Astrid G Stucke

List of Publications by Year
in descending order

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66	617	623734	677142
papers	citations	14 h-index	22 g-index

67	67	67	341
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hepatic artery flow, inspired oxygen, and hemoglobin determine liver tissue saturation measured with visible diffuse reflectance spectroscopy (visâ€DRS) in an in vivo swine model. Pediatric Transplantation, 2022, , e14230.	1.0	1
2	Contribution of the caudal medullary raphe to opioid induced respiratory depression. Respiratory Physiology and Neurobiology, 2022, 299, 103855.	1.6	12
3	Nitazenes are potent muâ€opioid receptor agonists with profound respiratory depression. FASEB Journal, 2022, 36, .	0.5	1
4	Anesthesia for children with complete trisomy 18 (Edwards syndrome): A cohort review of 84 anesthesia encounters in nine patients. Paediatric Anaesthesia, 2021, 31, 419-428.	1.1	5
5	Evaluation of visible diffuse reflectance spectroscopy in liver tissue: validation of tissue saturations using extracorporeal circulation. Journal of Biomedical Optics, 2021, 26, .	2.6	7
6	Naloxone Injections into the Parabrachial Nucleus/ KÃ¶llikerâ€Fuse Complex, the preBÃ¶tzinger Complex and the Caudal Medullary Raphe Reverse Remifentanilâ€Induced Respiratory Depression. FASEB Journal, 2021, 35, .	0.5	0
7	Endogenous Opioid Receptor Activation in the Caudal Medullary Raphe Depresses Respiratory Rate in Decerebrate Rabbits. FASEB Journal, 2021, 35, .	0.5	0
8	Dose-dependent Respiratory Depression by Remifentanil in the Rabbit Parabrachial Nucleus/KÃ¶llikerâ€“Fuse Complex and Pre-BÃ¶tzinger Complex. Anesthesiology, 2021, 135, 649-672.	2.5	17
9	Interaction between the pulmonary stretch receptor and pontine control of expiratory duration. Respiratory Physiology and Neurobiology, 2021, 293, 103715.	1.6	4
10	Retrieving multiple magnetic foreign bodies from the glottic entrance and stomach: A case report. Saudi Journal of Anaesthesia, 2021, 15, 56.	0.7	4
11	Multi-Level Regulation of Opioid-Induced Respiratory Depression. Physiology, 2020, 35, 391-404.	3.1	23
12	Endogenous glutamatergic inputs to the Parabrachial Nucleus/KÃ¶lliker-Fuse Complex determine respiratory rate. Respiratory Physiology and Neurobiology, 2020, 277, 103401.	1.6	26
13	Effects of Different Systemic Opioid Doses on Subareas of the Ventral Respiratory Column. FASEB Journal, 2020, 34, 1-1.	0.5	1
14	Vagal Feedback Obscures the Effects of Systemic Opioids on Respiratory Rate in the preBÃ¶tzinger Complex in Young Rabbits in vivo. FASEB Journal, 2020, 34, 1-1.	0.5	0
15	Pontine Parabrachial Nucleus (PBN) Neuron Subtypes Involved With the Control of Breathing Frequency. FASEB Journal, 2020, 34, 1-1.	0.5	0
16	Inputs to medullary respiratory neurons from a pontine subregion that controls breathing frequency. Respiratory Physiology and Neurobiology, 2019, 265, 127-140.	1.6	26
17	The contribution of endogenous glutamatergic input in the ventral respiratory column to respiratory rhythm. Respiratory Physiology and Neurobiology, 2019, 260, 37-52.	1.6	17
18	The Parabrachial Nucleus and KÃ¶llikerâ€Fuse Nucleus contribute jointly to inspiratory and expiratory phase duration. FASEB Journal, 2019, 33, .	0.5	0

