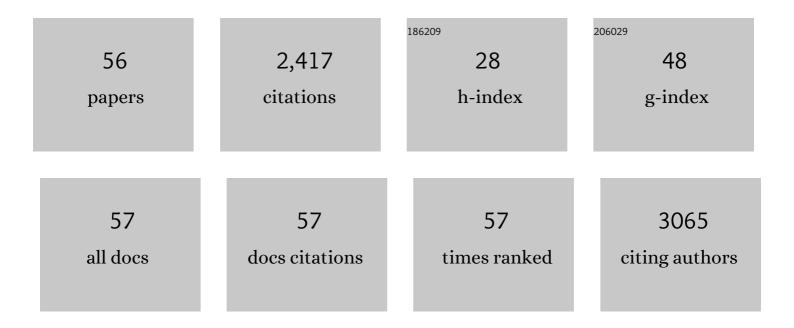
Michael MÃ¹/₄ller

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Lack of the Kir4.1 Channel Subunit Abolishes K+ Buffering Properties of Astrocytes in the Ventral Respiratory Group: Impact on Extracellular K+ Regulation. Journal of Neurophysiology, 2006, 95, 1843-1852.	0.9	168
2	Optical and pharmacological tools to investigate the role of mitochondria during oxidative stress and neurodegeneration. Progress in Neurobiology, 2006, 79, 136-171.	2.8	161
3	Na ⁺ and K ⁺ Concentrations, Extra- and Intracellular Voltages, and the Effect of TTX in Hypoxic Rat Hippocampal Slices. Journal of Neurophysiology, 2000, 83, 735-745.	0.9	146
4	Erythropoietin enhances hippocampal long-term potentiation and memory. BMC Biology, 2008, 6, 37.	1.7	129
5	Oxidative burden and mitochondrial dysfunction in a mouse model of Rett syndrome. Neurobiology of Disease, 2012, 48, 102-114.	2.1	111
6	5-HT ₇ R/G ₁₂ Signaling Regulates Neuronal Morphology and Function in an Age-Dependent Manner. Journal of Neuroscience, 2012, 32, 2915-2930.	1.7	107
7	Ratiometric high-resolution imaging of JC-1 fluorescence reveals the subcellular heterogeneity of astrocytic mitochondria. Pflugers Archiv European Journal of Physiology, 2011, 462, 693-708.	1.3	89
8	Molecular determinants of Ca 2+ â€dependent K + channel function in rat dorsal vagal neurones. Journal of Physiology, 2000, 527, 283-290.	1.3	85
9	Intrinsic Optical Signals in Rat Hippocampal Slices During Hypoxia-Induced Spreading Depression-Like Depolarization. Journal of Neurophysiology, 1999, 82, 1818-1831.	0.9	76
10	Na ⁺ Dependence and the Role of Glutamate Receptors and Na ⁺ Channels in Ion Fluxes During Hypoxia of Rat Hippocampal Slices. Journal of Neurophysiology, 2000, 84, 1869-1880.	0.9	72
11	Activating de novo mutations in NFE2L2 encoding NRF2 cause a multisystem disorder. Nature Communications, 2017, 8, 818.	5.8	72
12	Inhibition of major cationic inward currents prevents spreading depression-like hypoxic depolarization in rat hippocampal tissue slices. Brain Research, 1998, 812, 1-13.	1.1	70
13	A CAG repeat polymorphism of <i>KCNN3</i> predicts SK3 channel function and cognitive performance in schizophrenia. EMBO Molecular Medicine, 2011, 3, 309-319.	3.3	63
14	Mitochondrial organization and motility probed by two-photon microscopy in cultured mouse brainstem neurons. Experimental Cell Research, 2004, 303, 114-27.	1.2	59
15	Expression of constitutively active erythropoietin receptor in pyramidal neurons of cortex and hippocampus boosts higher cognitive functions in mice. BMC Biology, 2011, 9, 27.	1.7	56
16	Potassium-induced enhancement of persistent inward current in hippocampal neurons in isolation and in tissue slices. Brain Research, 2000, 885, 102-110.	1.1	50
17	H2O2-mediated modulation of cytosolic signaling and organelle function in rat hippocampus. Pflugers Archiv European Journal of Physiology, 2009, 458, 937-952.	1.3	50
18	Mitochondrial Inhibition Prior to Oxygen-Withdrawal Facilitates the Occurrence of Hypoxia-Induced Spreading Depression in Rat Hippocampal Slices. Journal of Neurophysiology, 2006, 96, 492-504.	0.9	46

