

Edward J Zuperku

List of Publications by Year in descending order

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53
papers

1,039
citations

567281

15
h-index

434195

31
g-index

56
all docs

56
docs citations

56
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	Central pathways of pulmonary and lower airway vagal afferents. <i>Journal of Applied Physiology</i> , 2006, 101, 618-627.	2.5	392
2	Pontine μ -opioid receptors mediate bradypnea caused by intravenous remifentanil infusions at clinically relevant concentrations in dogs. <i>Journal of Neurophysiology</i> , 2012, 108, 2430-2441.	1.8	71
3	Clinically Relevant Infusion Rates of μ -Opioid Agonist Remifentanil Cause Bradypnea in Decerebrate Dogs but not Via Direct Effects in the pre-Bötzing Complex Region. <i>Journal of Neurophysiology</i> , 2010, 103, 409-418.	1.8	55
4	Gain modulation of respiratory neurons. <i>Respiratory Physiology and Neurobiology</i> , 2002, 131, 121-133.	1.6	46
5	CrossTalk opposing view: The pre-Bötzing complex is not essential for respiratory depression following systemic administration of opioid analgesics. <i>Journal of Physiology</i> , 2014, 592, 1163-1166.	2.9	42
6	A Subregion of the Parabrachial Nucleus Partially Mediates Respiratory Rate Depression from Intravenous Remifentanil in Young and Adult Rabbits. <i>Anesthesiology</i> , 2017, 127, 502-514.	2.5	41
7	Characteristics of breathing rate control mediated by a subregion within the pontine parabrachial complex. <i>Journal of Neurophysiology</i> , 2017, 117, 1030-1042.	1.8	36
8	Serotonergic Modulation of Inspiratory Hypoglossal Motoneurons in Decerebrate Dogs. <i>Journal of Neurophysiology</i> , 2006, 95, 3449-3459.	1.8	30
9	Inputs to medullary respiratory neurons from a pontine subregion that controls breathing frequency. <i>Respiratory Physiology and Neurobiology</i> , 2019, 265, 127-140.	1.6	26
10	Endogenous glutamatergic inputs to the Parabrachial Nucleus/Kölliker-Fuse Complex determine respiratory rate. <i>Respiratory Physiology and Neurobiology</i> , 2020, 277, 103401.	1.6	26
11	Improved method of canine decerebration. <i>Journal of Applied Physiology</i> , 1998, 85, 747-750.	2.5	25
12	Effects of Halothane and Sevoflurane on Inhibitory Neurotransmission to Medullary Expiratory Neurons in a Decerebrate Dog Model. <i>Anesthesiology</i> , 2002, 96, 955-962.	2.5	25
13	Multi-Level Regulation of Opioid-Induced Respiratory Depression. <i>Physiology</i> , 2020, 35, 391-404.	3.1	23
14	Sevoflurane Enhances β -Aminobutyric Acid Type A Receptor Function and Overall Inhibition of Inspiratory Premotor Neurons in a Decerebrate Dog Model. <i>Anesthesiology</i> , 2005, 103, 57-64.	2.5	20
15	Sevoflurane Depresses Glutamatergic Neurotransmission to Brainstem Inspiratory Premotor Neurons but Not Postsynaptic Receptor Function in a Decerebrate Dog Model. <i>Anesthesiology</i> , 2005, 103, 50-56.	2.5	18
16	The contribution of endogenous glutamatergic input in the ventral respiratory column to respiratory rhythm. <i>Respiratory Physiology and Neurobiology</i> , 2019, 260, 37-52.	1.6	17
17	Dose-dependent Respiratory Depression by Remifentanil in the Rabbit Parabrachial Nucleus/Kölliker-Fuse Complex and Pre-Bötzing Complex. <i>Anesthesiology</i> , 2021, 135, 649-672.	2.5	17
18	Effects of Anesthetics, Sedatives, and Opioids on Ventilatory Control. , 2012, 2, 2281-2367.		15

