

Prem Kumar

List of Publications by Year in descending order

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54
papers

1,523
citations

516215

16
h-index

414034

32
g-index

56
all docs

56
docs citations

56
times ranked

1283
citing authors

#	ARTICLE	IF	CITATIONS
1	Are Multiple Mitochondrial Related Signalling Pathways Involved in Carotid Body Oxygen Sensing?. <i>Frontiers in Physiology</i> , 2022, 13, .	1.3	5
2	LKB1 is the gatekeeper of carotid body chemosensing and the hypoxic ventilatory response. <i>Communications Biology</i> , 2022, 5, .	2.0	3
3	Î²-Adrenoceptor blockade prevents carotid body hyperactivity and elevated vascular sympathetic nerve density induced by chronic intermittent hypoxia. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 37-51.	1.3	7
4	Mitochondrial Succinate Metabolism and Reactive Oxygen Species Are Important but Not Essential for Eliciting Carotid Body and Ventilatory Responses to Hypoxia in the Rat. <i>Antioxidants</i> , 2021, 10, 840.	2.2	13
5	G-Protein-Coupled Receptor (GPCR) Signaling in the Carotid Body: Roles in Hypoxia and Cardiovascular and Respiratory Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6012.	1.8	12
6	Adrenaline activation of the carotid body: Key to CO ₂ and pH homeostasis in hypoglycaemia and potential pathological implications in cardiovascular disease. <i>Respiratory Physiology and Neurobiology</i> , 2019, 265, 92-99.	0.7	10
7	Ecto-5'-nucleotidase (CD73) regulates peripheral chemoreceptor activity and cardiorespiratory responses to hypoxia. <i>Journal of Physiology</i> , 2018, 596, 3137-3148.	1.3	15
8	Is Carotid Body Physiological O ₂ Sensitivity Determined by a Unique Mitochondrial Phenotype?. <i>Frontiers in Physiology</i> , 2018, 9, 562.	1.3	15
9	Measuring changes in chest wall motion after lung resection using structured light plethysmography: a feasibility study. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2016, 23, 544-547.	0.5	17
10	Adrenaline release evokes hyperpnoea and an increase in ventilatory CO ₂ sensitivity during hypoglycaemia: a role for the carotid body. <i>Journal of Physiology</i> , 2016, 594, 4439-4452.	1.3	31
11	Chest wall mechanics before and after diaphragm plication. <i>Journal of Cardiothoracic Surgery</i> , 2016, 11, 25.	0.4	13
12	Moderate inhibition of mitochondrial function augments carotid body hypoxic sensitivity. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 143-155.	1.3	17
13	AMP-activated Protein Kinase Deficiency Blocks the Hypoxic Ventilatory Response and Thus Precipitates Hypoventilation and Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 1032-1043.	2.5	41
14	Surgery corrects asynchrony of ribcage secondary to extra-thoracic tumor but leads to expiratory dysfunction during exercise. <i>Journal of Cardiothoracic Surgery</i> , 2015, 10, 187.	0.4	1
15	Mild Chronic Intermittent Hypoxia in Wistar Rats Evokes Significant Cardiovascular Pathophysiology but No Overt Changes in Carotid Body-Mediated Respiratory Responses. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 245-254.	0.8	7
16	Ecto-5'-Nucleotidase, Adenosine and Transmembrane Adenylyl Cyclase Signalling Regulate Basal Carotid Body Chemoafferent Outflow and Establish the Sensitivity to Hypercapnia. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 279-289.	0.8	13
17	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
18	The impact of acute and chronic catecholamines on respiratory responses to hypoxic stress in the rat. <i>Pflugers Archiv European Journal of Physiology</i> , 2013, 465, 209-219.	1.3	8

