

Araya Ruangkittisakul

List of Publications by Year in descending order

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37
papers

1,326
citations

393982

19
h-index

433756

31
g-index

37
all docs

37
docs citations

37
times ranked

1558
citing authors

#	ARTICLE	IF	CITATIONS
1	High Sensitivity to Neuromodulator-Activated Signaling Pathways at Physiological [K ⁺] of Confocally Imaged Respiratory Center Neurons in On-Line-Calibrated Newborn Rat Brainstem Slices. <i>Journal of Neuroscience</i> , 2006, 26, 11870-11880.	1.7	140
2	A Bright and Fast Red Fluorescent Protein Voltage Indicator That Reports Neuronal Activity in Organotypic Brain Slices. <i>Journal of Neuroscience</i> , 2016, 36, 2458-2472.	1.7	137
3	TMX1 determines cancer cell metabolism as a thiol-based modulator of ER ^{Ca} mitochondria Ca ²⁺ flux. <i>Journal of Cell Biology</i> , 2016, 214, 433-444.	2.3	113
4	Generation of Eupnea and Sighs by a Spatiochemically Organized Inspiratory Network. <i>Journal of Neuroscience</i> , 2008, 28, 2447-2458.	1.7	107
5	Glia Contribute to the Purinergic Modulation of Inspiratory Rhythm-Generating Networks. <i>Journal of Neuroscience</i> , 2010, 30, 3947-3958.	1.7	92
6	Amyloid β (A β) Peptide Directly Activates Amylin-3 Receptor Subtype by Triggering Multiple Intracellular Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2012, 287, 18820-18830.	1.6	80
7	A long Stokes shift red fluorescent Ca ²⁺ indicator protein for two-photon and ratiometric imaging. <i>Nature Communications</i> , 2014, 5, 5262.	5.8	75
8	Genetically Encoded Glutamate Indicators with Altered Color and Topology. <i>ACS Chemical Biology</i> , 2018, 13, 1832-1837.	1.6	67
9	K ⁺ and Ca ²⁺ dependence of inspiratory-related rhythm in novel α -calibrated mouse brainstem slices. <i>Respiratory Physiology and Neurobiology</i> , 2011, 175, 37-48.	0.7	56
10	Identification of the pre-B ζ tzinger complex inspiratory center in calibrated α -sandwich slices from newborn mice with fluorescent Dbx1 interneurons. <i>Physiological Reports</i> , 2014, 2, e12111.	0.7	54
11	Opioids prolong and anoxia shortens delay between onset of preinspiratory (pFRG) and inspiratory (preB ζ tC) network bursting in newborn rat brainstems. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 458, 571-587.	1.3	50
12	Dependence on extracellular Ca ²⁺ /K ⁺ antagonism of inspiratory centre rhythms in slices and <i>in vivo</i> preparations of newborn rat brainstem. <i>Journal of Physiology</i> , 2007, 584, 489-508.	1.3	41
13	Structure-function analysis of rhythmogenic inspiratory pre-B ζ tzinger complex networks in α -calibrated newborn rat brainstem slices. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 158-178.	0.7	39
14	Microfluidic cell sorter-aided directed evolution of a protein-based calcium ion indicator with an inverted fluorescent response. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 714-725.	0.6	36
15	Activity and metabolism-related Ca ²⁺ and mitochondrial dynamics in co-cultured human fetal cortical neurons and astrocytes. <i>Neuroscience</i> , 2013, 250, 520-535.	1.1	25
16	Fluorescence imaging of active respiratory networks. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 26-38.	0.7	23
17	Methylxanthine reversal of opioid-evoked inspiratory depression via phosphodiesterase-4 blockade. <i>Respiratory Physiology and Neurobiology</i> , 2010, 172, 94-105.	0.7	22
18	Nerve growth factor acts through the TrkA receptor to protect sensory neurons from the damaging effects of the HIV-1 viral protein, Vpr. <i>Neuroscience</i> , 2013, 252, 512-525.	1.1	22

