

# Dae-Gun Kim

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Neural correlates of multidimensional motor outputs in an excitatory parafascicular-zona incerta circuit.. <i>Biochemical and Biophysical Research Communications</i> , <b>2022</b> , 591, 102-109	3.4	0
73	Neural and Genetic Basis of Evasion, Approach and Predation.. <i>Molecules and Cells</i> , <b>2022</b> , 45, 93-97	3.5	0
72	Cerebellar 5HT-2A receptor mediates stress-induced onset of dystonia. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	5
71	Molecular laterality encodes stress susceptibility in the medial prefrontal cortex. <i>Molecular Brain</i> , <b>2021</b> , 14, 92	4.5	0
70	Excitatory neuronal CHD8 in the regulation of neocortical development and sensory-motor behaviors. <i>Cell Reports</i> , <b>2021</b> , 34, 108780	10.6	4
69	An Inhibitory Medial Preoptic Circuit Mediates Innate Exploration. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 716147	5.1	1
68	Optogenetic brain neuromodulation by stray magnetic field via flash-enhanced magneto-mechano-triboelectric nanogenerator. <i>Nano Energy</i> , <b>2020</b> , 75, 104951	17.1	23
67	Interactive virtual objects attract attention and induce exploratory behaviours in rats. <i>Behavioural Brain Research</i> , <b>2020</b> , 392, 112737	3.4	3
66	Severe reactive astrocytes precipitate pathological hallmarks of Alzheimer's disease via HO production. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 1555-1566	25.5	49
65	Progress in Brain-Compatible Interfaces with Soft Nanomaterials. <i>Advanced Materials</i> , <b>2020</b> , 32, e19075224	24	17
64	Rapid, biphasic CRF neuronal responses encode positive and negative valence. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 576-585	25.5	49
63	¶ix heterozygous mice have defects in neuronal morphology and social interaction. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 516, 1204-1210	3.4	3
62	Medial preoptic circuit induces hunting-like actions to target objects and prey. <i>Nature Neuroscience</i> , <b>2018</b> , 21, 364-372	25.5	49
61	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> , <b>2018</b> , 30, 1870208	24	2
60	Nodding behavior couples to vigilance fluctuation in a high-calorie diet model of drowsiness. <i>Molecular Brain</i> , <b>2018</b> , 11, 33	4.5	1
59	Trichogenic Photostimulation Using Monolithic Flexible Vertical AlGaInP Light-Emitting Diodes. <i>ACS Nano</i> , <b>2018</b> , 12, 9587-9595	16.7	51
58	Flexible wireless powered drug delivery system for targeted administration on cerebral cortex. <i>Nano Energy</i> , <b>2018</b> , 51, 102-112	17.1	28

