Costantino Iadecola

List of Publications by Year
in descending order

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412 papers	58,890 citations	1171 111 h-index	1136 230 g-index
423 all docs	423 docs citations	423 times ranked	50374 citing authors

#	Article	IF	Citations
1	Pathobiology of ischaemic stroke: an integrated view. Trends in Neurosciences, 1999, 22, 391-397.	4.2	3,484
2	Vascular Contributions to Cognitive Impairment and Dementia. Stroke, 2011, 42, 2672-2713.	1.0	2,989
3	The immunology of stroke: from mechanisms to translation. Nature Medicine, 2011, 17, 796-808.	15.2	2,006
4	Neurovascular regulation in the normal brain and in Alzheimer's disease. Nature Reviews Neuroscience, 2004, 5, 347-360.	4.9	1,926
5	The Science of Stroke: Mechanisms in Search of Treatments. Neuron, 2010, 67, 181-198.	3.8	1,628
6	Guidelines for the Primary Prevention of Stroke. Stroke, 2014, 45, 3754-3832.	1.0	1,621
7	The Neurovascular Unit Coming of Age: A Journey through Neurovascular Coupling in Health and Disease. Neuron, 2017, 96, 17-42.	3.8	1,471
8	National Institute of Neurological Disorders and Strokeâ€“Canadian Stroke Network Vascular Cognitive Impairment Harmonization Standards. Stroke, 2006, 37, 2220-2241.	1.0	1,445
9	The Pathobiology of Vascular Dementia. Neuron, 2013, 80, 844-866.	3.8	1,322
10	Neurovascular coupling in the normal brain and in hypertension, stroke, and Alzheimer disease. Journal of Applied Physiology, 2006, 100, 328-335.	1.2	1,086
11	Glial regulation of the cerebral microvasculature. Nature Neuroscience, 2007, 10, 1369-1376.	7.1	1,003
12	Bright and dark sides of nitric oxide in ischemic brain injury. Trends in Neurosciences, 1997, 20, 132-139.	4.2	971
13	The neural basis of functional brain imaging signals. Trends in Neurosciences, 2002, 25, 621-625.	4.2	793
14	Commensal microbiota affects ischemic stroke outcome by regulating intestinal Î³Î´ T cells. Nature Medicine, 2016, 22, 516-523.	15.2	770
15	Cyclo-Oxygenase-2 Gene Expression in Neurons Contributes to Ischemic Brain Damage. Journal of Neuroscience, 1997, 17, 2746-2755.	1.7	697
16	Nitric Oxide Synthase Inhibition and Cerebrovascular Regulation. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 175-192.	2.4	650
17	Delayed Reduction of Ischemic Brain Injury and Neurological Deficits in Mice Lacking the Inducible Nitric Oxide Synthase Gene. Journal of Neuroscience, 1997, 17, 9157-9164.	1.7	644
18	Inflammation and Stroke: An Overview. Neurotherapeutics, 2016, 13, 661-670.	2.1	631

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19	Effects of COVID-19 on the Nervous System. Cell, 2020, 183, 16-27.e1.	13.5	526
20	Age-related CNS disorder and early death in transgenic FVB/N mice overexpressing Alzheimer amyloid precursor proteins. Neuron, 1995, 15, 1203-1218.	3.8	520
21	Engaging neuroscience to advance translational research in brain barrier biology. Nature Reviews Neuroscience, 2011, 12, 169-182.	4.9	508
22	Risk of Ischemic Stroke in Patients With Coronavirus Disease 2019 (COVID-19) vs Patients With Influenza. JAMA Neurology, 2020, 77, 1366.	4.5	506
23	Impact of Hypertension on Cognitive Function: A Scientific Statement From the American Heart Association. Hypertension, 2016, 68, e67-e94.	1.3	482
24	Atrial Fibrillation and Mechanisms of Stroke. Stroke, 2016, 47, 895-900.	1.0	466
25	Risk of Arterial Thromboembolism in PatientsÂWithÂCancer. Journal of the American College of Cardiology, 2017, 70, 926-938.	1.2	465
26	The overlap between neurodegenerative and vascular factors in the pathogenesis of dementia. Acta Neuropathologica, 2010, 120, 287-296.	3.9	462
27	Inducible Nitric Oxide Synthase Gene Expression in Brain following Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1995, 15, 378-384.	2.4	461
28	Vascular dysfunctionâ€”The disregarded partner of Alzheimer's disease. Alzheimer's and Dementia, 2019, 15, 158-167.	0.4	454
29	Regulation of the cerebral microcirculation during neural activity: is nitric oxide the missing link?. Trends in Neurosciences, 1993, 16, 206-214.	4.2	431
30	Hypertension and Cerebrovascular Dysfunction. Cell Metabolism, 2008, 7, 476-484.	7.2	425
31	Reduced susceptibility to ischemic brain injury and N-methyl-D-aspartate-mediated neurotoxicity in cyclooxygenase-2-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1294-1299.	3.3	413
32	Exaggerated inflammation, impaired host defense, and neuropathology in progranulin-deficient mice. Journal of Experimental Medicine, 2010, 207, 117-128.	4.2	411
33	Cerebral ischemia and inflammation. Current Opinion in Neurology, 2001, 14, 89-94.	1.8	395
34	Vascular Cognitive Impairment andÂDementia. Journal of the American College of Cardiology, 2019, 73, 3326-3344.	1.2	384
35	SOD1 rescues cerebral endothelial dysfunction in mice overexpressing amyloid precursor protein. Nature Neuroscience, 1999, 2, 157-161.	7.1	371
36	Prostaglandin E2 EP1 receptors: downstream effectors of COX-2 neurotoxicity. Nature Medicine, 2006, 12, 225-229.	15.2	359

