

Roberto Araya

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,779
citations

516710

16
h-index

642732

23
g-index

34
all docs

34
docs citations

34
times ranked

2404
citing authors

#	ARTICLE	IF	CITATIONS
1	SLM microscopy: scanless two-photon imaging and photostimulation using spatial light modulators. <i>Frontiers in Neural Circuits</i> , 2008, 2, 5.	2.8	297
2	The spine neck filters membrane potentials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17961-17966.	7.1	229
3	Activity-dependent dendritic spine neck changes are correlated with synaptic strength. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2895-904.	7.1	174
4	RuBi-Glutamate: Two-photon and visible-light photoactivation of neurons and dendritic spines. <i>Frontiers in Neural Circuits</i> , 2009, 3, 2.	2.8	172
5	Dendritic spines linearize the summation of excitatory potentials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18799-18804.	7.1	135
6	Dihydropyridine Receptors as Voltage Sensors for a Depolarization-evoked, IP3R-mediated, Slow Calcium Signal in Skeletal Muscle Cells. <i>Journal of General Physiology</i> , 2003, 121, 3-16.	1.9	98
7	Expression of connexins during differentiation and regeneration of skeletal muscle: functional relevance of connexin43. <i>Journal of Cell Science</i> , 2005, 118, 27-37.	2.0	95
8	NOVA2-mediated RNA regulation is required for axonal pathfinding during development. <i>ELife</i> , 2016, 5, .	6.0	90
9	Two-Photon Optical Interrogation of Individual Dendritic Spines with Caged Dopamine. <i>ACS Chemical Neuroscience</i> , 2013, 4, 1163-1167.	3.5	82
10	Sodium channels amplify spine potentials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12347-12352.	7.1	71
11	The formation of skeletal muscle myotubes requires functional membrane receptors activated by extracellular ATP. <i>Brain Research Reviews</i> , 2004, 47, 174-188.	9.0	56
12	Input transformation by dendritic spines of pyramidal neurons. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 141.	1.7	52
13	A spike-timing-dependent plasticity rule for dendritic spines. <i>Nature Communications</i> , 2020, 11, 4276.	12.8	43
14	Presence and Importance of Connexin43 During Myogenesis. <i>Cell Communication and Adhesion</i> , 2003, 10, 451-456.	1.0	40
15	Injury of skeletal muscle and specific cytokines induce the expression of gap junction channels in mouse dendritic cells. <i>Journal of Cellular Physiology</i> , 2007, 211, 649-660.	4.1	30
16	Two-photon microscopy with diffractive optical elements and spatial light modulators. <i>Frontiers in Neuroscience</i> , 2010, 4, .	2.8	24
17	Remodeled cortical inhibition prevents motor seizures in generalized epilepsy. <i>Annals of Neurology</i> , 2018, 84, 436-451.	5.3	19
18	S100 β -mediated astroglial control of firing and input processing in layer 5 pyramidal neurons of the mouse visual cortex. <i>Journal of Physiology</i> , 2021, 599, 677-707.	2.9	15

#	ARTICLE	IF	CITATIONS
19	Selective activation of BK channels in small-headed dendritic spines suppresses excitatory postsynaptic potentials. <i>Journal of Physiology</i> , 2022, 600, 2165-2187.	2.9	15
20	Spatial Light Modulator Microscopy. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.top079517.	0.3	11
21	Probing Single Synapses via the Photolytic Release of Neurotransmitters. <i>Frontiers in Synaptic Neuroscience</i> , 2019, 11, 19.	2.5	10
22	Evolution of dopamine receptors: phylogenetic evidence suggests a later origin of the DRD ₂ and DRD ₄ dopamine receptor gene lineages. <i>PeerJ</i> , 2018, 6, e4593.	2.0	9
23	Presence and Importance of Connexin43 During Myogenesis. <i>Cell Communication and Adhesion</i> , 2003, 10, 451-456.	1.0	6
24	Fast two-photon neuronal imaging and control using a spatial light modulator and ruthenium compounds. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
25	Dendritic Morphology and Function. , 2016, , 297-331.		1
26	Dendritic Function. , 2013, , 221-254.		0
27	Dendritic Morphology and Function. , 2015, , 1-35.		0