

Jaewon Ko

List of Publications by Year in descending order

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82
papers

4,912
citations

81900

39
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98798

67
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89
all docs

89
docs citations

89
times ranked

5540
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	A chemical tool for blue light-inducible proximity photo-crosslinking in live cells. <i>Chemical Science</i> , 2022, 13, 955-966.	7.4	14
4	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
5	Deletion of Calsyntenin-3, an atypical cadherin, suppresses inhibitory synapses but increases excitatory parallel-fiber synapses in cerebellum. <i>ELife</i> , 2022, 11, .	6.0	4
6	Reassessing synaptic adhesion pathways. <i>Trends in Neurosciences</i> , 2022, 45, 517-528.	8.6	5
7	SLITRK2 variants associated with neurodevelopmental disorders impair excitatory synaptic function and cognition in mice. <i>Nature Communications</i> , 2022, 13, .	12.8	6
8	Impaired formation of high-order gephyrin oligomers underlies gephyrin dysfunction-associated pathologies. <i>iScience</i> , 2021, 24, 102037.	4.1	8
9	Protocol for quantitative assessment of social cooperation in mice. <i>STAR Protocols</i> , 2021, 2, 100305.	1.2	4
10	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
11	Npas4 regulates IQSEC3 expression in hippocampal somatostatin interneurons to mediate anxiety-like behavior. <i>Cell Reports</i> , 2021, 36, 109417.	6.4	10
12	SALM4 negatively regulates NMDA receptor function and fear memory consolidation. <i>Communications Biology</i> , 2021, 4, 1138.	4.4	2
13	Supra-blot: an accurate and reliable assay for detecting target proteins with a synthetic host molecule-enzyme hybrid. <i>Chemical Communications</i> , 2020, 56, 1549-1552.	4.1	9
14	The small GTPase ARF6 regulates GABAergic synapse development. <i>Molecular Brain</i> , 2020, 13, 2.	2.6	12
15	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
16	PTP1f Controls Presynaptic Organization of Neurotransmitter Release Machinery at Excitatory Synapses. <i>iScience</i> , 2020, 23, 101203.	4.1	16
17	Protocol for Quantitative Analysis of Synaptic Vesicle Clustering in Axons of Cultured Neurons. <i>STAR Protocols</i> , 2020, 1, 100095.	1.2	4
18	Structural basis of SALM3 dimerization and synaptic adhesion complex formation with PTP1f. <i>Scientific Reports</i> , 2020, 10, 11557.	3.3	4

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19	Differentially altered social dominance- and cooperative-like behaviors in Shank2- and Shank3-mutant mice. <i>Molecular Autism</i> , 2020, 11, 87.	4.9	24
20	Calsyntenin-3 interacts with both $\hat{1}\pm$ - and $\hat{1}2$ -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
21	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
22	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
23	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
24	Slitrk2 controls excitatory synapse development via PDZ-mediated protein interactions. <i>Scientific Reports</i> , 2019, 9, 17094.	3.3	11
25	Editorial: Synaptic Assembly and Neural Circuit Development. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 30.	2.5	1
26	Lrfn2-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
27	PTP $\hat{1}f$ Drives Excitatory Presynaptic Assembly via Various Extracellular and Intracellular Mechanisms. <i>Journal of Neuroscience</i> , 2018, 38, 6700-6721.	3.6	40
28	Special Issue on Synapse Assembly, Neural Circuit Development, and Brain Disorders. <i>Experimental and Molecular Medicine</i> , 2018, 50, 1-2.	7.7	0
29	Molecular Mechanisms of Synaptic Specificity: Spotlight on Hippocampal and Cerebellar Synapse Organizers. <i>Molecules and Cells</i> , 2018, 41, 373-380.	2.6	6
30	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
31	Central synapse, neural circuit, and brain function. <i>Neuroscience Research</i> , 2017, 116, 1-2.	1.9	2
32	Neural Glycosylphosphatidylinositol-Anchored Proteins in Synaptic Specification. <i>Trends in Cell Biology</i> , 2017, 27, 931-945.	7.9	58
33	Neuroanatomical Substrates of Rodent Social Behavior: The Medial Prefrontal Cortex and Its Projection Patterns. <i>Frontiers in Neural Circuits</i> , 2017, 11, 41.	2.8	153
34	Increased Excitatory Synaptic Transmission of Dentate Granule Neurons in Mice Lacking PSD-95-Interacting Adhesion Molecule Neph2/Kirrel3 during the Early Postnatal Period. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 81.	2.9	14
35	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
36	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

