

Doyoun Kim

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,338
citations

331670

21
h-index

361022

35
g-index

52
all docs

52
docs citations

52
times ranked

2255
citing authors

#	ARTICLE	IF	CITATIONS
1	De Novo Mutations in the Motor Domain of KIF1A Cause Cognitive Impairment, Spastic Paraparesis, Axonal Neuropathy, and Cerebellar Atrophy. <i>Human Mutation</i> , 2015, 36, 69-78.	2.5	114
2	The crystal structure of the second Z-DNA binding domain of human DAI (ZBP1) in complex with Z-DNA reveals an unusual binding mode to Z-DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20671-20676.	7.1	99
3	Structural basis for LAR-RPTP/Slitrk complex-mediated synaptic adhesion. <i>Nature Communications</i> , 2014, 5, 5423.	12.8	94
4	Intrinsic Z-DNA Is Stabilized by the Conformational Selection Mechanism of Z-DNA-Binding Proteins. <i>Journal of the American Chemical Society</i> , 2011, 133, 668-671.	13.7	92
5	Therapeutic Strategies Against COVID-19 and Structural Characterization of SARS-CoV-2: A Review. <i>Frontiers in Microbiology</i> , 2020, 11, 1723.	3.5	69
6	SALM5 trans-synaptically interacts with LAR-RPTPs in a splicing-dependent manner to regulate synapse development. <i>Scientific Reports</i> , 2016, 6, 26676.	3.3	60
7	Early Correction of N-Methyl-D-Aspartate Receptor Function Improves Autistic-like Social Behaviors in Adult <i>Shank2</i> ^{-/-} Mice. <i>Biological Psychiatry</i> , 2019, 85, 534-543.	1.3	56
8	Synaptic adhesion molecule IgSF11 regulates synaptic transmission and plasticity. <i>Nature Neuroscience</i> , 2016, 19, 84-93.	14.8	48
9	Structural Insights into Modulation of Neurexin-Neuroigin Trans -synaptic Adhesion by MDGA1/Neuroigin-2 Complex. <i>Neuron</i> , 2017, 94, 1121-1131.e6.	8.1	48
10	Distinct Z-DNA binding mode of a PKR-like protein kinase containing a Z-DNA binding domain (PKZ). <i>Nucleic Acids Research</i> , 2014, 42, 5937-5948.	14.5	46
11	Autosomal dominant transmission of complicated hereditary spastic paraplegia due to a dominant negative mutation of KIF1A, SPG30 gene. <i>Scientific Reports</i> , 2017, 7, 12527.	3.3	45
12	Dominant transmission of de novo KIF1A motor domain variant underlying pure spastic paraplegia. <i>European Journal of Human Genetics</i> , 2015, 23, 1427-1430.	2.8	44
13	Structural basis for the substrate specificity of PepA from <i>Streptococcus pneumoniae</i> , a dodecameric tetrahedral protease. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 431-436.	2.1	41
14	<i>Scn2a</i> Haploinsufficiency in Mice Suppresses Hippocampal Neuronal Excitability, Excitatory Synaptic Drive, and Long-Term Potentiation, and Spatial Learning and Memory. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 145.	2.9	39
15	Base extrusion is found at helical junctions between right- and left-handed forms of DNA and RNA. <i>Nucleic Acids Research</i> , 2009, 37, 4353-4359.	14.5	36
16	Early correction of synaptic long-term depression improves abnormal anxiety-like behavior in adult <i>GluN2B-C456Y</i> -mutant mice. <i>PLoS Biology</i> , 2020, 18, e3000717.	5.6	36
17	SALM4 suppresses excitatory synapse development by cis-inhibiting trans-synaptic SALM3-LAR adhesion. <i>Nature Communications</i> , 2016, 7, 12328.	12.8	30
18	Z-DNA Binding Proteins as Targets for Structure-Based Virtual Screening. <i>Current Drug Targets</i> , 2010, 11, 335-344.	2.1	29