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19	Anesthetic effects on synaptic transmission and gain control in respiratory control. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 151-159.	1.6	13
20	Isoflurane Depresses the Response of Inspiratory Hypoglossal Motoneurons to Serotonin In Vivo. <i>Anesthesiology</i> , 2007, 106, 736-745.	2.5	13
21	Contribution of the caudal medullary raphe to opioid induced respiratory depression. <i>Respiratory Physiology and Neurobiology</i> , 2022, 299, 103855.	1.6	12
22	Retrograde labeling reveals extensive distribution of genioglossal motoneurons possessing 5-HT2A receptors throughout the hypoglossal nucleus of adult dogs. <i>Brain Research</i> , 2007, 1132, 110-119.	2.2	11
23	Automatic classification of canine PRG neuronal discharge patterns using K-means clustering. <i>Respiratory Physiology and Neurobiology</i> , 2015, 207, 28-39.	1.6	10
24	Activation of 5-HT1A receptors in the pre-Bötzing region has little impact on the respiratory pattern. <i>Respiratory Physiology and Neurobiology</i> , 2015, 212-214, 9-19.	1.6	9
25	Halothane Depresses Glutamatergic Neurotransmission to Brain Stem Inspiratory Premotor Neurons in a Decerebrate Dog Model. <i>Anesthesiology</i> , 2003, 98, 897-905.	2.5	8
26	Major Components of Endogenous Neurotransmission Underlying the Discharge Activity of Hypoglossal Motoneurons in vivo. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 279-284.	1.6	8
27	Halothane Enhances γ -Aminobutyric Acid Receptor Type A Function but Does Not Change Overall Inhibition in Inspiratory Premotor Neurons in a Decerebrate Dog Model. <i>Anesthesiology</i> , 2003, 99, 1303-1312.	2.5	6
28	Role of Inhibitory Neurotransmission in the Control of Canine Hypoglossal Motoneuron Activity In Vivo. <i>Journal of Neurophysiology</i> , 2009, 101, 1211-1221.	1.8	6
29	Effect of central CO ₂ drive on lung inflation responses of expiratory bulbospinal neurons in dogs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R1606-R1618.	1.8	5
30	Interaction between the pulmonary stretch receptor and pontine control of expiratory duration. <i>Respiratory Physiology and Neurobiology</i> , 2021, 293, 103715.	1.6	4
31	Neurons in a Subregion of the Medial Parabrachial Nucleus (mPBN) Attenuate the Gain of the Hering-Breuer (H \ddot{u}) Reflex. <i>FASEB Journal</i> , 2018, 32, 893.1.	0.5	2
32	Neurons in the Pontine Medial Parabrachial (PB) Region Play a Key Role In the Control of Breathing Frequency. <i>FASEB Journal</i> , 2015, 29, 1032.7.	0.5	2
33	Effects of Different Systemic Opioid Doses on Subareas of the Ventral Respiratory Column. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1
34	Characteristics of drug concentration profiles for picoinjection studies of brainstem neurons. <i>FASEB Journal</i> , 2006, 20, A784.	0.5	1
35	Local microinjection of μ -opioids into the pre-Bötzing complex (pBC) region produces opposite effects on breathing rate to systemic μ -opioid infusion in decerebrate dogs. <i>FASEB Journal</i> , 2009, 23, 960.6.	0.5	1
36	Effects of local microinjection of biogenic amines into the pre-Bötzing complex (pBC) and adjacent ventral respiratory column (VRC) on the canine breathing pattern. <i>FASEB Journal</i> , 2009, 23, 960.7.	0.5	1

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37	Nitazenes are potent mu-opioid receptor agonists with profound respiratory depression. FASEB Journal, 2022, 36, .	0.5	1
38	Naloxone Injections into the Parabrachial Nucleus/ Kolliker-Fuse Complex, the pre-Botzinger Complex and the Caudal Medullary Raphe Reverse Remifentanil-Induced Respiratory Depression. FASEB Journal, 2021, 35, .	0.5	0
39	Endogenous Opioid Receptor Activation in the Caudal Medullary Raphe Depresses Respiratory Rate in Decerebrate Rabbits. FASEB Journal, 2021, 35, .	0.5	0
40	Endogenous activation of NMDA receptors strongly contributes to the discharge patterns of canine inspiratory hypoglossal motoneurons (IHMN) in vivo. FASEB Journal, 2006, 20, A782.	0.5	0
41	Depression of Respiratory Bulbospinal Neurons (RBSNs) by Clinical Dose-Rates of Intravenous Remifentanil is not due to Direct Opioid Receptor Activation at the RBSN Level. FASEB Journal, 2007, 21, A560.	0.5	0
42	Developmental changes in the pattern of the hypoxic ventilatory response in rabbits. FASEB Journal, 2008, 22, 955.8.	0.5	0
43	Depression of respiratory rate by intravenous opioids is not due to direct opioid effects on neurons within the preBotzinger Complex (pBC) region. FASEB Journal, 2008, 22, 755.9.	0.5	0
44	Effects of IV Remifentanil (Remi) on the discharge patterns of canine pre-Botzinger complex (pBC) neurons. FASEB Journal, 2010, 24, 614.6.	0.5	0
45	Changes in CO ₂ during acute hypoxia in immature and adult rabbits and the development of apnea. FASEB Journal, 2010, 24, 799.26.	0.5	0
46	Dose-dependent depression of preBotzinger Complex (pBC) region neurons by local application of the 5HT _{1A} receptor agonist 8OH-DPAT. FASEB Journal, 2010, 24, .	0.5	0
47	Pontine mu-opioid receptors mediate the bradypnea caused by clinically relevant rates of intravenous remifentanil in dogs. FASEB Journal, 2012, 26, 1088.10.	0.5	0
48	The effect of DAMGO on the pre-Botzinger Complex (preBC) in young and adult rabbits. FASEB Journal, 2012, 26, 1b826.	0.5	0
49	Effects of IV remifentanil (Remi) on the discharge of canine pontine respiratory group (PRG) neurons in the parabrachial complex (PB). FASEB Journal, 2013, 27, 1214.4.	0.5	0
50	The Pre-Botzinger Complex (preBC) Partially Mediates Opioid-Induced Respiratory Depression in Young but not in Adult Rabbits. FASEB Journal, 2013, 27, 931.6.	0.5	0
51	Automatic Classification of Canine Pontine Neuronal Discharge Patterns using K-means Clustering. FASEB Journal, 2015, 29, 1032.6.	0.5	0
52	Neuronal Correlates Mediating the Pontine Modulation of the Hering-Breuer Expiratory Facilitatory (HBEF) Reflex. FASEB Journal, 2019, 33, 548.6.	0.5	0
53	Pontine Parabrachial Nucleus (PBN) Neuron Subtypes Involved With the Control of Breathing Frequency. FASEB Journal, 2020, 34, 1-1.	0.5	0