

Keith J Buckler

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Acute Oxygen-Sensing Mechanisms. <i>New England Journal of Medicine</i> , 2005, 353, 2042-2055. | 13.9 | 435 |
| 2 | An oxygen-, acid- and anaesthetic-sensitive TASK-like background potassium channel in rat arterial chemoreceptor cells. <i>Journal of Physiology</i> , 2000, 525, 135-142. | 1.3 | 373 |
| 3 | TASK-like potassium channels and oxygen sensing in the carotid body. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 55-64. | 0.7 | 92 |
| 4 | Effects of exogenous hydrogen sulphide on calcium signalling, background (TASK) K channel activity and mitochondrial function in chemoreceptor cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2012, 463, 743-754. | 1.3 | 89 |
| 5 | TASK channels in arterial chemoreceptors and their role in oxygen and acid sensing. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 1013-1025. | 1.3 | 83 |
| 6 | Oxygen sensitivity of mitochondrial function in rat arterial chemoreceptor cells. <i>Journal of Physiology</i> , 2013, 591, 3549-3563. | 1.3 | 81 |
| 7 | Regulation of ventilatory sensitivity and carotid body proliferation in hypoxia by the PHD2/HIF-2 pathway. <i>Journal of Physiology</i> , 2016, 594, 1179-1195. | 1.3 | 68 |
| 8 | Modulation of TASK-like background potassium channels in rat arterial chemoreceptor cells by intracellular ATP and other nucleotides. <i>Journal of Physiology</i> , 2007, 583, 521-536. | 1.3 | 65 |
| 9 | Biophysical properties and metabolic regulation of a TASK-like potassium channel in rat carotid body type 1 cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L221-L230. | 1.3 | 62 |
| 10 | Oxygen and mitochondrial inhibitors modulate both monomeric and heteromeric TASK1 and TASK3 channels in mouse carotid body type 1 cells. <i>Journal of Physiology</i> , 2013, 591, 5977-5998. | 1.3 | 59 |
| 11 | Background leak K ⁺ -currents and oxygen sensing in carotid body type 1 cells. <i>Respiration Physiology</i> , 1999, 115, 179-187. | 2.8 | 53 |
| 12 | Carotid body hyperplasia and enhanced ventilatory responses to hypoxia in mice with heterozygous deficiency of PHD2. <i>Journal of Physiology</i> , 2013, 591, 3565-3577. | 1.3 | 53 |
| 13 | Interactions between hypoxia and hypercapnic acidosis on calcium signaling in carotid body type I cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000, 279, L36-L42. | 1.3 | 50 |
| 14 | PHD2 inactivation in Type I cells drives HIF-2 α -dependent multilineage hyperplasia and the formation of paraganglioma-like carotid bodies. <i>Journal of Physiology</i> , 2018, 596, 4393-4412. | 1.3 | 37 |
| 15 | Marked and rapid effects of pharmacological HIF-2 α antagonism on hypoxic ventilatory control. <i>Journal of Clinical Investigation</i> , 2020, 130, 2237-2251. | 3.9 | 32 |
| 16 | Effects of anoxia, aglycemia, and acidosis on cytosolic Mg ²⁺ , ATP, and pH in rat sensory neurons. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C280-C294. | 2.1 | 28 |
| 17 | Neurotransmitter Switching Coupled to β^2 -Adrenergic Signaling in Sympathetic Neurons in Prehypertensive States. <i>Hypertension</i> , 2018, 71, 1226-1238. | 1.3 | 27 |
| 18 | Effects of Anoxia and Aglycemia on Cytosolic Calcium Regulation in Rat Sensory Neurons. <i>Journal of Neurophysiology</i> , 2008, 100, 456-473. | 0.9 | 23 |

