

Rong Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,380
citations

172457
29
h-index

155660
55
g-index

106
all docs

106
docs citations

106
times ranked

4105
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical activity and perceived barriers in individuals with <scp>moderateâ€toâ€severe</scp> traumatic brain injury. PM and R, 2023, 15, 705-714.	1.6	3
2	EEG phase-amplitude coupling to stratify encephalopathy severity in the developing brain. Computer Methods and Programs in Biomedicine, 2022, 214, 106593.	4.7	6
3	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.	1.2	2
4	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.	6.0	14
5	Regional heterogeneity of cerebral hemodynamics in mild neonatal encephalopathy measured with multichannel near-infrared spectroscopy. Pediatric Research, 2021, 89, 882-888.	2.3	5
6	Midlife aerobic exercise and brain structural integrity: Associations with age and cardiorespiratory fitness. Neurolmage, 2021, 225, 117512.	4.2	31
7	Older age and male sex are associated with higher cerebrovascular impedance. Journal of Applied Physiology, 2021, 130, 172-181.	2.5	7
8	A proof-of-concept trial of a community-based aerobic exercise program for individuals with traumatic brain injury. Brain Injury, 2021, 35, 233-240.	1.2	8
9	Carotid Arterial Stiffness and Cerebral Blood Flow in Amnesic Mild Cognitive Impairment. Current Alzheimer Research, 2021, 17, 1115-1125.	1.4	9
10	Brain blood and cerebrospinal fluid flow dynamics during rhythmic handgrip exercise in young healthy men and women. Journal of Physiology, 2021, 599, 1799-1813.	2.9	12
11	One-Year Aerobic Exercise Reduced Carotid Arterial Stiffness and Increased Cerebral Blood Flow in Amnesic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2021, 80, 841-853.	2.6	48
12	Neurovascular coupling (NVC) in newborns using processed EEG versus amplitude-EEG. Scientific Reports, 2021, 11, 9426.	3.3	9
13	One-year aerobic exercise altered cerebral vasomotor reactivity in mild cognitive impairment. Journal of Applied Physiology, 2021, 131, 119-130.	2.5	16
14	Physical activity status and quality of life in patients with epilepsy â€“ Survey from level four epilepsy monitoring units. Epilepsy Research, 2021, 173, 106639.	1.6	2
15	EEG Spectral Power: A Proposed Physiological Biomarker to Classify the Hypoxic-Ischemic Encephalopathy Severity in Real Time. Pediatric Neurology, 2021, 122, 7-14.	2.1	8
16	Hippocampal and rostral anterior cingulate blood flow is associated with affective symptoms in chronic traumatic brain injury. Brain Research, 2021, 1771, 147631.	2.2	3
17	Midlife aerobic exercise and dynamic cerebral autoregulation: associations with baroreflex sensitivity and central arterial stiffness. Journal of Applied Physiology, 2021, 131, 1599-1612.	2.5	8
18	Wavelet-based neurovascular coupling can predict brain abnormalities in neonatal encephalopathy. Neurolmage: Clinical, 2021, 32, 102856.	2.7	13

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19	The Dynamic Relationship Between Cortical Oxygenation and End-Tidal CO ₂ Transient Changes Is Impaired in Mild Cognitive Impairment Patients. <i>Frontiers in Physiology</i> , 2021, 12, 772456.	2.8	3
20	Cerebral vasomotor reactivity during hypo- and hypercapnia across the adult lifespan. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 600-610.	4.3	29
21	Apolipoprotein E ϵ 4 Allele is Associated With Plasma Amyloid Beta and Amyloid Beta Transporter Levels: A Cross-sectional Study in a Rural Area of Xi'an, China. <i>American Journal of Geriatric Psychiatry</i> , 2020, 28, 194-204.	1.2	4
22	Cerebral White Matter Integrity in Amnesic Mild Cognitive Impairment: A 1-Year Randomized Controlled Trial of Aerobic Exercise Training. <i>Journal of Alzheimer's Disease</i> , 2020, 73, 489-501.	2.6	22
23	Middle-aged endurance athletes exhibit lower cerebrovascular impedance than sedentary peers. <i>Journal of Applied Physiology</i> , 2020, 129, 335-342.	2.5	7
24	Baseline Prevalence of Polypharmacy in Older Hypertensive Study Subjects with Elevated Dementia Risk: Findings from the Risk Reduction for Alzheimer's Disease Study (rrAD). <i>Journal of Alzheimer's Disease</i> , 2020, 77, 175-182.	2.6	4
25	Cerebral Vasomotor Reactivity in Amnesic Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2020, 77, 191-202.	2.6	4
26	Dysregulation of CO ₂ -Driven Heart-Rate Chemoreflex Is Related Closely to Impaired CO ₂ Dynamic Vasomotor Reactivity in Mild Cognitive Impairment Patients. <i>Journal of Alzheimer's Disease</i> , 2020, 75, 855-870.	2.6	2
27	Carotid Stiffness is Associated with Brain Amyloid- β Burden in Amnesic Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2020, 74, 925-935.	2.6	19
28	Impaired cerebral blood flow regulation in chronic traumatic brain injury. <i>Brain Research</i> , 2020, 1743, 146924.	2.2	14
29	Rigor of Neurovascular Coupling (NVC) Assessment in Newborns Using Different Amplitude EEG Algorithms. <i>Scientific Reports</i> , 2020, 10, 9183.	3.3	8
30	Assessment of dynamic cerebral autoregulation in humans: Is reproducibility dependent on blood pressure variability?. <i>PLoS ONE</i> , 2020, 15, e0227651.	2.5	17
31	Central autonomic network functional connectivity: correlation with baroreflex function and cardiovascular variability in older adults. <i>Brain Structure and Function</i> , 2020, 225, 1575-1585.	2.3	17
32	Estimation of Cerebral Vasomotor Reactivity with Near Infrared Spectroscopy in Young Adults. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
33	Title is missing!. , 2020, 15, e0227651.		0
34	Title is missing!. , 2020, 15, e0227651.		0
35	Title is missing!. , 2020, 15, e0227651.		0
36	Title is missing!. , 2020, 15, e0227651.		0

