

# Ganesh K Kumar

## List of Publications by Year in descending order

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75  
papers

4,855  
citations

81743

39  
h-index

102304

66  
g-index

76  
all docs

76  
docs citations

76  
times ranked

3670  
citing authors

#	ARTICLE	IF	CITATIONS
1	H <sub>2</sub> S mediates carotid body response to hypoxia but not anoxia. <i>Respiratory Physiology and Neurobiology</i> , 2019, 259, 75-85.	0.7	14
2	Complementary roles of gasotransmitters CO and H <sub>2</sub> S in sleep apnea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1413-1418.	3.3	65
3	Epigenetic regulation of redox state mediates persistent cardiorespiratory abnormalities after long-term intermittent hypoxia. <i>Journal of Physiology</i> , 2017, 595, 63-77.	1.3	53
4	CaV <sub>3.2</sub> T-type Ca <sup>2+</sup> channels mediate the augmented calcium influx in carotid body glomus cells by chronic intermittent hypoxia. <i>Journal of Neurophysiology</i> , 2016, 115, 345-354.	0.9	13
5	H <sub>2</sub> S production by reactive oxygen species in the carotid body triggers hypertension in a rodent model of sleep apnea. <i>Science Signaling</i> , 2016, 9, ra80.	1.6	39
6	Adapt or avoid. <i>ELife</i> , 2016, 5, .	2.8	1
7	Neuromolecular mechanisms mediating the effects of chronic intermittent hypoxia on adrenal medulla. <i>Respiratory Physiology and Neurobiology</i> , 2015, 209, 115-119.	0.7	10
8	Ca <sub>V</sub> 3.2 T-type Ca <sup>2+</sup> channels in H <sub>2</sub> S-mediated hypoxic response of the carotid body. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C146-C154.	2.1	18
9	Hypoxia-inducible factors and hypertension: lessons from sleep apnea syndrome. <i>Journal of Molecular Medicine</i> , 2015, 93, 473-480.	1.7	43
10	Protein kinase G-regulated production of H <sub>2</sub> S governs oxygen sensing. <i>Science Signaling</i> , 2015, 8, ra37.	1.6	101
11	Peripheral Chemoreception and Arterial Pressure Responses to Intermittent Hypoxia. , 2015, 5, 561-577.		87
12	Carotid Body Chemoreflex Mediates Intermittent Hypoxia-Induced Oxidative Stress in the Adrenal Medulla. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 195-199.	0.8	11
13	Hypoxia-inducible factors regulate human and rat cystathionine $\beta$ -synthase gene expression. <i>Biochemical Journal</i> , 2014, 458, 203-211.	1.7	36
14	Intermittent hypoxia-induced endothelial barrier dysfunction requires ROS-dependent MAP kinase activation. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C745-C752.	2.1	59
15	Inherent variations in CO-H <sub>2</sub> S-mediated carotid body O <sub>2</sub> sensing mediate hypertension and pulmonary edema. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1174-1179.	3.3	71
16	Regulation of hypoxia-inducible factor-1 isoforms and redox state by carotid body neural activity in rats. <i>Journal of Physiology</i> , 2014, 592, 3841-3858.	1.3	75
17	ROS Signaling in Cardiovascular Dysfunction Associated with Obstructive Sleep Apnea. <i>Respiratory Medicine</i> , 2014, , 71-91.	0.1	0
18	Role of oxidative stress-induced endothelin-converting enzyme activity in the alteration of carotid body function by chronic intermittent hypoxia. <i>Experimental Physiology</i> , 2013, 98, 1620-1630.	0.9	38

