

Ji Won Um

List of Publications by Year in descending order

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54
papers

3,414
citations

218677

26
h-index

168389

53
g-index

57
all docs

57
docs citations

57
times ranked

5042
citing authors

#	ARTICLE	IF	CITATIONS
1	LRRTM3 regulates activity-dependent synchronization of synapse properties in topographically connected hippocampal neural circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	5
2	MDGA1 negatively regulates amyloid precursor protein-mediated synapse inhibition in the hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	12
3	IQSEC3 Deletion Impairs Fear Memory Through Upregulation of Ribosomal S6K1 Signaling in the Hippocampus. <i>Biological Psychiatry</i> , 2022, 91, 821-831.	1.3	6
4	Reassessing synaptic adhesion pathways. <i>Trends in Neurosciences</i> , 2022, 45, 517-528.	8.6	5
5	SLITRK2 variants associated with neurodevelopmental disorders impair excitatory synaptic function and cognition in mice. <i>Nature Communications</i> , 2022, 13, .	12.8	6
6	Impaired formation of high-order gephyrin oligomers underlies gephyrin dysfunction-associated pathologies. <i>IScience</i> , 2021, 24, 102037.	4.1	8
7	Proper synaptic adhesion signaling in the control of neural circuit architecture and brain function. <i>Progress in Neurobiology</i> , 2021, 200, 101983.	5.7	28
8	Npas4 regulates IQSEC3 expression in hippocampal somatostatin interneurons to mediate anxiety-like behavior. <i>Cell Reports</i> , 2021, 36, 109417.	6.4	10
9	The small GTPase ARF6 regulates GABAergic synapse development. <i>Molecular Brain</i> , 2020, 13, 2.	2.6	12
10	LAR-RPTPs Directly Interact with Neurexins to Coordinate Bidirectional Assembly of Molecular Machineries. <i>Journal of Neuroscience</i> , 2020, 40, 8438-8462.	3.6	25
11	PTP1f Controls Presynaptic Organization of Neurotransmitter Release Machinery at Excitatory Synapses. <i>IScience</i> , 2020, 23, 101203.	4.1	16
12	Protocol for Quantitative Analysis of Synaptic Vesicle Clustering in Axons of Cultured Neurons. <i>STAR Protocols</i> , 2020, 1, 100095.	1.2	4
13	Differentially altered social dominance- and cooperative-like behaviors in Shank2- and Shank3-mutant mice. <i>Molecular Autism</i> , 2020, 11, 87.	4.9	24
14	Calsyntenin-3 interacts with both β - and β -neurexins in the regulation of excitatory synaptic innervation in specific Schaffer collateral pathways. <i>Journal of Biological Chemistry</i> , 2020, 295, 9244-9262.	3.4	14
15	Receptor protein tyrosine phosphatase delta is not essential for synapse maintenance or transmission at hippocampal synapses. <i>Molecular Brain</i> , 2020, 13, 94.	2.6	8
16	Seizure progression triggered by IQSEC3 loss is mitigated by reducing activated microglia in mice. <i>Glia</i> , 2020, 68, 2661-2673.	4.9	7
17	Loss of IQSEC3 Disrupts GABAergic Synapse Maintenance and Decreases Somatostatin Expression in the Hippocampus. <i>Cell Reports</i> , 2020, 30, 1995-2005.e5.	6.4	16
18	Intracellular protein complexes involved in synapse assembly in presynaptic neurons. <i>Advances in Protein Chemistry and Structural Biology</i> , 2019, 116, 347-373.	2.3	13