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19	Disturbed redox homeostasis and oxidative stress: Potential players in the developmental regression in Rett syndrome. Neuroscience and Biobehavioral Reviews, 2019, 98, 154-163.	2.9	44
20	Enhanced Hypoxia Susceptibility in Hippocampal Slices From a Mouse Model of Rett Syndrome. Journal of Neurophysiology, 2009, 101, 1016-1032.	0.9	41
21	The free radical scavenger Trolox dampens neuronal hyperexcitability, reinstates synaptic plasticity, and improves hypoxia tolerance in a mouse model of Rett syndrome. Frontiers in Cellular Neuroscience, 2014, 8, 56.	1.8	39
22	Response properties of the genetically encoded optical H2O2 sensor HyPer. Free Radical Biology and Medicine, 2014, 76, 227-241.	1.3	39
23	Effects of chloride transport inhibition and chloride substitution on neuron function and on hypoxic spreading-depression-like depolarization in rat hippocampal slices. Neuroscience, 2000, 97, 33-45.	1.1	38
24	The Critical Role of Spreading Depolarizations in Early Brain Injury: Consensus and Contention. Neurocritical Care, 2022, 37, 83-101.	1.2	36
25	Sulfhydryl Oxidation Reduces Hippocampal Susceptibility to Hypoxia-Induced Spreading Depression by Activating BK Channels. Journal of Neurophysiology, 2005, 94, 1091-1103.	0.9	34
26	ATP-independent anoxic activation of ATP-sensitive K+ channels in dorsal vagal neurons of juvenile mice in situ. Neuroscience, 2002, 109, 313-328.	1.1	33
27	Dynamic, semi-quantitative imaging of intracellular ROS levels and redox status in rat hippocampal neurons. Neurolmage, 2011, 54, 2590-2602.	2.1	31
28	Redox Indicator Mice Stably Expressing Genetically Encoded Neuronal roGFP: Versatile Tools to Decipher Subcellular Redox Dynamics in Neuropathophysiology. Antioxidants and Redox Signaling, 2016, 25, 41-58.	2.5	30
29	Increased Mitochondrial Mass and Cytosolic Redox Imbalance in Hippocampal Astrocytes of a Mouse Model of Rett Syndrome: Subcellular Changes Revealed by Ratiometric Imaging of JC-1 and roGFP1 Fluorescence. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-15.	1.9	30
30	Aberrant redox homoeostasis and mitochondrial dysfunction in Rett syndrome. Biochemical Society Transactions, 2014, 42, 959-964.	1.6	29
31	Tyrphostin AG126 exerts neuroprotection in CNS inflammation by a dual mechanism. Glia, 2015, 63, 1083-1099.	2.5	29
32	Infant Brain Stem Is Prone to the Generation of Spreading Depression During Severe Hypoxia. Journal of Neurophysiology, 2009, 101, 2395-2410.	0.9	28
33	Construction and performance of a custom-built two-photon laser scanning system. Journal Physics D: Applied Physics, 2003, 36, 1747-1757.	1.3	26
34	Imaging of respiratory-related population activity with single-cell resolution. American Journal of Physiology - Cell Physiology, 2007, 292, C508-C516.	2.1	26
35	Systemic Radical Scavenger Treatment of a Mouse Model of Rett Syndrome: Merits and Limitations of the Vitamin E Derivative Trolox. Frontiers in Cellular Neuroscience, 2016, 10, 266.	1.8	26
36	Neuronal Redox-Imbalance in Rett Syndrome Affects Mitochondria as Well as Cytosol, and Is Accompanied by Intensified Mitochondrial O2 Consumption and ROS Release. Frontiers in Physiology, 2019, 10, 479.	1.3	24

