differentiation of hippocampal neural progenitor cells. Journal of Cell Science, 2007, 120, 1358-1370.	2.0	86
41	Receptor-specific inhibition of GABAB-activated K+currents by muscarinic and metabotropic glutamate receptors in immature rat hippocampus. Journal of Physiology, 2007, 580, 411-422.	2.9	46
42	Decrease in PIP2-channel interactions is the final common mechanism involved in PKC- and arachidonic acid-mediated inhibitions of GABAB-activated K+current. Journal of Physiology, 2007, 582, 1037-1046.	2.9	26
43	Postnatal developmental changes in Ca2+ homeostasis in supraoptic magnocellular neurons. Cell Calcium, 2007, 41, 441-450.	2.4	17
44	Na+/Ca2+ Exchange and Ca2+ Homeostasis in Axon Terminals of Mammalian Central Neurons. Annals of the New York Academy of Sciences, 2007, 1099, 396-412.	3.8	10
45	Ionic Selectivity of NCKX2, NCKX3, and NCKX4 for Monovalent Cations at K+-Binding Site. Annals of the New York Academy of Sciences, 2007, 1099, 166-170.	3.8	4
46	Hydrogen peroxide selectively increases TREK-2 currents via myosin light chain kinases. Frontiers in Bioscience - Landmark, 2007, 12, 1642.	3.0	14
47	Dimethyl Lithospermate B, an Extract of Danshen, Suppresses Arrhythmogenesis Associated With the Brugada Syndrome. Circulation, 2006, 113, 1393-1400.	1.6	93
48	Protein Kinase C-dependent Enhancement of Activity of Rat Brain NCKX2 Heterologously Expressed in HEK293 Cells. Journal of Biological Chemistry, 2006, 281, 39205-39216.	3.4	17
49	Interplay between Na+/Ca2+ Exchangers and Mitochondria in Ca2+ Clearance at the Calyx of Held. Journal of Neuroscience, 2005, 25, 6057-6065.	3.6	120
50	Generation of metabolic oscillations by mitoKATP and ATP synthase during simulated ischemia in ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2005, 39, 874-881.	1.9	18
51	A novel Na+ channel agonist, dimethyl lithospermate B, slows Na+ current inactivation and increases action potential duration in isolated rat ventricular myocytes. British Journal of Pharmacology, 2004, 143, 765-773.	5.4	19
52	Li+ enhances GABAergic inputs to granule cells in the rat hippocampal dentate gyrus. Neuropharmacology, 2004, 46, 638-646.	4.1	9
53	Role of K⁺ Channels in Frequency Regulation of Spontaneous Action Potentials in Rat Pituitary GH₃Cells. Neuroendocrinology, 2003, 78, 260-269.	2.5	10
54	Distribution of K⁺-Dependent Na⁺/Ca²⁺Exchangers in the Rat Supraoptic Magnocellular Neuron Is Polarized to Axon Terminals. Journal of Neuroscience, 2003, 23, 11673-11680.	3.6	43

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55	K⁺-Dependent Na⁺/Ca²⁺Exchange Is a Major Ca²⁺Clearance Mechanism in Axon Terminals of Rat Neurohypophysis. Journal of Neuroscience, 2002, 22, 6891-6899.	3.6	69
56	Intracellular Mg 2+ hyperpolarizes rabbit coronary artery smooth muscle cells by differential modulation of Ca 2+ i -dependent ion channels. Pflugers Archiv European Journal of Physiology, 2002, 444, 523-531.	2.8	6
57	Monitoring of ANP secretion from single atrial myocytes using densitometry. Pflugers Archiv European Journal of Physiology, 2002, 444, 568-577.	2.8	10
58	Ca2+i-dependent membrane currents in vascular smooth muscle cells of the rabbit. Life Sciences, 2001, 69, 2451-2466.	4.3	3
59	Stretchâ€activated and background nonâ€selective cation channels in rat atrial myocytes. Journal of Physiology, 2000, 523, 607-619.	2.9	107
60	Kinetics of Ca²⁺ binding to parvalbumin in bovine chromaffin cells: implications for [Ca²⁺] transients of neuronal dendrites. Journal of Physiology, 2000, 525, 419-432.	2.9	157
61	Differences in Ca 2+ buffering properties between excitatory and inhibitory hippocampal neurons from the rat. Journal of Physiology, 2000, 525, 405-418.	2.9	120
62	NADH and NAD modulates Ca2+-activated K+ channels in small pulmonary arterial smooth muscle cells of the rabbit. Pflugers Archiv European Journal of Physiology, 1994, 427, 378-380.	2.8	56