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37	Dynamic Cerebral Autoregulation Reproducibility Is Affected by Physiological Variability. <i>Frontiers in Physiology</i> , 2019, 10, 865.	2.8	29
38	Comparing model-based cerebrovascular physiomeasures with DTI biomarkers in MCI patients. <i>Brain and Behavior</i> , 2019, 9, e01356.	2.2	2
39	Estimation of cerebral blood flow velocity during breath-hold challenge using artificial neural networks. <i>Computers in Biology and Medicine</i> , 2019, 115, 103508.	7.0	6
40	Exercise Training in Amnesic Mild Cognitive Impairment: A One-Year Randomized Controlled Trial. <i>Journal of Alzheimer's Disease</i> , 2019, 71, 421-433.	2.6	51
41	Brain White Matter Hyperintensity Lesion Characterization in T2 Fluid-Attenuated Inversion Recovery Magnetic Resonance Images: Shape, Texture, and Potential Growth. <i>Frontiers in Neuroscience</i> , 2019, 13, 353.	2.8	14
42	Rationale and methods for a multicenter clinical trial assessing exercise and intensive vascular risk reduction in preventing dementia (rrAD Study). <i>Contemporary Clinical Trials</i> , 2019, 79, 44-54.	1.8	15
43	ICâ€Pâ€152: BRAIN WHITE MATTER HYPERINTENSITY LESION CHARACTERIZATION IN T ₂ FLUID-ATTENUATED INVERSION RECOVERY MAGNETIC RESONANCE IMAGES: SHAPE, TEXTURE, AND PENUMBRA. <i>Alzheimer's and Dementia</i> , 2019, 15, P122.	0.8	0
44	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. <i>Alzheimer's and Dementia</i> , 2019, 15, P45.	0.8	0
45	The impact of 2 years of high-intensity exercise training on a model of integrated cardiovascular regulation. <i>Journal of Physiology</i> , 2019, 597, 419-429.	2.9	4
46	Cerebral blood flow in normal aging adults: cardiovascular determinants, clinical implications, and aerobic fitness. <i>Journal of Neurochemistry</i> , 2018, 144, 595-608.	3.9	177
47	Impact of Lifelong Exercise Training Dose on Ventricular-Arterial Coupling. <i>Circulation</i> , 2018, 138, 2638-2647.	1.6	23
48	The Level of Plasma Amyloid- β 40 Is Correlated with Peripheral Transport Proteins in Cognitively Normal Adults: A Population-Based Cross-Sectional Study. <i>Journal of Alzheimer's Disease</i> , 2018, 65, 951-961.	2.6	9
49	Novel Wavelet Real Time Analysis of Neurovascular Coupling in Neonatal Encephalopathy. <i>Scientific Reports</i> , 2017, 7, 45958.	3.3	35
50	Impaired cerebral autoregulation: measurement and application to stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, 520-531.	1.9	114
51	Lack of linear correlation between dynamic and steady-state cerebral autoregulation. <i>Journal of Physiology</i> , 2017, 595, 5623-5636.	2.9	29
52	Obstructive sleep apnea: Brain hemodynamics, structure, and function. <i>Journal of Applied Biobehavioral Research</i> , 2017, 22, e12101.	2.0	10
53	Distribution of cardiac output to the brain across the adult lifespan. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2848-2856.	4.3	97
54	Comparison of Model-Based Indices of Cerebral Autoregulation and Vasomotor Reactivity Using Transcranial Doppler versus Near-Infrared Spectroscopy in Patients with Amnesic Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2017, 56, 89-105.	2.6	24

