

Dae-Gun Kim

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74
papers

4,805
citations

34
h-index

69
g-index

78
ext. papers

5,760
ext. citations

13
avg, IF

4.9
L-index

#	Paper	IF	Citations
74	Autistic-like social behaviour in Shank2-mutant mice improved by restoring NMDA receptor function. <i>Nature</i> , 2012 , 486, 261-5	50.4	467
73	Lack of the burst firing of thalamocortical relay neurons and resistance to absence seizures in mice lacking alpha(1G) T-type Ca(2+) channels. <i>Neuron</i> , 2001 , 31, 35-45	13.9	441
72	GABA from reactive astrocytes impairs memory in mouse models of Alzheimer's disease. <i>Nature Medicine</i> , 2014 , 20, 886-96	50.5	390
71	Brain somatic mutations in MTOR cause focal cortical dysplasia type II leading to intractable epilepsy. <i>Nature Medicine</i> , 2015 , 21, 395-400	50.5	300
70	Exosome engineering for efficient intracellular delivery of soluble proteins using optically reversible protein-protein interaction module. <i>Nature Communications</i> , 2016 , 7, 12277	17.4	287
69	Phospholipase C isozymes selectively couple to specific neurotransmitter receptors. <i>Nature</i> , 1997 , 389, 290-3	50.4	261
68	Thalamic control of visceral nociception mediated by T-type Ca ²⁺ channels. <i>Science</i> , 2003 , 302, 117-9	33.3	194
67	PLC-beta1, activated via mGluRs, mediates activity-dependent differentiation in cerebral cortex. <i>Nature Neuroscience</i> , 2001 , 4, 282-8	25.5	187
66	Self-powered deep brain stimulation via a flexible PIMNT energy harvester. <i>Energy and Environmental Science</i> , 2015 , 8, 2677-2684	35.4	156
65	Lack of delta waves and sleep disturbances during non-rapid eye movement sleep in mice lacking alpha1G-subunit of T-type calcium channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 18195-9	11.5	150
64	Role of the alpha1G T-type calcium channel in spontaneous absence seizures in mutant mice. <i>Journal of Neuroscience</i> , 2004 , 24, 5249-57	6.6	115
63	Social deficits in IRSp53 mutant mice improved by NMDAR and mGluR5 suppression. <i>Nature Neuroscience</i> , 2015 , 18, 435-43	25.5	112
62	Optogenetic control of endogenous Ca(2+) channels in vivo. <i>Nature Biotechnology</i> , 2015 , 33, 1092-6	44.5	108
61	GIT1 is associated with ADHD in humans and ADHD-like behaviors in mice. <i>Nature Medicine</i> , 2011 , 17, 566-72	50.5	106
60	Ca(V)3.1 is a tremor rhythm pacemaker in the inferior olive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10731-6	11.5	104
59	Light-inducible receptor tyrosine kinases that regulate neurotrophin signalling. <i>Nature Communications</i> , 2014 , 5, 4057	17.4	96
58	Group I metabotropic glutamate receptors elicit epileptiform discharges in the hippocampus through PLCbeta1 signaling. <i>Journal of Neuroscience</i> , 2001 , 21, 6387-94	6.6	75

