List of Publications by Year in descending order

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PONC 7HANC

#	Article	IF	CITATIONS
1	Autonomic Neural Control of Dynamic Cerebral Autoregulation in Humans. Circulation, 2002, 106, 1814-1820.	1.6	398
2	Cardiac Remodeling in Response to 1 Year of Intensive Endurance Training. Circulation, 2014, 130, 2152-2161.	1.6	241
3	Cerebral blood flow in normal aging adults: cardiovascular determinants, clinical implications, and aerobic fitness. Journal of Neurochemistry, 2018, 144, 595-608.	2.1	177
4	Cerebral Hemodynamics in Normal Aging: Central Artery Stiffness, Wave Reflection, and Pressure Pulsatility. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 971-978.	2.4	170
5	Deterioration of cerebral autoregulation during orthostatic stress: insights from the frequency domain. Journal of Applied Physiology, 1998, 85, 1113-1122.	1.2	136
6	Impaired cerebral autoregulation: measurement and application to stroke. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, 520-531.	0.9	114
7	Dynamic Cerebral Autoregulation and Tissue Oxygenation in Amnestic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2014, 41, 765-778.	1.2	113
8	Distribution of cardiac output to the brain across the adult lifespan. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2848-2856.	2.4	97
9	Wavelet coherence analysis of dynamic cerebral autoregulation in neonatal hypoxic–ischemic encephalopathy. NeuroImage: Clinical, 2016, 11, 124-132.	1.4	94
10	Dynamic pressure–flow relationship of the cerebral circulation during acute increase in arterial pressure. Journal of Physiology, 2009, 587, 2567-2577.	1.3	93
11	Mechanism of blood pressure and Râ€R variability: insights from ganglion blockade in humans. Journal of Physiology, 2002, 543, 337-348.	1.3	91
12	Age-related increase of resting metabolic rate in the human brain. Neurolmage, 2014, 98, 176-183.	2.1	89
13	Spontaneous fluctuations in cerebral blood flow: insights from extended-duration recordings in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H1848-H1855.	1.5	88
14	Cerebral Hemodynamics During the Valsalva Maneuver. Stroke, 2004, 35, 843-847.	1.0	83
15	Cerebral Hemodynamics After Short- and Long-Term Reduction in Blood Pressure in Mild and Moderate Hypertension. Hypertension, 2007, 49, 1149-1155.	1.3	82
16	Masters athletes exhibit larger regional brain volume and better cognitive performance than sedentary older adults. Journal of Magnetic Resonance Imaging, 2013, 38, 1169-1176.	1.9	75
17	Elevated CNS Inflammation in Patients with Preclinical Alzheimer's Disease. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 30-33.	2.4	74
18	Global brain hypoperfusion and oxygenation in amnestic mild cognitive impairment. Alzheimer's and Dementia, 2014, 10, 162-170.	0.4	62