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19	Central and peripheral factors contributing to obstructive sleep apneas. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 344-353.	0.7	82
20	Mutual antagonism between hypoxia-inducible factors 1 $\alpha$ and 2 $\alpha$ regulates oxygen sensing and cardio-respiratory homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1788-96.	3.3	73
21	Long-lasting increase in basal catecholamine secretion from neonatal adrenal medullary chromaffin cells by chronic intermittent hypoxia. <i>FASEB Journal</i> , 2013, 27, 938.8.	0.2	0
22	Endogenous H <sub>2</sub> S is required for hypoxic sensing by carotid body glomus cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C916-C923.	2.1	62
23	Epigenetic regulation of hypoxic sensing disrupts cardiorespiratory homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2515-2520.	3.3	120
24	Endothelin-1 mediates attenuated carotid baroreceptor activity by intermittent hypoxia. <i>Journal of Applied Physiology</i> , 2012, 112, 187-196.	1.2	43
25	Sympatho-adrenal activation by chronic intermittent hypoxia. <i>Journal of Applied Physiology</i> , 2012, 113, 1304-1310.	1.2	85
26	Differential Regulation of Tyrosine Hydroxylase by Continuous and Intermittent Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 381-385.	0.8	7
27	Neuropeptide Y Signaling in Altered Catecholamine Synthesis during Intermittent Hypoxia. <i>FASEB Journal</i> , 2012, 26, 899.12.	0.2	0
28	Angiotensin II evokes sensory long-term facilitation of the carotid body via NADPH oxidase. <i>Journal of Applied Physiology</i> , 2011, 111, 964-970.	1.2	42
29	Hydrogen peroxide differentially affects activity in the pre-B $\alpha$ tzingler complex and hippocampus. <i>Journal of Neurophysiology</i> , 2011, 106, 3045-3055.	0.9	20
30	Enhanced Neuropeptide Y Synthesis During Intermittent Hypoxia in the Rat Adrenal Medulla: Role of Reactive Oxygen Species-Dependent Alterations in Precursor Peptide Processing. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1179-1190.	2.5	18
31	Hypoxia-inducible factor 2 $\alpha$ (HIF-2 $\alpha$ ) heterozygous-null mice exhibit exaggerated carotid body sensitivity to hypoxia, breathing instability, and hypertension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3065-3070.	3.3	104
32	NADPH Oxidase 2 Mediates Intermittent Hypoxia-Induced Mitochondrial Complex I Inhibition: Relevance to Blood Pressure Changes in Rats. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 533-542.	2.5	77
33	Hypoxia. 3. Hypoxia and neurotransmitter synthesis. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C743-C751.	2.1	69
34	Mechanisms of sympathetic activation and blood pressure elevation by intermittent hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2010, 174, 156-161.	0.7	121
35	Intermittent hypoxia augments acute hypoxic sensing via HIF-mediated ROS. <i>Respiratory Physiology and Neurobiology</i> , 2010, 174, 230-234.	0.7	51
36	Post-translational modification of glutamic acid decarboxylase 67 by intermittent hypoxia: evidence for the involvement of dopamine D1 receptor signaling. <i>Journal of Neurochemistry</i> , 2010, 115, 1568-1578.	2.1	11

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37	NADPH Oxidase-Dependent Regulation of T-Type Ca <sup>2+</sup> Channels and Ryanodine Receptors Mediate the Augmented Exocytosis of Catecholamines from Intermittent Hypoxia-Treated Neonatal Rat Chromaffin Cells. <i>Journal of Neuroscience</i> , 2010, 30, 10763-10772.	1.7	68
38	H <sub>2</sub> S mediates O <sub>2</sub> sensing in the carotid body. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10719-10724.	3.3	344
39	Neonatal intermittent hypoxia impairs neuronal nicotinic receptor expression and function in adrenal chromaffin cells. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C381-C388.	2.1	18
40	Neonatal Intermittent Hypoxia Leads to Long-Lasting Facilitation of Acute Hypoxia-Evoked Catecholamine Secretion From Rat Chromaffin Cells. <i>Journal of Neurophysiology</i> , 2009, 101, 2837-2846.	0.9	50
41	Intermittent hypoxia degrades HIF-2 $\alpha$ via calpains resulting in oxidative stress: Implications for recurrent apnea-induced morbidities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1199-1204.	3.3	163
42	Pattern-Specific Sustained Activation of Tyrosine Hydroxylase by Intermittent Hypoxia: Role of Reactive Oxygen Species-Dependent Downregulation of Protein Phosphatase 2A and Upregulation of Protein Kinases. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1777-1789.	2.5	33
43	Intermittent hypoxia activates peptidylglycine $\alpha$ -amidating monooxygenase in rat brain stem via reactive oxygen species-mediated proteolytic processing. <i>Journal of Applied Physiology</i> , 2009, 106, 12-19.	1.2	29
44	Reactive oxygen species-dependent endothelin signaling is required for augmented hypoxic sensory response of the neonatal carotid body by intermittent hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R735-R742.	0.9	86
45	Intermittent Hypoxia-Mediated Plasticity of Acute O <sub>2</sub> Sensing Requires Altered Redox Regulation by HIF $\alpha$ 1 and HIF $\alpha$ 2. <i>Annals of the New York Academy of Sciences</i> , 2009, 1177, 162-168.	1.8	33
46	Contrasting Effects of Intermittent and Continuous Hypoxia on Low O <sub>2</sub> Evoked Catecholamine Secretion from Neonatal Rat Chromaffin Cells. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 345-349.	0.8	10
47	Reactive oxygen species-dependent down regulation of protein phosphatase contributes to tyrosine hydroxylase activation by intermittent hypoxia. <i>FASEB Journal</i> , 2009, 23, 1038.4.	0.2	0
48	Post-translational modification of proteins during intermittent hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 272-276.	0.7	33
49	Transcriptional responses to intermittent hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 277-281.	0.7	111
50	Mechanisms of Mitochondrial Complex 1 Inhibition by Intermittent Hypoxia. <i>FASEB Journal</i> , 2008, 22, 960.6.	0.2	0
51	Post-translational modification of peptidylglycine $\alpha$ -amidating monooxygenase by intermittent hypoxia. <i>FASEB Journal</i> , 2008, 22, 960.4.	0.2	0
52	Altered carotid body function by intermittent hypoxia in neonates and adults: Relevance to recurrent apneas. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 148-153.	0.7	63
53	ROS Signaling in Systemic and Cellular Responses to Chronic Intermittent Hypoxia. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1397-1404.	2.5	121
54	Systemic, cellular and molecular analysis of chemoreflex-mediated sympathoexcitation by chronic intermittent hypoxia. <i>Experimental Physiology</i> , 2007, 92, 39-44.	0.9	89

