

HÃ©lÃ¨ne Girouard

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,878
citations

304743

22
h-index

214800

47
g-index

50
all docs

50
docs citations

50
times ranked

5813
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurovascular coupling in the normal brain and in hypertension, stroke, and Alzheimer disease. <i>Journal of Applied Physiology</i> , 2006, 100, 328-335.	2.5	1,086
2	Sex differences in Alzheimer disease – the gateway to precision medicine. <i>Nature Reviews Neurology</i> , 2018, 14, 457-469.	10.1	573
3	Astrocytic endfoot Ca^{2+} and BK channels determine both arteriolar dilation and constriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3811-3816.	7.1	265
4	Nox2-Derived Reactive Oxygen Species Mediate Neurovascular Dysregulation in the Aging Mouse Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1908-1918.	4.3	245
5	Angiotensin II Impairs Neurovascular Coupling in Neocortex Through NADPH Oxidase-Derived Radicals. <i>Circulation Research</i> , 2004, 95, 1019-1026.	4.5	233
6	NMDA Receptor Activation Increases Free Radical Production through Nitric Oxide and NOX2. <i>Journal of Neuroscience</i> , 2009, 29, 2545-2552.	3.6	224
7	Angiotensin II Attenuates Endothelium-Dependent Responses in the Cerebral Microcirculation Through Nox2-Derived Radicals. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 826-832.	2.4	141
8	Cerebrovascular Nitrosative Stress Mediates Neurovascular and Endothelial Dysfunction Induced by Angiotensin II. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 303-309.	2.4	136
9	Remote control of the permeability of the blood-brain barrier by magnetic heating of nanoparticles: A proof of concept for brain drug delivery. <i>Journal of Controlled Release</i> , 2015, 206, 49-57.	9.9	118
10	Arterial stiffness, cognitive impairment and dementia: confounding factor or real risk?. <i>Journal of Neurochemistry</i> , 2018, 144, 527-548.	3.9	74
11	The complex contribution of NOS interneurons in the physiology of cerebrovascular regulation. <i>Frontiers in Neural Circuits</i> , 2012, 6, 51.	2.8	70
12	Treatment by -acetylcysteine and melatonin increases cardiac baroreflex and improves antioxidant reserve. <i>American Journal of Hypertension</i> , 2004, 17, 947-954.	2.0	57
13	Chronic antioxidant treatment improves sympathetic functions and β^2 -adrenergic pathway in the spontaneously hypertensive rats. <i>Journal of Hypertension</i> , 2003, 21, 179-188.	0.5	56
14	N-acetylcysteine improves nitric oxide and β -adrenergic pathways in mesenteric beds of spontaneously hypertensive rats. <i>American Journal of Hypertension</i> , 2003, 16, 577-584.	2.0	54
15	iNOS-Derived NO and Nox2-Derived Superoxide Confer Tolerance to Excitotoxic Brain Injury through Peroxynitrite. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1453-1462.	4.3	42
16	Arterial stiffness and brain integrity: A review of MRI findings. <i>Ageing Research Reviews</i> , 2019, 53, 100907.	10.9	42
17	Arterial Stiffness Due to Carotid Calcification Disrupts Cerebral Blood Flow Regulation and Leads to Cognitive Deficits. <i>Journal of the American Heart Association</i> , 2019, 8, e011630.	3.7	38
18	Carotid Calcification in Mice: A New Model to Study the Effects of Arterial Stiffness on the Brain. <i>Journal of the American Heart Association</i> , 2013, 2, e000224.	3.7	31

