

# David B Macleod

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,212  
citations

361413

20  
h-index

395702

33  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent hypermetabolism and longitudinal energy expenditure in critically ill patients with COVID-19. <i>Critical Care</i> , 2020, 24, 581.	5.8	82
2	Stability of cerebral metabolism and substrate availability in humans during hypoxia and hyperoxia. <i>Clinical Science</i> , 2014, 126, 661-670.	4.3	80
3	End tidal-to-arterial CO <sub>2</sub> and O <sub>2</sub> gas gradients at low- and high-altitude during dynamic end-tidal forcing. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R895-R906.	1.8	63
4	Implications for Neuromodulation Therapy to Control Inflammation and Related Organ Dysfunction in COVID-19. <i>Journal of Cardiovascular Translational Research</i> , 2020, 13, 894-899.	2.4	62
5	Regulation of Brain Blood Flow and Oxygen Delivery in Elite Breath-Hold Divers. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 66-73.	4.3	54
6	Physiology of static breath holding in elite apneists. <i>Experimental Physiology</i> , 2018, 103, 635-651.	2.0	53
7	Nitric oxide is fundamental to neurovascular coupling in humans. <i>Journal of Physiology</i> , 2020, 598, 4927-4939.	2.9	51
8	Development and Validation of a Cerebral Oximeter Capable of Absolute Accuracy. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2012, 26, 1007-1014.	1.3	50
9	A validation method for near-infrared spectroscopy based tissue oximeters for cerebral and somatic tissue oxygen saturation measurements. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 269-284.	1.6	48
10	The Contribution of Arterial Blood Gases in Cerebral Blood Flow Regulation and Fuel Utilization in Man at High Altitude. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 873-881.	4.3	44
11	Global REACH 2018. <i>Hypertension</i> , 2019, 73, 1327-1335.	2.7	44
12	Inhaled Fentanyl Aerosol in Healthy Volunteers. <i>Anesthesia and Analgesia</i> , 2012, 115, 1071-1077.	2.2	40
13	Impact of hypocapnia and cerebral perfusion on orthostatic tolerance. <i>Journal of Physiology</i> , 2014, 592, 5203-5219.	2.9	36
14	Cerebral oxidative metabolism is decreased with extreme apnoea in humans; impact of hypercapnia. <i>Journal of Physiology</i> , 2016, 594, 5317-5328.	2.9	36
15	Resting pulmonary haemodynamics and shunting: a comparison of sea-level inhabitants to high altitude Sherpas. <i>Journal of Physiology</i> , 2014, 592, 1397-1409.	2.9	31
16	Surviving Without Oxygen: How Low Can the Human Brain Go?. <i>High Altitude Medicine and Biology</i> , 2017, 18, 73-79.	0.9	28
17	Hypercapnia is essential to reduce the cerebral oxidative metabolism during extreme apnea in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3231-3242.	4.3	27
18	Effects of elevated oxygen and carbon dioxide partial pressures on respiratory function and cognitive performance. <i>Journal of Applied Physiology</i> , 2014, 117, 406-412.	2.5	25

