

Dae-Gun Kim

List of Publications by Year in descending order

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77
papers

6,413
citations

101496

36
h-index

71651

76
g-index

78
all docs

78
docs citations

78
times ranked

10038
citing authors

#	ARTICLE	IF	CITATIONS
1	Autistic-like social behaviour in Shank2-mutant mice improved by restoring NMDA receptor function. Nature, 2012, 486, 261-265.	13.7	604
2	GABA from reactive astrocytes impairs memory in mouse models of Alzheimer's disease. Nature Medicine, 2014, 20, 886-896.	15.2	577
3	Lack of the Burst Firing of Thalamocortical Relay Neurons and Resistance to Absence Seizures in Mice Lacking $\hat{1}G$ T-Type Ca^{2+} Channels. Neuron, 2001, 31, 35-45.	3.8	486
4	Exosome engineering for efficient intracellular delivery of soluble proteins using optically reversible protein-protein interaction module. Nature Communications, 2016, 7, 12277.	5.8	420
5	Brain somatic mutations in MTOR cause focal cortical dysplasia type II leading to intractable epilepsy. Nature Medicine, 2015, 21, 395-400.	15.2	406
6	Phospholipase C isozymes selectively couple to specific neurotransmitter receptors. Nature, 1997, 389, 290-293.	13.7	293
7	Thalamic Control of Visceral Nociception Mediated by T-Type Ca^{2+} Channels. Science, 2003, 302, 117-119.	6.0	220
8	PLC- $\hat{1}^2$, activated via mGluRs, mediates activity-dependent differentiation in cerebral cortex. Nature Neuroscience, 2001, 4, 282-288.	7.1	210
9	Self-powered deep brain stimulation via a flexible PIMNT energy harvester. Energy and Environmental Science, 2015, 8, 2677-2684.	15.6	207
10	Lack of delta waves and sleep disturbances during non-rapid eye movement sleep in mice lacking $\hat{1}G$ -subunit of T-type calcium channels. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 18195-18199.	3.3	176
11	Social deficits in IRSp53 mutant mice improved by NMDAR and mGluR5 suppression. Nature Neuroscience, 2015, 18, 435-443.	7.1	168
12	Severe reactive astrocytes precipitate pathological hallmarks of Alzheimer's disease via H_2O_2 production. Nature Neuroscience, 2020, 23, 1555-1566.	7.1	154
13	Optogenetic control of endogenous Ca^{2+} channels in vivo. Nature Biotechnology, 2015, 33, 1092-1096.	9.4	147
14	GIT1 is associated with ADHD in humans and ADHD-like behaviors in mice. Nature Medicine, 2011, 17, 566-572.	15.2	140
15	$Ca^{V_3.1}$ is a tremor rhythm pacemaker in the inferior olive. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10731-10736.	3.3	131
16	Role of the $\hat{1}G$ T-Type Calcium Channel in Spontaneous Absence Seizures in Mutant Mice. Journal of Neuroscience, 2004, 24, 5249-5257.	1.7	128
17	Light-inducible receptor tyrosine kinases that regulate neurotrophin signalling. Nature Communications, 2014, 5, 4057.	5.8	123
18	Rapid, biphasic CRF neuronal responses encode positive and negative valence. Nature Neuroscience, 2019, 22, 576-585.	7.1	97

