

Gertrudis Perea

List of Publications by Year in descending order

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38
papers

7,089
citations

136950

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315739

38
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43
all docs

43
docs citations

43
times ranked

7007
citing authors

#	ARTICLE	IF	CITATIONS
1	Tripartite synapses: astrocytes process and control synaptic information. Trends in Neurosciences, 2009, 32, 421-431.	8.6	1,391
2	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	14.8	1,098
3	Astrocytes Potentiate Transmitter Release at Single Hippocampal Synapses. Science, 2007, 317, 1083-1086.	12.6	621
4	Properties of Synaptically Evoked Astrocyte Calcium Signal Reveal Synaptic Information Processing by Astrocytes. Journal of Neuroscience, 2005, 25, 2192-2203.	3.6	415
5	Astrocytes Mediate In Vivo Cholinergic-Induced Synaptic Plasticity. PLoS Biology, 2012, 10, e1001259.	5.6	332
6	Synaptically Released Acetylcholine Evokes Ca ²⁺ Elevations in Astrocytes in Hippocampal Slices. Journal of Neuroscience, 2002, 22, 2443-2450.	3.6	258
7	Circuit-specific signaling in astrocyte-neuron networks in basal ganglia pathways. Science, 2015, 349, 730-734.	12.6	251
8	Glial calcium signaling and neuron-glia communication. Cell Calcium, 2005, 38, 375-382.	2.4	211
9	GLIA modulates synaptic transmission. Brain Research Reviews, 2010, 63, 93-102.	9.0	200
10	Optogenetic astrocyte activation modulates response selectivity of visual cortex neurons in vivo. Nature Communications, 2014, 5, 3262.	12.8	195
11	Adenosine released by astrocytes contributes to hypoxia-induced modulation of synaptic transmission. Glia, 2007, 55, 36-45.	4.9	182
12	Neuron-glia networks: integral gear of brain function. Frontiers in Cellular Neuroscience, 2014, 8, 378.	3.7	175
13	Nucleus basalis-enabled stimulus-specific plasticity in the visual cortex is mediated by astrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2832-41.	7.1	162
14	Activity-dependent switch of GABAergic inhibition into glutamatergic excitation in astrocyte-neuron networks. ELife, 2016, 5, .	6.0	129
15	Astrocyte Calcium Signal and Gliotransmission in Human Brain Tissue. Cerebral Cortex, 2013, 23, 1240-1246.	2.9	110
16	Astrocyte-Neuron Networks: A Multilane Highway of Signaling for Homeostatic Brain Function. Frontiers in Synaptic Neuroscience, 2018, 10, 45.	2.5	110
17	Glial modulation of synaptic transmission in culture. Glia, 2004, 47, 241-248.	4.9	107
18	Glutamate released spontaneously from astrocytes sets the threshold for synaptic plasticity. European Journal of Neuroscience, 2011, 33, 1483-1492.	2.6	106

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19	Endocannabinoids Induce Lateral Long-Term Potentiation of Transmitter Release by Stimulation of Gliotransmission. <i>Cerebral Cortex</i> , 2015, 25, 3699-3712.	2.9	102
20	GABAergic signaling to astrocytes in the prefrontal cortex sustains goal-directed behaviors. <i>Nature Neuroscience</i> , 2021, 24, 82-92.	14.8	91
21	Neuron-astrocyte signaling is preserved in the aging brain. <i>Glia</i> , 2017, 65, 569-580.	4.9	89
22	A First-in-Class Small-Molecule that Acts as a Dual Inhibitor of HDAC and PDE5 and that Rescues Hippocampal Synaptic Impairment in Alzheimer's Disease Mice. <i>Neuropsychopharmacology</i> , 2017, 42, 524-539.	5.4	86
23	Melanopsin for precise optogenetic activation of astrocyte-neuron networks. <i>Glia</i> , 2019, 67, 915-934.	4.9	86
24	GABAergic-astrocyte signaling: A refinement of inhibitory brain networks. <i>Glia</i> , 2019, 67, 1842-1851.	4.9	78
25	Communication between astrocytes and neurons: a complex language. <i>Journal of Physiology (Paris)</i> , 2002, 96, 199-207.	2.1	75
26	Insulin Regulates Astrocytic Glucose Handling Through Cooperation With IGF-I. <i>Diabetes</i> , 2017, 66, 64-74.	0.6	68
27	Concomitant histone deacetylase and phosphodiesterase 5 inhibition synergistically prevents the disruption in synaptic plasticity and it reverses cognitive impairment in a mouse model of Alzheimer's disease. <i>Clinical Epigenetics</i> , 2015, 7, 108.	4.1	52
28	A roadmap to integrate astrocytes into Systems Neuroscience. <i>Glia</i> , 2020, 68, 5-26.	4.9	52
29	Cell cycle reentry triggers hyperploidy and synaptic dysfunction followed by delayed cell death in differentiated cortical neurons. <i>Scientific Reports</i> , 2018, 8, 14316.	3.3	48
30	Synaptic information processing by astrocytes. <i>Journal of Physiology (Paris)</i> , 2006, 99, 92-97.	2.1	46
31	Synaptic regulation of the astrocyte calcium signal. <i>Journal of Neural Transmission</i> , 2005, 112, 127-135.	2.8	45
32	DREAM Mediates cAMP-Dependent, Ca ²⁺ -Induced Stimulation of GFAP Gene Expression and Regulates Cortical Astroglialgenesis. <i>Journal of Neuroscience</i> , 2008, 28, 6703-6713.	3.6	45
33	Sex-dependent calcium hyperactivity due to lysosomal-related dysfunction in astrocytes from APOE4 versus APOE3 gene targeted replacement mice. <i>Molecular Neurodegeneration</i> , 2020, 15, 35.	10.8	35
34	Reversible silencing of endogenous receptors in intact brain tissue using 2-photon pharmacology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13680-13689.	7.1	17
35	Metabolic Changes in Brain Slices over Time: a Multiplatform Metabolomics Approach. <i>Molecular Neurobiology</i> , 2021, 58, 3224-3237.	4.0	6
36	Gliotransmission at Tripartite Synapses. <i>Springer Series in Computational Neuroscience</i> , 2019, , 213-226.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Monitoring Interneuronâ€ Astrocyte Signaling and Its Consequences on Synaptic Transmission. Methods in Molecular Biology, 2019, 1938, 117-129.	0.9	2
38	Melanopsin for Time-Controlling Activation of Astrocyteâ€ Neuron Networks. Methods in Molecular Biology, 2020, 2173, 53-69.	0.9	2