HÃ©lÃ¨ne Girouard

List of Publications by Year
in descending order

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	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
2	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
3	Inflammation: A Mediator Between Hypertension and Neurodegenerative Diseases. American Journal of Hypertension, 2021, 34, 1014-1030.	2.0	13
4	Impaired Hippocampal Neurovascular Coupling in a Mouse Model of Alzheimerâ€™s Disease. Frontiers in Physiology, 2021, 12, 715446.	2.8	13
5	Angiotensin II Disrupts Neurovascular Coupling by Potentiating Calcium Increases in Astrocytic Endfeet. Journal of the American Heart Association, 2021, 10, e020608.	3.7	8
6	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
7	Arterial stiffness cut-off value and white matter integrity in the elderly. NeuroImage: Clinical, 2020, 26, 102007.	2.7	11
8	A Cross-Sectional Study on the Impact of Arterial Stiffness on the Corpus Callosum, a Key White Matter Tract Implicated in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2020, 77, 591-605.	2.6	11
9	Sex-moderated association between body composition and cognition in older adults. Experimental Gerontology, 2020, 138, 111002.	2.8	7
10	Arterial stiffness and brain integrity: A review of MRI findings. Ageing Research Reviews, 2019, 53, 100907.	10.9	42
11	Arterial Stiffness Due to Carotid Calcification Disrupts Cerebral Blood Flow Regulation and Leads to Cognitive Deficits. Journal of the American Heart Association, 2019, 8, e011630.	3.7	38
12	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
13	CD4 ⁺ Regulatory T Lymphocytes Prevent Impaired Cerebral Blood Flow in Angiotensin Iiâ€Induced Hypertension. Journal of the American Heart Association, 2019, 8, e009372.	3.7	19
14	Arterial stiffness and white matter integrity in the elderly: A diffusion tensor and magnetization transfer imaging study. NeuroImage, 2019, 186, 577-585.	4.2	19
15	Astrocytic endfoot Ca²⁺ correlates with parenchymal vessel responses during 4-AP induced epilepsy: An inÂvivo two-photon lifetime microscopy study. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 260-271.	4.3	25
16	The many faces of vascular cognitive impairment. Journal of Neurochemistry, 2018, 144, 509-512.	3.9	7
17	Arterial stiffness, cognitive impairment and dementia: confounding factor or real risk?. Journal of Neurochemistry, 2018, 144, 527-548.	3.9	74
18	Arterial stiffness induced by carotid calcification leads to cerebral gliosis mediated by oxidative stress. Journal of Hypertension, 2018, 36, 286-298.	0.5	22