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19	Prolonged progressive hypermetabolism during COVID-19 hospitalization undetected by common predictive energy equations. <i>Clinical Nutrition ESPEN</i> , 2021, 45, 341-350.	1.2	25
20	The 2018 Global Research Expedition on Altitude Related Chronic Health (Global REACH) to Cerro de Pasco, Peru: an Experimental Overview. <i>Experimental Physiology</i> , 2021, 106, 86-103.	2.0	24
21	Competitive apnea and its effect on the human brain: focus on the redox regulation of blood-brain barrier permeability and neuronal parenchymal integrity. <i>FASEB Journal</i> , 2018, 32, 2305-2314.	0.5	22
22	Nitric oxide contributes to cerebrovascular shear-mediated dilatation but not steady-state cerebrovascular reactivity to carbon dioxide. <i>Journal of Physiology</i> , 2022, 600, 1385-1403.	2.9	21
23	Perioperative Quality Initiative (POQI) consensus statement on fundamental concepts in perioperative fluid management: fluid responsiveness and venous capacitance. <i>Perioperative Medicine (London, England)</i> , 2020, 1, 1-14.	1.0	20
24	UBC-Nepal Expedition: An experimental overview of the 2016 University of British Columbia Scientific Expedition to Nepal Himalaya. <i>PLoS ONE</i> , 2018, 13, e0204660.	2.5	19
25	Hypoxemia increases blood-brain barrier permeability during extreme apnea in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1120-1135.	4.3	18
26	Peripheral chemoreflex inhibition with low-dose dopamine: New insight into mechanisms of extreme apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1162-R1171.	1.8	17
27	UBC-Nepal expedition: upper and lower limb conduit artery shear stress and flow-mediated dilation on ascent to 5,050 m in lowlanders and Sherpa. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H1532-H1543.	3.2	17
28	Influence of iron manipulation on hypoxic pulmonary vasoconstriction and pulmonary reactivity during ascent and acclimatization to 5050 m. <i>Journal of Physiology</i> , 2021, 599, 1685-1708.	2.9	17
29	UBC-Nepal expedition: phenotypical evidence for evolutionary adaptation in the control of cerebral blood flow and oxygen delivery at high altitude. <i>Journal of Physiology</i> , 2019, 597, 2993-3008.	2.9	16
30	Acute reductions in haematocrit increase flow-mediated dilatation independent of resting nitric oxide bioavailability in humans. <i>Journal of Physiology</i> , 2020, 598, 4225-4236.	2.9	15
31	$\beta$ -Blockade increases maximal apnea duration in elite breath-hold divers. <i>Journal of Applied Physiology</i> , 2017, 122, 899-906.	2.5	14
32	Shared Ventilation: Toward Safer Ventilator Splitting in Resource Emergencies. <i>Anesthesiology</i> , 2020, 133, 681-683.	2.5	13
33	Forced vital capacity and not central chemoreflex predicts maximal hyperoxic breath-hold duration in elite apneists. <i>Respiratory Physiology and Neurobiology</i> , 2017, 242, 8-11.	1.6	9
34	Validation of a Noninvasive Assessment of Pulmonary Gas Exchange During Exercise in Hypoxia. <i>Chest</i> , 2020, 158, 1644-1650.	0.8	8
35	Influence of lung volume on the interaction between cardiac output and cerebrovascular regulation during extreme apnoea. <i>Experimental Physiology</i> , 2017, 102, 1288-1299.	2.0	7
36	UBC-Nepal Expedition: Haemoconcentration underlies the reductions in cerebral blood flow observed during acclimatization to high altitude. <i>Experimental Physiology</i> , 2019, 104, 1963-1972.	2.0	7

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37	A methodology to explore ventilatory chemosensitivity and opioid-induced respiratory depression risk. <i>Journal of Applied Physiology</i> , 2020, 129, 500-507.	2.5	7
38	Role of cerebral blood flow in extreme breath holding. <i>Translational Neuroscience</i> , 2016, 7, 12-16.	1.4	6
39	A novel paraplegia model in awake behaving macaques. <i>Journal of Neurophysiology</i> , 2017, 118, 1800-1808.	1.8	6
40	Reduced left ventricular filling following blood volume extraction does not result in compensatory augmentation of cardiac mechanics. <i>Experimental Physiology</i> , 2018, 103, 495-501.	2.0	6
41	Regulation of cerebral blood flow by arterial PCO <sub>2</sub> independent of metabolic acidosis at 5050m. <i>Journal of Physiology</i> , 2021, 599, 3513-3530.	2.9	6
42	The influence of hemoconcentration on hypoxic pulmonary vasoconstriction in acute, prolonged, and lifelong hypoxemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H738-H747.	3.2	6
43	Trans-cerebral HCO <sub>3</sub> <sup>-</sup> and PCO <sub>2</sub> exchange during acute respiratory acidosis and exercise-induced metabolic acidosis in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 559-571.	4.3	6
44	Systematic sonographic and evoked motor identification of the nerve to vastus medialis during adductor canal block. <i>Regional Anesthesia and Pain Medicine</i> , 2020, 45, 937.1-938.	2.3	5
45	GLOBAL REACH 2018: intra-arterial vitamin C improves endothelial-dependent vasodilatory function in humans at high altitude. <i>Journal of Physiology</i> , 2022, 600, 1373-1383.	2.9	5
46	Acid-base balance at high altitude in lowlanders and indigenous highlanders. <i>Journal of Applied Physiology</i> , 2022, 132, 575-580.	2.5	5
47	<p></p>Assessment of a Non Invasive Brain Oximeter in Volunteers Undergoing Acute Hypoxia</p>. <i>Medical Devices: Evidence and Research</i> , 2020, Volume 13, 183-194.	0.8	3
48	Abdominal Gunshot Causing Ventricular Septal Injury Without Perforation into the Pericardium. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2019, 33, 772-775.	1.3	2
49	Global REACH 2018: Characterizing Acid-Base Balance Over 21 Days at 4,300m in Lowlanders. <i>High Altitude Medicine and Biology</i> , 2022, 23, 185-191.	0.9	2
50	Hemodilution Improves Shear-Mediated Transduction of Vasodilatory Signals in Human Cerebral and Systemic Circulations. <i>FASEB Journal</i> , 2018, 32, lb293.	0.5	0
51	Reply to Drs. Wang et al.. <i>Journal of Applied Physiology</i> , 2020, 129, 933-933.	2.5	0