

Kurt J Smith

List of Publications by Year in descending order

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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	Utility of transcranial Doppler ultrasound for the integrative assessment of cerebrovascular function. <i>Journal of Neuroscience Methods</i> , 2011, 196, 221-237.	2.5	460
2	Regional brain blood flow in man during acute changes in arterial blood gases. <i>Journal of Physiology</i> , 2012, 590, 3261-3275.	2.9	396
3	Regulation of cerebral blood flow and metabolism during exercise. <i>Experimental Physiology</i> , 2017, 102, 1356-1371.	2.0	219
4	Influence of cerebral and muscle oxygenation on repeated-sprint ability. <i>European Journal of Applied Physiology</i> , 2010, 109, 989-999.	2.5	113
5	Effects of Exercise on Vascular Function, Structure, and Health in Humans. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018, 8, a029819.	6.2	102
6	Reductions in cerebral blood flow during passive heat stress in humans: partitioning the mechanisms. <i>Journal of Physiology</i> , 2011, 589, 4053-4064.	2.9	82
7	Stability of cerebral metabolism and substrate availability in humans during hypoxia and hyperoxia. <i>Clinical Science</i> , 2014, 126, 661-670.	4.3	80
8	Differential cerebrovascular CO ₂ reactivity in anterior and posterior cerebral circulations. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 76-86.	1.6	70
9	Regional changes in brain blood flow during severe passive hyperthermia: effects of Pa _{CO₂} and extracranial blood flow. <i>Journal of Applied Physiology</i> , 2013, 115, 653-659.	2.5	69
10	Regional cerebral blood flow in humans at high altitude: gradual ascent and 2 wk at 5,050 m. <i>Journal of Applied Physiology</i> , 2014, 116, 905-910.	2.5	66
11	Evidence for Shear Stress-Mediated Dilation of the Internal Carotid Artery in Humans. <i>Hypertension</i> , 2016, 68, 1217-1224.	2.7	64
12	Impact of prolonged sitting on vascular function in young girls. <i>Experimental Physiology</i> , 2015, 100, 1379-1387.	2.0	61
13	Cerebral oxygenation decreases but does not impair performance during self-paced, strenuous exercise. <i>Acta Physiologica</i> , 2010, 198, 477-486.	3.8	60
14	Influence of high altitude on cerebral blood flow and fuel utilization during exercise and recovery. <i>Journal of Physiology</i> , 2014, 592, 5507-5527.	2.9	59
15	Impact of transient hypotension on regional cerebral blood flow in humans. <i>Clinical Science</i> , 2015, 129, 169-178.	4.3	58
16	Shear-mediated dilation of the internal carotid artery occurs independent of hypercapnia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H24-H31.	3.2	56
17	Neurovascular coupling and distribution of cerebral blood flow during exercise. <i>Journal of Neuroscience Methods</i> , 2011, 198, 270-273.	2.5	46
18	Regional cerebral blood flow distribution during exercise: Influence of oxygen. <i>Respiratory Physiology and Neurobiology</i> , 2012, 184, 97-105.	1.6	45

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19	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
20	Indomethacin-induced impairment of regional cerebrovascular reactivity: implications for respiratory control. <i>Journal of Physiology</i> , 2015, 593, 1291-1306.	2.9	41
21	Cerebral Pressure-Flow Relationship in Lowlanders and Natives at High Altitude. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 248-257.	4.3	40
22	Prolonged Repeated-Sprint Ability Is Related to Arterial O ₂ Desaturation in Men. <i>International Journal of Sports Physiology and Performance</i> , 2010, 5, 197-209.	2.3	39
23	Morning exercise mitigates the impact of prolonged sitting on cerebral blood flow in older adults. <i>Journal of Applied Physiology</i> , 2019, 126, 1049-1055.	2.5	39
24	Influence of Posture on the Regulation of Cerebral Perfusion. <i>Aviation, Space, and Environmental Medicine</i> , 2012, 83, 751-757.	0.5	37
25	Tissue Oxygenation in Men and Women During Repeated-Sprint Exercise. <i>International Journal of Sports Physiology and Performance</i> , 2012, 7, 59-67.	2.3	37
26	Impact of hypocapnia and cerebral perfusion on orthostatic tolerance. <i>Journal of Physiology</i> , 2014, 592, 5203-5219.	2.9	36
27	Sex alters impact of repeated bouts of sprint exercise on neuromuscular activity in trained athletes. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009, 34, 689-699.	1.9	34
28	Matched increases in cerebral artery shear stress, irrespective of stimulus, induce similar changes in extra-cranial arterial diameter in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 849-858.	4.3	32
29	Role of CO ₂ in the cerebral hyperemic response to incremental normoxic and hyperoxic exercise. <i>Journal of Applied Physiology</i> , 2016, 120, 843-854.	2.5	31
30	Brachial and Cerebrovascular Functions Are Enhanced in Postmenopausal Women after Ingestion of Chocolate with a High Concentration of Cocoa. <i>Journal of Nutrition</i> , 2017, 147, 1686-1692.	2.9	25
31	Evaluating the methods used for measuring cerebral blood flow at rest and during exercise in humans. <i>European Journal of Applied Physiology</i> , 2018, 118, 1527-1538.	2.5	25
32	Near-Infrared Spectroscopy. , 0, , .		23
33	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
34	Increasing cerebral blood flow reduces the severity of central sleep apnea at high altitude. <i>Journal of Applied Physiology</i> , 2018, 124, 1341-1348.	2.5	16
35	Cerebral Blood Flow during Exercise in Heart Failure: Effect of Ventricular Assist Devices. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 1372-1379.	0.4	14
36	Resistance, but not endurance exercise training, induces changes in cerebrovascular function in healthy young subjects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H881-H892.	3.2	14

