Chul Hoon Kim

List of Publications by Year
in descending order

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97 papers	4,430 citations	147726 31 h-index	114418 63 g-index
99 all docs	99 docs citations	99 times ranked	7515 citing authors

#	Article	IF	Citations
1	Functional cortical neurons and astrocytes from human pluripotent stem cells in 3D culture. Nature Methods, 2015, 12, 671-678.	9.0	1,220
2	An Odorant-Binding Protein Required for Suppression of Sweet Taste by Bitter Chemicals. Neuron, 2013, 79, 725-737.	3.8	215
3	Slitrks control excitatory and inhibitory synapse formation with LAR receptor protein tyrosine phosphatases. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4057-4062.	3.3	151
4	Association between polymorphisms in SLC30A8, HHEX, CDKN2A/B, IGF2BP2, FTO, WFS1, CDKAL1, KCNQ1 and type 2 diabetes in the Korean population. Journal of Human Genetics, 2008, 53, 991-998.	1.1	141
5	Metabotropic glutamate receptors: Phosphorylation and receptor signaling. Journal of Neuroscience Research, 2008, 86, 1-10.	1.3	116
6	Excited State Intramolecular Proton Transfer and Charge Transfer Dynamics of a 2-(2â€²-Hydroxyphenyl)benzoxazole Derivative in Solution. Journal of Physical Chemistry A, 2010, 114, 5618-5629.	1.1	114
7	Motor pathway injury in patients with periventricular leucomalacia and spastic diplegia. Brain, 2011, 134, 1199-1210.	3.7	113
8	mGluR5 in the nucleus accumbens is critical for promoting resilience to chronic stress. Nature Neuroscience, 2015, 18, 1017-1024.	7.1	109
9	Reversible SUMOylation of TBL1-TBLR1 Regulates Î²-Catenin-Mediated Wnt Signaling. Molecular Cell, 2011, 43, 203-216.	4.5	97
10	Coherent excited state intramolecular proton transfer probed by time-resolved fluorescence. Physical Chemistry Chemical Physics, 2009, 11, 10266.	1.3	96
11	A Polymorphism in the Zinc Transporter Gene SLC30A8 Confers Resistance Against Posttransplantation Diabetes Mellitus in Renal Allograft Recipients. Diabetes, 2008, 57, 1043-1047.	0.3	76
12	IFN-?induces cell death in human hepatoma cells through a trail/death receptor-mediated apoptotic pathway. International Journal of Cancer, 2001, 93, 262-268.	2.3	75
13	Calmodulin dynamically regulates the trafficking of the metabotropic glutamate receptor mGluR5. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12575-12580.	3.3	75
14	Protein Kinase C Phosphorylation of the Metabotropic Glutamate ReceptormGluR5 on Serine 839 Regulates Ca2+Oscillations. Journal of Biological Chemistry, 2005, 280, 25409-25415.	1.6	74
15	Novel biphasic effect of pyrrolidine dithiocarbamate on neuronal cell viability is mediated by the differential regulation of intracellular zinc and copper ion levels, NF-?b, and MAP kinases. Journal of Neuroscience Research, 2000, 59, 117-125.	1.3	73
16	Zinc-induced NF-ÎºB inhibition can be modulated by changes in the intracellular metallothionein level. Toxicology and Applied Pharmacology, 2003, 190, 189-196.	1.3	73
17	Zinc is required in pyrrolidine dithiocarbamate inhibition of NF-ÎºB activation. FEBS Letters, 1999, 449, 28-32.	1.3	72
18	Pyrithione, a Zinc Ionophore, Inhibits NF-ÎºB Activation. Biochemical and Biophysical Research Communications, 1999, 259, 505-509.	1.0	66

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19	Human hepatocellular carcinoma cells resist to TRAIL-induced apoptosis, and the resistance is abolished by cisplatin. Experimental and Molecular Medicine, 2002, 34, 114-122.	3.2	60
