David B Macleod

List of Publications by Year
in descending order

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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	GLOBAL REACH 2018: intraâ€arterial vitamin C improves endothelialâ€dependent vasodilatory function in humans at high altitude. Journal of Physiology, 2022, 600, 1373-1383.	2.9	5
2	Hypoxemia increases blood-brain barrier permeability during extreme apnea in humans. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1120-1135.	4.3	18
3	Acid-base balance at high altitude in lowlanders and indigenous highlanders. Journal of Applied Physiology, 2022, 132, 575-580.	2.5	5
4	Global REACH 2018: Characterizing Acidâ€“Base Balance Over 21 Days at 4,300â€‰m in Lowlanders. High Altitude Medicine and Biology, 2022, 23, 185-191.	0.9	2
5	Nitric oxide contributes to cerebrovascular shearâ€mediated dilatation but not steadyâ€state cerebrovascular reactivity to carbon dioxide. Journal of Physiology, 2022, 600, 1385-1403.	2.9	21
6	Trans-cerebral HCO₃^{â^'} and PCO₂ exchange during acute respiratory acidosis and exercise-induced metabolic acidosis in humans. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 559-571.	4.3	6
7	The 2018 Global Research Expedition on Altitude Related Chronic Health (Global REACH) to Cerro de Pasco, Peru: an Experimental Overview. Experimental Physiology, 2021, 106, 86-103.	2.0	24
8	Influence of iron manipulation on hypoxic pulmonary vasoconstriction and pulmonary reactivity during ascent and acclimatization to 5050Âm. Journal of Physiology, 2021, 599, 1685-1708.	2.9	17
9	Regulation of cerebral blood flow by arterial PCO₂ independent of metabolic acidosis at 5050Âm. Journal of Physiology, 2021, 599, 3513-3530.	2.9	6
10	Prolonged progressive hypermetabolism during COVID-19 hospitalization undetected by common predictive energy equations. Clinical Nutrition ESPEN, 2021, 45, 341-350.	1.2	25
11	The influence of hemoconcentration on hypoxic pulmonary vasoconstriction in acute, prolonged, and lifelong hypoxemia. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H738-H747.	3.2	6
12	Persistent hypermetabolism and longitudinal energy expenditure in critically ill patients with COVID-19. Critical Care, 2020, 24, 581.	5.8	82
13	A methodology to explore ventilatory chemosensitivity and opioid-induced respiratory depression risk. Journal of Applied Physiology, 2020, 129, 500-507.	2.5	7
14	Nitric oxide is fundamental to neurovascular coupling in humans. Journal of Physiology, 2020, 598, 4927-4939.	2.9	51
15	Systematic sonographic and evoked motor identification of the nerve to vastus medialis during adductor canal block. Regional Anesthesia and Pain Medicine, 2020, 45, 937.1-938.	2.3	5
16	Assessment of a Non Invasive Brain Oximeter in Volunteers Undergoing Acute Hypoxia . Medical Devices: Evidence and Research, 2020, Volume 13, 183-194.	0.8	3
17	Validation of a Noninvasive Assessment of Pulmonary Gas Exchange During Exercise in Hypoxia. Chest, 2020, 158, 1644-1650.	0.8	8
18	Implications for Neuromodulation Therapy to Control Inflammation and Related Organ Dysfunction in COVID-19. Journal of Cardiovascular Translational Research, 2020, 13, 894-899.	2.4	62