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19	Sex differences in Alzheimer disease â€" the gateway to precision medicine. Nature Reviews Neurology, 2018, 14, 457-469.	10.1	573
20	Differential effect of angiotensin II and blood pressure on hippocampal inflammation in mice. Journal of Neuroinflammation, 2018, 15, 62.	7.2	29
21	Fully automated dual-resolution serial optical coherence tomography aimed at diffusion MRI validation in whole mouse brains. Neurophotonics, 2018, 5, 1.	3.3	8
22	Hyperthermia of magnetic nanoparticles allows passage of sodium fluorescein and Evans blue dye across the bloodâ€"retinal barrier. International Journal of Hyperthermia, 2016, 32, 657-665.	2.5	16
23	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
24	Treating Hypertension to Prevent Cognitive Decline and Dementia: Re-Opening the Debate. Advances in Experimental Medicine and Biology, 2016, 956, 447-473.	1.6	29
25	Cognitive Dysfunction and Dementia in Animal Models of Hypertension. , 2016, , 71-97.		5
26	Angiotensin and Neurovascular Coupling: Beyond Hypertension. Microcirculation, 2015, 22, 159-167.	1.8	28
27	Remote control of the permeability of the bloodâ€"brain barrier by magnetic heating of nanoparticles: A proof of concept for brain drug delivery. Journal of Controlled Release, 2015, 206, 49-57.	9.9	118
28	Toward nonsystemic delivery of therapeutics across the bloodâ€"brain barrier. Nanomedicine, 2015, 10, 2129-2131.	3.3	3
29	Nitric Oxide and Cerebrovascular Regulation. Vitamins and Hormones, 2014, 96, 347-385.	1.7	16
30	Optical imaging of resting-state functional connectivity in a novel arterial stiffness model. Biomedical Optics Express, 2013, 4, 2332.	2.9	20
31	Carotid Calcification in Mice: A New Model to Study the Effects of Arterial Stiffness on the Brain. Journal of the American Heart Association, 2013, 2, e000224.	3.7	31
32	Astrocytes produce nitric oxide in response to cholinergic or glutamatergic stimulation. FASEB Journal, 2013, 27, 1096.13.	0.5	1
33	The complex contribution of NOS interneurons in the physiology of cerebrovascular regulation. Frontiers in Neural Circuits, 2012, 6, 51.	2.8	70
34	Cyclo-Oxygenase-2 Knockout Genotype in Mice Is Associated With Blunted Angiotensin II-Induced Oxidative Stress and Hypertension. American Journal of Hypertension, 2011, 24, 1239-1244.	2.0	13
35	Astrocytic endfoot Ca ²⁺ and BK channels determine both arteriolar dilation and constriction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3811-3816.	7.1	265
36	NMDA Receptor Activation Increases Free Radical Production through Nitric Oxide and NOX2. Journal of Neuroscience, 2009, 29, 2545-2552.	3.6	224

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37	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
38	Cerebrovascular Nitrosative Stress Mediates Neurovascular and Endothelial Dysfunction Induced by Angiotensin II. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 303-309.	2.4	136
39	iNOS-Derived NO and Nox2-Derived Superoxide Confer Tolerance to Excitotoxic Brain Injury through Peroxynitrite. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1453-1462.	4.3	42
40	Nox2-Derived Reactive Oxygen Species Mediate Neurovascular Dysregulation in the Aging Mouse Brain. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1908-1918.	4.3	245
41	Neurovascular coupling in the normal brain and in hypertension, stroke, and Alzheimer disease. Journal of Applied Physiology, 2006, 100, 328-335.	2.5	1,086
42	Angiotensin II Attenuates Endothelium-Dependent Responses in the Cerebral Microcirculation Through Nox-2â€“Derived Radicals. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 826-832.	2.4	141
43	Acute and chronic effects of free radicals on Î±1-adrenergic-induced vasoconstriction in mesenteric beds of spontaneously hypertensive rats. Journal of Hypertension, 2005, 23, 807-814.	0.5	19
44	Angiotensin II Impairs Neurovascular Coupling in Neocortex Through NADPH Oxidaseâ€“Derived Radicals. Circulation Research, 2004, 95, 1019-1026.	4.5	233
45	Inhibitory effect of melatonin on Î±1-adrenergicâ€“induced vasoconstriction in mesenteric beds of spontaneously hypertensive rats. American Journal of Hypertension, 2004, 17, 339-346.	2.0	19
46	Treatment by -acetylcysteine and melatonin increases cardiac baroreflex and improves antioxidant reserve. American Journal of Hypertension, 2004, 17, 947-954.	2.0	57
47	N-acetylcysteine improves nitric oxide and Î±-adrenergic pathways in mesenteric beds of spontaneously hypertensive rats. American Journal of Hypertension, 2003, 16, 577-584.	2.0	54
48	Chronic antioxidant treatment improves sympathetic functions and Î²-adrenergic pathway in the spontaneously hypertensive rats. Journal of Hypertension, 2003, 21, 179-188.	0.5	56
49	The Lack of Bimodality in the Effects of Endogenous and Exogenous Prostaglandins on Fat Cell Lipolysis in Rats. Prostaglandins and Other Lipid Mediators, 1998, 56, 43-52.	1.9	10
50	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