

Alfonso Araque

List of Publications by Year in descending order

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82
papers

15,757
citations

38660

50
h-index

60497

81
g-index

87
all docs

87
docs citations

87
times ranked

11548
citing authors

#	ARTICLE	IF	CITATIONS
1	Tripartite synapses: glia, the unacknowledged partner. Trends in Neurosciences, 1999, 22, 208-215.	4.2	2,083
2	Tripartite synapses: astrocytes process and control synaptic information. Trends in Neurosciences, 2009, 32, 421-431.	4.2	1,391
3	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	7.1	1,098
4	Gliotransmitters Travel in Time and Space. Neuron, 2014, 81, 728-739.	3.8	1,010
5	Astrocytes Potentiate Transmitter Release at Single Hippocampal Synapses. Science, 2007, 317, 1083-1086.	6.0	621
6	Dynamic Signaling Between Astrocytes and Neurons. Annual Review of Physiology, 2001, 63, 795-813.	5.6	549
7	Endocannabinoids Mediate Neuron-Astrocyte Communication. Neuron, 2008, 57, 883-893.	3.8	478
8	Glutamate-dependent astrocyte modulation of synaptic transmission between cultured hippocampal neurons. European Journal of Neuroscience, 1998, 10, 2129-2142.	1.2	466
9	Properties of Synaptically Evoked Astrocyte Calcium Signal Reveal Synaptic Information Processing by Astrocytes. Journal of Neuroscience, 2005, 25, 2192-2203.	1.7	415
10	Endocannabinoids Potentiate Synaptic Transmission through Stimulation of Astrocytes. Neuron, 2010, 68, 113-126.	3.8	406
11	Calcium Elevation in Astrocytes Causes an NMDA Receptor-Dependent Increase in the Frequency of Miniature Synaptic Currents in Cultured Hippocampal Neurons. Journal of Neuroscience, 1998, 18, 6822-6829.	1.7	399
12	SNARE Protein-Dependent Glutamate Release from Astrocytes. Journal of Neuroscience, 2000, 20, 666-673.	1.7	394
13	Astrocytes Mediate In Vivo Cholinergic-Induced Synaptic Plasticity. PLoS Biology, 2012, 10, e1001259.	2.6	332
14	Synaptically Released Acetylcholine Evokes Ca^{2+} Elevations in Astrocytes in Hippocampal Slices. Journal of Neuroscience, 2002, 22, 2443-2450.	1.7	258
15	Astroglial Excitability and Gliotransmission: An Appraisal of Ca^{2+} as a Signalling Route. ASN Neuro, 2012, 4, AN20110061.	1.5	240
16	Glial cells in neuronal network function. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2375-2381.	1.8	238
17	Structural and Functional Plasticity of Astrocyte Processes and Dendritic Spine Interactions. Journal of Neuroscience, 2014, 34, 12738-12744.	1.7	234
18	Synapse-specific astrocyte gating of amygdala-related behavior. Nature Neuroscience, 2017, 20, 1540-1548.	7.1	228

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19	Diversity and Specificity of Astrocyte–neuron Communication. <i>Neuroscience</i> , 2019, 396, 73-78.	1.1	220
20	Glial calcium signaling and neuron–glia communication. <i>Cell Calcium</i> , 2005, 38, 375-382.	1.1	211
21	GLIA modulates synaptic transmission. <i>Brain Research Reviews</i> , 2010, 63, 93-102.	9.1	200
22	Role of astrocytes, microglia, and tanycytes in brain control of systemic metabolism. <i>Nature Neuroscience</i> , 2019, 22, 7-14.	7.1	200
23	Dopamine-Evoked Synaptic Regulation in the Nucleus Accumbens Requires Astrocyte Activity. <i>Neuron</i> , 2020, 105, 1036-1047.e5.	3.8	195
24	Adenosine released by astrocytes contributes to hypoxia-induced modulation of synaptic transmission. <i>Glia</i> , 2007, 55, 36-45.	2.5	182
25	Synaptic functions of endocannabinoid signaling in health and disease. <i>Neuropharmacology</i> , 2017, 124, 13-24.	2.0	180
26	Neuron-glia networks: integral gear of brain function. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 378.	1.8	175
27	Neuronal activity determines distinct gliotransmitter release from a single astrocyte. <i>ELife</i> , 2018, 7, .	2.8	174
28	Astroglial CB1 Receptors Determine Synaptic D-Serine Availability to Enable Recognition Memory. <i>Neuron</i> , 2018, 98, 935-944.e5.	3.8	170
29	Glial Biology in Learning and Cognition. <i>Neuroscientist</i> , 2014, 20, 426-431.	2.6	165
30	Astrocyte-induced modulation of synaptic transmission. <i>Canadian Journal of Physiology and Pharmacology</i> , 1999, 77, 699-706.	0.7	154
31	Do stars govern our actions? Astrocyte involvement in rodent behavior. <i>Trends in Neurosciences</i> , 2015, 38, 535-549.	4.2	152
32	G-protein-coupled receptors inhibit neurons but activate astrocytes and stimulate gliotransmission. <i>Glia</i> , 2019, 67, 1076-1093.	2.5	148
33	G-Protein-Coupled Receptors in Astrocyte–Neuron Communication. <i>Neuroscience</i> , 2021, 456, 71-84.	1.1	138
34	Activity-dependent switch of GABAergic inhibition into glutamatergic excitation in astrocyte-neuron networks. <i>ELife</i> , 2016, 5, .	2.8	129
35	Prostaglandin E2 stimulates glutamate receptor-dependent astrocyte neuromodulation in cultured hippocampal cells. <i>Journal of Neurobiology</i> , 1999, 41, 221-229.	3.7	123
36	Astrocyte Calcium Signal and Gliotransmission in Human Brain Tissue. <i>Cerebral Cortex</i> , 2013, 23, 1240-1246.	1.6	110

