

Yasumasa Okada

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,406
citations

393982

19
h-index

344852

36
g-index

53
all docs

53
docs citations

53
times ranked

1674
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherence analysis of the calcium activity of putative astrocytic and neuronal cells on the L5 ventral horn and neural output in activated lumbar CPG networks. <i>Neuroscience Letters</i> , 2022, 771, 136421.	1.0	1
2	Novel oxygen sensing mechanism in the spinal cord involved in cardiorespiratory responses to hypoxia. <i>Science Advances</i> , 2022, 8, eabm1444.	4.7	13
3	Mechanisms underlying the sensation of dyspnea. <i>Respiratory Investigation</i> , 2021, 59, 66-80.	0.9	22
4	Calcium Imaging Analysis of Cellular Responses to Hypercapnia and Hypoxia in the NTS of Newborn Rat Brainstem Preparation. <i>Frontiers in Physiology</i> , 2021, 12, 645904.	1.3	7
5	Activation of Astrocytes in the Persistence of Post-hypoxic Respiratory Augmentation. <i>Frontiers in Physiology</i> , 2021, 12, 757731.	1.3	4
6	Blockade of astrocytic activation delays the occurrence of severe hypoxia-induced seizure and respiratory arrest in mice. <i>Journal of Comparative Neurology</i> , 2020, 528, 1257-1264.	0.9	7
7	O ₂ -Dependent Protein Internalization Underlies Astrocytic Sensing of Acute Hypoxia by Restricting Multimodal TRPA1 Channel Responses. <i>Current Biology</i> , 2020, 30, 3378-3396.e7.	1.8	32
8	Structural and functional connectivity from the dorsomedial hypothalamus to the ventral medulla as a chronological amplifier of sympathetic outflow. <i>Scientific Reports</i> , 2020, 10, 13325.	1.6	11
9	Anatomy and Physiology of Respiratory Control System: How Are Respiratory Controlling Cells Communicating in the Brain?. <i>Respiratory Disease Series</i> , 2020, , 3-22.	0.1	2
10	The role of the hypothalamus in modulation of respiration. <i>Respiratory Physiology and Neurobiology</i> , 2019, 265, 172-179.	0.7	57
11	Structural and functional identification of two distinct inspiratory neuronal populations at the level of the phrenic nucleus in the rat cervical spinal cord. <i>Brain Structure and Function</i> , 2019, 224, 57-72.	1.2	11
12	The 23-valent pneumococcal polysaccharide vaccine in patients with rheumatoid arthritis: a double-blinded, randomized, placebo-controlled trial. <i>Arthritis Research and Therapy</i> , 2017, 19, 15.	1.6	25
13	The respiratory control mechanisms in the brainstem and spinal cord: integrative views of the neuroanatomy and neurophysiology. <i>Journal of Physiological Sciences</i> , 2017, 67, 45-62.	0.9	113
14	Oxygen Sensing Mechanisms: A Physiological Penumbra. <i>Advances in Experimental Medicine and Biology</i> , 2016, 952, 1-8.	0.8	8
15	Disharmony between wake- and respiration-promoting activities: effects of modafinil on ventilatory control in rodents. <i>Respiratory Research</i> , 2016, 17, 148.	1.4	2
16	Effects of arundic acid, an astrocytic modulator, on the cerebral and respiratory functions in severe hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 24-29.	0.7	20
17	Pneumococcal polysaccharide vaccination in rheumatoid arthritis patients receiving tacrolimus. <i>Arthritis Research and Therapy</i> , 2015, 17, 149.	1.6	27
18	Respiratory Toxicity of Dimethyl Sulfoxide. <i>Advances in Experimental Medicine and Biology</i> , 2015, 885, 89-96.	0.8	16