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37	Immune responses to stroke: mechanisms, modulation, and therapeutic potential. Journal of Clinical Investigation, 2020, 130, 2777-2788.	3.9	344
38	Stroke research at a crossroad: asking the brain for directions. Nature Neuroscience, 2011, 14, 1363-1368.	7.1	338
39	NF-Î¹B Regulates Phagocytic NADPH Oxidase by Inducing the Expression of gp91. Journal of Biological Chemistry, 2006, 281, 5657-5667.	1.6	333
40	Neutrophil adhesion in brain capillaries reduces cortical blood flow and impairs memory function in Alzheimerâ€™s disease mouse models. Nature Neuroscience, 2019, 22, 413-420.	7.1	316
41	Inducible Nitric Oxide Synthase Gene Expression in Vascular Cells After Transient Focal Cerebral Ischemia. Stroke, 1996, 27, 1373-1380.	1.0	302
42	Nox2-derived radicals contribute to neurovascular and behavioral dysfunction in mice overexpressing the amyloid precursor protein. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1347-1352.	3.3	290
43	Hypertension. Hypertension, 2013, 62, 810-817.	1.3	287
44	Neurovascular and Cognitive Dysfunction in Hypertension. Circulation Research, 2019, 124, 1025-1044.	2.0	284
45	Defining Optimal Brain Health in Adults: A Presidential Advisory From the American Heart Association/American Stroke Association. Stroke, 2017, 48, e284-e303.	1.0	279
46	Perioperative Atrial Fibrillation and the Long-term Risk of Ischemic Stroke. JAMA - Journal of the American Medical Association, 2014, 312, 616.	3.8	266
47	Cerebrovascular autoregulation is profoundly impaired in mice overexpressing amyloid precursor protein. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H315-H323.	1.5	249
48	Relative changes of cerebral arterial and venous blood volumes during increased cerebral blood flow: Implications for BOLD fMRI. Magnetic Resonance in Medicine, 2001, 45, 791-800.	1.9	248
49	Cyclooxygenase-2 Contributes to Functional Hyperemia in Whisker-Barrel Cortex. Journal of Neuroscience, 2000, 20, 763-770.	1.7	247
50	Nox2-Derived Reactive Oxygen Species Mediate Neurovascular Dysregulation in the Aging Mouse Brain. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1908-1918.	2.4	245
51	Dietary salt promotes neurovascular and cognitive dysfunction through a gut-initiated TH17 response. Nature Neuroscience, 2018, 21, 240-249.	7.1	242
52	Revisiting the neurovascular unit. Nature Neuroscience, 2021, 24, 1198-1209.	7.1	242
53	Perivascular macrophages mediate the neurovascular and cognitive dysfunction associated with hypertension. Journal of Clinical Investigation, 2016, 126, 4674-4689.	3.9	235
54	Angiotensin II Impairs Neurovascular Coupling in Neocortex Through NADPH Oxidaseâ€“Derived Radicals. Circulation Research, 2004, 95, 1019-1026.	2.0	233