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19	Reversal by phosphodiesterase-4 blockers of in vitro apnea in the isolated brainstem-spinal cord preparation from newborn rats. <i>Neuroscience Letters</i> , 2006, 401, 194-198.	1.0	21
20	Silencing by raised extracellular Ca ²⁺ of pre-Bötzing complex neurons in newborn rat brainstem slices without change of membrane potential or input resistance. <i>Neuroscience Letters</i> , 2009, 456, 25-29.	1.0	20
21	Anatomically "Calibrated" Isolated Respiratory Networks from Newborn Rodents. <i>Neuromethods</i> , 2012, , 61-124.	0.2	18
22	Spontaneous Neural Network Oscillations in Hippocampus, Cortex, and Locus Coeruleus of Newborn Rat and Piglet Brain Slices. <i>Neuromethods</i> , 2012, , 315-356.	0.2	15
23	Methylxanthines do not affect rhythmogenic pre-BötC inspiratory network activity but impair bursting of pre-BötC-driven motoneurons. <i>Neuroscience</i> , 2013, 255, 158-176.	1.1	14
24	Control of Breathing by "Nerve Glue". <i>Science Signaling</i> , 2010, 3, pe41.	1.6	13
25	Indirect Opioid Actions on Inspiratory pre-Bötzing Complex Neurons in Newborn Rat Brainstem Slices. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 75-79.	0.8	12
26	Methylxanthine-evoked perturbation of spontaneous and evoked activities in isolated newborn rat hippocampal networks. <i>Neuroscience</i> , 2015, 301, 106-120.	1.1	11
27	Suction electrode recording in locus coeruleus of newborn rat brain slices reveals network bursting comprising summated non-synchronous spiking. <i>Neuroscience Letters</i> , 2018, 671, 103-107.	1.0	9
28	Caffeine Reversal of Opioid-Evoked and Endogenous Inspiratory Depression in Perinatal Rat En Bloc Medullas and Slices. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 123-127.	0.8	6
29	Depression by Ca ²⁺ and Stimulation by K ⁺ of Fictive Inspiratory Rhythm in Newborn Rat Brainstem Slices. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 91-95.	0.8	3
30	Anoxia Response in Physiological Potassium of the Isolated Inspiratory Center in Calibrated Newborn Rat Brainstem Slices. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 91-98.	0.8	3
31	Expiratory abdominal muscle nerve is active at flexor phase, while inspiratory phrenic nerve is not active during locomotion evoked by 5-HT and NMDA in the neonatal rat. <i>Neuroscience Research</i> , 2021, 174, 9-9.	1.0	1
32	Multiphoton/Confocal Ca ²⁺ -Imaging of Inspiratory pre-Bötzing Complex Neurons at the Rostral or Caudal Surface of Newborn Rat Brainstem Slices. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 81-85.	0.8	1
33	Glial contribution to the modulation of pre-Bötzing Complex rhythm generating networks by ATP. <i>FASEB Journal</i> , 2009, 23, .	0.2	0
34	Multiphoton calcium imaging of methylxanthine-evoked reversal of opioid depression of inspiratory-related pre-Bötzing complex rhythm in newborn rat brainstem slices. <i>FASEB Journal</i> , 2010, 24, 614.5.	0.2	0
35	Disturbed inspiratory rhythm in rat brainstem slices by seizure-like bursting due to theophylline-evoked GABA A receptor block. <i>FASEB Journal</i> , 2010, 24, .	0.2	0
36	Methylxanthine-evoked seizure-like perturbation of isolated newborn rat hippocampal and cortical networks. <i>FASEB Journal</i> , 2011, 25, lb522.	0.2	0

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37	Persistence of inspiratory rhythm in calibrated newborn rat pre-Bötzinger complex slices upon blockade of store-mediated calcium signaling. FASEB Journal, 2012, 26, 895.2.	0.2	0