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19	Acute reductions in haematocrit increase flowâ€mediated dilatation independent of resting nitric oxide bioavailability in humans. Journal of Physiology, 2020, 598, 4225-4236.	2.9	15
20	Perioperative Quality Initiative (POQI) consensus statement on fundamental concepts in perioperative fluid management: fluid responsiveness and venous capacitance. Perioperative Medicine (London,) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.5	26
21	Shared Ventilation: Toward Safer Ventilator Splitting in Resource Emergencies. Anesthesiology, 2020, 133, 681-683.	2.5	13
22	Reply to Drs. Wang et al.. Journal of Applied Physiology, 2020, 129, 933-933.	2.5	0
23	UBCâ€Nepal Expedition: Haemoconcentration underlies the reductions in cerebral blood flow observed during acclimatization to high altitude. Experimental Physiology, 2019, 104, 1963-1972.	2.0	7
24	Global REACH 2018. Hypertension, 2019, 73, 1327-1335.	2.7	44
25	UBCâ€Nepal expedition: phenotypical evidence for evolutionary adaptation in the control of cerebral blood flow and oxygen delivery at high altitude. Journal of Physiology, 2019, 597, 2993-3008.	2.9	16
26	Abdominal Gunshot Causing Ventricular Septal Injury Without Perforation into the Pericardium. Journal of Cardiothoracic and Vascular Anesthesia, 2019, 33, 772-775.	1.3	2
27	Physiology of static breath holding in elite apneists. Experimental Physiology, 2018, 103, 635-651.	2.0	53
28	Reduced left ventricular filling following blood volume extraction does not result in compensatory augmentation of cardiac mechanics. Experimental Physiology, 2018, 103, 495-501.	2.0	6
29	A validation method for near-infrared spectroscopy based tissue oximeters for cerebral and somatic tissue oxygen saturation measurements. Journal of Clinical Monitoring and Computing, 2018, 32, 269-284.	1.6	48
30	Competitive apnea and its effect on the human brain: focus on the redox regulation of bloodâ€brain barrier permeability and neuronalâ€parenchymal integrity. FASEB Journal, 2018, 32, 2305-2314.	0.5	22
31	UBC-Nepal Expedition: An experimental overview of the 2016 University of British Columbia Scientific Expedition to Nepal Himalaya. PLoS ONE, 2018, 13, e0204660.	2.5	19
32	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. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H1532-H1543.	3.2	17
33	Hemodilution Improves Shearâ€Mediated Transduction of Vasodilatory Signals in Human Cerebral and Systemic Circulations. FASEB Journal, 2018, 32, lb293.	0.5	0
34	Hypercapnia is essential to reduce the cerebral oxidative metabolism during extreme apnea in humans. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3231-3242.	4.3	27
35	Forced vital capacity and not central chemoreflex predicts maximal hyperoxic breath-hold duration in elite apneists. Respiratory Physiology and Neurobiology, 2017, 242, 8-11.	1.6	9
36	Î²₁-Blockade increases maximal apnea duration in elite breath-hold divers. Journal of Applied Physiology, 2017, 122, 899-906.	2.5	14

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37	Surviving Without Oxygen: How Low Can the Human Brain Go?. High Altitude Medicine and Biology, 2017, 18, 73-79.	0.9	28
38	A novel paraplegia model in awake behaving macaques. Journal of Neurophysiology, 2017, 118, 1800-1808.	1.8	6
39	Influence of lung volume on the interaction between cardiac output and cerebrovascular regulation during extreme apnoea. Experimental Physiology, 2017, 102, 1288-1299.	2.0	7
40	Role of cerebral blood flow in extreme breath holding. Translational Neuroscience, 2016, 7, 12-16.	1.4	6
41	Cerebral oxidative metabolism is decreased with extreme apnoea in humans; impact of hypercapnia. Journal of Physiology, 2016, 594, 5317-5328.	2.9	36
42	Peripheral chemoreflex inhibition with low-dose dopamine: New insight into mechanisms of extreme apnea. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R1162-R1171.	1.8	17
43	The Contribution of Arterial Blood Gases in Cerebral Blood Flow Regulation and Fuel Utilization in Man at High Altitude. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 873-881.	4.3	44
44	End tidal-to-arterial CO₂and O₂gas gradients at low- and high-altitude during dynamic end-tidal forcing. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R895-R906.	1.8	63
45	Regulation of Brain Blood Flow and Oxygen Delivery in Elite Breath-Hold Divers. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 66-73.	4.3	54
46	Resting pulmonary haemodynamics and shunting: a comparison of seaâ€level inhabitants to high altitude Sherpas. Journal of Physiology, 2014, 592, 1397-1409.	2.9	31
47	Impact of hypocapnia and cerebral perfusion on orthostatic tolerance. Journal of Physiology, 2014, 592, 5203-5219.	2.9	36
48	Stability of cerebral metabolism and substrate availability in humans during hypoxia and hyperoxia. Clinical Science, 2014, 126, 661-670.	4.3	80
49	Effects of elevated oxygen and carbon dioxide partial pressures on respiratory function and cognitive performance. Journal of Applied Physiology, 2014, 117, 406-412.	2.5	25
50	Inhaled Fentanyl Aerosol in Healthy Volunteers. Anesthesia and Analgesia, 2012, 115, 1071-1077.	2.2	40
51	Development and Validation of a Cerebral Oximeter Capable of Absolute Accuracy. Journal of Cardiothoracic and Vascular Anesthesia, 2012, 26, 1007-1014.	1.3	50