20	Pyrrolidine dithiocarbamate and zinc inhibit proteasome-dependent proteolysis. Experimental Cell Research, 2004, 298, 229-238.	1.2	58
21	Pyrrolidine Dithiocarbamate Induces Bovine Cerebral Endothelial Cell Death by Increasing the Intracellular Zinc Level. Journal of Neurochemistry, 2001, 72, 1586-1592.	2.1	57
22	Alteration of Synaptic Activityâ€“Regulating Genes Underlying Functional Improvement by Long-term Exposure to an Enriched Environment in the Adult Brain. Neurorehabilitation and Neural Repair, 2013, 27, 561-574.	1.4	50
23	dTULP, the Drosophila melanogaster Homolog of Tubby, Regulates Transient Receptor Potential Channel Localization in Cilia. PLoS Genetics, 2013, 9, e1003814.	1.5	50
24	Chronic HMGCR/HMG-CoA reductase inhibitor treatment contributes to dysglycemia by upregulating hepatic gluconeogenesis through autophagy induction. Autophagy, 2015, 11, 2089-2101.	4.3	47
25	NLRP3 Inflammasome Contributes to Lipopolysaccharide-induced Depressive-Like Behaviors via Indoleamine 2,3-dioxygenase Induction. International Journal of Neuropsychopharmacology, 2017, 20, 896-906.	1.0	45
26	Zinc stimulates tau S214 phosphorylation by the activation of Raf/mitogen-activated protein kinase-kinase/extracellular signal-regulated kinase pathway. NeuroReport, 2011, 22, 839-844.	0.6	41
27	Association of Common Type 2 Diabetes Risk Gene Variants and Posttransplantation Diabetes Mellitus in Renal Allograft Recipients in Korea. Transplantation, 2009, 88, 693-698.	0.5	40
28	Tumor Necrosis Factor-Î± and Phorbol 12-Myristate 13-Acetate Differentially Modulate Cytotoxic Effect of Nitric Oxide Generated by Serum Deprivation in Neuronal PC12 Cells. Journal of Neurochemistry, 2001, 72, 1482-1488.	2.1	39
29	Thiol Antioxidant Reversal of Pyrrolidine Dithiocarbamate-Induced Reciprocal Regulation of AP-1 and NF-ÎºB. Biological Chemistry, 2003, 384, 143-50.	1.2	37
30	Ciliary Phosphoinositide Regulates Ciliary Protein Trafficking in Drosophila. Cell Reports, 2015, 13, 2808-2816.	2.9	35
31	PKC Phosphorylation Regulates mGluR5 Trafficking by Enhancing Binding of Siah-1A. Journal of Neuroscience, 2012, 32, 16391-16401.	1.7	34
32	A genetic variant in GLP1R is associated with response to DPP-4 inhibitors in patients with type 2 diabetes. Medicine (United States), 2016, 95, e5155.	0.4	33
33	Lithospermic acid B ameliorates the development of diabetic nephropathy in OLETF rats. European Journal of Pharmacology, 2008, 579, 418-425.	1.7	32
34	Coherent Nuclear Wave Packets Generated by Ultrafast Intramolecular Charge-Transfer Reaction. Journal of Physical Chemistry Letters, 2012, 3, 2761-2766.	2.1	31
35	Environmental enrichment enhances synaptic plasticity by internalization of striatal dopamine transporters. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 2122-2133.	2.4	31
36	Biphasic effects of dithiocarbamates on the activity of nuclear factor-ÎºB. European Journal of Pharmacology, 2000, 392, 133-136.	1.7	30

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37	Pore dilatation increases the bicarbonate permeability of CFTR, ANO1 and glycine receptor anion channels. Journal of Physiology, 2016, 594, 2929-2955.	1.3	30
38	Changes in brain metabolic connectivity underlie autistic-like social deficits in a rat model of autism spectrum disorder. Scientific Reports, 2017, 7, 13213.	1.6	30