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19	Effect of pulsatile and nonpulsatile flow on cerebral perfusion in patients with left ventricular assist devices. Journal of Heart and Lung Transplantation, 2014, 33, 1295-1303.	0.3	58
20	Autonomic Ganglionic Blockade Does Not Prevent Reduction in Cerebral Blood Flow Velocity During Orthostasis in Humans. Stroke, 2007, 38, 1238-1244.	1.0	56
21	Optimization of phaseâ€contrast MRI for the quantification of wholeâ€brain cerebral blood flow. Journal of Magnetic Resonance Imaging, 2015, 42, 1126-1133.	1.9	51
22	Exercise Training in Amnestic Mild Cognitive Impairment: A One-Year Randomized Controlled Trial. Journal of Alzheimer's Disease, 2019, 71, 421-433.	1.2	51
23	One-Year Aerobic Exercise Reduced Carotid Arterial Stiffness and Increased Cerebral Blood Flow in Amnestic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2021, 80, 841-853.	1.2	48
24	Inhibition of nitric oxide synthase does not alter dynamic cerebral autoregulation in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H863-H869.	1.5	44
25	Central artery stiffness, baroreflex sensitivity, and brain white matter neuronal fiber integrity in older adults. NeuroImage, 2015, 110, 162-170.	2.1	41
26	Vascular Coupling in Resting-State FMRI: Evidence from Multiple Modalities. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1910-1920.	2.4	39
27	Novel Wavelet Real Time Analysis of Neurovascular Coupling in Neonatal Encephalopathy. Scientific Reports, 2017, 7, 45958.	1.6	35
28	Older Adults with Amnestic Mild Cognitive Impairment Exhibit Exacerbated Gait Slowing under Dual-Task Challenges. Current Alzheimer Research, 2014, 11, 494-500.	0.7	35
29	Individual variability of cerebral autoregulation, posterior cerebral circulation and white matter hyperintensity. Journal of Physiology, 2016, 594, 3141-3155.	1.3	33
30	Midlife aerobic exercise and brain structural integrity: Associations with age and cardiorespiratory fitness. NeuroImage, 2021, 225, 117512.	2.1	31
31	Lack of linear correlation between dynamic and steadyâ€state cerebral autoregulation. Journal of Physiology, 2017, 595, 5623-5636.	1.3	29
32	Dynamic Cerebral Autoregulation Reproducibility Is Affected by Physiological Variability. Frontiers in Physiology, 2019, 10, 865.	1.3	29
33	Cerebral vasomotor reactivity during hypo- and hypercapnia across the adult lifespan. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 600-610.	2.4	29
34	Cerebral vasomotor reactivity: steadyâ€state <i>versus</i> transient changes in carbon dioxide tension. Experimental Physiology, 2014, 99, 1499-1510.	0.9	27
35	Cardiorespiratory Fitness and White Matter Neuronal Fiber Integrity in Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2017, 61, 729-739.	1.2	27
36	Amyloid burden and sleep blood pressure in amnestic mild cognitive impairment. Neurology, 2015, 85, 1922-1929.	1.5	26

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37	Comparison of Model-Based Indices ofÂCerebral Autoregulation and Vasomotor Reactivity Using Transcranial Doppler versus Near-Infrared Spectroscopy inÂPatients with Amnestic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2017, 56, 89-105.	1.2	24
38	Impact of Lifelong Exercise Training Dose on Ventricular-Arterial Coupling. Circulation, 2018, 138, 2638-2647.	1.6	23
39	Cerebral White Matter Integrity in Amnestic Mild Cognitive Impairment: A 1-Year Randomized Controlled Trial of Aerobic Exercise Training. Journal of Alzheimer's Disease, 2020, 73, 489-501.	1.2	22
40	Dynamic regulation of heart rate during acute hypotension: new insight into baroreflex function. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H407-H419.	1.5	21
41	Carotid Stiffness is Associated with Brain Amyloid-β Burden in Amnestic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2020, 74, 925-935.	1.2	19
42	Assessment of dynamic cerebral autoregulation in humans: Is reproducibility dependent on blood pressure variability?. PLoS ONE, 2020, 15, e0227651.	1.1	17
43	Central autonomic network functional connectivity: correlation with baroreflex function and cardiovascular variability in older adults. Brain Structure and Function, 2020, 225, 1575-1585.	1.2	17
44	Cerebral Hemodynamics in Asphyxiated Newborns Undergoing Hypothermia Therapy: Pilot Findings Using a Multiple-Time-Scale Analysis. Pediatric Neurology, 2016, 55, 30-36.	1.0	16
45	Adaptive lymphocyte profiles correlate to brain Aβ burden in patients with mild cognitive impairment. Journal of Neuroinflammation, 2017, 14, 149.	3.1	16
46	One-year aerobic exercise altered cerebral vasomotor reactivity in mild cognitive impairment. Journal of Applied Physiology, 2021, 131, 119-130.	1.2	16
47	Rationale and methods for a multicenter clinical trial assessing exercise and intensive vascular risk reduction in preventing dementia (rrAD Study). Contemporary Clinical Trials, 2019, 79, 44-54.	0.8	15
48	Brain White Matter Hyperintensity Lesion Characterization in T2 Fluid-Attenuated Inversion Recovery Magnetic Resonance Images: Shape, Texture, and Potential Growth. Frontiers in Neuroscience, 2019, 13, 353.	1.4	14
49	Impaired cerebral blood flow regulation in chronic traumatic brain injury. Brain Research, 2020, 1743, 146924.	1.1	14
50	Aerobic exercise training and neurocognitive function in cognitively normal older adults: A oneâ€year randomized controlled trial. Journal of Internal Medicine, 2022, 292, 788-803.	2.7	14
51	Wavelet-based neurovascular coupling can predict brain abnormalities in neonatal encephalopathy. NeuroImage: Clinical, 2021, 32, 102856.	1.4	13
52	Brain blood and cerebrospinal fluid flow dynamics during rhythmic handgrip exercise in young healthy men and women. Journal of Physiology, 2021, 599, 1799-1813.	1.3	12
53	Obstructive sleep apnea: Brain hemodynamics, structure, and function. Journal of Applied Biobehavioral Research, 2017, 22, e12101.	2.0	10
54	The Level of Plasma Amyloid-Î <sup>2</sup> 40 Is Correlated with Peripheral Transport Proteins in Cognitively Normal Adults: A Population-Based Cross-Sectional Study. Journal of Alzheimer's Disease, 2018, 65, 951-961.	1.2	9

