

Cagla Eroglu

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

7,163
citations

136950

32
h-index

206112

48
g-index

57
all docs

57
docs citations

57
times ranked

8629
citing authors

#	ARTICLE	IF	CITATIONS
1	Gabapentin Receptor $\alpha 2\delta 1$ Is a Neuronal Thrombospondin Receptor Responsible for Excitatory CNS Synaptogenesis. <i>Cell</i> , 2009, 139, 380-392.	28.9	758
2	Cell Biology of Astrocyte-Synapse Interactions. <i>Neuron</i> , 2017, 96, 697-708.	8.1	704
3	Regulation of synaptic connectivity by glia. <i>Nature</i> , 2010, 468, 223-231.	27.8	668
4	Astrocytes Control Synapse Formation, Function, and Elimination. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a020370.	5.5	560
5	Control of excitatory CNS synaptogenesis by astrocyte-secreted proteins Hevin and SPARC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E440-9.	7.1	480
6	Astrocytic neuroligins control astrocyte morphogenesis and synaptogenesis. <i>Nature</i> , 2017, 551, 192-197.	27.8	343
7	Protective astrogenesis from the SVZ niche after injury is controlled by Notch modulator Thbs4. <i>Nature</i> , 2013, 497, 369-373.	27.8	244
8	Rapid Golgi Analysis Method for Efficient and Unbiased Classification of Dendritic Spines. <i>PLoS ONE</i> , 2014, 9, e107591.	2.5	243
9	Astrocytes Assemble Thalamocortical Synapses by Bridging NRX1 α and NL1 via Hevin. <i>Cell</i> , 2016, 164, 183-196.	28.9	233
10	Thrombospondins 1 and 2 are Necessary for Synaptic Plasticity and Functional Recovery after Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1722-1732.	4.3	228
11	Quantifying Synapses: an Immunocytochemistry-based Assay to Quantify Synapse Number. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	225
12	Thrombospondins as key regulators of synaptogenesis in the central nervous system. <i>Matrix Biology</i> , 2012, 31, 170-177.	3.6	152
13	Molecular mechanisms of astrocyte-induced synaptogenesis. <i>Current Opinion in Neurobiology</i> , 2017, 45, 113-120.	4.2	143
14	Astrocytes refine cortical connectivity at dendritic spines. <i>ELife</i> , 2014, 3, .	6.0	139
15	The interplay between neurons and glia in synapse development and plasticity. <i>Current Opinion in Neurobiology</i> , 2017, 42, 1-8.	4.2	138
16	Chemico-genetic discovery of astrocytic control of inhibition in vivo. <i>Nature</i> , 2020, 588, 296-302.	27.8	130
17	Huntingtin Is Required for Normal Excitatory Synapse Development in Cortical and Striatal Circuits. <i>Journal of Neuroscience</i> , 2014, 34, 9455-9472.	3.6	125
18	Abnormal degradation of the neuronal stress-protective transcription factor HSF1 in Huntington's disease. <i>Nature Communications</i> , 2017, 8, 14405.	12.8	121

