

Swen HÃ¼lsmann

List of Publications by Year in descending order

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76
papers

3,481
citations

218592

26
h-index

143943

57
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79
all docs

79
docs citations

79
times ranked

3782
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic Control of Transmitter Turnover at Glycinergic Synapses by GlyT1, GlyT2, and ASC-1. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2561.	1.8	13
2	Non-Invasive Optical Motion Tracking Allows Monitoring of Respiratory Dynamics in Dystrophin-Deficient Mice. <i>Cells</i> , 2022, 11, 918.	1.8	3
3	The post-inspiratory complex (PiCo), what is the evidence?. <i>Journal of Physiology</i> , 2021, 599, 357-359.	1.3	2
4	Inspiratory Off-Switch Mediated by Optogenetic Activation of Inhibitory Neurons in the preBötzing Complex In Vivo. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2019.	1.8	11
5	Simple low dose radiography allows precise lung volume assessment in mice. <i>Scientific Reports</i> , 2021, 11, 4163.	1.6	10
6	Evaluation of a mechanical lung model to test small animal whole body plethysmography. <i>Scientific Reports</i> , 2021, 11, 17099.	1.6	8
7	CMTM6 expressed on the adaxonal Schwann cell surface restricts axonal diameters in peripheral nerves. <i>Nature Communications</i> , 2020, 11, 4514.	5.8	27
8	A Potential Role of the Renin-Angiotensin-System for Disturbances of Respiratory Chemosensitivity in Acute Respiratory Distress Syndrome and Severe Acute Respiratory Syndrome. <i>Frontiers in Physiology</i> , 2020, 11, 588248.	1.3	6
9	GABA-Glycine Cotransmitting Neurons in the Ventrolateral Medulla: Development and Functional Relevance for Breathing. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 517.	1.8	21
10	Probing the function of glycinergic neurons in the mouse respiratory network using optogenetics. <i>Respiratory Physiology and Neurobiology</i> , 2019, 265, 141-152.	0.7	18
11	The postnatal development of ultrasonic vocalization-associated breathing is altered in glycine transporter 2-deficient mice. <i>Journal of Physiology</i> , 2019, 597, 173-191.	1.3	19
12	Facts and challenges in respiratory neurobiology. <i>Respiratory Physiology and Neurobiology</i> , 2018, 258, 104-107.	0.7	23
13	Cell Type-Dependent Activation Sequence During Rhythmic Bursting in the PreBötzing Complex in Respiratory Rhythmic Slices From Mice. <i>Frontiers in Physiology</i> , 2018, 9, 1219.	1.3	9
14	Persistent Expression of Serotonin Receptor 5b Alters Breathing Behavior in Male MeCP2 Knockout Mice. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 28.	1.4	12
15	A neuronal role of the Alanine-Serine-Cysteine-1 transporter (SLC7A10, Asc-1) for glycine inhibitory transmission and respiratory pattern. <i>Scientific Reports</i> , 2018, 8, 8536.	1.6	18
16	Breathing disturbances in a model of Rett syndrome: A potential involvement of the glycine receptor $\hat{1}\pm 3$ subunit?. <i>Respiratory Physiology and Neurobiology</i> , 2018, 248, 43-47.	0.7	10
17	A computational model of the respiratory network challenged and optimized by data from optogenetic manipulation of glycinergic neurons. <i>Neuroscience</i> , 2017, 347, 111-122.	1.1	8
18	Limitations of Sulforhodamine 101 for Brain Imaging. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 44.	1.8	31