39	Perturbation of Electronic States and Energy Relaxation Dynamics in a Series of Phenylene Bridged ZnIIPorphyrin Dimers. Journal of Physical Chemistry C, 2007, 111, 14881-14888.	1.5	27
40	Ultrafast time-resolved fluorescence by two photon absorption excitation. Optics Express, 2008, 16, 20742.	1.7	27
41	Cancer-initiating cells in human pancreatic cancer organoids are maintained by interactions with endothelial cells. Cancer Letters, 2021, 498, 42-53.	3.2	27
42	AÎ² pathology downregulates brain mGluR5 density in a mouse model of Alzheimer. Neuropharmacology, 2018, 133, 512-517.	2.0	25
43	Agonistâ€induced internalization of mGluR1Î± is mediated by caveolin. Journal of Neurochemistry, 2009, 111, 61-71.	2.1	24
44	Relationship between dopamine deficit and the expression of depressive behavior resulted from alteration of serotonin system. Synapse, 2015, 69, 453-460.	0.6	24
45	Increased GABA-A Receptor Binding and Reduced Connectivity at the Motor Cortex in Children with Hemiplegic Cerebral Palsy: A Multimodal Investigation Using ¹⁸F-Fluoroflumazenil PET, Immunohistochemistry, and MR Imaging. Journal of Nuclear Medicine, 2013, 54, 1263-1269.	2.8	23
46	Optimizing reproducibility of operant testing through reinforcer standardization: identification of key nutritional constituents determining reward strength in touchscreens. Molecular Brain, 2017, 10, 31.	1.3	23
47	Three-dimensional Cardiomyocytes Structure Revealed By Diffusion Tensor Imaging and Its Validation Using a Tissue-Clearing Technique. Scientific Reports, 2018, 8, 6640.	1.6	22
48	Assessment of mGluR5 KO mice under conditions of low stress using a rodent touchscreen apparatus reveals impaired behavioural flexibility driven by perseverative responses. Molecular Brain, 2019, 12, 37.	1.3	22
49	GPR30 mediates anorectic estrogen-induced STAT3 signaling in the hypothalamus. Metabolism: Clinical and Experimental, 2014, 63, 1455-1461.	1.5	21
50	Hypothermia inhibits the propagation of acute ischemic injury by inhibiting HMGB1. Molecular Brain, 2016, 9, 81.	1.3	20
51	Heparin Inhibits NF-ÎºB Activation and Increases Cell Death in Cerebral Endothelial Cells after Oxygen-Glucose Deprivation. Journal of Molecular Neuroscience, 2007, 32, 145-154.	1.1	18
52	Environmental Enrichment Synergistically Improves Functional Recovery by Transplanted Adipose Stem Cells in Chronic Hypoxic-Ischemic Brain Injury. Cell Transplantation, 2013, 22, 1553-1568.	1.2	17
53	Autocrine function of erythropoietin in IGF-1-induced erythropoietin biosynthesis. NeuroReport, 2008, 19, 1699-1703.	0.6	16
54	The antibody atliximab attenuates collagen-induced arthritis by neutralizing AIMP1, an inflammatory cytokine that enhances osteoclastogenesis. Biomaterials, 2015, 44, 45-54.	5.7	16

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55	Autism-like behaviors in male mice with a Pcdh19 deletion. Molecular Brain, 2019, 12, 95.	1.3	16
56	Oxytocin receptor gene polymorphisms exert a modulating effect on the onset age in patients with obsessive-compulsive disorder. Psychoneuroendocrinology, 2017, 86, 45-52.	1.3	15
57	Hyperpolarized [1-13C] pyruvate MR spectroscopy detect altered glycolysis in the brain of a cognitively impaired mouse model fed high-fat diet. Molecular Brain, 2018, 11, 74.	1.3	15
58	Hyperpolarized [1-13C]lactate flux increased in the hippocampal region in diabetic mice. Molecular Brain, 2019, 12, 88.	1.3	15