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19	Thrombospondin receptor $\alpha 2\beta 1$ promotes synaptogenesis and spinogenesis via postsynaptic Rac1. <i>Journal of Cell Biology</i> , 2018, 217, 3747-3765.	5.2	116
20	Thrombospondin-4 Contributes to Spinal Sensitization and Neuropathic Pain States. <i>Journal of Neuroscience</i> , 2012, 32, 8977-8987.	3.6	114
21	Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. <i>Neuron</i> , 2020, 106, 37-65.e5.	8.1	109
22	The role of astrocyte-secreted matricellular proteins in central nervous system development and function. <i>Journal of Cell Communication and Signaling</i> , 2009, 3, 167-176.	3.4	102
23	Glutamate-binding affinity of <i>Drosophila</i> metabotropic glutamate receptor is modulated by association with lipid rafts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10219-10224.	7.1	96
24	Adolescent Intermittent Alcohol Exposure: Persistence of Structural and Functional Hippocampal Abnormalities into Adulthood. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 989-997.	2.4	89
25	Circuit-Selective Striatal Synaptic Dysfunction in the <i>Sapap3</i> Knockout Mouse Model of Obsessive-Compulsive Disorder. <i>Biological Psychiatry</i> , 2014, 75, 623-630.	1.3	85
26	An Antimicrobial Peptide and Its Neuronal Receptor Regulate Dendrite Degeneration in Aging and Infection. <i>Neuron</i> , 2018, 97, 125-138.e5.	8.1	79
27	Lysosome-Rich Enterocytes Mediate Protein Absorption in the Vertebrate Gut. <i>Developmental Cell</i> , 2019, 51, 7-20.e6.	7.0	74
28	Phospholipid Membrane Composition Affects EGF Receptor and Notch Signaling through Effects on Endocytosis during <i>Drosophila</i> Development. <i>Developmental Cell</i> , 2003, 5, 559-570.	7.0	62
29	Adolescent Intermittent Alcohol Exposure: Dysregulation of Thrombospondins and Synapse Formation are Associated with Decreased Neuronal Density in the Adult Hippocampus. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 2403-2413.	2.4	55
30	Functional reconstitution of purified metabotropic glutamate receptor expressed in the fly eye. <i>EMBO Reports</i> , 2002, 3, 491-496.	4.5	52
31	HepaCAM controls astrocyte self-organization and coupling. <i>Neuron</i> , 2021, 109, 2427-2442.e10.	8.1	52
32	Central Mechanisms Mediating Thrombospondin-4-induced Pain States. <i>Journal of Biological Chemistry</i> , 2016, 291, 13335-13348.	3.4	46
33	Look who is weaving the neural web: glial control of synapse formation. <i>Current Opinion in Neurobiology</i> , 2009, 19, 491-497.	4.2	45
34	Role of astrocytes in synapse formation and maturation. <i>Current Topics in Developmental Biology</i> , 2021, 142, 371-407.	2.2	36
35	Striatal Projection Neurons Require Huntingtin for Synaptic Connectivity and Survival. <i>Cell Reports</i> , 2020, 30, 642-657.e6.	6.4	34
36	The role of astrocyte structural plasticity in regulating neural circuit function and behavior. <i>Glia</i> , 2022, 70, 1467-1483.	4.9	33

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37	Neuroligins Provide Molecular Links Between Syndromic and Nonsyndromic Autism. <i>Science Signaling</i> , 2013, 6, re4.	3.6	29
38	Human Umbilical Tissue-Derived Cells Promote Synapse Formation and Neurite Outgrowth via Thrombospondin Family Proteins. <i>Journal of Neuroscience</i> , 2015, 35, 15649-15665.	3.6	29
39	Cell adhesion molecules regulating astrocyte-neuron interactions. <i>Current Opinion in Neurobiology</i> , 2021, 69, 170-177.	4.2	29
40	Control of neural development and function by glial neuroligins. <i>Current Opinion in Neurobiology</i> , 2019, 57, 163-170.	4.2	27
41	Subretinal Human Umbilical Tissue-Derived Cell Transplantation Preserves Retinal Synaptic Connectivity and Attenuates Müller Glial Reactivity. <i>Journal of Neuroscience</i> , 2018, 38, 2923-2943.	3.6	26
42	Acute post-injury blockade of β -1 calcium channel subunits prevents pathological autonomic plasticity after spinal cord injury. <i>Cell Reports</i> , 2021, 34, 108667.	6.4	23
43	Pharmacological characterization and immunoaffinity purification of metabotropic glutamate receptor from <i>Drosophila</i> overexpressed in Sf9 cells. <i>Protein Expression and Purification</i> , 2003, 30, 275-282.	1.3	19
44	Emerging roles for β subunits in calcium channel function and synaptic connectivity. <i>Current Opinion in Neurobiology</i> , 2020, 63, 162-169.	4.2	15
45	Glia as Active Participants in the Development and Function of Synapses. , 2008, , 683-714.		10
46	Developmental onset of enduring long-term potentiation in mouse hippocampus. <i>Hippocampus</i> , 2020, 30, 1298-1312.	1.9	8
47	Autism-associated mutation in Hevin/Sparcl1 induces endoplasmic reticulum stress through structural instability. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
48	Astrocytes Coordinate Synapse Maturation and Plasticity. <i>Neuron</i> , 2018, 100, 1010-1012.	8.1	5
49	Building and destroying synaptic bridges: How do Hevin/Sparcl1, SPARC, and MDGAs modify trans-synaptic neurexin-neuroigin interactions?. <i>Structure</i> , 2021, 29, 635-637.	3.3	5
50	Astrocytes and synaptogenesis. , 2020, , 55-75.		1