

Peter Toth

List of Publications by Year in descending order

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56
papers

3,114
citations

201385

27
h-index

233125

45
g-index

56
all docs

56
docs citations

56
times ranked

3329
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional vascular contributions to cognitive impairment and dementia: mechanisms and consequences of cerebral autoregulatory dysfunction, endothelial impairment, and neurovascular uncoupling in aging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H1-H20.	1.5	345
2	Obesity in Aging Exacerbates Blood-Brain Barrier Disruption, Neuroinflammation, and Oxidative Stress in the Mouse Hippocampus: Effects on Expression of Genes Involved in Beta-Amyloid Generation and Alzheimer's Disease. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1212-1226.	1.7	250
3	Hypertension-induced cognitive impairment: from pathophysiology to public health. <i>Nature Reviews Nephrology</i> , 2021, 17, 639-654.	4.1	192
4	Age-Related Autoregulatory Dysfunction and Cerebromicrovascular Injury in Mice with Angiotensin II-induced Hypertension. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1732-1742.	2.4	183
5	Nicotinamide mononucleotide (NMN) supplementation rescues cerebromicrovascular endothelial function and neurovascular coupling responses and improves cognitive function in aged mice. <i>Redox Biology</i> , 2019, 24, 101192.	3.9	181
6	Resveratrol treatment rescues neurovascular coupling in aged mice: role of improved cerebromicrovascular endothelial function and downregulation of NADPH oxidase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H299-H308.	1.5	158
7	Aging Exacerbates Obesity-induced Cerebromicrovascular Rarefaction, Neurovascular Uncoupling, and Cognitive Decline in Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1339-1352.	1.7	146
8	Caloric restriction confers persistent anti-oxidative, pro-angiogenic, and anti-inflammatory effects and promotes anti-aging miRNA expression profile in cerebromicrovascular endothelial cells of aged rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H292-H306.	1.5	128
9	IGF1 deficiency impairs neurovascular coupling in mice: implications for cerebromicrovascular aging. <i>Aging Cell</i> , 2015, 14, 1034-1044.	3.0	121
10	Aging exacerbates hypertension-induced cerebral microhemorrhages in mice: role of resveratrol treatment in vasoprotection. <i>Aging Cell</i> , 2015, 14, 400-408.	3.0	116
11	Pharmacologically-Induced Neurovascular Uncoupling is Associated with Cognitive Impairment in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1871-1881.	2.4	105
12	Insulin-like growth factor-1 in CNS and cerebrovascular aging. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 27.	1.7	98
13	IGF-1 Deficiency Impairs Cerebral Myogenic Autoregulation in Hypertensive Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1887-1897.	2.4	90
14	Role of 20-HETE, TRPC channels, and BK_{Ca} in dysregulation of pressure-induced Ca^{2+} signaling and myogenic constriction of cerebral arteries in aged hypertensive mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1698-H1708.	1.5	83
15	Purinergic glio-endothelial coupling during neuronal activity: role of P2Y_1 receptors and eNOS in functional hyperemia in the mouse somatosensory cortex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1837-H1845.	1.5	74
16	Isolated Human and Rat Cerebral Arteries Constrict to Increases in Flow: Role of 20-HETE and TP Receptors. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 2096-2105.	2.4	71
17	Circulating IGF-1 deficiency exacerbates hypertension-induced microvascular rarefaction in the mouse hippocampus and retrosplenial cortex: implications for cerebromicrovascular and brain aging. <i>Age</i> , 2016, 38, 273-289.	3.0	70
18	Demonstration of impaired neurovascular coupling responses in TG2576 mouse model of Alzheimer's disease using functional laser speckle contrast imaging. <i>GeroScience</i> , 2017, 39, 465-473.	2.1	70