59	Distinct roles of stereociliary links in the nonlinear sound processing and noise resistance of cochlear outer hair cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11109-11117.	3.3	15
60	Zinc Inhibits Amyloid Î² Production from Alzheimer's Amyloid Precursor Protein in SH-SY5Y Cells. Korean Journal of Physiology and Pharmacology, 2009, 13, 195.	0.6	13
61	Effective MicroPET imaging of brain 5â€HT_{1A} receptors in rats with [¹⁸F]MeFWAY by suppression of radioligand defluorination. Synapse, 2012, 66, 1015-1023.	0.6	13
62	Evaluation of dopamine transporters and D2 receptors in hemiparkinsonian rat brains in vivo using consecutive PET scans of [18F]FPCIT and [18F]fallypride. Applied Radiation and Isotopes, 2012, 70, 2689-2694.	0.7	13
63	Estrogen-related genome-based expression profiling study of uterosacral ligaments in women with pelvic organ prolapse. International Urogynecology Journal, 2013, 24, 1961-1967.	0.7	12
64	Acute physical stress induces the alteration of the serotonin 1A receptor density in the hippocampus. Synapse, 2014, 68, 363-368.	0.6	12
65	Blunted response of hippocampal AMPK associated with reduced neurogenesis in older versus younger mice. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2016, 71, 57-65.	2.5	12
66	Inhibitory effect of zinc on hypoxic HIF-1 activation in astrocytes. NeuroReport, 2008, 19, 1063-1066.	0.6	10
67	Overexpression of SOX2 Is Associated with Better Overall Survival in Squamous Cell Lung Cancer Patients Treated with Adjuvant Radiotherapy. Cancer Research and Treatment, 2016, 48, 473-482.	1.3	10
68	Microarray Analysis of Differentially Expressed Genes in the Brains of Tubby Mice. Korean Journal of Physiology and Pharmacology, 2009, 13, 91.	0.6	9
69	Targeted Temperature Management at 33Â°C or 36Â°C Produces Equivalent Neuroprotective Effects in the Middle Cerebral Artery Occlusion Rat Model of Ischemic Stroke. Shock, 2018, 50, 714-719.	1.0	9
70	Neural regulation of energy and bone homeostasis by the synaptic adhesion molecule Calsyntenin-3. Experimental and Molecular Medicine, 2020, 52, 793-803.	3.2	9
71	Clozapine generates obsessive compulsive disorder-like behavior in mice. Molecular Brain, 2020, 13, 84.	1.3	9
72	Dysfunction of NMDA receptors in neuronal models of an autism spectrum disorder patient with a DSCAM mutation and in Dscam-knockout mice. Molecular Psychiatry, 2021, 26, 7538-7549.	4.1	9

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73	The effect of nicotine on the production of soluble fmsâ€like tyrosine kinaseâ€1 and soluble endoglin in human umbilical vein endothelial cells and trophoblasts. Acta Obstetricia Et Gynecologica Scandinavica, 2010, 89, 565-571.	1.3	8
74	Hippocampal mGluR5 predicts an occurrence of helplessness behavior after repetitive exposure to uncontrollable stress. Neuroscience Letters, 2012, 519, 62-66.	1.0	8
75	Optimization of the radiosynthesis of [¹⁸F]MEFWAY for imaging brain serotonin 1A receptors by using the GE TracerLab FX_{FNâ€Pro} module. Journal of Labelled Compounds and Radiopharmaceuticals, 2013, 56, 589-594.	0.5	8
76	Heparin Attenuates the Expression of TNFÎ±-induced Cerebral Endothelial Cell Adhesion Molecule. Korean Journal of Physiology and Pharmacology, 2008, 12, 231.	0.6	7