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19	Slitrk2 controls excitatory synapse development via PDZ-mediated protein interactions. <i>Scientific Reports</i> , 2019, 9, 17094.	3.3	11
20	Rescue of Transgenic Alzheimer's Pathophysiology by Polymeric Cellular Prion Protein Antagonists. <i>Cell Reports</i> , 2019, 26, 145-158.e8.	6.4	27
21	PTP σ Drives Excitatory Presynaptic Assembly via Various Extracellular and Intracellular Mechanisms. <i>Journal of Neuroscience</i> , 2018, 38, 6700-6721.	3.6	40
22	Synapse development organized by neuronal activity-regulated immediate-early genes. <i>Experimental and Molecular Medicine</i> , 2018, 50, 1-7.	7.7	40
23	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
24	Neural Glycosylphosphatidylinositol-Anchored Proteins in Synaptic Specification. <i>Trends in Cell Biology</i> , 2017, 27, 931-945.	7.9	58
25	Synaptic functions of the IQSEC family of ADP-ribosylation factor guanine nucleotide exchange factors. <i>Neuroscience Research</i> , 2017, 116, 54-59.	1.9	27
26	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
27	Roles of Glial Cells in Sculpting Inhibitory Synapses and Neural Circuits. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 381.	2.9	34
28	Slitrk Missense Mutations Associated with Neuropsychiatric Disorders Distinctively Impair Slitrk Trafficking and Synapse Formation. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 104.	2.9	31
29	SALM4 suppresses excitatory synapse development by cis-inhibiting trans-synaptic SALM3-LAR adhesion. <i>Nature Communications</i> , 2016, 7, 12328.	12.8	30
30	IQ Motif and SEC7 Domain-containing Protein 3 (IQSEC3) Interacts with Gephyrin to Promote Inhibitory Synapse Formation. <i>Journal of Biological Chemistry</i> , 2016, 291, 10119-10130.	3.4	27
31	Neurotrophin-3 Regulates Synapse Development by Modulating TrkC-PTP σ Synaptic Adhesion and Intracellular Signaling Pathways. <i>Journal of Neuroscience</i> , 2016, 36, 4816-4831.	3.6	56
32	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
33	LRRTM3 Regulates Excitatory Synapse Development through Alternative Splicing and Neurexin Binding. <i>Cell Reports</i> , 2016, 14, 808-822.	6.4	61
34	Metabotropic glutamate receptor 5 couples cellular prion protein to intracellular signalling in Alzheimer's disease. <i>Brain</i> , 2016, 139, 526-546.	7.6	110
35	PTP σ functions as a presynaptic receptor for the glypican-4/LRRTM4 complex and is essential for excitatory synaptic transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1874-1879.	7.1	86
36	The balancing act of GABAergic synapse organizers. <i>Trends in Molecular Medicine</i> , 2015, 21, 256-268.	6.7	83

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37	Structural basis for LAR-RPTP/Slitrk complex-mediated synaptic adhesion. <i>Nature Communications</i> , 2014, 5, 5423.	12.8	94
38	Elfn1 recruits presynaptic mGluR7 in trans and its loss results in seizures. <i>Nature Communications</i> , 2014, 5, 4501.	12.8	83
39	Calsyntenins Function as Synaptogenic Adhesion Molecules in Concert with Neurexins. <i>Cell Reports</i> , 2014, 6, 1096-1109.	6.4	71
40	LAR-RPTPs: synaptic adhesion molecules that shape synapse development. <i>Trends in Cell Biology</i> , 2013, 23, 465-475.	7.9	183
41	Metabotropic Glutamate Receptor 5 Is a Coreceptor for Alzheimer A β Oligomer Bound to Cellular Prion Protein. <i>Neuron</i> , 2013, 79, 887-902.	8.1	485
42	Amyloid- β induced signaling by cellular prion protein and Fyn kinase in Alzheimer disease. <i>Prion</i> , 2013, 7, 37-41.	1.8	114
43	Alzheimer amyloid- β oligomer bound to postsynaptic prion protein activates Fyn to impair neurons. <i>Nature Neuroscience</i> , 2012, 15, 1227-1235.	14.8	572
44	Neddylaton positively regulates the ubiquitin E3 ligase activity of parkin. <i>Journal of Neuroscience Research</i> , 2012, 90, 1030-1042.	2.9	43
45	ASK1 Negatively Regulates the 26 S Proteasome. <i>Journal of Biological Chemistry</i> , 2010, 285, 36434-36446.	3.4	41
46	Parkin Directly Modulates 26S Proteasome Activity. <i>Journal of Neuroscience</i> , 2010, 30, 11805-11814.	3.6	71
47	Formation of parkin aggregates and enhanced PINK1 accumulation during the pathogenesis of Parkinson's disease. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 824-828.	2.1	23
48	Molecular interaction between parkin and PINK1 in mammalian neuronal cells. <i>Molecular and Cellular Neurosciences</i> , 2009, 40, 421-432.	2.2	62
49	NF- κ B-inducing Kinase Phosphorylates and Blocks the Degradation of Down Syndrome Candidate Region 1. <i>Journal of Biological Chemistry</i> , 2008, 283, 3392-3400.	3.4	38
50	Functional modulation of parkin through physical interaction with SUMO-1. <i>Journal of Neuroscience Research</i> , 2006, 84, 1543-1554.	2.9	91
51	Parkin Ubiquitinates and Promotes the Degradation of RanBP2. <i>Journal of Biological Chemistry</i> , 2006, 281, 3595-3603.	3.4	84
52	Proteolytic Cleavage of Extracellular Secreted β -Synuclein via Matrix Metalloproteinases. <i>Journal of Biological Chemistry</i> , 2005, 280, 25216-25224.	3.4	209
53	Parkin Cleaves Intracellular β -Synuclein Inclusions via the Activation of Calpain. <i>Journal of Biological Chemistry</i> , 2003, 278, 41890-41899.	3.4	68
54	Differential Regional Vulnerability of the Brain to Mild Neuroinflammation Induced by Systemic LPS Treatment in Mice. <i>Journal of Inflammation Research</i> , 0, Volume 15, 3053-3063.	3.5	7