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19	Analysis of the Serotonergic System in a Mouse Model of Rett Syndrome Reveals Unusual Upregulation of Serotonin Receptor 5b. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 61.	1.4	25
20	Amyloid-precursor Like Proteins APLP1 and APLP2 Are Dispensable for Normal Development of the Neonatal Respiratory Network. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 189.	1.4	5
21	Systemic Radical Scavenger Treatment of a Mouse Model of Rett Syndrome: Merits and Limitations of the Vitamin E Derivative Trolox. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 266.	1.8	26
22	GlyT2-Dependent Preservation of MECP2-Expression in Inhibitory Neurons Improves Early Respiratory Symptoms but Does Not Rescue Survival in a Mouse Model of Rett Syndrome. <i>Frontiers in Physiology</i> , 2016, 7, 385.	1.3	13
23	Unspecific labelling of oligodendrocytes by sulforhodamine 101 depends on astrocytic uptake via the thyroid hormone transporter OATP1C1 (SLCO1C1). <i>Neuroscience Letters</i> , 2016, 631, 13-18.	1.0	20
24	X-Ray based Lung Function measurement—a sensitive technique to quantify lung function in allergic airway inflammation mouse models. <i>Scientific Reports</i> , 2016, 6, 36297.	1.6	13
25	Respiratory calcium fluctuations in low-frequency oscillating astrocytes in the pre-Bötzing complex. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 11-17.	0.7	28
26	Presynaptic facilitation of glycinergic mIPSC is reduced in mice lacking $\hat{\pm}3$ glycine receptor subunits. <i>Neuroscience</i> , 2016, 320, 1-7.	1.1	6
27	Norepinephrine-induced calcium signaling in astrocytes in the respiratory network of the ventrolateral medulla. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 18-23.	0.7	15
28	Inducible targeting of CNS astrocytes in Aldh1l1-CreERT2 BAC transgenic mice. <i>F1000Research</i> , 2016, 5, 2934.	0.8	44
29	The alanine-serine-cysteine (Asc) transporter controls glycine levels in the brain and is required for glycinergic inhibitory transmission. <i>EMBO Reports</i> , 2015, 16, 590-598.	2.0	48
30	The multispecific thyroid hormone transporter OATP1C1 mediates cell-specific sulforhodamine 101-labeling of hippocampal astrocytes. <i>Brain Structure and Function</i> , 2015, 220, 193-203.	1.2	71
31	Genetic ablation of VIAAT in glycinergic neurons causes a severe respiratory phenotype and perinatal death. <i>Brain Structure and Function</i> , 2015, 220, 2835-2849.	1.2	32
32	A Transgenic Mouse Line Expressing the Red Fluorescent Protein tdTomato in GABAergic Neurons. <i>PLoS ONE</i> , 2015, 10, e0129934.	1.1	30
33	Characterization of the MeCP2R168X Knockin Mouse Model for Rett Syndrome. <i>PLoS ONE</i> , 2014, 9, e115444.	1.1	32
34	Mixed miniature postsynaptic currents resulting from co-release of glycine and GABA recorded from glycinergic neurons in the neonatal respiratory network. <i>European Journal of Neuroscience</i> , 2013, 37, 1229-1241.	1.2	35
35	Heterologous Expression of a Glial Kir Channel (KCNJ10) in a Neuroblastoma Spinal Cord (NSC-34) Cell Line. <i>Physiological Research</i> , 2013, 62, 95-105.	0.4	4
36	Active Sulforhodamine 101 Uptake into Hippocampal Astrocytes. <i>PLoS ONE</i> , 2012, 7, e49398.	1.1	52

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37	Restraint Stress Intensifies Interstitial K ⁺ Accumulation during Severe Hypoxia. <i>Frontiers in Pharmacology</i> , 2012, 3, 53.	1.6	7
38	Dual oscillator model of the respiratory neuronal network generating quantal slowing of respiratory rhythm. <i>Journal of Computational Neuroscience</i> , 2011, 30, 225-240.	0.6	17
39	Determinants of Functional Coupling between Astrocytes and Respiratory Neurons in the Pre-Bötzing Complex. <i>PLoS ONE</i> , 2011, 6, e26309.	1.1	37
40	Serotonin receptor 1A modulated phosphorylation of glycine receptor $\hat{\pm}3$ controls breathing in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 4118-4128.	3.9	89
41	Development of synaptic inhibition in glycine transporter 2 deficient mice. <i>Molecular and Cellular Neurosciences</i> , 2010, 44, 342-352.	1.0	23
42	Glycinergic Interneurons in the Respiratory Network of the Rhythmic Slice Preparation. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 97-100.	0.8	13
43	Generation of functional neurons and glia from multipotent adult mouse germ-line stem cells. <i>Stem Cell Research</i> , 2009, 2, 139-154.	0.3	41
44	Astrocytic calcium signals induced by neuromodulators via functional metabotropic receptors in the ventral respiratory group of neonatal mice. <i>Glia</i> , 2009, 57, 815-827.	2.5	28
45	Glycinergic interneurons are functionally integrated into the inspiratory network of mouse medullary slices. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 458, 459-469.	1.3	98
46	In vivo labeling and in vitro characterisation of central complex neurons involved in the control of sound production. <i>Journal of Neuroscience Methods</i> , 2009, 183, 202-212.	1.3	9
47	Developmental changes of serotonin 4(a) receptor expression in the rat pre-Bötzing complex. <i>Journal of Comparative Neurology</i> , 2008, 506, 775-790.	0.9	21
48	Possible Roles of the Weakly Inward Rectifying K ⁺ Channel Kir4.1 (KCNJ10) in the Pre-Bötzing Complex. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 109-113.	0.8	3
49	Transgenic expression of fluorescent proteins in respiratory neurons. <i>Respiratory Physiology and Neurobiology</i> , 2007, 159, 108-114.	0.7	13
50	Impaired GABAergic transmission and altered hippocampal synaptic plasticity in collybistin-deficient mice. <i>EMBO Journal</i> , 2007, 26, 3888-3899.	3.5	166
51	Calcium influx mediated by the inwardly rectifying K ⁺ channel Kir4.1 (KCNJ10) at low external K ⁺ concentration. <i>Cell Calcium</i> , 2007, 42, 271-280.	1.1	39
52	Hyperekplexia Phenotype of Glycine Receptor $\hat{\pm}1$ Subunit Mutant Mice Identifies Zn ²⁺ as an Essential Endogenous Modulator of Glycinergic Neurotransmission. <i>Neuron</i> , 2006, 52, 679-690.	3.8	126
53	Lack of the Kir4.1 Channel Subunit Abolishes K ⁺ Buffering Properties of Astrocytes in the Ventral Respiratory Group: Impact on Extracellular K ⁺ Regulation. <i>Journal of Neurophysiology</i> , 2006, 95, 1843-1852.	0.9	168
54	Calcium-regulated potassium currents secure respiratory rhythm generation after loss of glycinergic inhibition. <i>European Journal of Neuroscience</i> , 2006, 24, 145-154.	1.2	22