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19	Treating Hypertension to Prevent Cognitive Decline and Dementia: Re-Opening the Debate. <i>Advances in Experimental Medicine and Biology</i> , 2016, 956, 447-473.	1.6	29
20	Differential effect of angiotensin II and blood pressure on hippocampal inflammation in mice. <i>Journal of Neuroinflammation</i> , 2018, 15, 62.	7.2	29
21	Angiotensin and Neurovascular Coupling: Beyond Hypertension. <i>Microcirculation</i> , 2015, 22, 159-167.	1.8	28
22	Astrocytic endfoot Ca^{2+} correlates with parenchymal vessel responses during 4-AP induced epilepsy: An in vivo two-photon lifetime microscopy study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 260-271.	4.3	25
23	Arterial stiffness induced by carotid calcification leads to cerebral gliosis mediated by oxidative stress. <i>Journal of Hypertension</i> , 2018, 36, 286-298.	0.5	22
24	Optical imaging of resting-state functional connectivity in a novel arterial stiffness model. <i>Biomedical Optics Express</i> , 2013, 4, 2332.	2.9	20
25	Inhibitory effect of melatonin on $\hat{1}\pm 1$ -adrenergic-induced vasoconstriction in mesenteric beds of spontaneously hypertensive rats. <i>American Journal of Hypertension</i> , 2004, 17, 339-346.	2.0	19
26	Acute and chronic effects of free radicals on $\hat{1}\pm 1$ -adrenergic-induced vasoconstriction in mesenteric beds of spontaneously hypertensive rats. <i>Journal of Hypertension</i> , 2005, 23, 807-814.	0.5	19
27	CD4 ⁺ Regulatory T Lymphocytes Prevent Impaired Cerebral Blood Flow in Angiotensin II-Induced Hypertension. <i>Journal of the American Heart Association</i> , 2019, 8, e009372.	3.7	19
28	Arterial stiffness and white matter integrity in the elderly: A diffusion tensor and magnetization transfer imaging study. <i>NeuroImage</i> , 2019, 186, 577-585.	4.2	19
29	Nitric Oxide and Cerebrovascular Regulation. <i>Vitamins and Hormones</i> , 2014, 96, 347-385.	1.7	16
30	Hyperthermia of magnetic nanoparticles allows passage of sodium fluorescein and Evans blue dye across the blood-retinal barrier. <i>International Journal of Hyperthermia</i> , 2016, 32, 657-665.	2.5	16
31	Cyclo-Oxygenase-2 Knockout Genotype in Mice Is Associated With Blunted Angiotensin II-Induced Oxidative Stress and Hypertension. <i>American Journal of Hypertension</i> , 2011, 24, 1239-1244.	2.0	13
32	Inflammation: A Mediator Between Hypertension and Neurodegenerative Diseases. <i>American Journal of Hypertension</i> , 2021, 34, 1014-1030.	2.0	13
33	Impaired Hippocampal Neurovascular Coupling in a Mouse Model of Alzheimer's Disease. <i>Frontiers in Physiology</i> , 2021, 12, 715446.	2.8	13
34	Arterial stiffness cut-off value and white matter integrity in the elderly. <i>NeuroImage: Clinical</i> , 2020, 26, 102007.	2.7	11
35	A Cross-Sectional Study on the Impact of Arterial Stiffness on the Corpus Callosum, a Key White Matter Tract Implicated in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2020, 77, 591-605.	2.6	11
36	The Lack of Bimodality in the Effects of Endogenous and Exogenous Prostaglandins on Fat Cell Lipolysis in Rats. <i>Prostaglandins and Other Lipid Mediators</i> , 1998, 56, 43-52.	1.9	10

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37	Angiotensin II Disrupts Neurovascular Coupling by Potentiating Calcium Increases in Astrocytic Endfeet. Journal of the American Heart Association, 2021, 10, e020608.	3.7	8
38	Fully automated dual-resolution serial optical coherence tomography aimed at diffusion MRI validation in whole mouse brains. Neurophotonics, 2018, 5, 1.	3.3	8
39	The many faces of vascular cognitive impairment. Journal of Neurochemistry, 2018, 144, 509-512.	3.9	7
40	Sex-moderated association between body composition and cognition in older adults. Experimental Gerontology, 2020, 138, 111002.	2.8	7
41	Diurnal blood pressure loads are associated with lower cognitive performances in controlled-hypertensive elderly individuals. Journal of Hypertension, 2019, 37, 2168-2179.	0.5	6
42	Relationship Between Arterial Stiffness Index, Pulse Pressure, and Magnetic Resonance Imaging Markers of White Matter Integrity: A UK Biobank Study. Frontiers in Aging Neuroscience, 0, 14, .	3.4	6
43	Cognitive Dysfunction and Dementia in Animal Models of Hypertension. , 2016, , 71-97.		5
44	Associations Between Relative Morning Blood Pressure, Cerebral Blood Flow, and Memory in Older Adults Treated and Controlled for Hypertension. Hypertension, 2021, 77, 1703-1713.	2.7	4
45	Cerebrospinal Fluid Biomarkers, Brain Structural and Cognitive Performances Between Normotensive and Hypertensive Controlled, Uncontrolled and Untreated 70-Year-Old Adults. Frontiers in Aging Neuroscience, 2021, 13, 777475.	3.4	4
46	Toward nonsystemic delivery of therapeutics across the bloodâ€‘brain barrier. Nanomedicine, 2015, 10, 2129-2131.	3.3	3
47	OS 18-01 CORRELATION BETWEEN COGNITIVE DECLINE AND BLOOD PRESSURE IN ELDERLY PATIENTS WITH CONTROLLED HYPERTENSION.. Journal of Hypertension, 2016, 34, e224.	0.5	1
48	Roles of BK and Kir channels in the coupling of neural activity to vasodilation in the somatosensory cortex in vivo. FASEB Journal, 2008, 22, 634-634.	0.5	1
49	Astrocytes produce nitric oxide in response to cholinergic or glutamatergic stimulation. FASEB Journal, 2013, 27, 1096.13.	0.5	1
50	Arterial stiffness and age moderate the association between physical activity and global cognition in older adults. Journal of Hypertension, 2022, 40, 245-253.	0.5	0