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19	Neuronal Correlates Mediating the Pontine Modulation of the Heringâ€Breuer Expiratory Facilitatory (HBEF) Reflex. FASEB Journal, 2019, 33, 548.6.	0.5	0
20	Neurons in a Subregion of the Medial Parabrachial Nucleus (mPBN) Attenuate the Gain of the Heringâ€Breuer (Hâ€B) Reflex. FASEB Journal, 2018, 32, 893.1.	0.5	2
21	The effect of DAMGO injections on the respiratory pattern varies between subareas of the ventral respiratory column in adult rabbits. FASEB Journal, 2018, 32, 893.8.	0.5	0
22	Characteristics of breathing rate control mediated by a subregion within the pontine parabrachial complex. Journal of Neurophysiology, 2017, 117, 1030-1042.	1.8	36
23	A Subregion of the Parabrachial Nucleus Partially Mediates Respiratory Rate Depression from Intravenous Remifentanil in Young and Adult Rabbits. Anesthesiology, 2017, 127, 502-514.	2.5	41
24	Should Deidentified Case Data Be Treated as Independent Data Points?. Anesthesiology, 2016, 124, 1418-1419.	2.5	0
25	Opioid-induced Respiratory Depression Is Only Partially Mediated by the preBÃ¶tzinger Complex in Young and Adult RabbitsIn Vivo. Anesthesiology, 2015, 122, 1288-1298.	2.5	48
26	Activation of 5-HT1A receptors in the preBÃ¶tzinger region has little impact on the respiratory pattern. Respiratory Physiology and Neurobiology, 2015, 212-214, 9-19.	1.6	9
27	Droperidol Transiently Prolongs the QT Interval in Children Undergoing Single Ventricle Palliation. Pediatric Cardiology, 2015, 36, 196-204.	1.3	3
28	Automatic classification of canine PRG neuronal discharge patterns using K-means clustering. Respiratory Physiology and Neurobiology, 2015, 207, 28-39.	1.6	10
29	Neurons in the Pontine Medial Parabrachial (PB) Region Play a Key Role In the Control of Breathing Frequency. FASEB Journal, 2015, 29, 1032.7.	0.5	2
30	Automatic Classification of Canine Pontine Neuronal Discharge Patterns using Kâ€means Clustering. FASEB Journal, 2015, 29, 1032.6.	0.5	0
31	Can we tell emergence agitation from pain? Comment on Bortone et al.: the effect of fentanyl and clonidine on early postoperative negative behavior in children. Paediatric Anaesthesia, 2014, 24, 1114-1114.	1.1	2
32	Relative contributions of NMDA and AMPA receptorâ€mediated excitation to the spontaneous discharge of canine pontine respiratory group neurons (712.5). FASEB Journal, 2014, 28, 712.5.	0.5	0
33	Pontine respiratory group neuronal discharge is modulated by powerful GABAergic tonic inhibition (712.7). FASEB Journal, 2014, 28, 712.7.	0.5	0
34	The pontine respiratory group is involved in opioidâ€induced respiratory depression in adult rabbits (712.6). FASEB Journal, 2014, 28, 712.6.	0.5	0
35	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
36	The PreBÃ¶tzinger Complex (preBC) Partially Mediates Opioidâ€induced Respiratory Depression in Young but not in Adult Rabbits. FASEB Journal, 2013, 27, 931.6.	0.5	0