57	Overcoming Depression by Inhibition of Neural Burst Firing. <i>Neuron</i> , <b>2018</b> , 98, 878-879	13.9	2
56	Optogenetic control of body movements via flexible vertical light-emitting diodes on brain surface. <i>Nano Energy</i> , <b>2018</b> , 44, 447-455	17.1	43
55	Monolithic Flexible Vertical GaN Light-Emitting Diodes for a Transparent Wireless Brain Optical Stimulator. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800649	24	64
54	Inhibitory Basal Ganglia Inputs Induce Excitatory Motor Signals in the Thalamus. <i>Neuron</i> , <b>2017</b> , 95, 1181-1196.e30	13.9	30
53	Freezing response-independent facilitation of fear extinction memory in the prefrontal cortex. <i>Scientific Reports</i> , <b>2017</b> , 7, 5363	4.9	6
52	Disruption of Ninjurin1 Leads to Repetitive and Anxiety-Like Behaviors in Mice. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 7353-7368	6.2	10
51	Loss of Adenylyl Cyclase Type-5 in the Dorsal Striatum Produces Autistic-Like Behaviors. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 7994-8008	6.2	20
50	Exosome engineering for efficient intracellular delivery of soluble proteins using optically reversible protein-protein interaction module. <i>Nature Communications</i> , <b>2016</b> , 7, 12277	17.4	287
49	Optogenetic Mapping of Functional Connectivity in Freely Moving Mice via Insertable Wrapping Electrode Array Beneath the Skull. <i>ACS Nano</i> , <b>2016</b> , 10, 2791-802	16.7	34
48	CXXC5 plays a role as a transcription activator for myelin genes on oligodendrocyte differentiation. <i>Glia</i> , <b>2016</b> , 64, 350-62	9	18
47	Comparative three-dimensional connectome map of motor cortical projections in the mouse brain. <i>Scientific Reports</i> , <b>2016</b> , 6, 20072	4.9	55
46	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> , <b>2016</b> , 113, 6550-5	11.5	35
45	Heterogeneity of tremor mechanisms assessed by tremor-related cortical potential in mice. <i>Molecular Brain</i> , <b>2015</b> , 8, 3	4.5	9
44	Self-powered deep brain stimulation via a flexible PIMNT energy harvester. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2677-2684	35.4	156
43	Brain somatic mutations in MTOR cause focal cortical dysplasia type II leading to intractable epilepsy. <i>Nature Medicine</i> , <b>2015</b> , 21, 395-400	50.5	300
42	Optogenetic control of endogenous Ca(2+) channels in vivo. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 1092-6	44.5	108
41	Age-dependent gait abnormalities in mice lacking the Rnf170 gene linked to human autosomal-dominant sensory ataxia. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 7196-206	5.6	8
40	Ca-vT, a fly T-type Ca2+ channel, negatively modulates sleep. <i>Scientific Reports</i> , <b>2015</b> , 5, 17893	4.9	15

39	Left brain cortical activity modulates stress effects on social behavior. <i>Scientific Reports</i> , <b>2015</b> , 5, 13342	4.9	23
38	Sevoflurane exposure during the neonatal period induces long-term memory impairment but not autism-like behaviors. <i>Paediatric Anaesthesia</i> , <b>2015</b> , 25, 1033-45	1.8	38
37	Social deficits in IRSp53 mutant mice improved by NMDAR and mGluR5 suppression. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 435-43	25.5	112
36	Light-inducible receptor tyrosine kinases that regulate neurotrophin signalling. <i>Nature Communications</i> , <b>2014</b> , 5, 4057	17.4	96
35	GABA from reactive astrocytes impairs memory in mouse models of Alzheimer's disease. <i>Nature Medicine</i> , <b>2014</b> , 20, 886-96	50.5	390
34	The potential roles of T-type Ca <sup>2+</sup> channels in motor coordination. <i>Frontiers in Neural Circuits</i> , <b>2013</b> , 7, 172	3.5	10
33	Conditional ablation of LYVE-1+ cells unveils defensive roles of lymphatic vessels in intestine and lymph nodes. <i>Blood</i> , <b>2013</b> , 122, 2151-61	2.2	48
32	Amelioration of behavioral abnormalities in BH(4)-deficient mice by dietary supplementation of tyrosine. <i>PLoS ONE</i> , <b>2013</b> , 8, e60803	3.7	6
31	Autistic-like social behaviour in Shank2-mutant mice improved by restoring NMDA receptor function. <i>Nature</i> , <b>2012</b> , 486, 261-5	50.4	467
30	Beta-lapachone, a modulator of NAD metabolism, prevents health declines in aged mice. <i>PLoS ONE</i> , <b>2012</b> , 7, e47122	3.7	42
29	Lack of Ca <sub>v</sub> 3.1 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> , <b>2011</b> , 410, 19-23	3.4	12
28	Downregulation of Wnt/ $\beta$ -catenin signaling causes degeneration of hippocampal neurons in vivo. <i>Neurobiology of Aging</i> , <b>2011</b> , 32, 2316.e1-15	5.6	25
27	PTEN modulates miR-21 processing via RNA-regulatory protein RNH1. <i>PLoS ONE</i> , <b>2011</b> , 6, e28308	3.7	27
26	Two genetic loci control syllable sequences of ultrasonic courtship vocalizations in inbred mice. <i>BMC Neuroscience</i> , <b>2011</b> , 12, 104	3.2	9
25	The amount of astrocytic GABA positively correlates with the degree of tonic inhibition in hippocampal CA1 and cerebellum. <i>Molecular Brain</i> , <b>2011</b> , 4, 42	4.5	51
24	Thalamic T-type Ca <sup>2+</sup> channels mediate frontal lobe dysfunctions caused by a hypoxia-like damage in the prefrontal cortex. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 4063-73	6.6	25
23	GIT1 is associated with ADHD in humans and ADHD-like behaviors in mice. <i>Nature Medicine</i> , <b>2011</b> , 17, 566-72	50.5	106
22	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> , <b>2010</b> , 588, 3031-43	3.9	47