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19	Bicarbonate-sensitive soluble and transmembrane adenylyl cyclases in peripheral chemoreceptors. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 83-93.	0.7	14
20	Long-term facilitation of ventilation following acute continuous hypoxia in awake humans during sustained hypercapnia. <i>Journal of Physiology</i> , 2012, 590, 5151-5165.	1.3	34
21	Ion Channel Regulation by the LKB1-AMPK Signalling Pathway: The Key to Carotid Body Activation by Hypoxia and Metabolic Homeostasis at the Whole Body Level. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 81-90.	0.8	13
22	The carotid body in cardiovascular disease: more chicken and egg than horse and cart?. <i>Journal of Physiology</i> , 2012, 590, 4123-4123.	1.3	3
23	Foreword. <i>Respiratory Physiology and Neurobiology</i> , 2012, 184, 115-116.	0.7	0
24	Peripheral Chemoreceptors: Function and Plasticity of the Carotid Body. , 2012, 2, 141-219.		421
25	The Interaction Between Low Glucose and Hypoxia in the in vitro, Rat Carotid Body. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 123-127.	0.8	4
26	Ion channel regulation by the Lkb1-AMPK signalling pathway: the key to carotid body activation by hypoxia and metabolic homeostasis at the whole body level. <i>FASEB Journal</i> , 2012, 26, 897.4.	0.2	0
27	Comments on Point:Counterpoint: High altitude is/is not for the birds!. <i>Journal of Applied Physiology</i> , 2011, 111, 1520-1524.	1.2	1
28	A respiratory response to the activation of the muscle metaboreflex during concurrent hypercapnia in man. <i>Experimental Physiology</i> , 2010, 95, 194-201.	0.9	19
29	Ion Channel Regulation by AMPK. <i>Annals of the New York Academy of Sciences</i> , 2009, 1177, 89-100.	1.8	42
30	Systemic Effects Resulting from Carotid Body Stimulation-Invited Article. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 223-233.	0.8	40
31	Key Roles for AMP-activated Protein Kinase in the Function of the Carotid Body?. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 63-68.	0.8	8
32	AMP-activated Protein Kinase Mediates Carotid Body Excitation by Hypoxia. <i>Journal of Biological Chemistry</i> , 2007, 282, 8092-8098.	1.6	126
33	Respiratory chemoreceptor function in vertebrates comparative and evolutionary aspects. <i>Integrative and Comparative Biology</i> , 2007, 47, 592-600.	0.9	25
34	Adequate stimuli of the carotid body: More than an oxygen sensor?. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 12-21.	0.7	61
35	Sensing hypoxia: Carotid body mechanisms and reflexes in health and disease. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 1-3.	0.7	16
36	Calcium oscillations induced by ATP in human umbilical cord smooth muscle cells. <i>Journal of Cellular Physiology</i> , 2007, 213, 79-87.	2.0	13

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37	How sweet it is: sensing low glucose in the carotid body. <i>Journal of Physiology</i> , 2007, 578, 627-627.	1.3	14
38	Sensing hypoxia in the carotid body: from stimulus to response. <i>Essays in Biochemistry</i> , 2007, 43, 43-60.	2.1	46
39	Translating blood-borne stimuli: chemotransduction in the carotid body. <i>Acta Physiologica Sinica</i> , 2007, 59, 128-32.	0.5	2
40	AMP-activated protein kinase: function and dysfunction in health and disease. <i>Journal of Physiology</i> , 2006, 574, 3-6.	1.3	5
41	Adrenaline Increases Carotid Body CO ₂ Sensitivity: An in vivo Study. , 2006, 580, 245-250.		8
42	A role for TRP channels in carotid body chemotransduction?. <i>FASEB Journal</i> , 2006, 20, A1229.	0.2	1
43	Direct inhibition of TRPC3 by polyunsaturated fatty acids in MCF-7 breast cancer cells. <i>FASEB Journal</i> , 2006, 20, A329.	0.2	0
44	Calcium oscillations induced by ATP in human umbilical cord smooth muscle cells. <i>FASEB Journal</i> , 2006, 20, A1175.	0.2	0
45	Does AMP-activated Protein Kinase Couple Inhibition of Mitochondrial Oxidative Phosphorylation by Hypoxia to Calcium Signaling in O ₂ -sensing Cells?. <i>Journal of Biological Chemistry</i> , 2005, 280, 41504-41511.	1.6	160
46	Acidosis abolishes the effect of repeated applications of ATP on pulmonary artery force and [Ca ²⁺] _i . <i>Respiratory Physiology and Neurobiology</i> , 2004, 141, 157-166.	0.7	1
47	Regulation of K ⁺ Currents by CO in Carotid Body type I Cells and Pulmonary Artery Smooth Muscle Cells. <i>Advances in Experimental Medicine and Biology</i> , 2003, 536, 147-154.	0.8	1
48	A Possible Dual Site of Action for Carbon Monoxide-Mediated Chemoexcitation in the Rat Carotid Body. <i>Journal of Physiology</i> , 2002, 543, 933-945.	1.3	23
49	Elevation of Metabolic Rate by Pyrogen Administration Does Not Affect the Gain of Respiratory Peripheral Chemoreflexes in Unanesthetized Kittens. <i>Pediatric Research</i> , 1998, 44, 357-362.	1.1	3
50	The effects of pharmacological modulation of KATP on the guinea-pig isolated diaphragm. <i>European Journal of Pharmacology</i> , 1996, 302, 79-88.	1.7	9
51	The Respiratory Response of Healthy Term Infants to Breath-by-Breath Alternations in Inspired Oxygen at Two Postnatal Ages. <i>Pediatric Research</i> , 1994, 35, 321-323.	1.1	38
52	Absence of Ventilatory Responses to Alternating Breaths of Mild Hypoxia and Air in Infants Who Have Had Bronchopulmonary Dysplasia: Implications for the Risk of Sudden Infant Death. <i>Pediatric Research</i> , 1994, 35, 677-681.	1.1	91
53	Chemoreceptor Function in the Fetus and Neonate. <i>Advances in Experimental Medicine and Biology</i> , 1994, 360, 99-108.	0.8	17
54	AMP-Activated Protein Kinase Couples Mitochondrial Inhibition by Hypoxia to Cell-Specific Ca ²⁺ Signalling Mechanisms in Oxygensensing Cells. <i>Novartis Foundation Symposium</i> , 0, , 234-258.	1.2	19