

Michelle L Olsen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7848434/michelle-l-olsen-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

2,076
citations

22
h-index

45
g-index

45
ext. papers

2,508
ext. citations

6.5
avg, IF

5
L-index

#	Paper	IF	Citations
41	Astrocyte Kir4.1 ion channel deficits contribute to neuronal dysfunction in Huntington's disease model mice. <i>Nature Neuroscience</i> , 2014 , 17, 694-703	25.5	356
40	Functional implications for Kir4.1 channels in glial biology: from K ⁺ buffering to cell differentiation. <i>Journal of Neurochemistry</i> , 2008 , 107, 589-601	6	224
39	Methyl-CpG-binding protein 2 (MECP2) mutation type is associated with disease severity in Rett syndrome. <i>Journal of Medical Genetics</i> , 2014 , 51, 152-8	5.8	181
38	Expression of voltage-gated chloride channels in human glioma cells. <i>Journal of Neuroscience</i> , 2003 , 23, 5572-82	6.6	131
37	New Insights on Astrocyte Ion Channels: Critical for Homeostasis and Neuron-Glia Signaling. <i>Journal of Neuroscience</i> , 2015 , 35, 13827-35	6.6	126
36	The role of glial-specific Kir4.1 in normal and pathological states of the CNS. <i>Acta Neuropathologica</i> , 2016 , 132, 1-21	14.3	106
35	CLC3 is a critical regulator of the cell cycle in normal and malignant glial cells. <i>Journal of Neuroscience</i> , 2008 , 28, 9205-17	6.6	91
34	Functional expression of Kir4.1 channels in spinal cord astrocytes. <i>Glia</i> , 2006 , 53, 516-28	9	87
33	Mislocalization of Kir channels in malignant glioma. <i>Glia</i> , 2004 , 46, 63-73	9	81
32	BK channels are linked to inositol 1,4,5-triphosphate receptors via lipid rafts: a novel mechanism for coupling [Ca ²⁺] _i to ion channel activation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 31558-68	5.4	76
31	Differential distribution of Kir4.1 in spinal cord astrocytes suggests regional differences in K ⁺ homeostasis. <i>Journal of Neurophysiology</i> , 2007 , 98, 786-93	3.2	68
30	Spinal cord injury causes a wide-spread, persistent loss of Kir4.1 and glutamate transporter 1: benefit of 17 beta-oestradiol treatment. <i>Brain</i> , 2010 , 133, 1013-25	11.2	60
29	Astrocyte morphogenesis is dependent on BDNF signaling via astrocytic TrkB.T1. <i>ELife</i> , 2019 , 8,	8.9	57
28	Novel Applications of Magnetic Cell Sorting to Analyze Cell-Type Specific Gene and Protein Expression in the Central Nervous System. <i>PLoS ONE</i> , 2016 , 11, e0150290	3.7	46
27	DNA methylation functions as a critical regulator of Kir4.1 expression during CNS development. <i>Glia</i> , 2014 , 62, 411-27	9	43
26	RNA sequencing and proteomics approaches reveal novel deficits in the cortex of -deficient mice, a model for Rett syndrome. <i>Molecular Autism</i> , 2017 , 8, 56	6.5	42
25	The α isoform combination dominates the astrocytic Na ⁺ /K ⁺ -ATPase activity and is rendered nonfunctional by the α .G301R familial hemiplegic migraine type 2-associated mutation. <i>Glia</i> , 2017 , 65, 1777-1793	9	33

24	Functional changes in glutamate transporters and astrocyte biophysical properties in a rodent model of focal cortical dysplasia. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 425	6.1	26
23	Magnetic Cell Sorting for In Vivo and In Vitro Astrocyte, Neuron, and Microglia Analysis. <i>Current Protocols in Neuroscience</i> , 2019 , 88, e71	2.7	24
22	Examining potassium channel function in astrocytes. <i>Methods in Molecular Biology</i> , 2012 , 814, 265-81	1.4	23
21	MeCP2 deficiency results in robust Rett-like behavioural and motor deficits in male and female rats. <i>Human Molecular Genetics</i> , 2016 , 25, 3303-3320	5.6	23
20	Development and validation of fluorescence-based and automated patch clamp-based functional assays for the inward rectifier potassium channel Kir4.1. <i>Assay and Drug Development Technologies</i> , 2013 , 11, 532-43	2.1	22
19	Elevated GFAP induces astrocyte dysfunction in caudal brain regions: A potential mechanism for hindbrain involved symptoms in type II Alexander disease. <i>Glia</i> , 2015 , 63, 2285-97	9	20
18	MeCP2 Deficiency Leads to Loss of Glial Kir4.1. <i>ENeuro</i> , 2018 , 5,	3.9	19
17	Modulation of glioma BK channels via erbB2. <i>Journal of Neuroscience Research</i> , 2005 , 81, 179-89	4.4	18
16	Glial Dysfunction in MeCP2 Deficiency Models: Implications for Rett Syndrome. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	16
15	Acute Increases in Protein O-GlcNAcylation Dampen Epileptiform Activity in Hippocampus. <i>Journal of Neuroscience</i> , 2017 , 37, 8207-8215	6.6	15
14	K 5.1-dependent CO ₂ /H ⁺ -sensitive currents contribute to astrocyte heterogeneity across brain regions. <i>Glia</i> , 2021 , 69, 310-325	9	10
13	Adenosine Signaling through A1 Receptors Inhibits Chemosensitive Neurons in the Retrotrapezoid Nucleus. <i>ENeuro</i> , 2018 , 5,	3.9	9
12	Whole-Cell Patch-Clamp Recordings. <i>NeuroMethods</i> , 2007 , 35-68	0.4	8
11	AP-1 and the injury response of the GFAP gene. <i>Journal of Neuroscience Research</i> , 2019 , 97, 149-161	4.4	8
10	Correlating Gene-specific DNA Methylation Changes with Expression and Transcriptional Activity of Astrocytic KCNJ10 (Kir4.1). <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	5
9	DNA methylation: A mechanism for sustained alteration of KIR4.1 expression following central nervous system insult. <i>Glia</i> , 2020 , 68, 1495-1512	9	4
8	Isoflurane inhibits a Kir4.1/5.1-like conductance in neonatal rat brainstem astrocytes and recombinant Kir4.1/5.1 channels in a heterologous expression system. <i>Journal of Neurophysiology</i> , 2020 , 124, 740-749	3.2	3
7	MeCP2 in the regulation of neural activity: Rett syndrome pathophysiological perspectives. <i>Degenerative Neurological and Neuromuscular Disease</i> , 2015 , 5, 103-116	5.4	2

6	Voltage-Activated Ion Channels in Glial Cells 2004 , 112-130		2
5	Microbial community changes in a female rat model of Rett syndrome. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021 , 109, 110259	5.5	2
4	Putative roles of astrocytes in general anesthesia. <i>Current Neuropharmacology</i> , 2021 ,	7.6	2
3	A closer look at astrocyte morphology: Development, heterogeneity, and plasticity at astrocyte leaflets.. <i>Current Opinion in Neurobiology</i> , 2022 , 74, 102550	7.6	1
2	Metabolic Enzyme Alterations and Astrocyte Dysfunction in a Murine Model of Alexander Disease with Severe Reactive Gliosis. <i>Molecular and Cellular Proteomics</i> , 2021 , 100180	7.6	0
1	Glial SIK3: A central player in ion and volume homeostasis in peripheral nerves. <i>Journal of Cell Biology</i> , 2019 , 218, 3888-3889	7.3	