Keith J Buckler

List of Publications by Year
in descending order

39 papers	1,890 citations	393982 19 h-index	377514 34 g-index
39 all docs	39 docs citations	39 times ranked	1555 citing authors

#	Article	IF	Citations
1	Lack of influence of dexmedetomidine on rat glomus cell response to hypoxia, and on mouse acute hypoxic ventilatory response. Journal of Anaesthesiology Clinical Pharmacology, 2021, 37, 509.	0.2	0
2	Competitive Interactions between Halothane and Isoflurane at the Carotid Body and TASK Channels. Anesthesiology, 2020, 133, 1046-1059.	1.3	5
3	Marked and rapid effects of pharmacological HIF-2Î± antagonism on hypoxic ventilatory control. Journal of Clinical Investigation, 2020, 130, 2237-2251.	3.9	32
4	Influence of propofol on isolated neonatal rat carotid body glomus cell response to hypoxia and hypercapnia. Respiratory Physiology and Neurobiology, 2019, 260, 17-27.	0.7	7
5	Neurotransmitter Switching Coupled to Î²-Adrenergic Signaling in Sympathetic Neurons in Prehypertensive States. Hypertension, 2018, 71, 1226-1238.	1.3	27
6	A1899, PK-THPP, ML365, and Doxapram inhibit endogenous TASK channels and excite calcium signaling in carotid body type-1 cells. Physiological Reports, 2018, 6, e13876.	0.7	20
7	RNA Sequencing Reveals Novel Transcripts from Sympathetic Stellate Ganglia During Cardiac Sympathetic Hyperactivity. Scientific Reports, 2018, 8, 8633.	1.6	12
8	PHD2 inactivation in Type I cells drives HIFâ€2Î±â€dependent multilineage hyperplasia and the formation of paragangliomaâ€like carotid bodies. Journal of Physiology, 2018, 596, 4393-4412.	1.3	37
9	Neurotransmitter Switching in Sympathetic Neurons Coupled to Betaâ€Adrenergic Signalling in Hypertensive States. FASEB Journal, 2018, 32, 591.1.	0.2	0
10	Identification of Novel mRNA Transcripts in the Sympathetic Stellate Ganglia using RNA Sequencing. FASEB Journal, 2018, 32, 596.4.	0.2	0
11	Regulation of ventilatory sensitivity and carotid body proliferation in hypoxia by the PHD2/HIFâ€2 pathway. Journal of Physiology, 2016, 594, 1179-1195.	1.3	68
12	A method for continuous and stable perfusion of tissue and single cell preparations with accurate concentrations of volatile anaesthetics. Journal of Neuroscience Methods, 2016, 258, 87-93.	1.3	5
13	Moderate inhibition of mitochondrial function augments carotid body hypoxic sensitivity. Pflugers Archiv European Journal of Physiology, 2016, 468, 143-155.	1.3	17
14	TASK channels in arterial chemoreceptors and their role in oxygen and acid sensing. Pflugers Archiv European Journal of Physiology, 2015, 467, 1013-1025.	1.3	83
15	Functional Properties of Mitochondria in the Type-1 Cell and Their Role in Oxygen Sensing. Advances in Experimental Medicine and Biology, 2015, 860, 69-80.	0.8	3
16	The von Hippel-Lindau Chuvash mutation in mice causes carotid-body hyperplasia and enhanced ventilatory sensitivity to hypoxia. Journal of Applied Physiology, 2014, 116, 885-892.	1.2	15
17	Glycogen metabolism protects against metabolic insult to preserve carotid body function during glucose deprivation. Journal of Physiology, 2014, 592, 4493-4506.	1.3	17
18	Cytosolic calcium regulation in rat afferent vagal neurons during anoxia. Cell Calcium, 2013, 54, 416-427.	1.1	9

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19	Oxygen and mitochondrial inhibitors modulate both monomeric and heteromeric TASKâ€1 and TASKâ€3 channels in mouse carotid body typeâ€1 cells. Journal of Physiology, 2013, 591, 5977-5998.	1.3	59
20	Carotid body hyperplasia and enhanced ventilatory responses to hypoxia in mice with heterozygous deficiency of PHD2. Journal of Physiology, 2013, 591, 3565-3577.	1.3	53
21	Oxygen sensitivity of mitochondrial function in rat arterial chemoreceptor cells. Journal of Physiology, 2013, 591, 3549-3563.	1.3	81
22	Effects of exogenous hydrogen sulphide on calcium signalling, background (TASK) K channel activity and mitochondrial function in chemoreceptor cells. Pflugers Archiv European Journal of Physiology, 2012, 463, 743-754.	1.3	89
23	Differential Effects of Halothane and Isoflurane on Carotid Body Glomus Cell Intracellular Ca2+ and Background K+ Channel Responses to Hypoxia. Advances in Experimental Medicine and Biology, 2010, 669, 205-208.	0.8	21
24	Two-Pore Domain K+ Channels and Their Role in Chemoreception. Advances in Experimental Medicine and Biology, 2010, 661, 15-30.	0.8	16
25	Acid-evoked Ca2+ signalling in rat sensory neurones: effects of anoxia and aglycaemia. Pflugers Archiv European Journal of Physiology, 2009, 459, 159-181.	1.3	12
26	Calcium Handling in Postganglionic Sympathetic Neurons is enhanced in Prehypertensive Spontaneously Hypertensive rat. FASEB Journal, 2009, 23, 1027.4.	0.2	0
27	Effects of Anoxia and Aglycemia on Cytosolic Calcium Regulation in Rat Sensory Neurons. Journal of Neurophysiology, 2008, 100, 456-473.	0.9	23
28	Effects of anoxia, aglycemia, and acidosis on cytosolic Mg²⁺, ATP, and pH in rat sensory neurons. American Journal of Physiology - Cell Physiology, 2008, 294, C280-C294.	2.1	28
29	TASK-like potassium channels and oxygen sensing in the carotid body. Respiratory Physiology and Neurobiology, 2007, 157, 55-64.	0.7	92
30	Modulation of TASKâ€like background potassium channels in rat arterial chemoreceptor cells by intracellular ATP and other nucleotides. Journal of Physiology, 2007, 583, 521-536.	1.3	65
31	Acute Oxygen-Sensing Mechanisms. New England Journal of Medicine, 2005, 353, 2042-2055.	13.9	435
32	Biophysical properties and metabolic regulation of a TASK-like potassium channel in rat carotid body type 1 cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 286, L221-L230.	1.3	62
33	Molecular Strategies for Studying Oxygen-Sensitive K+ Channels. Methods in Enzymology, 2004, 381, 233-256.	0.4	6
34	The Effect of Methanandamide on Isolated Type I Cells. Advances in Experimental Medicine and Biology, 2003, 536, 123-127.	0.8	5
35	Effect of Mitochondrial Inhibitors on Type I Cells. Advances in Experimental Medicine and Biology, 2003, 536, 55-58.	0.8	2
36	An oxygenâ€, acidâ€and anaestheticâ€sensitive TASKâ€like background potassium channel in rat arterial chemoreceptor cells. Journal of Physiology, 2000, 525, 135-142.	1.3	373

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37	Interactions between hypoxia and hypercapnic acidosis on calcium signaling in carotid body type I cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L36-L42.	1.3	50
38	Background leak K+-currents and oxygen sensing in carotid body type 1 cells. Respiration Physiology, 1999, 115, 179-187.	2.8	53
39	The Role of TASK-Like K+ Channels in Oxygen Sensing in the Carotid Body. Novartis Foundation Symposium, 0, , 73-94.	1.2	8