21	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> , <b>2010</b> , 107, 10731-6	11.5	104
20	Effects of thermal stress induced by cyclic heat treatment on sintered (Nd, Dy)-Fe-B magnets. <i>Metals and Materials International</i> , <b>2010</b> , 16, 959-962	2.4	2
19	Magnetic properties of high coercivity Nd <sub>23</sub> Dy <sub>10</sub> Fe <sub>64</sub> TM <sub>2</sub> B <sub>1</sub> sintered magnets by a convergent heat treatment. <i>Research on Chemical Intermediates</i> , <b>2010</b> , 36, 859-866	2.8	3
18	The development of a PZT-based microdrive for neural signal recording. <i>Smart Materials and Structures</i> , <b>2008</b> , 17, 027001	3.4	8
17	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> , <b>2007</b> , 212, 753-63	7	42
16	Proteomic analysis of gamma-butyrolactone-treated mouse thalamus reveals dysregulated proteins upon absence seizure. <i>Journal of Neurochemistry</i> , <b>2007</b> , 102, 646-56	6	19
15	Chapter 14 Functional Diversity of Voltage-Dependent Ca <sup>2+</sup> Channels in Nociception: Recent Progress in Genetic Studies. <i>Current Topics in Membranes</i> , <b>2006</b> , 57, 415-438	2.2	2
14	Genetic dissection of theta rhythm heterogeneity in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 18165-70	11.5	62
13	Role of the alpha1G T-type calcium channel in spontaneous absence seizures in mutant mice. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 5249-57	6.6	115
12	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> , <b>2004</b> , 101, 18195-9	11.5	150
11	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> , <b>2004</b> , 200, 116-24	7	40
10	Thalamic control of visceral nociception mediated by T-type Ca <sup>2+</sup> channels. <i>Science</i> , <b>2003</b> , 302, 117-9	33.3	194
9	Acetylcholine-induced phosphatidylinositol 4,5-bisphosphate depletion does not cause short-term desensitization of G protein-gated inwardly rectifying K <sup>+</sup> current in mouse atrial myocytes. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 27742-7	5.4	26
8	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> , <b>2001</b> , 18, 305-10	3.4	19
7	PLC-beta1, activated via mGluRs, mediates activity-dependent differentiation in cerebral cortex. <i>Nature Neuroscience</i> , <b>2001</b> , 4, 282-8	25.5	187
6	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> , <b>2001</b> , 31, 35-45	13.9	441
5	Group I metabotropic glutamate receptors elicit epileptiform discharges in the hippocampus through PLCbeta1 signaling. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 6387-94	6.6	75
4	A rearrangement of the CDD gene at the 5TUTR produces two types of transcripts that contain a natural antisense region. <i>Molecular Biology Reports</i> , <b>1998</b> , 25, 205-10	2.8	

- 3 Expression of Bfl-1 in normal and tumor tissues: Bfl-1 overexpression in cancer is attributable to its preferential expression in infiltrating inflammatory cells. *Human Pathology*, **1998**, 29, 723-8 3·7 14
- 2 Phospholipase C isozymes selectively couple to specific neurotransmitter receptors. *Nature*, **1997**, 389, 290-3 50·4 261
- 1 Lack of barbering behavior in the phospholipase C $\alpha$ 1 mutant mouse: a model animal for schizophrenia 131-144