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19	Comparative three-dimensional connectome map of motor cortical projections in the mouse brain. <i>Scientific Reports</i> , 2016, 6, 20072.	1.6	94
20	Inhibitory Basal Ganglia Inputs Induce Excitatory Motor Signals in the Thalamus. <i>Neuron</i> , 2017, 95, 1181-1196.e8.	3.8	89
21	Monolithic Flexible Vertical GaN Light-Emitting Diodes for a Transparent Wireless Brain Optical Stimulator. <i>Advanced Materials</i> , 2018, 30, e1800649.	11.1	88
22	Group I Metabotropic Glutamate Receptors Elicit Epileptiform Discharges in the Hippocampus through PLC β 1 Signaling. <i>Journal of Neuroscience</i> , 2001, 21, 6387-6394.	1.7	78
23	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.	1.3	74
24	Medial preoptic circuit induces hunting-like actions to target objects and prey. <i>Nature Neuroscience</i> , 2018, 21, 364-372.	7.1	72
25	Trichogenic Photostimulation Using Monolithic Flexible Vertical AlGaInP Light-Emitting Diodes. <i>ACS Nano</i> , 2018, 12, 9587-9595.	7.3	72
26	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, 18165-18170.	3.3	71
27	Optogenetic control of body movements via flexible vertical light-emitting diodes on brain surface. <i>Nano Energy</i> , 2018, 44, 447-455.	8.2	68
28	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, 6550-6555.	3.3	62
29	Conditional ablation of LYVE-1+ cells unveils defensive roles of lymphatic vessels in intestine and lymph nodes. <i>Blood</i> , 2013, 122, 2151-2161.	0.6	61
30	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, 3031-3043.	1.3	55
31	Optogenetic brain neuromodulation by stray magnetic field via flash-enhanced magneto-mechano-triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 75, 104951.	8.2	54
32	Sevoflurane exposure during the neonatal period induces long-term memory impairment but not autism-like behaviors. <i>Paediatric Anaesthesia</i> , 2015, 25, 1033-1045.	0.6	51
33	Beta-Lapachone, a Modulator of NAD Metabolism, Prevents Health Declines in Aged Mice. <i>PLoS ONE</i> , 2012, 7, e47122.	1.1	49
34	Expression, localization and functions in acrosome reaction and sperm motility of CaV3.1 and CaV3.2 channels in sperm cells: An evaluation from CaV3.1 and CaV3.2 deficient mice. <i>Journal of Cellular Physiology</i> , 2007, 212, 753-763.	2.0	46
35	Optogenetic Mapping of Functional Connectivity in Freely Moving Mice via Insertable Wrapping Electrode Array Beneath the Skull. <i>ACS Nano</i> , 2016, 10, 2791-2802.	7.3	46
36	Biophysical and pharmacological characterization of spermatogenic T-type calcium current in mice lacking the Ca V 3.1 (\pm 1G) calcium channel: Ca V 3.2 (\pm 1H) is the main functional calcium channel in wild-type spermatogenic cells. <i>Journal of Cellular Physiology</i> , 2004, 200, 116-124.	2.0	45

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37	Left brain cortical activity modulates stress effects on social behavior. <i>Scientific Reports</i> , 2015, 5, 13342.	1.6	37
38	Flexible wireless powered drug delivery system for targeted administration on cerebral cortex. <i>Nano Energy</i> , 2018, 51, 102-112.	8.2	37
39	PTEN Modulates miR-21 Processing via RNA-Regulatory Protein RNH1. <i>PLoS ONE</i> , 2011, 6, e28308.	1.1	33
40	Loss of Adenylyl Cyclase Type-5 in the Dorsal Striatum Produces Autistic-Like Behaviors. <i>Molecular Neurobiology</i> , 2017, 54, 7994-8008.	1.9	32
41	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, 4063-4073.	1.7	30
42	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, 27742-27747.	1.6	29
43	Progress in Brain-Compatible Interfaces with Soft Nanomaterials. <i>Advanced Materials</i> , 2020, 32, e1907522.	11.1	29
44	Downregulation of Wnt/ β -catenin signaling causes degeneration of hippocampal neurons in vivo. <i>Neurobiology of Aging</i> , 2011, 32, 2316.e1-2316.e15.	1.5	28
45	Ca β 1T, a fly T-type Ca ²⁺ channel, negatively modulates sleep. <i>Scientific Reports</i> , 2015, 5, 17893.	1.6	28
46	CXXC5 plays a role as a transcription activator for myelin genes on oligodendrocyte differentiation. <i>Glia</i> , 2016, 64, 350-362.	2.5	23
47	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, 305-310.	1.2	21
48	Proteomic analysis of β -butyrolactone-treated mouse thalamus reveals dysregulated proteins upon absence seizure. <i>Journal of Neurochemistry</i> , 2007, 102, 646-656.	2.1	20
49	Cerebellar 5HT-2A receptor mediates stress-induced onset of dystonia. <i>Science Advances</i> , 2021, 7, .	4.7	19
50	Excitatory neuronal CHD8 in the regulation of neocortical development and sensory-motor behaviors. <i>Cell Reports</i> , 2021, 34, 108780.	2.9	18
51	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, 723-728.	1.1	15
52	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.	1.0	14
53	The potential roles of T-type Ca ²⁺ channels in motor coordination. <i>Frontiers in Neural Circuits</i> , 2013, 7, 172.	1.4	14
54	The development of a PZT-based microdrive for neural signal recording. <i>Smart Materials and Structures</i> , 2008, 17, 027001.	1.8	13