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37	Mutations in Synaptic Adhesion Molecules. , 2016, , 161-175.		0
38	SALM4 suppresses excitatory synapse development by cis-inhibiting trans-synaptic SALM3â€“LAR adhesion. Nature Communications, 2016, 7, 12328.	12.8	30
39	IQ Motif and SEC7 Domain-containing Protein 3 (IQSEC3) Interacts with Gephyrin to Promote Inhibitory Synapse Formation. Journal of Biological Chemistry, 2016, 291, 10119-10130.	3.4	27
40	Neurotrophin-3 Regulates Synapse Development by Modulating TrkC-PTPÎf Synaptic Adhesion and Intracellular Signaling Pathways. Journal of Neuroscience, 2016, 36, 4816-4831.	3.6	56
41	Emergent Synapse Organizers: LAR-RPTPs and Their Companions. International Review of Cell and Molecular Biology, 2016, 324, 39-65.	3.2	48
42	SALM5 trans-synaptically interacts with LAR-RPTPs in a splicing-dependent manner to regulate synapse development. Scientific Reports, 2016, 6, 26676.	3.3	60
43	LRRTM3 Regulates Excitatory Synapse Development through Alternative Splicing and Neurexin Binding. Cell Reports, 2016, 14, 808-822.	6.4	61
44	Voice and Culture: A Prospect Theory Approach. Journal of Behavioral Decision Making, 2015, 28, 167-175.	1.7	6
45	PTPÎf functions as a presynaptic receptor for the glypican-4/LRRTM4 complex and is essential for excitatory synaptic transmission. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1874-1879.	7.1	86
46	Gephyrin: a central GABAergic synapse organizer. Experimental and Molecular Medicine, 2015, 47, e158-e158.	7.7	121
47	The balancing act of GABAergic synapse organizers. Trends in Molecular Medicine, 2015, 21, 256-268.	6.7	83
48	Structural basis for LAR-RPTP/Slitrk complex-mediated synaptic adhesion. Nature Communications, 2014, 5, 5423.	12.8	94
49	Elfn1 recruits presynaptic mGluR7 in trans and its loss results in seizures. Nature Communications, 2014, 5, 4501.	12.8	83
50	Calsyntenins Function as Synaptogenic Adhesion Molecules in Concert with Neurexins. Cell Reports, 2014, 6, 1096-1109.	6.4	71
51	LAR-RPTPs: synaptic adhesion molecules that shape synapse development. Trends in Cell Biology, 2013, 23, 465-475.	7.9	183
52	The adhesion protein IgSF9b is coupled to neuroligin 2 via S-SCAM to promote inhibitory synapse development. Journal of Cell Biology, 2013, 201, 929-944.	5.2	77
53	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.	7.1	151
54	MDGAs interact selectively with neuroligin-2 but not other neuroligins to regulate inhibitory synapse development. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 336-341.	7.1	109

