Kurt J Smith

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6661276/publications.pdf

Version: 2024-02-01

59 papers	2,779 citations	186265 28 h-index	182427 51 g-index
60 all docs	60 docs citations	60 times ranked	2442 citing authors

#	Article	IF	Citations
1	Kids With Altitude: Acute Mountain Sickness and Changes in Body Mass and Total Body Water in Children Travelling to 3800 m. Wilderness and Environmental Medicine, 2022, 33, 33-42.	0.9	2
2	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
3	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
4	Exercise and Hypercapnia Differentially Modify Ratios of Extracranial and Intracranial Pulsatility. FASEB Journal, 2022, 36, .	0.5	1
5	Studies of Twin Responses to Understand Exercise THerapy (STRUETH): cerebrovascular function. Journal of Physiology, 2022, , .	2.9	3
6	Adaptation to Exercise Training in Conduit Arteries and Cutaneous Microvessels in Humans: An Optical Coherence Tomography Study. Medicine and Science in Sports and Exercise, 2021, 53, 1945-1957.	0.4	2
7	Letâ€™s talk about sex, letâ€™s talk about pulsatility, letâ€™s talk about all the good things and the bad things of MCAv. Journal of Applied Physiology, 2021, 130, 1672-1674.	2.5	5
8	The Impact of 6-Month Land versus Water Walking on Cerebrovascular Function in the Aging Brain. Medicine and Science in Sports and Exercise, 2021, 53, 2093-2100.	0.4	6
9	Impact of acute changes in blood pressure and arterial stiffness on cerebral pulsatile haemodynamics in young and middleâ€aged adults. Experimental Physiology, 2021, 106, 1643-1653.	2.0	4
10	Regulation of cerebral blood flow by arterial PCO₂ independent of metabolic acidosis at 5050Âm. Journal of Physiology, 2021, 599, 3513-3530.	2.9	6
11	Resistance, but not endurance exercise training, induces changes in cerebrovascular function in healthy young subjects. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H881-H892.	3.2	14
12	The influence of sex and maturation on carotid and vertebral artery hemodynamics and associations with free-living (in)activity in 6â€“17-year-olds. Journal of Applied Physiology, 2021, 131, 1575-1583.	2.5	2
13	The stability of cerebrovascular CO₂ reactivity following attainment of physiological steadyâ€state. Experimental Physiology, 2021, 106, 2542-2555.	2.0	9
14	Visualizing and quantifying the impact of reactive hyperemia on cutaneous microvessels in humans. Journal of Applied Physiology, 2020, 128, 17-24.	2.5	5
15	Cerebral blood flow responses to exercise are enhanced in left ventricular assist device patients after an exercise rehabilitation program. Journal of Applied Physiology, 2020, 128, 108-116.	2.5	10
16	Assessment of cerebrovascular responses to physiological stimuli in identical twins using multimodal imaging and computational fluid dynamics. Journal of Applied Physiology, 2020, 129, 1024-1032.	2.5	12
17	Scratching the surface of hypoxic cerebral vascular control: a potentially polarizing view of mechanistic research in humans. Journal of Physiology, 2020, 598, 3313-3315.	2.9	5
18	Morning exercise mitigates the impact of prolonged sitting on cerebral blood flow in older adults. Journal of Applied Physiology, 2019, 126, 1049-1055.	2.5	39

#	Article	IF	Citations
19	Cerebral Blood Flow during Exercise in Heart Failure: Effect of Ventricular Assist Devices. Medicine and Science in Sports and Exercise, 2019, 51, 1372-1379.	0.4	14
20	Near Infrared Spectroscopy and Toe Flexion in the Dynamic Assessment of Diabetic Foot Perfusion. European Journal of Vascular and Endovascular Surgery, 2019, 58, e382-e383.	1.5	1
21	Novel Noninvasive Assessment of Microvascular Structure and Function in Humans. Medicine and Science in Sports and Exercise, 2019, 51, 1558-1565.	0.4	13
22	Matched increases in cerebral artery shear stress, irrespective of stimulus, induce similar changes in extra-cranial arterial diameter in humans. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 849-858.	4.3	32
23	Effect of dietary nitrate supplementation on thermoregulatory and cardiovascular responses to submaximal cycling in the heat. European Journal of Applied Physiology, 2018, 118, 657-668.	2.5	12
24	Effects of Exercise on Vascular Function, Structure, and Health in Humans. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a029819.	6.2	102
25	Evaluating the methods used for measuring cerebral blood flow at rest and during exercise in humans. European Journal of Applied Physiology, 2018, 118, 1527-1538.	2.5	25
26	Increasing cerebral blood flow reduces the severity of central sleep apnea at high altitude. Journal of Applied Physiology, 2018, 124, 1341-1348.	2.5	16
27	Hemodilution Improves Shearâ€Mediated Transduction of Vasodilatory Signals in Human Cerebral and Systemic Circulations. FASEB Journal, 2018, 32, lb293.	0.5	0
28	Shear-mediated dilation of the internal carotid artery occurs independent of hypercapnia. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H24-H31.	3.2	56
29	Regulation of cerebral blood flow and metabolism during exercise. Experimental Physiology, 2017, 102, 1356-1371.	2.0	219
30	Brachial and Cerebrovascular Functions Are Enhanced in Postmenopausal Women after Ingestion of Chocolate with a High Concentration of Cocoa. Journal of Nutrition, 2017, 147, 1686-1692.	2.9	25
31	Role of CO₂ in the cerebral hyperemic response to incremental normoxic and hyperoxic exercise. Journal of Applied Physiology, 2016, 120, 843-854.	2.5	31
32	Evidence for Shear Stressâ€"Mediated Dilation of the Internal Carotid Artery in Humans. Hypertension, 2016, 68, 1217-1224.	2.7	64
33	Fuelling cortical excitability during exercise: what's the matter with delivery?. Journal of Physiology, 2016, 594, 5047-5048.	2.9	4
34	Impact of prolonged sitting on vascular function in young girls. Experimental Physiology, 2015, 100, 1379-1387.	2.0	61
35	Impact of transient hypotension on regional cerebral blood flow in humans. Clinical Science, 2015, 129, 169-178.	4.3	58
36	Chemoreceptor Responsiveness at Sea Level Does Not Predict the Pulmonary Pressure Response to High Altitude. Chest, 2015, 148, 219-225.	0.8	9