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19	Anatomical and functional pathways of rhythmogenic inspiratory premotor information flow originating in the pre-Bötzing complex in the rat medulla. <i>Neuroscience</i> , 2014, 268, 194-211.	1.1	28
20	Preinspiratory calcium rise in putative pre-Bötzing complex astrocytes. <i>Journal of Physiology</i> , 2012, 590, 4933-4944.	1.3	67
21	Spatiotemporal and anatomical analyses of P2X receptor-mediated neuronal and glial processing of sensory signals in the rat dorsal horn. <i>Pain</i> , 2011, 152, 2085-2097.	2.0	23
22	Vesicular Glutamate Transporter 2-Immunoreactive Synapses onto Phrenic Motoneurons in the Neonatal Rat. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 189-192.	0.8	1
23	Anatomical Changes of Phrenic Motoneurons During Development. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 33-36.	0.8	1
24	Parametric Modeling Analysis of Optical Imaging Data on Neuronal Activities in the Brain. <i>Springer Optimization and Its Applications</i> , 2010, , 213-225.	0.6	0
25	Fluorescence imaging of active respiratory networks. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 26-38.	0.7	23
26	A novel statistical analysis of voltage-imaging data by structural time series modeling and its application to the respiratory neuronal network. <i>Neuroscience Research</i> , 2009, 63, 165-171.	1.0	4
27	Chemosensitive Neuronal Network Organization in the Ventral Medulla Analyzed by Dynamic Voltage-Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 353-357.	0.8	7
28	Hyperventilation and finger exercise increase venous-arterial Pco2 and pH differences. <i>American Journal of Emergency Medicine</i> , 2008, 26, 975-980.	0.7	10
29	Age-dependent involvement of ATP-sensitive potassium channel Kir6.2 in hypoxic ventilatory depression of mouse. <i>Respiratory Physiology and Neurobiology</i> , 2008, 162, 80-84.	0.7	6
30	Respiratory neuron group in the high cervical spinal cord discovered by optical imaging. <i>NeuroReport</i> , 2008, 19, 1739-1743.	0.6	32
31	Postnatal developmental changes in activation profiles of the respiratory neuronal network in the rat ventral medulla. <i>Journal of Physiology</i> , 2007, 585, 175-186.	1.3	47
32	Respiratory and metabolic acidosis differentially affect the respiratory neuronal network in the ventral medulla of neonatal rats. <i>European Journal of Neuroscience</i> , 2007, 26, 2834-2843.	1.2	23
33	Potassium Channels in the Central Control of Breathing. <i>Advances in Experimental Medicine and Biology</i> , 2006, 580, 339-344.	0.8	4
34	Electrophysiological and morphological characteristics of GABAergic respiratory neurons in the mouse pre-Bötzing complex. <i>European Journal of Neuroscience</i> , 2006, 23, 667-674.	1.2	76
35	The Cell-Vessel Architecture Model for the Central Respiratory Chemoreceptor. , 2006, 580, 233-238.		4
36	Significance of extracellular potassium in central respiratory control studied in the isolated brainstem-spinal cord preparation of the neonatal rat. <i>Respiratory Physiology and Neurobiology</i> , 2005, 146, 21-32.	0.7	18

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37	Functional Connection From the Surface Chemosensitive Region to the Respiratory Neuronal Network in the Rat Medulla. <i>Advances in Experimental Medicine and Biology</i> , 2004, 551, 45-51.	0.8	4
38	Mechanism of Propofol-Induced Central Respiratory Depression in Neonatal Rats. <i>Advances in Experimental Medicine and Biology</i> , 2004, 551, 221-226.	0.8	5
39	Electrical stimulation of the rabbit pulmonary artery increases respiratory output. <i>Respiratory Physiology and Neurobiology</i> , 2004, 140, 209-217.	0.7	7
40	Optical mapping of pontine chemosensitive regions of neonatal rat. <i>Neuroscience Letters</i> , 2004, 366, 103-106.	1.0	14
41	A Neuronal Mechanism of Propofol-Induced Central Respiratory Depression in Newborn Rats. <i>Anesthesia and Analgesia</i> , 2004, 99, 49-55.	1.1	21
42	Mixed Venous CO ₂ and Ventilation During Exercise and CO ₂ -Rebreathing in Humans. <i>Advances in Experimental Medicine and Biology</i> , 2004, 551, 269-274.	0.8	0
43	Synaptic Blockade Plays a Major Role in the Neural Disturbance of Experimental Spinal Cord Compression. <i>Journal of Neurotrauma</i> , 2003, 20, 1365-1376.	1.7	12
44	Anatomical arrangement of hypercapnia-activated cells in the superficial ventral medulla of rats. <i>Journal of Applied Physiology</i> , 2002, 93, 427-439.	1.2	99
45	Optical Recording of The Neuronal Activity in The Brainstem-Spinal Cord. <i>Advances in Experimental Medicine and Biology</i> , 2001, 499, 113-118.	0.8	10
46	Respiratory Suppression Induced by Nicotine Withdrawal in the Neonatal Rat Brainstem. <i>Advances in Experimental Medicine and Biology</i> , 2001, 499, 187-194.	0.8	2
47	Increased Expression of Transforming Growth Factor- β 1 in Small Airway Epithelium from Tobacco Smokers and Patients with Chronic Obstructive Pulmonary Disease (COPD). <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 1476-1483.	2.5	332
48	Cytoarchitecture of central chemoreceptors in the mammalian ventral medulla. <i>Respiration Physiology</i> , 2001, 129, 13-23.	2.8	29
49	Increased expression of inflammatory mediators in small-airway epithelium from tobacco smokers. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000, 278, L906-L913.	1.3	73
50	Effects of extracellular calcium and magnesium on central respiratory control in the brainstem-spinal cord of neonatal rat. <i>Brain Research</i> , 1998, 786, 194-204.	1.1	33
51	The Role of Recombinant Human Tissue-Type Plasminogen Activator in the Treatment of Acute Pulmonary Thromboembolism. <i>Internal Medicine</i> , 1992, 31, 885-892.	0.3	13