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|----|--|-----|-----------|
| 19 | Differential Effects of Halothane and Isoflurane on Carotid Body Glomus Cell Intracellular Ca ²⁺ and Background K ⁺ Channel Responses to Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 205-208. | 0.8 | 21 |
| 20 | A1899, PK-THPP, ML365, and Doxapram inhibit endogenous TASK channels and excite calcium signaling in carotid body type-1 cells. <i>Physiological Reports</i> , 2018, 6, e13876. | 0.7 | 20 |
| 21 | Glycogen metabolism protects against metabolic insult to preserve carotid body function during glucose deprivation. <i>Journal of Physiology</i> , 2014, 592, 4493-4506. | 1.3 | 17 |
| 22 | Moderate inhibition of mitochondrial function augments carotid body hypoxic sensitivity. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 143-155. | 1.3 | 17 |
| 23 | Two-Pore Domain K ⁺ Channels and Their Role in Chemoreception. <i>Advances in Experimental Medicine and Biology</i> , 2010, 661, 15-30. | 0.8 | 16 |
| 24 | The von Hippel-Lindau Chuvash mutation in mice causes carotid-body hyperplasia and enhanced ventilatory sensitivity to hypoxia. <i>Journal of Applied Physiology</i> , 2014, 116, 885-892. | 1.2 | 15 |
| 25 | Acid-evoked Ca ²⁺ signalling in rat sensory neurones: effects of anoxia and aglycaemia. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 459, 159-181. | 1.3 | 12 |
| 26 | RNA Sequencing Reveals Novel Transcripts from Sympathetic Stellate Ganglia During Cardiac Sympathetic Hyperactivity. <i>Scientific Reports</i> , 2018, 8, 8633. | 1.6 | 12 |
| 27 | Cytosolic calcium regulation in rat afferent vagal neurons during anoxia. <i>Cell Calcium</i> , 2013, 54, 416-427. | 1.1 | 9 |
| 28 | The Role of TASK-Like K ⁺ Channels in Oxygen Sensing in the Carotid Body. <i>Novartis Foundation Symposium</i> , 0, , 73-94. | 1.2 | 8 |
| 29 | Influence of propofol on isolated neonatal rat carotid body glomus cell response to hypoxia and hypercapnia. <i>Respiratory Physiology and Neurobiology</i> , 2019, 260, 17-27. | 0.7 | 7 |
| 30 | Molecular Strategies for Studying Oxygen-Sensitive K ⁺ Channels. <i>Methods in Enzymology</i> , 2004, 381, 233-256. | 0.4 | 6 |
| 31 | A method for continuous and stable perfusion of tissue and single cell preparations with accurate concentrations of volatile anaesthetics. <i>Journal of Neuroscience Methods</i> , 2016, 258, 87-93. | 1.3 | 5 |
| 32 | The Effect of Methanandamide on Isolated Type I Cells. <i>Advances in Experimental Medicine and Biology</i> , 2003, 536, 123-127. | 0.8 | 5 |
| 33 | Competitive Interactions between Halothane and Isoflurane at the Carotid Body and TASK Channels. <i>Anesthesiology</i> , 2020, 133, 1046-1059. | 1.3 | 5 |
| 34 | Functional Properties of Mitochondria in the Type-1 Cell and Their Role in Oxygen Sensing. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 69-80. | 0.8 | 3 |
| 35 | Effect of Mitochondrial Inhibitors on Type I Cells. <i>Advances in Experimental Medicine and Biology</i> , 2003, 536, 55-58. | 0.8 | 2 |
| 36 | Calcium Handling in Postganglionic Sympathetic Neurons is enhanced in Prehypertensive Spontaneously Hypertensive rat. <i>FASEB Journal</i> , 2009, 23, 1027.4. | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Neurotransmitter Switching in Sympathetic Neurons Coupled to Beta-Adrenergic Signalling in Hypertensive States. <i>FASEB Journal</i> , 2018, 32, 591.1. | 0.2 | 0 |
| 38 | Identification of Novel mRNA Transcripts in the Sympathetic Stellate Ganglia using RNA Sequencing. <i>FASEB Journal</i> , 2018, 32, 596.4. | 0.2 | 0 |
| 39 | Lack of influence of dexmedetomidine on rat glomus cell response to hypoxia, and on mouse acute hypoxic ventilatory response. <i>Journal of Anaesthesiology Clinical Pharmacology</i> , 2021, 37, 509. | 0.2 | 0 |