57	Monolithic Flexible Vertical GaN Light-Emitting Diodes for a Transparent Wireless Brain Optical Stimulator. <i>Advanced Materials</i> , 2018 , 30, e1800649	24	64
56	Genetic dissection of theta rhythm heterogeneity in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 18165-70	11.5	62
55	Comparative three-dimensional connectome map of motor cortical projections in the mouse brain. <i>Scientific Reports</i> , 2016 , 6, 20072	4.9	55
54	Trichogenic Photostimulation Using Monolithic Flexible Vertical AlGaInP Light-Emitting Diodes. <i>ACS Nano</i> , 2018 , 12, 9587-9595	16.7	51
53	The amount of astrocytic GABA positively correlates with the degree of tonic inhibition in hippocampal CA1 and cerebellum. <i>Molecular Brain</i> , 2011 , 4, 42	4.5	51
52	Inhibitory Basal Ganglia Inputs Induce Excitatory Motor Signals in the Thalamus. <i>Neuron</i> , 2017 , 95, 1181-1196.e80	13.9	50
51	Rapid, biphasic CRF neuronal responses encode positive and negative valence. <i>Nature Neuroscience</i> , 2019 , 22, 576-585	25.5	49
50	Medial preoptic circuit induces hunting-like actions to target objects and prey. <i>Nature Neuroscience</i> , 2018 , 21, 364-372	25.5	49
49	Severe reactive astrocytes precipitate pathological hallmarks of Alzheimer's disease via HO production. <i>Nature Neuroscience</i> , 2020 , 23, 1555-1566	25.5	49
48	Conditional ablation of LYVE-1+ cells unveils defensive roles of lymphatic vessels in intestine and lymph nodes. <i>Blood</i> , 2013 , 122, 2151-61	2.2	48
47	Subthreshold membrane potential oscillations in inferior olive neurons are dynamically regulated by P/Q- and T-type calcium channels: a study in mutant mice. <i>Journal of Physiology</i> , 2010 , 588, 3031-43	3.9	47
46	Optogenetic control of body movements via flexible vertical light-emitting diodes on brain surface. <i>Nano Energy</i> , 2018 , 44, 447-455	17.1	43
45	Expression, localization and functions in acrosome reaction and sperm motility of Ca(V)3.1 and Ca(V)3.2 channels in sperm cells: an evaluation from Ca(V)3.1 and Ca(V)3.2 deficient mice. <i>Journal of Cellular Physiology</i> , 2007 , 212, 753-63	7	42
44	Beta-lapachone, a modulator of NAD metabolism, prevents health declines in aged mice. <i>PLoS ONE</i> , 2012 , 7, e47122	3.7	42
43	Biophysical and pharmacological characterization of spermatogenic T-type calcium current in mice lacking the CaV3.1 (alpha1G) calcium channel: CaV3.2 (alpha1H) is the main functional calcium channel in wild-type spermatogenic cells. <i>Journal of Cellular Physiology</i> , 2004 , 200, 116-24	7	40
42	Sevoflurane exposure during the neonatal period induces long-term memory impairment but not autism-like behaviors. <i>Paediatric Anaesthesia</i> , 2015 , 25, 1033-45	1.8	38
41	Medial septal GABAergic projection neurons promote object exploration behavior and type 2 theta rhythm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6550-5	11.5	35
40	Optogenetic Mapping of Functional Connectivity in Freely Moving Mice via Insertable Wrapping Electrode Array Beneath the Skull. <i>ACS Nano</i> , 2016 , 10, 2791-802	16.7	34

39	Flexible wireless powered drug delivery system for targeted administration on cerebral cortex. <i>Nano Energy</i> , 2018 , 51, 102-112	17.1	28
38	PTEN modulates miR-21 processing via RNA-regulatory protein RNH1. <i>PLoS ONE</i> , 2011 , 6, e28308	3.7	27
37	Acetylcholine-induced phosphatidylinositol 4,5-bisphosphate depletion does not cause short-term desensitization of G protein-gated inwardly rectifying K ⁺ current in mouse atrial myocytes. <i>Journal of Biological Chemistry</i> , 2002 , 277, 27742-7	5.4	26
36	Downregulation of Wnt/ β -catenin signaling causes degeneration of hippocampal neurons in vivo. <i>Neurobiology of Aging</i> , 2011 , 32, 2316.e1-15	5.6	25
35	Thalamic T-type Ca ²⁺ channels mediate frontal lobe dysfunctions caused by a hypoxia-like damage in the prefrontal cortex. <i>Journal of Neuroscience</i> , 2011 , 31, 4063-73	6.6	25
34	Optogenetic brain neuromodulation by stray magnetic field via flash-enhanced magneto-mechano-triboelectric nanogenerator. <i>Nano Energy</i> , 2020 , 75, 104951	17.1	23
33	Left brain cortical activity modulates stress effects on social behavior. <i>Scientific Reports</i> , 2015 , 5, 13342	4.9	23
32	Loss of Adenylyl Cyclase Type-5 in the Dorsal Striatum Produces Autistic-Like Behaviors. <i>Molecular Neurobiology</i> , 2017 , 54, 7994-8008	6.2	20
31	Proteomic analysis of gamma-butyrolactone-treated mouse thalamus reveals dysregulated proteins upon absence seizure. <i>Journal of Neurochemistry</i> , 2007 , 102, 646-56	6	19
30	The biological significance of phospholipase C beta 1 gene mutation in mouse sperm in the acrosome reaction, fertilization, and embryo development. <i>Journal of Assisted Reproduction and Genetics</i> , 2001 , 18, 305-10	3.4	19
29	CXXC5 plays a role as a transcription activator for myelin genes on oligodendrocyte differentiation. <i>Glia</i> , 2016 , 64, 350-62	9	18
28	Progress in Brain-Compatible Interfaces with Soft Nanomaterials. <i>Advanced Materials</i> , 2020 , 32, e19075224	22.4	17
27	Ca ²⁺ T, a fly T-type Ca ²⁺ channel, negatively modulates sleep. <i>Scientific Reports</i> , 2015 , 5, 17893	4.9	15
26	Expression of Bfl-1 in normal and tumor tissues: Bfl-1 overexpression in cancer is attributable to its preferential expression in infiltrating inflammatory cells. <i>Human Pathology</i> , 1998 , 29, 723-8	3.7	14
25	Lack of CaV3.1 channels causes severe motor coordination defects and an age-dependent cerebellar atrophy in a genetic model of essential tremor. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 410, 19-23	3.4	12
24	Disruption of Ninjurin1 Leads to Repetitive and Anxiety-Like Behaviors in Mice. <i>Molecular Neurobiology</i> , 2017 , 54, 7353-7368	6.2	10
23	The potential roles of T-type Ca ²⁺ channels in motor coordination. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 172	3.5	10
22	Heterogeneity of tremor mechanisms assessed by tremor-related cortical potential in mice. <i>Molecular Brain</i> , 2015 , 8, 3	4.5	9