#	Article	IF	Citations
37	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
38	Indomethacinâ€induced impairment of regional cerebrovascular reactivity: implications for respiratory control. Journal of Physiology, 2015, 593, 1291-1306.	2.9	41
39	Cerebral Pressureâ€“Flow Relationship in Lowlanders and Natives at High Altitude. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 248-257.	4.3	40
40	Regional cerebral blood flow in humans at high altitude: gradual ascent and 2 wk at 5,050 m. Journal of Applied Physiology, 2014, 116, 905-910.	2.5	66
41	Impact of hypocapnia and cerebral perfusion on orthostatic tolerance. Journal of Physiology, 2014, 592, 5203-5219.	2.9	36
42	Influence of high altitude on cerebral blood flow and fuel utilization during exercise and recovery. Journal of Physiology, 2014, 592, 5507-5527.	2.9	59
43	Stability of cerebral metabolism and substrate availability in humans during hypoxia and hyperoxia. Clinical Science, 2014, 126, 661-670.	4.3	80
44	Hypercapnia induces dilation of large cerebral arteries and is mediated via a nonâ€selective cyclooxygenase pathway (LB704). FASEB Journal, 2014, 28, LB704.	0.5	1
45	Differential cerebrovascular CO2 reactivity in anterior and posterior cerebral circulations. Respiratory Physiology and Neurobiology, 2013, 189, 76-86.	1.6	70
46	Regional changes in brain blood flow during severe passive hyperthermia: effects of Pa_{CO₂} and extracranial blood flow. Journal of Applied Physiology, 2013, 115, 653-659.	2.5	69
47	Influence of Posture on the Regulation of Cerebral Perfusion. Aviation, Space, and Environmental Medicine, 2012, 83, 751-757.	0.5	37
48	Tissue Oxygenation in Men and Women During Repeated-Sprint Exercise. International Journal of Sports Physiology and Performance, 2012, 7, 59-67.	2.3	37
49	Regional brain blood flow in man during acute changes in arterial blood gases. Journal of Physiology, 2012, 590, 3261-3275.	2.9	396
50	Regional cerebral blood flow distribution during exercise: Influence of oxygen. Respiratory Physiology and Neurobiology, 2012, 184, 97-105.	1.6	45
51	Integrated human physiology: breathing, blood pressure and blood flow to the brain. Journal of Physiology, 2011, 589, 2917-2917.	2.9	7
52	Reductions in cerebral blood flow during passive heat stress in humans: partitioning the mechanisms. Journal of Physiology, 2011, 589, 4053-4064.	2.9	82
53	Utility of transcranial Doppler ultrasound for the integrative assessment of cerebrovascular function. Journal of Neuroscience Methods, 2011, 196, 221-237.	2.5	460
54	Neurovascular coupling and distribution of cerebral blood flow during exercise. Journal of Neuroscience Methods, 2011, 198, 270-273.	2.5	46

#	Article	IF	Citations
55	Prolonged Repeated-Sprint Ability Is Related to Arterial O2 Desaturation in Men. International Journal of Sports Physiology and Performance, 2010, 5, 197-209.	2.3	39
56	Influence of cerebral and muscle oxygenation on repeated-sprint ability. European Journal of Applied Physiology, 2010, 109, 989-999.	2.5	113
57	Cerebral oxygenation decreases but does not impair performance during selfâ€paced, strenuous exercise. Acta Physiologica, 2010, 198, 477-486.	3.8	60
58	Sex alters impact of repeated bouts of sprint exercise on neuromuscular activity in trained athletes. Applied Physiology, Nutrition and Metabolism, 2009, 34, 689-699.	1.9	34
59	Near-Infrared Spectroscopy. , 0, , .		23