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37	Synaptic Alterations in Mouse Models for Alzheimer Disease—A Special Focus on N-Truncated Abeta 4-42. Molecules, 2018, 23, 718.	1.7	20
38	Dynamic Recording of Cell Death in the In Vitro Dorsal Vagal Nucleus of Rats in Response to Metabolic Arrest. Journal of Neurophysiology, 2003, 89, 551-561.	0.9	19
39	Temporo-Spectral Imaging of Intrinsic Optical Signals during Hypoxia-Induced Spreading Depression-Like Depolarization. PLoS ONE, 2012, 7, e43981.	1.1	19
40	Questioning Glutamate Excitotoxicity in Acute Brain Damage: The Importance of Spreading Depolarization. Neurocritical Care, 2022, 37, 11-30.	1.2	18
41	Effects of ATP and derivatives on neuropile glial cells of the leech central nervous system. , 2000, 29, 191-201.		15
42	Altered responses of MeCP2-deficient mouse brain stem to severe hypoxia. Journal of Neurophysiology, 2011, 105, 3067-3079.	0.9	15
43	Towards a consensus on developmental regression. Neuroscience and Biobehavioral Reviews, 2019, 107, 3-5.	2.9	14
44	Ionic mechanism of 4-aminopyridine action on leech neuropile glial cells. Brain Research, 1999, 826, 63-73.	1.1	13
45	Metabolomic Fingerprint of Mecp2-Deficient Mouse Cortex: Evidence for a Pronounced Multi-Facetted Metabolic Component in Rett Syndrome. Cells, 2021, 10, 2494.	1.8	12
46	Impaired hippocampal Ca2+ homeostasis and concomitant K+ channel dysfunction in a mouse model of rett syndrome during anoxia. Neuroscience, 2010, 171, 300-315.	1.1	11
47	Single potassium channels in neuropile glial cells of the leech central nervous system. Brain Research, 1997, 769, 245-255.	1.1	10
48	Reconfiguration of respiratory-related population activity in a rostrally tilted transversal slice preparation following blockade of inhibitory neurotransmission in neonatal rats. Pflugers Archiv European Journal of Physiology, 2008, 457, 185-195.	1.3	9
49	Overshooting Subcellular Redox-Responses in Rett-Mouse Hippocampus during Neurotransmitter Stimulation. Cells, 2020, 9, 2539.	1.8	9
50	Macroscopic and single-channel chloride currents in neuropile glial cells of the leech central nervous system. Brain Research, 1998, 781, 307-319.	1.1	8
51	Sulfhydryl oxidation: A potential strategy to achieve neuroprotection during severe hypoxia?. Neuroscience, 2008, 152, 903-912.	1.1	8
52	Restraint Stress Intensifies Interstitial K+ Accumulation during Severe Hypoxia. Frontiers in Pharmacology, 2012, 3, 53.	1.6	7
53	Single ion channel currents in neuropile glial cells of the leech central nervous system. Glia, 1993, 9, 260-268.	2.5	5
54	Selective expression of a constitutively active erythropoietin receptor in <scp>GABA</scp> ergic neurons alters hippocampal network properties without affecting cognition. Journal of Neurochemistry, 2016, 136, 698-705.	2.1	4

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55	Live Imaging of Mitochondrial ROS Production and Dynamic Redox Balance in Neurons. Neuromethods, 2017, , 179-197.	0.2	2

Absolute Threshold. , 2008, , 3-3.