21	Two genetic loci control syllable sequences of ultrasonic courtship vocalizations in inbred mice. <i>BMC Neuroscience</i> , 2011 , 12, 104	3.2	9
20	Age-dependent gait abnormalities in mice lacking the Rnf170 gene linked to human autosomal-dominant sensory ataxia. <i>Human Molecular Genetics</i> , 2015 , 24, 7196-206	5.6	8
19	The development of a PZT-based microdrive for neural signal recording. <i>Smart Materials and Structures</i> , 2008 , 17, 027001	3.4	8
18	Freezing response-independent facilitation of fear extinction memory in the prefrontal cortex. <i>Scientific Reports</i> , 2017 , 7, 5363	4.9	6
17	Amelioration of behavioral abnormalities in BH(4)-deficient mice by dietary supplementation of tyrosine. <i>PLoS ONE</i> , 2013 , 8, e60803	3.7	6
16	Cerebellar 5HT-2A receptor mediates stress-induced onset of dystonia. <i>Science Advances</i> , 2021 , 7,	14.3	5
15	Excitatory neuronal CHD8 in the regulation of neocortical development and sensory-motor behaviors. <i>Cell Reports</i> , 2021 , 34, 108780	10.6	4
14	Interactive virtual objects attract attention and induce exploratory behaviours in rats. <i>Behavioural Brain Research</i> , 2020 , 392, 112737	3.4	3
13	¶Pix heterozygous mice have defects in neuronal morphology and social interaction. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 516, 1204-1210	3.4	3
12	Magnetic properties of high coercivity Nd ₂₃ Dy ₁₀ Fe ₆₄ Tm ₂ B ₁ sintered magnets by a convergent heat treatment. <i>Research on Chemical Intermediates</i> , 2010 , 36, 859-866	2.8	3
11	Light-Emitting Diodes: Monolithic Flexible Vertical GaN Light-Emitting Diodes for a Transparent Wireless Brain Optical Stimulator (Adv. Mater. 28/2018). <i>Advanced Materials</i> , 2018 , 30, 1870208	24	2
10	Overcoming Depression by Inhibition of Neural Burst Firing. <i>Neuron</i> , 2018 , 98, 878-879	13.9	2
9	Effects of thermal stress induced by cyclic heat treatment on sintered (Nd, Dy)-Fe-B magnets. <i>Metals and Materials International</i> , 2010 , 16, 959-962	2.4	2
8	Chapter 14 Functional Diversity of Voltage-Dependent Ca ²⁺ Channels in Nociception: Recent Progress in Genetic Studies. <i>Current Topics in Membranes</i> , 2006 , 57, 415-438	2.2	2
7	Nodding behavior couples to vigilance fluctuation in a high-calorie diet model of drowsiness. <i>Molecular Brain</i> , 2018 , 11, 33	4.5	1
6	An Inhibitory Medial Preoptic Circuit Mediates Innate Exploration. <i>Frontiers in Neuroscience</i> , 2021 , 15, 716147	5.1	1
5	Neural correlates of multidimensional motor outputs in an excitatory parafascicular-zona incerta circuit.. <i>Biochemical and Biophysical Research Communications</i> , 2022 , 591, 102-109	3.4	0
4	Molecular laterality encodes stress susceptibility in the medial prefrontal cortex. <i>Molecular Brain</i> , 2021 , 14, 92	4.5	0

- 3 Neural and Genetic Basis of Evasion, Approach and Predation.. *Molecules and Cells*, **2022**, 45, 93-97 3.5 ○
- 2 Lack of barbering behavior in the phospholipase C β 1 mutant mouse: a model animal for schizophrenia131-144
- 1 A rearrangement of the CDD gene at the 5'UTR produces two types of transcripts that contain a natural antisense region. *Molecular Biology Reports*, **1998**, 25, 205-10 2.8