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55	Chronic intermittent hypoxia induces hypoxia-evoked catecholamine efflux in adult rat adrenal medulla via oxidative stress. <i>Journal of Physiology</i> , 2006, 575, 229-239.	1.3	162
56	Heterozygous HIF-1 $\beta$ deficiency impairs carotid body-mediated systemic responses and reactive oxygen species generation in mice exposed to intermittent hypoxia. <i>Journal of Physiology</i> , 2006, 577, 705-716.	1.3	339
57	5-HT evokes sensory long-term facilitation of rodent carotid body via activation of NADPH oxidase. <i>Journal of Physiology</i> , 2006, 576, 289-295.	1.3	73
58	ABSENCE OF CAROTID BODY RESPONSES TO CHRONIC INTERMITTENT HYPOXIA IN MICE DEFICIENT IN HIF-1 $\beta$ : Implications in cardiorespiratory responses.. <i>FASEB Journal</i> , 2006, 20, A789.	0.2	0
59	CARDIOVASCULAR ALTERATIONS BY CHRONIC INTERMITTENT HYPOXIA: IMPORTANCE OF CAROTID BODY CHEMOREFLEXES. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2005, 32, 447-449.	0.9	131
60	Analysis of expression and posttranslational modification of proteins during hypoxia. <i>Journal of Applied Physiology</i> , 2004, 96, 1178-1186.	1.2	43
61	Oxidative stress in the systemic and cellular responses to intermittent hypoxia. <i>Biological Chemistry</i> , 2004, 385, 217-21.	1.2	101
62	Role of oxidative stress in intermittent hypoxia-induced immediate early gene activation in rat PC12 cells. <i>Journal of Physiology</i> , 2004, 557, 773-783.	1.3	129
63	Facilitation of dopamine and acetylcholine release by intermittent hypoxia in PC12 cells: involvement of calcium and reactive oxygen species. <i>Journal of Applied Physiology</i> , 2004, 96, 1206-1215.	1.2	32
64	Tachykinins in the control of breathing by hypoxia: pre- and post-genomic era. <i>Respiratory Physiology and Neurobiology</i> , 2003, 135, 145-154.	0.7	10
65	Induction of sensory long-term facilitation in the carotid body by intermittent hypoxia: Implications for recurrent apneas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10073-10078.	3.3	395
66	Activation of tyrosine hydroxylase by intermittent hypoxia: involvement of serine phosphorylation. <i>Journal of Applied Physiology</i> , 2003, 95, 536-544.	1.2	47
67	Release of dopamine and norepinephrine by hypoxia from PC-12 cells. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C1592-C1600.	2.1	81
68	Activation of nitric oxide synthase gene expression by hypoxia in central and peripheral neurons. <i>Molecular Brain Research</i> , 1996, 43, 341-346.	2.5	79
69	Regulation of Neuronal Nitric Oxide Synthase Gene Expression by Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 1996, 410, 345-348.	0.8	20
70	Nitric Oxide Synthase Activity in Guinea Pig Ventricular Myocytes Is Not Involved in Muscarinic Inhibition of cAMP-Regulated Ion Channels. <i>Circulation Research</i> , 1996, 78, 925-935.	2.0	28
71	Primary structure of the 5 S subunit of transcarboxylase as deduced from the genomic DNA sequence. <i>FEBS Letters</i> , 1993, 330, 191-196.	1.3	19
72	Identification of a cysteine involved in the interaction between carbon monoxide dehydrogenase and corrinoid/Fe-S protein from <i>Clostridium thermoaceticum</i> . <i>FEBS Letters</i> , 1993, 326, 281-284.	1.3	4

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73	Nitric oxide in the sensory function of the carotid body. Brain Research, 1993, 625, 16-22.	1.1	153
74	Effect of mutations at Met <sup>88</sup> and Met <sup>90</sup> on the biotination of Lys <sup>89</sup> of the apo 1.3S subunit of transcarboxylase. FASEB Journal, 1988, 2, 2505-2511.	0.2	24
75	Reactive Oxygen Species Facilitate Oxygen Sensing. Novartis Foundation Symposium, 0, , 95-105.	1.2	15