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19	Growth Hormone and IGF-1 Deficiency Exacerbate High-Fat Diet-Induced Endothelial Impairment in Obese Lewis Dwarf Rats: Implications for Vascular Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 553-564.	1.7	59
20	Aging Exacerbates Pressure-Induced Mitochondrial Oxidative Stress in Mouse Cerebral Arteries: Figure 1.. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1355-1359.	1.7	59
21	Role of age-related alterations of the cerebral venous circulation in the pathogenesis of vascular cognitive impairment. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1124-H1140.	1.5	56
22	Aging Impairs Myogenic Adaptation to Pulsatile Pressure in Mouse Cerebral Arteries. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 527-530.	2.4	54
23	Cerebral venous congestion promotes blood-brain barrier disruption and neuroinflammation, impairing cognitive function in mice. <i>GeroScience</i> , 2019, 41, 575-589.	2.1	47
24	Traumatic Brain Injury Impairs Myogenic Constriction of Cerebral Arteries: Role of Mitochondria-Derived H ₂ O ₂ and TRPV4-Dependent Activation of BK _{Ca} Channels. <i>Journal of Neurotrauma</i> , 2018, 35, 930-939.	1.7	42
25	Treatment with the BCL-2/BCL-xL inhibitor senolytic drug ABT263/Navitoclax improves functional hyperemia in aged mice. <i>GeroScience</i> , 2021, 43, 2427-2440.	2.1	40
26	IGF-1 Deficiency Promotes Pathological Remodeling of Cerebral Arteries: A Potential Mechanism Contributing to the Pathogenesis of Intracerebral Hemorrhages in Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 446-454.	1.7	37
27	Age-Related Decline of Autocrine Pituitary Adenylate Cyclase-Activating Polypeptide Impairs Angiogenic Capacity of Rat Cerebromicrovascular Endothelial Cells. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 665-674.	1.7	36
28	Increases in hypertension-induced cerebral microhemorrhages exacerbate gait dysfunction in a mouse model of Alzheimer's disease. <i>GeroScience</i> , 2020, 42, 1685-1698.	2.1	33
29	Single Mild Traumatic Brain Injury Induces Persistent Disruption of the Blood-Brain Barrier, Neuroinflammation and Cognitive Decline in Hypertensive Rats. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3223.	1.8	21
30	Endothelin-1-Induced Focal Cerebral Ischemia in the Growth Hormone/IGF-1 Deficient Lewis Dwarf Rat. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1353-1362.	1.7	18
31	Repeated Valsalva maneuvers promote symptomatic manifestations of cerebral microhemorrhages: implications for the pathogenesis of vascular cognitive impairment in older adults. <i>GeroScience</i> , 2018, 40, 485-496.	2.1	18
32	Traumatic brain injury-induced cerebral microbleeds in the elderly. <i>GeroScience</i> , 2021, 43, 125-136.	2.1	17
33	Hypertension Exacerbates Cerebrovascular Oxidative Stress Induced by Mild Traumatic Brain Injury: Protective Effects of the Mitochondria-Targeted Antioxidative Peptide SS-31. <i>Journal of Neurotrauma</i> , 2019, 36, 3309-3315.	1.7	15
34	Prostaglandin E2, a postulated mediator of neurovascular coupling, at low concentrations dilates whereas at higher concentrations constricts human cerebral parenchymal arterioles. <i>Prostaglandins and Other Lipid Mediators</i> , 2020, 146, 106389.	1.0	12
35	Effect of Growth Hormone on Neuropsychological Outcomes and Quality of Life of Patients with Traumatic Brain Injury: A Systematic Review. <i>Journal of Neurotrauma</i> , 2021, 38, 1467-1483.	1.7	11
36	Microalbuminuria, Indicated by Total versus Immunoreactive Urinary Albumins, in Acute Ischemic Stroke Patients. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2011, 20, 510-516.	0.7	10

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37	Cerebral venous congestion exacerbates cerebral microhemorrhages in mice. <i>GeroScience</i> , 2022, 44, 805-816.	2.1	10
38	Hypertension-Induced Enhanced Myogenic Constriction of Cerebral Arteries Is Preserved after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 2315-2319.	1.7	9
39	Direct myosin-2 inhibition enhances cerebral perfusion resulting in functional improvement after ischemic stroke. <i>Theranostics</i> , 2020, 10, 5341-5356.	4.6	9
40	Small Fiber Neuropathy: Clinicopathological Correlations. <i>Behavioural Neurology</i> , 2020, 2020, 1-7.	1.1	7
41	Molecular Pathomechanisms of Impaired Flow-Induced Constriction of Cerebral Arteries Following Traumatic Brain Injury: A Potential Impact on Cerebral Autoregulation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6624.	1.8	5
42	The role of transient receptor potential channels in cerebral myogenic autoregulation in hypertension and aging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H159-H161.	1.5	4
43	IGF1 deficiency promotes pathological remodeling of cerebral arteries: a potential mechanism contributing to the pathogenesis of intracerebral hemorrhages in aging. <i>FASEB Journal</i> , 2018, 32, 711.8.	0.2	2
44	Assessment of endothelial function in leptomeningeal arterioles derived from patients with Alzheimer's disease and vascular cognitive impairment. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H790-H793.	1.5	1
45	The Effect of Mild Traumatic Brain Injury on Cerebral Microbleeds in Aging. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 717391.	1.7	1
46	Errors and Consequences of Inaccurate Estimation of Mean Blood Flow Velocity in Cerebral Arteries. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 23-25.	0.5	0
47	Usability of Noninvasive Counterparts of Traditional Autoregulation Indices in Traumatic Brain Injury. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 163-166.	0.5	0
48	Correlation between acute stroke and microalbuminuria. Potential role of underlying systemic microvascular endothelial disease. <i>FASEB Journal</i> , 2009, 23, 613.9.	0.2	0
49	Flow/shear stress-induced constriction of rat middle cerebral artery. <i>FASEB Journal</i> , 2010, 24, 976.1.	0.2	0
50	Role of endothelial surface layer in mediation of flow-induced dilation of isolated arterioles. <i>FASEB Journal</i> , 2010, 24, 975.15.	0.2	0
51	Aging-induced changes in angiotensin II-induced contractions and tachyphylaxis of isolated carotid arteries. <i>FASEB Journal</i> , 2010, 24, 775.1.	0.2	0
52	Liver-specific knockdown of IGF1 decreases vascular oxidative stress resistance by impairing the Nrf2-dependent antioxidant response. <i>FASEB Journal</i> , 2011, 25, 1093.6.	0.2	0
53	Aging exacerbates microvascular endothelial damage induced by inflammatory factors present in the circulation during sepsis. <i>FASEB Journal</i> , 2012, 26, 1058.11.	0.2	0
54	In isolated vessels H2S is a less effective scavenger of exogenous superoxide than SOD. <i>FASEB Journal</i> , 2013, 27, 900.2.	0.2	0

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55	Resveratrol Treatment Rescues Neurovascular Coupling in Aged Mice: Role of Improved Cerebromicrovascular Endothelial Function and Downâ€Regulation of NADPH Oxidase. FASEB Journal, 2015, 29, 787.6.	0.2	0
56	Cerebral venous congestion promotes bloodâ€brain barrier disruption and neuroinflammation, impairing cognitive function in mice.. FASEB Journal, 2020, 34, 1-1.	0.2	0