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55	Local and Propagated Vascular Responses Evoked by Focal Synaptic Activity in Cerebellar Cortex. Journal of Neurophysiology, 1997, 78, 651-659.	0.9	230
56	Simultaneous Blood Oxygenation Level-Dependent and Cerebral Blood Flow Functional Magnetic Resonance Imaging during Forepaw Stimulation in the Rat. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 871-879.	2.4	230
57	NMDA Receptor Activation Increases Free Radical Production through Nitric Oxide and NOX2. Journal of Neuroscience, 2009, 29, 2545-2552.	1.7	224
58	NADPH Oxidase-Derived Reactive Oxygen Species Mediate the Cerebrovascular Dysfunction Induced by the Amyloid Â Peptide. Journal of Neuroscience, 2005, 25, 1769-1777.	1.7	221
59	Marked Induction of Calcium-Independent Nitric Oxide Synthase Activity after Focal Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1995, 15, 52-59.	2.4	219
60	Nitric Oxide Donors Increase Blood Flow and Reduce Brain Damage in Focal Ischemia: Evidence That Nitric Oxide is Beneficial in the Early Stages of Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 217-226.	2.4	206
61	The role of microglia and myeloid immune cells in acute cerebral ischemia. Frontiers in Cellular Neuroscience, 2014, 8, 461.	1.8	203
62	Preventing dementia by preventing stroke: The Berlin Manifesto. Alzheimer's and Dementia, 2019, 15, 961-984.	0.4	200
63	Alzheimerâ€™s Disease and Vascular Aging. Journal of the American College of Cardiology, 2020, 75, 942-951.	1.2	197
64	Nitric oxide synthase-containing neural processes on large cerebral arteries and cerebral microvessels. Brain Research, 1993, 606, 148-155.	1.1	196
65	Alterations in Cerebral Blood Flow and Glucose Utilization in Mice Overexpressing the Amyloid Precursor Protein. Neurobiology of Disease, 2002, 9, 61-68.	2.1	192
66	MyD88-5 links mitochondria, microtubules, and JNK3 in neurons and regulates neuronal survival. Journal of Experimental Medicine, 2007, 204, 2063-2074.	4.2	192
67	Cyclooxygenase-1 Participates in Selected Vasodilator Responses of the Cerebral Circulation. Circulation Research, 2001, 88, 600-608.	2.0	191
68	Converging Pathogenic Mechanisms in Vascular and Neurodegenerative Dementia. Stroke, 2003, 34, 335-337.	1.0	190
69	The Class B Scavenger Receptor CD36 Mediates Free Radical Production and Tissue Injury in Cerebral Ischemia. Journal of Neuroscience, 2005, 25, 2504-2512.	1.7	186
70	Threats to the Mind. Stroke, 2009, 40, S40-4.	1.0	186
71	Increased Susceptibility to Ischemic Brain Damage in Transgenic Mice Overexpressing the Amyloid Precursor Protein. Journal of Neuroscience, 1997, 17, 7655-7661.	1.7	185
72	AÎ²-peptides enhance vasoconstriction in cerebral circulation. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2417-H2424.	1.5	185

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73	Association between incident cancer and subsequent stroke. Annals of Neurology, 2015, 77, 291-300.	2.8	180
74	Exogenous AÎ²1â€“40 Reproduces Cerebrovascular Alterations Resulting from Amyloid Precursor Protein Overexpression in Mice. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1659-1668.	2.4	179
75	Animal Models of Hypertension: A Scientific Statement From the American Heart Association. Hypertension, 2019, 73, e87-e120.	1.3	177
76	Consensus statement for diagnosis of subcortical small vessel disease. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 6-25.	2.4	173
77	Inducible nitric oxide synthase expression in human cerebral infarcts. Acta Neuropathologica, 1999, 97, 215-220.	3.9	172
78	Brain-Immune Interactions and Ischemic Stroke. Archives of Neurology, 2012, 69, 576.	4.9	172
79	Ischemic stroke in cancer patients: A review of an underappreciated pathology. Annals of Neurology, 2018, 83, 873-883.	2.8	171
80	Metabolic and Non-Cognitive Manifestations of Alzheimerâ€™s Disease: The Hypothalamus as Both Culprit and Target of Pathology. Cell Metabolism, 2015, 22, 761-776.	7.2	170
81	Size-selective opening of the bloodâ€“brain barrier by targeting endothelial sphingosine 1â€“phosphate receptor 1. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4531-4536.	3.3	167
82	Restarting Anticoagulant Therapy After Intracranial Hemorrhage. Stroke, 2017, 48, 1594-1600.	1.0	167
83	Aminoguanidine Ameliorates and l -Arginine Worsens Brain Damage From Intraluminal Middle Cerebral Artery Occlusion. Stroke, 1996, 27, 317-323.	1.0	167
84	NADPH Oxidase Contributes to Angiotensin II Signaling in the Nucleus Tractus Solitarius. Journal of Neuroscience, 2004, 24, 5516-5524.	1.7	161
85	Brain Perivascular Macrophages Initiate the Neurovascular Dysfunction of Alzheimer AÎ² Peptides. Circulation Research, 2017, 121, 258-269.	2.0	159
86	Early Temporal Characteristics of Cerebral Blood Flow and Deoxyhemoglobin Changes during Somatosensory Stimulation. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 201-206.	2.4	157
87	Cyclooxygenase-2 immunoreactivity in the human brain following cerebral ischemia. Acta Neuropathologica, 1999, 98, 9-14.	3.9	156
88	The role of neuronal signaling in controlling cerebral blood flow. Brain and Language, 2007, 102, 141-152.	0.8	155
89	Recurrent thromboembolic events after ischemic stroke in patients with cancer. Neurology, 2014, 83, 26-33.	1.5	144
90	Brain perivascular macrophages: characterization and functional roles in health and disease. Journal of Molecular Medicine, 2017, 95, 1143-1152.	1.7	143

