

Byungkook K Lim

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

6,193
citations

147801

31
h-index

254184

43
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51
all docs

51
docs citations

51
times ranked

8230
citing authors

#	ARTICLE	IF	CITATIONS
1	Input-specific control of reward and aversion in the ventral tegmental area. <i>Nature</i> , 2012, 491, 212-217.	27.8	1,062
2	Reward and aversion in a heterogeneous midbrain dopamine system. <i>Neuropharmacology</i> , 2014, 76, 351-359.	4.1	606
3	Diverging neural pathways assemble a behavioural state from separable features in anxiety. <i>Nature</i> , 2013, 496, 219-223.	27.8	543
4	Autism-Associated Neuroligin-3 Mutations Commonly Impair Striatal Circuits to Boost Repetitive Behaviors. <i>Cell</i> , 2014, 158, 198-212.	28.9	397
5	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021, 598, 86-102.	27.8	316
6	Anhedonia requires MC4R-mediated synaptic adaptations in nucleus accumbens. <i>Nature</i> , 2012, 487, 183-189.	27.8	311
7	Protection of tissue physicochemical properties using polyfunctional crosslinkers. <i>Nature Biotechnology</i> , 2019, 37, 73-83.	17.5	262
8	Decreased motivation during chronic pain requires long-term depression in the nucleus accumbens. <i>Science</i> , 2014, 345, 535-542.	12.6	233
9	Local and Long-Range Reciprocal Regulation of cAMP and cGMP in Axon/Dendrite Formation. <i>Science</i> , 2010, 327, 547-552.	12.6	229
10	Distinct Ventral Pallidal Neural Populations Mediate Separate Symptoms of Depression. <i>Cell</i> , 2017, 170, 284-297.e18.	28.9	206
11	Semaphorin3A Regulates Neuronal Polarization by Suppressing Axon Formation and Promoting Dendrite Growth. <i>Neuron</i> , 2011, 71, 433-446.	8.1	182
12	The mouse cortico-basal ganglia-thalamic network. <i>Nature</i> , 2021, 598, 188-194.	27.8	126
13	Elevated BDNF after Cocaine Withdrawal Facilitates LTP in Medial Prefrontal Cortex by Suppressing GABA Inhibition. <i>Neuron</i> , 2010, 67, 821-833.	8.1	118
14	Cellular anatomy of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 159-166.	27.8	117
15	Input- and Output-Specific Regulation of Serial Order Performance by Corticostriatal Circuits. <i>Neuron</i> , 2015, 88, 345-356.	8.1	108
16	The Claustrum Supports Resilience to Distraction. <i>Current Biology</i> , 2018, 28, 2752-2762.e7.	3.9	105
17	Chronic Stress Induces Activity, Synaptic, and Transcriptional Remodeling of the Lateral Habenula Associated with Deficits in Motivated Behaviors. <i>Neuron</i> , 2019, 104, 899-915.e8.	8.1	103
18	Ephrin-B reverse signaling promotes structural and functional synaptic maturation in vivo. <i>Nature Neuroscience</i> , 2008, 11, 160-169.	14.8	98