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55	Cardiorespiratory Fitness and White Matter Neuronal Fiber Integrity in Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2017, 61, 729-739.	2.6	27
56	Adaptive lymphocyte profiles correlate to brain A β 2 burden in patients with mild cognitive impairment. Journal of Neuroinflammation, 2017, 14, 149.	7.2	16
57	Individual variability of cerebral autoregulation, posterior cerebral circulation and white matter hyperintensity. Journal of Physiology, 2016, 594, 3141-3155.	2.9	33
58	Wavelet coherence analysis of dynamic cerebral autoregulation in neonatal hypoxic-ischemic encephalopathy. Neurolmage: Clinical, 2016, 11, 124-132.	2.7	94
59	Cerebral Hemodynamics in Asphyxiated Newborns Undergoing Hypothermia Therapy: Pilot Findings Using a Multiple-Time-Scale Analysis. Pediatric Neurology, 2016, 55, 30-36.	2.1	16
60	Optimization of phase-contrast MRI for the quantification of whole-brain cerebral blood flow. Journal of Magnetic Resonance Imaging, 2015, 42, 1126-1133.	3.4	51
61	Amyloid burden and sleep blood pressure in amnesic mild cognitive impairment. Neurology, 2015, 85, 1922-1929.	1.1	26
62	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
63	Central artery stiffness, baroreflex sensitivity, and brain white matter neuronal fiber integrity in older adults. Neurolmage, 2015, 110, 162-170.	4.2	41
64	Vascular Coupling in Resting-State FMRI: Evidence from Multiple Modalities. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1910-1920.	4.3	39
65	Faster Brain Shrinkage in the ACCORD MIND Study. JAMA Internal Medicine, 2015, 175, 144.	5.1	3
66	Elevated CNS Inflammation in Patients with Preclinical Alzheimer's Disease. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 30-33.	4.3	74
67	Cerebral vasomotor reactivity: steady-state versus transient changes in carbon dioxide tension. Experimental Physiology, 2014, 99, 1499-1510.	2.0	27
68	Age-related increase of resting metabolic rate in the human brain. Neurolmage, 2014, 98, 176-183.	4.2	89
69	Global brain hypoperfusion and oxygenation in amnesic mild cognitive impairment. Alzheimer's and Dementia, 2014, 10, 162-170.	0.8	62
70	Cerebral Hemodynamics in Normal Aging: Central Artery Stiffness, Wave Reflection, and Pressure Pulsatility. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 971-978.	4.3	170
71	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.	0.6	58
72	Cardiac Remodeling in Response to 1 Year of Intensive Endurance Training. Circulation, 2014, 130, 2152-2161.	1.6	241

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73	Dynamic Cerebral Autoregulation and Tissue Oxygenation in Amnesic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2014, 41, 765-778.	2.6	113
74	Older Adults with Amnesic Mild Cognitive Impairment Exhibit Exacerbated Gait Slowing under Dual-Task Challenges. Current Alzheimer Research, 2014, 11, 494-500.	1.4	35
75	O3-09-01: Patients with mild cognitive impairment exhibit gait disturbances when challenged cognitively. , 2013, 9, P535-P535.		0
76	Masters athletes exhibit larger regional brain volume and better cognitive performance than sedentary older adults. Journal of Magnetic Resonance Imaging, 2013, 38, 1169-1176.	3.4	75
77	Vascular Aging: Association between Endothelial Function and Arterial Stiffness. FASEB Journal, 2013, 27, 1138.4.	0.5	0
78	The Role of Cardiorespiratory Fitness and Central Arterial Pressure in Age-Related Reduction in Brain Volume. FASEB Journal, 2013, 27, 709.5.	0.5	0
79	Impact of Aging and Life-Long Exercise on Cerebral Vasomotor Reactivity. FASEB Journal, 2011, 25, 1057.4.	0.5	0
80	Aerobic exercise training Increases brain perfusion in elderly women. FASEB Journal, 2011, 25, 1057.3.	0.5	0
81	Dynamic pressure-flow relationship of the cerebral circulation during acute increase in arterial pressure. Journal of Physiology, 2009, 587, 2567-2577.	2.9	93
82	Dynamic cerebral autoregulation during passive heat stress. FASEB Journal, 2008, 22, 956.8.	0.5	0
83	Cerebral Hemodynamics After Short- and Long-Term Reduction in Blood Pressure in Mild and Moderate Hypertension. Hypertension, 2007, 49, 1149-1155.	2.7	82
84	Autonomic Ganglionic Blockade Does Not Prevent Reduction in Cerebral Blood Flow Velocity During Orthostasis in Humans. Stroke, 2007, 38, 1238-1244.	2.0	56
85	Ventricular-arterial coupling and arterial baroreflex function in patients with heart failure and normal ejection fraction. FASEB Journal, 2006, 20, A1197.	0.5	1
86	Cerebral Hemodynamics During the Valsalva Maneuver. Stroke, 2004, 35, 843-847.	2.0	83
87	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.	3.2	44
88	Autonomic Neural Control of Dynamic Cerebral Autoregulation in Humans. Circulation, 2002, 106, 1814-1820.	1.6	398
89	Mechanism of blood pressure and R-R variability: insights from ganglion blockade in humans. Journal of Physiology, 2002, 543, 337-348.	2.9	91
90	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.	3.2	21

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91	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.	3.2	88
92	Deterioration of cerebral autoregulation during orthostatic stress: insights from the frequency domain. Journal of Applied Physiology, 1998, 85, 1113-1122.	2.5	136
93	Nonlinear analysis of dynamic cerebral autoregulation in humans under orthostatic stress. , 0, , .		1