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55	Carotid Arterial Stiffness and Cerebral Blood Flow in Amnestic Mild Cognitive Impairment. Current Alzheimer Research, 2021, 17, 1115-1125.	0.7	9
56	Neurovascular coupling (NVC) in newborns using processed EEG versus amplitude-EEG. Scientific Reports, 2021, 11, 9426.	1.6	9
57	Rigor of Neurovascular Coupling (NVC) Assessment in Newborns Using Different Amplitude EEG Algorithms. Scientific Reports, 2020, 10, 9183.	1.6	8
58	A proof-of-concept trial of a community-based aerobic exercise program for individuals with traumatic brain injury. Brain Injury, 2021, 35, 233-240.	0.6	8
59	EEG Spectral Power: A Proposed Physiological Biomarker to Classify the Hypoxic-Ischemic Encephalopathy Severity in Real Time. Pediatric Neurology, 2021, 122, 7-14.	1.0	8
60	Midlife aerobic exercise and dynamic cerebral autoregulation: associations with baroreflex sensitivity and central arterial stiffness. Journal of Applied Physiology, 2021, 131, 1599-1612.	1.2	8
61	Middle-aged endurance athletes exhibit lower cerebrovascular impedance than sedentary peers. Journal of Applied Physiology, 2020, 129, 335-342.	1.2	7
62	Older age and male sex are associated with higher cerebrovascular impedance. Journal of Applied Physiology, 2021, 130, 172-181.	1.2	7
63	Estimation of cerebral blood flow velocity during breath-hold challenge using artificial neural networks. Computers in Biology and Medicine, 2019, 115, 103508.	3.9	6
64	EEG phase-amplitude coupling to stratify encephalopathy severity in the developing brain. Computer Methods and Programs in Biomedicine, 2022, 214, 106593.	2.6	6
65	Regional heterogeneity of cerebral hemodynamics in mild neonatal encephalopathy measured with multichannel near-infrared spectroscopy. Pediatric Research, 2021, 89, 882-888.	1.1	5
66	The impact of 2Âyears of highâ€intensity exercise training on a model of integrated cardiovascular regulation. Journal of Physiology, 2019, 597, 419-429.	1.3	4
67	Apolipoprotein E ε4 Allele is Associated With Plasma Amyloid Beta and Amyloid Beta Transporter Levels: A Cross-sectional Study in a Rural Area of Xi'an, China. American Journal of Geriatric Psychiatry, 2020, 28, 194-204.	0.6	4
68	Baseline Prevalence of Polypharmacy in Older Hypertensive Study Subjects with Elevated Dementia Risk: Findings from the Risk Reduction for Alzheimer's Disease Study (rrAD). Journal of Alzheimer's Disease, 2020, 77, 175-182.	1.2	4
69	Cerebral Vasomotor Reactivity in Amnestic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2020, 77, 191-202.	1.2	4
70	Faster Brain Shrinkage in the ACCORD MIND Study. JAMA Internal Medicine, 2015, 175, 144.	2.6	3
71	Hippocampal and rostral anterior cingulate blood flow is associated with affective symptoms in chronic traumatic brain injury. Brain Research, 2021, 1771, 147631.	1.1	3
72	The Dynamic Relationship Between Cortical Oxygenation and End-Tidal CO2 Transient Changes Is Impaired in Mild Cognitive Impairment Patients. Frontiers in Physiology, 2021, 12, 772456.	1.3	3