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55	Progressive loss of a glial potassium channel (KCNJ10) in the spinal cord of the SOD1 (G93A) transgenic mouse model of amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , 2006, 99, 900-912.	2.1	90
56	Glycine transporter 1 expression in the ventral respiratory group is restricted to protoplasmic astrocytes. <i>Brain Research</i> , 2006, 1119, 182-189.	1.1	23
57	Diversity of Functional Astroglial Properties in the Respiratory Network. <i>Journal of Neuroscience</i> , 2004, 24, 1358-1365.	1.7	86
58	Astroglial processes show spontaneous motility at active synaptic terminals in situ. <i>European Journal of Neuroscience</i> , 2004, 20, 2235-2239.	1.2	250
59	Drebrin Is a Novel Connexin-43 Binding Partner that Links Gap Junctions to the Submembrane Cytoskeleton. <i>Current Biology</i> , 2004, 14, 650-658.	1.8	439
60	Blockade of astrocyte metabolism causes delayed excitation as revealed by voltage-sensitive dyes in mouse brainstem slices. <i>Experimental Brain Research</i> , 2003, 150, 117-121.	0.7	19
61	Bioelectrical behaviour of hypoxic human neocortical tissue under the influence of nimodipine and dimethyl sulfoxide. <i>Brain Research</i> , 2003, 959, 199-205.	1.1	1
62	Inactivation of the Glycine Transporter 1 Gene Discloses Vital Role of Glial Glycine Uptake in Glycinergic Inhibition. <i>Neuron</i> , 2003, 40, 785-796.	3.8	298
63	Deletion of the Mouse Glycine Transporter 2 Results in a Hyperekplexia Phenotype and Postnatal Lethality. <i>Neuron</i> , 2003, 40, 797-806.	3.8	289
64	Insulin-Like Growth Factor-1 Exerts Ca ²⁺ -Dependent Positive Inotropic Effects in Failing Human Myocardium. <i>Circulation Research</i> , 2003, 92, 169-176.	2.0	68
65	Metabotropic glutamate receptors and blockade of glial Krebs cycle depress glycinergic synaptic currents of mouse hypoglossal motoneurons. <i>European Journal of Neuroscience</i> , 2000, 12, 239-246.	1.2	17
66	Metabolic coupling between glia and neurons is necessary for maintaining respiratory activity in transverse medullary slices of neonatal mouse. <i>European Journal of Neuroscience</i> , 2000, 12, 856-862.	1.2	91
67	Acute protective effect of nimodipine and dimethyl sulfoxide against hypoxic and ischemic damage in brain slices. <i>Brain Research</i> , 2000, 887, 316-322.	1.1	21
68	Neuroprotection by 21-aminosteroids: insights from latencies of anoxic terminal negativity in hippocampus slices of guinea pig. <i>Neurological Research</i> , 1999, 21, 305-308.	0.6	4
69	Modulation of glycinergic synaptic current kinetics by octanol in mouse hypoglossal motoneurons. <i>Pflügers Archiv European Journal of Physiology</i> , 1999, 438, 656-664.	1.3	6
70	Dimethyl sulfoxide increases latency of anoxic terminal negativity in hippocampal slices of guinea pig in vitro. <i>Neuroscience Letters</i> , 1999, 261, 1-4.	1.0	21
71	Neuroprotection of mild hypothermia: differential effects. <i>Brain Research</i> , 1998, 786, 267-269.	1.1	13
72	Characterization of ion currents elicited by a stream of fluid during spontaneous and ligand-induced chloride current oscillation in <i>Xenopus laevis</i> oocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 1998, 436, 49-55.	1.3	6

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73	Management of a ruptured cerebral aneurysm in infancy. Report of a case of a ten-month-old boy. Neurosurgical Review, 1998, 21, 161-166.	1.2	21
74	Hypothermia as cerebroprotective measure. Experimental hypoxic exposure of brain slices and clinical application in critically reduced cerebral perfusion pressure. Neurological Research, 1998, 20, S61-S65.	0.6	9
75	Repetitive hypoxic exposure of brain slices and electrophysiological responses as an experimental model for investigation of cerebroprotective measurements. Neurological Research, 1996, 18, 367-369.	0.6	16
76	Anoxic terminal negative DC-shift in human neocortical slices in vitro. Brain Research, 1996, 741, 174-179.	1.1	17