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37	Glial modulation of synaptic transmission in culture. <i>Glia</i> , 2004, 47, 241-248.	2.5	107
38	Endocannabinoids Induce Lateral Long-Term Potentiation of Transmitter Release by Stimulation of Gliotransmission. <i>Cerebral Cortex</i> , 2015, 25, 3699-3712.	1.6	102
39	Astrocytes in endocannabinoid signalling. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130599.	1.8	99
40	Astrocytes process synaptic information. <i>Neuron Glia Biology</i> , 2008, 4, 3-10.	2.0	94
41	Neuron-astrocyte signaling is preserved in the aging brain. <i>Glia</i> , 2017, 65, 569-580.	2.5	89
42	Astrocytes modulate sensory-evoked neuronal network activity. <i>Nature Communications</i> , 2020, 11, 3689.	5.8	89
43	Astrocyte-Neuron Interaction at Tripartite Synapses. <i>Current Drug Targets</i> , 2013, 14, 1220-1224.	1.0	87
44	Estradiol Regulates the Slow Ca^{2+} -Activated K^{+} Current in Hippocampal Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 6338-6344.	1.7	83
45	Astrocytes and Behavior. <i>Annual Review of Neuroscience</i> , 2021, 44, 49-67.	5.0	71
46	Insulin Regulates Astrocytic Glucose Handling Through Cooperation With IGF-I. <i>Diabetes</i> , 2017, 66, 64-74.	0.3	68
47	Artificial Astrocytes Improve Neural Network Performance. <i>PLoS ONE</i> , 2011, 6, e19109.	1.1	66
48	A53T Mutant Alpha-Synuclein Induces Tau-Dependent Postsynaptic Impairment Independently of Neurodegenerative Changes. <i>Journal of Neuroscience</i> , 2018, 38, 9754-9767.	1.7	65
49	Synaptic Regulation of the Slow Ca^{2+} -Activated K^{+} Current in Hippocampal CA1 Pyramidal Neurons: Implication in Epileptogenesis. <i>Journal of Neurophysiology</i> , 2001, 86, 2878-2886.	0.9	63
50	Stimulating Astrocytes to Remember. <i>Cell</i> , 2018, 174, 12-13.	13.5	59
51	Tau is required for progressive synaptic and memory deficits in a transgenic mouse model of ΔE -synucleinopathy. <i>Acta Neuropathologica</i> , 2019, 138, 551-574.	3.9	58
52	The insulin-like growth factor I receptor regulates glucose transport by astrocytes. <i>Glia</i> , 2016, 64, 1962-1971.	2.5	50
53	Synaptic information processing by astrocytes. <i>Journal of Physiology (Paris)</i> , 2006, 99, 92-97.	2.1	46
54	DREAM Mediates cAMP-Dependent, Ca^{2+} -Induced Stimulation of GFAP Gene Expression and Regulates Cortical Astroglialogenesis. <i>Journal of Neuroscience</i> , 2008, 28, 6703-6713.	1.7	45