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73	Physical activity and perceived barriers in individuals with <scp>moderateâ€ŧoâ€severe</scp> traumatic brain injury. PM and R, 2023, 15, 705-714.	0.9	3
74	Comparing modelâ€based cerebrovascular physiomarkers with DTI biomarkers in MCI patients. Brain and Behavior, 2019, 9, e01356.	1.0	2
75	Dysregulation of CO2-Driven Heart-Rate Chemoreflex Is Related Closely to Impaired CO2 Dynamic Vasomotor Reactivity in Mild Cognitive Impairment Patients. Journal of Alzheimer's Disease, 2020, 75, 855-870.	1.2	2
76	Physical activity status and quality of life in patients with epilepsy – Survey from level four epilepsy monitoring units. Epilepsy Research, 2021, 173, 106639.	0.8	2
77	Usability of a two-way personalized mobile trainer system in a community-based exercise program for adults with chronic traumatic brain injury. Brain Injury, 2022, 36, 359-367.	0.6	2
78	Nonlinear analysis of dynamic cerebral autoregulation in humans under orthostatic stress. , 0, , .		1
79	Ventricularâ€arterial coupling and arterialâ€baroreflex function in patients with heart failure and normal ejection fraction. FASEB Journal, 2006, 20, A1197.	0.2	1
80	O3-09-01: Patients with mild cognitive impairment exhibit gait disturbances when challenged cognitively. , 2013, 9, P535-P535.		0
81	P1-208: Amyloid burden in patients with mild cognitive impairment is associated with elevated blood pressure during sleep and altered cerebral pressure-flow dynamics. , 2015, 11, P429-P430.		0
82	ICâ€Pâ€152: BRAIN WHITE MATTER HYPERINTENSITY LESION CHARACTERIZATION IN T <sub>2</sub> FLUIDâ€ATTENUATED INVERSION RECOVERY MAGNETIC RESONANCE IMAGES: SHAPE, TEXTURE, AND PENUMBRA. Alzheimer's and Dementia, 2019, 15, P122.	0.4	0
83	ICâ€Pâ€041: STRATEGIES OF BRAIN MRI DATA ACQUISITION, QUALITY CONTROL AND ANALYSIS FOR THE MULTICENTER RISK REDUCTION FOR ALZHEIMER'S DISEASE (RRAD) CLINICAL TRIAL. Alzheimer's and Dementia, 2019, 15, P45.	0.4	0
84	Dynamic cerebral autoregulation during passive heat stress. FASEB Journal, 2008, 22, 956.8.	0.2	0
85	Impact of Aging and Lifeâ€long Exercise on Cerebral Vasomotor Reactivity. FASEB Journal, 2011, 25, 1057.4.	0.2	0
86	Aerobic exercise training Increases brain perfusion in elderly women. FASEB Journal, 2011, 25, 1057.3.	0.2	0
87	Vascular Aging: Association between Endothelial Function and Arterial Stiffness. FASEB Journal, 2013, 27, 1138.4.	0.2	0
88	The Role of Cardiorespiratory Fitness and Central Arterial Pressure in Ageâ€Related Reduction in Brain Volume. FASEB Journal, 2013, 27, 709.5.	0.2	0
89	Estimation of Cerebral Vasomotor Reactivity with Near Infrared Spectroscopy in Young Adults. FASEB Journal, 2020, 34, 1-1.	0.2	0

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91	Title is missing!. , 2020, 15, e0227651.		0
92	Title is missing!. , 2020, 15, e0227651.		0
93	Title is missing!. , 2020, 15, e0227651.		0