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37	Novel Noninvasive Assessment of Microvascular Structure and Function in Humans. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 1558-1565.	0.4	13
38	Effect of dietary nitrate supplementation on thermoregulatory and cardiovascular responses to submaximal cycling in the heat. <i>European Journal of Applied Physiology</i> , 2018, 118, 657-668.	2.5	12
39	Assessment of cerebrovascular responses to physiological stimuli in identical twins using multimodal imaging and computational fluid dynamics. <i>Journal of Applied Physiology</i> , 2020, 129, 1024-1032.	2.5	12
40	Cerebral blood flow responses to exercise are enhanced in left ventricular assist device patients after an exercise rehabilitation program. <i>Journal of Applied Physiology</i> , 2020, 128, 108-116.	2.5	10
41	Chemoreceptor Responsiveness at Sea Level Does Not Predict the Pulmonary Pressure Response to High Altitude. <i>Chest</i> , 2015, 148, 219-225.	0.8	9
42	The stability of cerebrovascular CO ₂ reactivity following attainment of physiological steady-state. <i>Experimental Physiology</i> , 2021, 106, 2542-2555.	2.0	9
43	Integrated human physiology: breathing, blood pressure and blood flow to the brain. <i>Journal of Physiology</i> , 2011, 589, 2917-2917.	2.9	7
44	The Impact of 6-Month Land versus Water Walking on Cerebrovascular Function in the Aging Brain. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 2093-2100.	0.4	6
45	Regulation of cerebral blood flow by arterial PCO ₂ independent of metabolic acidosis at 5050Åm. <i>Journal of Physiology</i> , 2021, 599, 3513-3530.	2.9	6
46	Trans-cerebral HCO ₃ ⁻ and PCO ₂ 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
47	Visualizing and quantifying the impact of reactive hyperemia on cutaneous microvessels in humans. <i>Journal of Applied Physiology</i> , 2020, 128, 17-24.	2.5	5
48	Scratching the surface of hypoxic cerebral vascular control: a potentially polarizing view of mechanistic research in humans. <i>Journal of Physiology</i> , 2020, 598, 3313-3315.	2.9	5
49	Let's talk about sex, let's talk about pulsatility, let's talk about all the good things and the bad things of MCAv. <i>Journal of Applied Physiology</i> , 2021, 130, 1672-1674.	2.5	5
50	Fuelling cortical excitability during exercise: what's the matter with delivery?. <i>Journal of Physiology</i> , 2016, 594, 5047-5048.	2.9	4
51	Impact of acute changes in blood pressure and arterial stiffness on cerebral pulsatile haemodynamics in young and middle-aged adults. <i>Experimental Physiology</i> , 2021, 106, 1643-1653.	2.0	4
52	Studies of Twin Responses to Understand Exercise Therapy (STRUETH): cerebrovascular function. <i>Journal of Physiology</i> , 2022, , .	2.9	3
53	Adaptation to Exercise Training in Conduit Arteries and Cutaneous Microvessels in Humans: An Optical Coherence Tomography Study. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 1945-1957.	0.4	2
54	The influence of sex and maturation on carotid and vertebral artery hemodynamics and associations with free-living (in)activity in 17-year-olds. <i>Journal of Applied Physiology</i> , 2021, 131, 1575-1583.	2.5	2

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55	Kids With Altitude: Acute Mountain Sickness and Changes in Body Mass and Total Body Water in Children Travelling to 3800 m. <i>Wilderness and Environmental Medicine</i> , 2022, 33, 33-42.	0.9	2
56	Near Infrared Spectroscopy and Toe Flexion in the Dynamic Assessment of Diabetic Foot Perfusion. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019, 58, e382-e383.	1.5	1
57	Hypercapnia induces dilation of large cerebral arteries and is mediated via a non-selective cyclooxygenase pathway (LB704). <i>FASEB Journal</i> , 2014, 28, LB704.	0.5	1
58	Exercise and Hypercapnia Differentially Modify Ratios of Extracranial and Intracranial Pulsatility. <i>FASEB Journal</i> , 2022, 36, .	0.5	1
59	Hemodilution Improves Shear-Mediated Transduction of Vasodilatory Signals in Human Cerebral and Systemic Circulations. <i>FASEB Journal</i> , 2018, 32, lb293.	0.5	0