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37	Effects of Anesthetics, Sedatives, and Opioids on Ventilatory Control. , 2012, 2, 2281-2367.		15
38	Pontine Î¼-opioid receptors mediate bradypnea caused by intravenous remifentanil infusions at clinically relevant concentrations in dogs. Journal of Neurophysiology, 2012, 108, 2430-2441.	1.8	71
39	Perioperative opiate requirements in children with previous opiate infusion. Paediatric Anaesthesia, 2012, 22, 203-208.	1.1	5
40	Pontine Î¼â€opioid receptors mediate the bradypnea caused by clinically relevant rates of intravenous remifentanil in dogs. FASEB Journal, 2012, 26, 1088.10.	0.5	0
41	The effect of DAMGO on the preBÃ¶tzinger Complex (preBC) in young and adult rabbits. FASEB Journal, 2012, 26, lb826.	0.5	0
42	The effect of caudal vs intravenous morphine on early extubation and postoperative analgesic requirements for stage 2 and 3 singleâ€ventricle palliation: a double blind randomized trial. Paediatric Anaesthesia, 2011, 21, 441-453.	1.1	16
43	Clinically Relevant Infusion Rates of Î¼-Opioid Agonist Remifentanil Cause Bradypnea in Decerebrate Dogs but not Via Direct Effects in the pre-BÃ¶tzinger Complex Region. Journal of Neurophysiology, 2010, 103, 409-418.	1.8	55
44	Effects of IV Remifentanil (Remi) on the discharge patterns of canine preâ€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	Doseâ€dependent depression of preBotzinger Complex (pBC) region neurons by local application of the 5HT1A receptor agonist 8OHâ€DPAT. FASEB Journal, 2010, 24, .	0.5	0
47	Role of Inhibitory Neurotransmission in the Control of Canine Hypoglossal Motoneuron Activity In Vivo. Journal of Neurophysiology, 2009, 101, 1211-1221.	1.8	6
48	Local microejection of muâ€opioids into the preâ€BÃ¶tzinger complex (pBC) region produces opposite effects on breathing rate to systemic muâ€opioid infusion in decerebrate dogs. FASEB Journal, 2009, 23, 960.6.	0.5	1
49	Effects of local microejection of biogenic amines into the preâ€Botzinger complex (pBC) and adjacent ventral respiratory column (VRC) on the canine breathing pattern. FASEB Journal, 2009, 23, 960.7.	0.5	1
50	Anesthetic effects on synaptic transmission and gain control in respiratory control. Respiratory Physiology and Neurobiology, 2008, 164, 151-159.	1.6	13
51	Major Components of Endogenous Neurotransmission Underlying the Discharge Activity of Hypoglossal Motoneurons in vivo. Advances in Experimental Medicine and Biology, 2008, 605, 279-284.	1.6	8
52	Opioid Receptors on Bulbospinal Respiratory Neurons Are Not Activated During Neuronal Depression by Clinically Relevant Opioid Concentrations. Journal of Neurophysiology, 2008, 100, 2878-2888.	1.8	25
53	Developmental changes in the pattern of the hypoxic ventilatory response in rabbits. FASEB Journal, 2008, 22, 955.8.	0.5	0
54	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

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55	Endogenous GABA _A receptorâ€mediated attenuation of hypoglossal motorneuronal discharge activity in vivo. FASEB Journal, 2007, 21, A560.	0.5	1
56	Isoflurane Depresses the Response of Inspiratory Hypoglossal Motoneurons to Serotonin In VivoÂ. Anesthesiology, 2007, 106, 736-745.	2.5	13
57	Doseâ€dependent effects of morphine (MOR) applied directly onto canine respiratory bulbospinal neurons. FASEB Journal, 2007, 21, A560.	0.5	0
58	Depression of Respiratory Bulbospinal Neurons (RBSNs) by Clinical Doseâ€Rates of Intravenous Remifentanil is not due to Direct Opioid Receptor Activation at the RBSN Level. FASEB Journal, 2007, 21, A560.	0.5	0
59	Hemoglobin M (Milwaukee) Affects Arterial Oxygen Saturation and Makes Pulse Oximetry Unreliable. Anesthesiology, 2006, 104, 887-888.	2.5	12
60	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
61	Characteristics of drug concentration profiles for picoejection studies of brainstem neurons. FASEB Journal, 2006, 20, A784.	0.5	1
62	Sevoflurane Depresses Glutamatergic Neurotransmission to Brainstem Inspiratory Premotor Neurons but Not Postsynaptic Receptor Function in a Decerebrate Dog Model. Anesthesiology, 2005, 103, 50-56.	2.5	18
63	Sevoflurane Enhances Î³-Aminobutyric Acid Type A Receptor Function and Overall Inhibition of Inspiratory Premotor Neurons in a Decerebrate Dog Model. Anesthesiology, 2005, 103, 57-64.	2.5	20
64	Halothane Enhances Î³-Aminobutyric Acid Receptor Type A Function but Does Not Change Overall Inhibition in Inspiratory Premotor Neurons in a Decerebrate Dog Model. Anesthesiology, 2003, 99, 1303-1312.	2.5	6
65	Halothane Depresses Glutamatergic Neurotransmission to Brain Stem Inspiratory Premotor Neurons in a Decerebrate Dog Model. Anesthesiology, 2003, 98, 897-905.	2.5	8
66	Effects of Halothane and Sevoflurane on Inhibitory Neurotransmission to Medullary Expiratory Neurons in a Decerebrate Dog Model. Anesthesiology, 2002, 96, 955-962.	2.5	25