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55	Disruption of Ninjurin1 Leads to Repetitive and Anxiety-Like Behaviors in Mice. <i>Molecular Neurobiology</i> , 2017, 54, 7353-7368.	1.9	12
56	Two genetic loci control syllable sequences of ultrasonic courtship vocalizations in inbred mice. <i>BMC Neuroscience</i> , 2011, 12, 104.	0.8	11
57	Heterogeneity of tremor mechanisms assessed by tremor-related cortical potential in mice. <i>Molecular Brain</i> , 2015, 8, 3.	1.3	11
58	Age-dependent gait abnormalities in mice lacking the <i>Rnf170</i> gene linked to human autosomal-dominant sensory ataxia. <i>Human Molecular Genetics</i> , 2015, 24, 7196-7206.	1.4	11
59	Amelioration of Behavioral Abnormalities in BH4-deficient Mice by Dietary Supplementation of Tyrosine. <i>PLoS ONE</i> , 2013, 8, e60803.	1.1	9
60	Freezing response-independent facilitation of fear extinction memory in the prefrontal cortex. <i>Scientific Reports</i> , 2017, 7, 5363.	1.6	7
61	<i>Î²</i> Pix heterozygous mice have defects in neuronal morphology and social interaction. <i>Biochemical and Biophysical Research Communications</i> , 2019, 516, 1204-1210.	1.0	6
62	Implantable Micro-Light-Emitting Diode (μ LED)-based optogenetic interfaces toward human applications. <i>Advanced Drug Delivery Reviews</i> , 2022, 187, 114399.	6.6	6
63	Overcoming Depression by Inhibition of Neural Burst Firing. <i>Neuron</i> , 2018, 98, 878-879.	3.8	5
64	Neural and Genetic Basis of Evasion, Approach and Predation. <i>Molecules and Cells</i> , 2022, 45, 93-97.	1.0	5
65	Molecular laterality encodes stress susceptibility in the medial prefrontal cortex. <i>Molecular Brain</i> , 2021, 14, 92.	1.3	4
66	An Inhibitory Medial Preoptic Circuit Mediates Innate Exploration. <i>Frontiers in Neuroscience</i> , 2021, 15, 716147.	1.4	4
67	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.	1.3	3
68	Interactive virtual objects attract attention and induce exploratory behaviours in rats. <i>Behavioural Brain Research</i> , 2020, 392, 112737.	1.2	3
69	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.	0.5	2
70	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.	1.8	2
71	Light-Emitting Diodes: Monolithic Flexible Vertical GaN Light-Emitting Diodes for a Transparent Wireless Brain Optical Stimulator (<i>Adv. Mater.</i> 28/2018). <i>Advanced Materials</i> , 2018, 30, 1870208.	11.1	2
72	Interhemispheric Cortico-Cortical Pathway for Sequential Bimanual Movements in Mice. <i>ENeuro</i> , 2021, 8, ENEURO.0200-21.2021.	0.9	2

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73	Directing the turning behavior of carp using virtual stimulation. <i>Ocean Systems Engineering</i> , 2017, 7, 39-51.	0.5	2
74	Neural correlates of multidimensional motor outputs in an excitatory parafascicular-zona incerta circuit. <i>Biochemical and Biophysical Research Communications</i> , 2022, 591, 102-109.	1.0	2
75	Nodding behavior couples to vigilance fluctuation in a high-calorie diet model of drowsiness. <i>Molecular Brain</i> , 2018, 11, 33.	1.3	1
76	A rearrangement of the CDD gene at the 5' UTR produces two types of transcripts that contain a natural antisense region. <i>Molecular Biology Reports</i> , 1998, 25, 205-210.	1.0	0
77	Lack of barbering behavior in the phospholipase C β 21 mutant mouse: a model animal for schizophrenia. , 0, , 131-144.		0