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19	Drd3 Signaling in the Lateral Septum Mediates Early Life Stress-Induced Social Dysfunction. <i>Neuron</i> , 2018, 97, 195-208.e6.	8.1	85
20	Voluntary urination control by brainstem neurons that relax the urethral sphincter. <i>Nature Neuroscience</i> , 2018, 21, 1229-1238.	14.8	72
21	Specific populations of basal ganglia output neurons target distinct brain stem areas while collateralizing throughout the diencephalon. <i>Neuron</i> , 2021, 109, 1721-1738.e4.	8.1	72
22	Npas1 ⁺ -Nkx2.1 ⁺ Neurons Are an Integral Part of the Cortico-pallido-cortical Loop. <i>Journal of Neuroscience</i> , 2020, 40, 743-768.	3.6	71
23	Posterior amygdala regulates sexual and aggressive behaviors in male mice. <i>Nature Neuroscience</i> , 2020, 23, 1111-1124.	14.8	61
24	Circuit-based frameworks of depressive behaviors: The role of reward circuitry and beyond. <i>Pharmacology Biochemistry and Behavior</i> , 2018, 174, 42-52.	2.9	59
25	Pain modulates dopamine neurons via a spinal "parabrachial" mesencephalic circuit. <i>Nature Neuroscience</i> , 2021, 24, 1402-1413.	14.8	52
26	Activation of Pedunculopontine Glutamate Neurons Is Reinforcing. <i>Journal of Neuroscience</i> , 2017, 37, 38-46.	3.6	47
27	Cocaine-Induced Structural Plasticity in Input Regions to Distinct Cell Types in Nucleus Accumbens. <i>Biological Psychiatry</i> , 2018, 84, 893-904.	1.3	47
28	Cocaine Exposure <i>In Utero</i> Alters Synaptic Plasticity in the Medial Prefrontal Cortex of Postnatal Rats. <i>Journal of Neuroscience</i> , 2009, 29, 12664-12674.	3.6	46
29	Flexible scaling and persistence of social vocal communication. <i>Nature</i> , 2021, 593, 108-113.	27.8	45
30	Divergent pallidal pathways underlying distinct Parkinsonian behavioral deficits. <i>Nature Neuroscience</i> , 2021, 24, 504-515.	14.8	44
31	Ventral pallidum DRD3 potentiates a pallido-habenular circuit driving accumbal dopamine release and cocaine seeking. <i>Neuron</i> , 2021, 109, 2165-2182.e10.	8.1	41
32	Corticostriatal Flow of Action Selection Bias. <i>Neuron</i> , 2019, 104, 1126-1140.e6.	8.1	40
33	Recurrent circuits within medial entorhinal cortex superficial layers support grid cell firing. <i>Nature Communications</i> , 2018, 9, 3701.	12.8	38
34	The ATP-dependent CodWX (HslVU) protease in <i>Bacillus subtilis</i> is an N-terminal serine protease. <i>EMBO Journal</i> , 2001, 20, 734-742.	7.8	36
35	Learning binds new inputs into functional synaptic clusters via spinogenesis. <i>Nature Neuroscience</i> , 2022, 25, 726-737.	14.8	34
36	Unexpected Ca ²⁺ -binding properties of synaptotagmin 9. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2554-2559.	7.1	33

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37	Striatal Direct Pathway Targets Npas1 ⁺ Pallidal Neurons. <i>Journal of Neuroscience</i> , 2021, 41, 3966-3987.	3.6	31
38	Region-Specific Contribution of Ephrin-B and Wnt Signaling to Receptive Field Plasticity in Developing Optic Tectum. <i>Neuron</i> , 2010, 65, 899-911.	8.1	30
39	Molecular architecture of the ATP-dependent CodWX protease having an N-terminal serine active site. <i>EMBO Journal</i> , 2003, 22, 2893-2902.	7.8	20
40	Crystal structure of <i>Bacillus subtilis</i> CodW, a noncanonical HslV-like peptidase with an impaired catalytic apparatus. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 1020-1026.	2.6	8
41	Activation of Pedunculopontine Glutamate Neurons Is Reinforcing. <i>Journal of Neuroscience</i> , 2017, 37, 38-46.	3.6	8
42	Interhemispheric Cortico-Cortical Pathway for Sequential Bimanual Movements in Mice. <i>ENeuro</i> , 2021, 8, ENEURO.0200-21.2021.	1.9	2
43	Thalamic Retrieval of Opioid Memories. <i>Neuron</i> , 2020, 107, 992-994.	8.1	1
44	Enhanced AMPA Receptor Trafficking Mediates the Anorexigenic Effect of Endogenous Glucagon Like Peptide-1 in the Paraventricular Hypothalamus. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1