77	Expressions of transforming growth factor (TGF)-Î²1 and TGF-Î² type II receptor and their relationship with apoptosis during chemical hepatocarcinogenesis in rats. Hepatology Research, 2003, 27, 205-213.	1.8	6
78	Pharmacokinetic properties and tissue storage of FITC conjugated SA-MnMEIO nanoparticles in mice. Current Applied Physics, 2009, 9, e304-e307.	1.1	6
79	Differential mGluR5 expression in response to the same stress causes individually adapted hippocampal network activity. Biochemical and Biophysical Research Communications, 2018, 495, 1305-1311.	1.0	6
80	P-Glycoprotein, not BCRP, Limits the Brain Uptake of [18F]Mefway in Rodent Brain. Molecular Imaging and Biology, 2016, 18, 267-273.	1.3	5
81	Targeted temperature management at 33Â°C or 36â„ƒ induces equivalent myocardial protection by inhibiting HMGB1 release in myocardial ischemia/reperfusion injury. PLoS ONE, 2021, 16, e0246066.	1.1	5
82	Dopaminergic neuron destruction reduces hippocampal serotonin 1A receptor uptake of trans -[18 F]Mefway. Applied Radiation and Isotopes, 2014, 94, 30-34.	0.7	4
83	[18F]FPEB and [18F]FDEGPECO comparative study of mGlu5 quantification in rodent brain. Applied Radiation and Isotopes, 2015, 98, 103-107.	0.7	4
84	Suppression of AIMP1 protects cognition in Alzheimerâ€™s disease model mice 3xTg-AD. NeuroReport, 2017, 28, 82-86.	0.6	4
85	Time-Lapse Live-Cell Imaging Reveals Dual Function of Oseg4, WDR35, in Ciliary Protein Trafficking. Molecules and Cells, 2018, 41, 676-683.	1.0	4
86	Regulation of DREAM Expression by Group I mGluR. Korean Journal of Physiology and Pharmacology, 2011, 15, 95.	0.6	3
87	Translational possibility of [¹⁸F]Mefway to image serotonin 1A receptors in humans: Comparison with [¹⁸F]FCWAY in rodents. Synapse, 2014, 68, 595-603.	0.6	3
88	Tubby domain superfamily protein is required for the formation of the 7S SNARE complex in Drosophila. Biochemical and Biophysical Research Communications, 2017, 482, 814-820.	1.0	3
89	Glutamatergic stimulation of the left dentate gyrus abolishes depressive-like behaviors in a rat learned helplessness paradigm. NeuroImage, 2017, 159, 207-213.	2.1	3
90	Novel biphasic effect of pyrrolidine dithiocarbamate on neuronal cell viability is mediated by the differential regulation of intracellular zinc and copper ion levels, NFâ€Îºb, and MAP kinases. Journal of Neuroscience Research, 2000, 59, 117-125.	1.3	2

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91	Effect of 17-beta Estradiol on Adipocyte Lipin-1 Expression in OLETF Rat. Endocrinology and Metabolism, 2010, 25, 199.	1.3	2
92	Maladaptive Alterations of Defensive Response Following Developmental Complex Stress in Rats. Clinical Psychopharmacology and Neuroscience, 2020, 18, 412-422.	0.9	2
93	NeuroTrace 500/525 identifies human induced pluripotent stem cell-derived brain pericyte-like cells. Molecular Brain, 2022, 15, 11.	1.3	2
94	Protective Effects of Lithospermic Acid B on Diabetic Nephropathy in OLETF Rats Comparing with Amlodipine and Losartan. Korean Diabetes Journal, 2008, 32, 10.	0.8	1
95	Perturbation of Electronic States and Energy Relaxation Dynamics in Phenylene Bridged ZnII Porphyrin Dimers. , 2007, , .		0
96	Effects of conformational diversity on the excited state intramolecular reaction dynamics in condensed phases. , 2007, , .		0
97	Assessment of behavioral flexibility of mGluR5 KO mice using a touchscreen cognitive test platform. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, JKL-01.	0.0	0