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55	Opioid-Mediated Astrocyte-Neuron Signaling in the Nucleus Accumbens. <i>Cells</i> , 2019, 8, 586.	1.8	45
56	Astrocyte Signaling Gates Long-Term Depression at Corticostriatal Synapses of the Direct Pathway. <i>Journal of Neuroscience</i> , 2020, 40, 5757-5768.	1.7	40
57	Astrocyte and neuron cooperation in long-term depression. <i>Trends in Neurosciences</i> , 2021, 44, 837-848.	4.2	39
58	Dysregulation of Astrocyte-Neuronal Communication in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7887.	1.8	36
59	Functional MRI in Mice Lacking IP ₃ -Dependent Calcium Signaling in Astrocytes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1599-1603.	2.4	35
60	The Cajal school and the physiological role of astrocytes: a way of thinking. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 33.	0.9	34
61	Astrocyte regulation of neural circuit activity and network states. <i>Glia</i> , 2022, 70, 1455-1466.	2.5	34
62	Astrocyte-neuronal network interplay is disrupted in Alzheimer's disease mice. <i>Glia</i> , 2022, 70, 368-378.	2.5	33
63	Basal Synaptic Transmission: Astrocytes Rule!. <i>Cell</i> , 2011, 146, 675-677.	13.5	27
64	Confocal microscopy for astrocyte in vivo imaging: Recycle and reuse in microscopy. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 51.	1.8	23
65	In vivo knockdown of astroglial glutamate transporters GLT-1 and GLAST increases excitatory neurotransmission in mouse infralimbic cortex: Relevance for depressive-like phenotypes. <i>European Neuropsychopharmacology</i> , 2019, 29, 1288-1294.	0.3	22
66	Astrocytic IGF-1Rs Induce Adenosine-Mediated Inhibitory Downregulation and Improve Sensory Discrimination. <i>Journal of Neuroscience</i> , 2021, 41, 4768-4781.	1.7	21
67	Astrocyte-neuron signaling in the mesolimbic dopamine system: the hidden stars of dopamine signaling. <i>Neuropsychopharmacology</i> , 2021, 46, 1864-1872.	2.8	20
68	Fast, persistent, Ca ²⁺ -dependent K ⁺ current controls graded electrical activity in crayfish muscle. <i>Pflügers Archiv European Journal of Physiology</i> , 1995, 430, 541-551.	1.3	18
69	Autistic-like behavior and cerebellar dysfunction in Bmal1 mutant mice ameliorated by mTORC1 inhibition. <i>Molecular Psychiatry</i> , 2023, 28, 3727-3738.	4.1	16
70	A new hybrid evolutionary mechanism based on unsupervised learning for Connectionist Systems. <i>Neurocomputing</i> , 2007, 70, 2799-2808.	3.5	15
71	Synapse-Specific Regulation Revealed at Single Synapses Is Concealed When Recording Multiple Synapses. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 367.	1.8	12
72	Sensing and Regulating Synaptic Activity by Astrocytes at Tripartite Synapse. <i>Neurochemical Research</i> , 2021, 46, 2580-2585.	1.6	11

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73	Glutamatergic postsynaptic block by Pamphobeteus spider venoms in crayfish. Brain Research, 1992, 571, 109-114.	1.1	10
74	Voltage-Gated and Ca ²⁺ -Activated Conductances Mediating and Controlling Graded Electrical Activity in Crayfish Muscle. Journal of Neurophysiology, 1998, 79, 2338-2344.	0.9	7
75	Electrically Driven Insulation in the Central Nervous System. Science, 2011, 333, 1587-1588.	6.0	7
76	Fast BK-Type Channel Mediates the Ca ²⁺ -Activated K ⁺ Current in Crayfish Muscle. Journal of Neurophysiology, 1999, 82, 1655-1661.	0.9	6
77	GABA Regulation of Burst Firing in Hippocampal Astrocyte Neural Circuit: A Biophysical Model. Frontiers in Cellular Neuroscience, 2019, 13, 335.	1.8	6
78	Novel inward rectifier blocked by Cd ²⁺ in crayfish muscle. Brain Research, 1991, 563, 321-324.	1.1	5
79	Sustained GABA-induced regulation of the L-type Ca ²⁺ conductance in crustacean muscle fibers. Pflugers Archiv European Journal of Physiology, 1997, 434, 272-279.	1.3	5
80	Astrocytes control the critical period of circuit wiring. Science, 2021, 373, 29-30.	6.0	4
81	Swelling Gliotransmission by SWELL1 Channels. Neuron, 2019, 102, 711-713.	3.8	3
82	Metabotropic Regulation of Synaptic Plasticity. Neuroscience, 2021, 456, 1-3.	1.1	0