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19	Shank3 Mice Carrying the Human Q321R Mutation Display Enhanced Self-Grooming, Abnormal Electroencephalogram Patterns, and Suppressed Neuronal Excitability and Seizure Susceptibility. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 155.	2.9	29
20	SLC6A20 transporter: a novel regulator of brain glycine homeostasis and NMDAR function. <i>EMBO Molecular Medicine</i> , 2021, 13, e12632.	6.9	26
21	LAR-RPTP Clustering Is Modulated by Competitive Binding between Synaptic Adhesion Partners and Heparan Sulfate. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 327.	2.9	25
22	Sequence preference and structural heterogeneity of BZ junctions. <i>Nucleic Acids Research</i> , 2018, 46, 10504-10513.	14.5	25
23	A TBR1-K228E Mutation Induces Tbr1 Upregulation, Altered Cortical Distribution of Interneurons, Increased Inhibitory Synaptic Transmission, and Autistic-Like Behavioral Deficits in Mice. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 241.	2.9	25
24	Lfn2-Mutant Mice Display Suppressed Synaptic Plasticity and Inhibitory Synapse Development and Abnormal Social Communication and Startle Response. <i>Journal of Neuroscience</i> , 2018, 38, 5872-5887.	3.6	21
25	Structural and functional studies of a large winged Z-DNA-binding domain of <i>Danio rerio</i> protein kinase PKZ. <i>FEBS Letters</i> , 2016, 590, 2275-2285.	2.8	20
26	Phosphorylation of CYFIP2, a component of the WAVE-regulatory complex, regulates dendritic spine density and neurite outgrowth in cultured hippocampal neurons potentially by affecting the complex assembly. <i>NeuroReport</i> , 2017, 28, 749-754.	1.2	20
27	Presynaptic PTP ^{if} regulates postsynaptic NMDA receptor function through direct adhesion-independent mechanisms. <i>ELife</i> , 2020, 9, .	6.0	18
28	Crystallization and preliminary X-ray crystallographic studies of the Z-DNA-binding domain of a PKR-like kinase (PKZ) in complex with Z-DNA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 267-270.	0.7	14
29	A novel de novo heterozygous DYRK1A mutation causes complete loss of DYRK1A function and developmental delay. <i>Scientific Reports</i> , 2020, 10, 9849.	3.3	14
30	Structural and kinetic bases for the metal preference of the M18 aminopeptidase from <i>Pseudomonas aeruginosa</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 101-107.	2.1	13
31	Energetics of Z-DNA Binding Protein-Mediated Helicity Reversals in DNA, RNA, and DNA-RNA Duplexes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13866-13871.	2.6	11
32	Reduced CYFIP2 Stability by Arg87 Variants Causing Human Neurological Disorders. <i>Annals of Neurology</i> , 2019, 86, 803-805.	5.3	11
33	Structural and functional study of ChuY from <i>Escherichia coli</i> strain CFT073. <i>Biochemical and Biophysical Research Communications</i> , 2017, 482, 1176-1182.	2.1	9
34	GCN5 maintains muscle integrity by acetylating YY1 to promote dystrophin expression. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	8
35	Distinct Rayleigh Scattering from Hot Spot Mutant p53 Proteins Reveals Cancer Cells. <i>Small</i> , 2014, 10, 2954-2962.	10.0	5
36	Clmp Regulates AMPA and Kainate Receptor Responses in the Neonatal Hippocampal CA3 and Kainate Seizure Susceptibility in Mice. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 567075.	2.5	5

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37	Binding Surface in Z ¹ 2 Domain from Human ZBP1 Does Not Require Conserved Proline Residues for Z-DNA Binding and B-to-Z-DNA Conversion Activities. Bulletin of the Korean Chemical Society, 2007, 28, 2539-2542.	1.9	5
38	Photocurrent enhancement of SiNW-FETs by integrating protein-shelled CdSe quantum dots. Nanoscale, 2016, 8, 1921-1925.	5.6	3
39	Protein interactome and cell-type expression analyses reveal that cytoplasmic FMR1-interacting protein 1 (CYFIP1), but not CYFIP2, associates with astrocytic focal adhesion. Journal of Neurochemistry, 2022, 162, 190-206.	3.9	3
40	Crystal structure analysis of c4763, a uropathogenic Escherichia coli-specific protein. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 1042-1047.	0.8	1
41	Conformational Dynamics between B- and Z-DNA probed via single-molecule FRET. Biophysical Journal, 2009, 96, 345a.	0.5	0
42	Glutamyl Aminopeptidase (Lactococcus). , 2013, , 1631-1635.		0
43	Title is missing!. , 2020, 18, e3000717.		0
44	Title is missing!. , 2020, 18, e3000717.		0
45	Title is missing!. , 2020, 18, e3000717.		0
46	Title is missing!. , 2020, 18, e3000717.		0
47	Title is missing!. , 2020, 18, e3000717.		0
48	Title is missing!. , 2020, 18, e3000717.		0