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55	The Leucine-Rich Repeat Superfamily of Synaptic Adhesion Molecules: LRRTMs and Slitrks. <i>Molecules and Cells</i> , 2012, 34, 335-340.	2.6	45
56	High Affinity Neurexin Binding to Cell Adhesion G-protein-coupled Receptor CIRL1/Latrophilin-1 Produces an Intercellular Adhesion Complex. <i>Journal of Biological Chemistry</i> , 2012, 287, 9399-9413.	3.4	147
57	Neurexins/LRRTMs prevent activity- and Ca ²⁺ /calmodulin-dependent synapse elimination in cultured neurons. <i>Journal of Cell Biology</i> , 2011, 194, 323-334.	5.2	88
58	The X-linked intellectual disability protein IL1RAPL1 regulates excitatory synapse formation by binding PTP σ and RhoGAP2. <i>Human Molecular Genetics</i> , 2011, 20, 4797-4809.	2.9	97
59	The neurexin ligands, neuroligins and leucine-rich repeat transmembrane proteins, perform convergent and divergent synaptic functions in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16502-16509.	7.1	124
60	An autism-associated point mutation in the neuroligin cytoplasmic tail selectively impairs AMPA receptor-mediated synaptic transmission in hippocampus. <i>EMBO Journal</i> , 2011, 30, 2908-2919.	7.8	123
61	Neurexins/LRRTMs prevent activity- and Ca ²⁺ /calmodulin-dependent synapse elimination in cultured neurons. <i>Journal of General Physiology</i> , 2011, 138, i3-i3.	1.9	0
62	Selected SALM (Synaptic Adhesion-Like Molecule) Family Proteins Regulate Synapse Formation. <i>Journal of Neuroscience</i> , 2010, 30, 5559-5568.	3.6	87
63	Neurexins Physically and Functionally Interact with GABA _A Receptors. <i>Neuron</i> , 2010, 66, 403-416.	8.1	154
64	Regulated RalBP1 Binding to RalA and PSD-95 Controls AMPA Receptor Endocytosis and LTD. <i>PLoS Biology</i> , 2009, 7, e1000187.	5.6	57
65	A Neuroligin-4 Missense Mutation Associated with Autism Impairs Neuroligin-4 Folding and Endoplasmic Reticulum Export. <i>Journal of Neuroscience</i> , 2009, 29, 10843-10854.	3.6	162
66	Neuroligin-1 performs neurexin-dependent and neurexin-independent functions in synapse validation. <i>EMBO Journal</i> , 2009, 28, 3244-3255.	7.8	120
67	LRRTM2 Functions as a Neurexin Ligand in Promoting Excitatory Synapse Formation. <i>Neuron</i> , 2009, 64, 791-798.	8.1	315
68	Leucine-rich repeat proteins of synapses. <i>Journal of Neuroscience Research</i> , 2007, 85, 2824-2832.	2.9	47
69	Clustering Assay for Studying the Interaction of Membrane Proteins With PDZ Domain Proteins. , 2006, 332, 245-254.		1
70	SALM Synaptic Cell Adhesion-like Molecules Regulate the Differentiation of Excitatory Synapses. <i>Neuron</i> , 2006, 50, 233-245.	8.1	138
71	ARF6 and EFA6A Regulate the Development and Maintenance of Dendritic Spines. <i>Journal of Neuroscience</i> , 2006, 26, 4811-4819.	3.6	90
72	Analysis of PDZ Domain Interactions Using Yeast Two-Hybrid and Coimmunoprecipitation Assays. , 2006, 332, 233-244.		3

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73	Molecular Organization and Assembly of the Postsynaptic Density of Excitatory Brain Synapses. , 2006, 43, 1-23.		8
74	Organization of the Presynaptic Active Zone by ERC2/CAST1-Dependent Clustering of the Tandem PDZ Protein Syntenin-1. Journal of Neuroscience, 2006, 26, 963-970.	3.6	41
75	Regulation of Dendritic Spine Morphogenesis by Insulin Receptor Substrate 53, a Downstream Effector of Rac1 and Cdc42 Small GTPases. Journal of Neuroscience, 2005, 25, 869-879.	3.6	199
76	An intramolecular interaction between the FHA domain and a coiled coil negatively regulates the kinesin motor KIF1A. EMBO Journal, 2004, 23, 1506-1515.	7.8	62
77	Association of the Kinesin Motor KIF1A with the Multimodular Protein Liprin-1. Journal of Biological Chemistry, 2003, 278, 11393-11401.	3.4	184
78	The GIT Family of Proteins Forms Multimers and Associates with the Presynaptic Cytomatrix Protein Piccolo. Journal of Biological Chemistry, 2003, 278, 6291-6300.	3.4	122
79	Interaction of the ERC Family of RIM-binding Proteins with the Liprin-1 Family of Multidomain Proteins. Journal of Biological Chemistry, 2003, 278, 42377-42385.	3.4	162
80	Characterization of the Movement of the Kinesin Motor KIF1A in Living Cultured Neurons. Journal of Biological Chemistry, 2003, 278, 2624-2629.	3.4	66
81	Interaction between Liprin-1 and GIT1 Is Required for AMPA Receptor Targeting. Journal of Neuroscience, 2003, 23, 1667-1677.	3.6	146
82	Phosphorylation of Stargazin by Protein Kinase A Regulates Its Interaction with PSD-95. Journal of Biological Chemistry, 2002, 277, 12359-12363.	3.4	117