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91	Angiotensin II Attenuates Endothelium-Dependent Responses in the Cerebral Microcirculation Through Nox-2â€“Derived Radicals. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 826-832.	1.1	141
92	Dietary salt promotes cognitive impairment through tau phosphorylation. Nature, 2019, 574, 686-690.	13.7	140
93	Electrical stimulation of cerebellar fastigial nucleus increases cerebral cortical blood flow without change in local metabolism: Evidence for an intrinsic system in brain for primary vasodilation. Brain Research, 1983, 260, 35-49.	1.1	137
94	Neurovascular Protection by Ischemic Tolerance: Role of Nitric Oxide and Reactive Oxygen Species. Journal of Neuroscience, 2007, 27, 7083-7093.	1.7	137
95	Prostanoids, not reactive oxygen species, mediate COX-2-dependent neurotoxicity. Annals of Neurology, 2004, 55, 668-675.	2.8	136
96	Cerebrovascular Nitrosative Stress Mediates Neurovascular and Endothelial Dysfunction Induced by Angiotensin II. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 303-309.	1.1	136
97	ER stress in the brain subfornical organ mediates angiotensin-dependent hypertension. Journal of Clinical Investigation, 2012, 122, 3960-3964.	3.9	133
98	Amyloid Î²-Induced Impairments in Hippocampal Synaptic Plasticity Are Rescued by Decreasing Mitochondrial Superoxide. Journal of Neuroscience, 2011, 31, 5589-5595.	1.7	132
99	Hypertension enhances AÎ²-induced neurovascular dysfunction, promotes Î²-secretase activity, and leads to amyloidogenic processing of APP. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 241-252.	2.4	131
100	Hypertension and Dementia. Hypertension, 2014, 64, 3-5.	1.3	130
101	Scavenger receptor CD36 is essential for the cerebrovascular oxidative stress and neurovascular dysfunction induced by amyloid-Î². Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5063-5068.	3.3	128
102	AÎ²-Induced Vascular Oxidative Stress and Attenuation of Functional Hyperemia in Mouse Somatosensory Cortex. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 334-342.	2.4	127
103	Arterial thromboembolic events preceding the diagnosis of cancer in older persons. Blood, 2019, 133, 781-789.	0.6	127
104	The Cyclooxygenase-2 Inhibitor NS-398 Ameliorates Ischemic Brain Injury in Wild-Type Mice but not in Mice with Deletion of the Inducible Nitric Oxide Synthase Gene. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1213-1219.	2.4	126
105	Brain dendritic cells in ischemic stroke: Time course, activation state, and origin. Brain, Behavior, and Immunity, 2010, 24, 724-737.	2.0	124
106	Cyclooxygenase-2 Inhibitor NS-398 Protects Neuronal Cultures From Lipopolysaccharide-Induced Neurotoxicity. Stroke, 2001, 32, 2370-2375.	1.0	123
107	Stroke: Working Toward a Prioritized World Agenda. Stroke, 2010, 41, 1084-1099.	1.0	122
108	Inducible Nitric Oxide Synthase Contributes to Gender Differences in Ischemic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 392-401.	2.4	121

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109	Impaired AÃŽÂ² clearance: a potential link between atherosclerosis and AlzheimerÃ¢â‚¬â„¢s disease. Frontiers in Aging Neuroscience, 2015, 7, 115.	1.7	119
110	Key Role of CD36 in Toll-Like Receptor 2 Signaling in Cerebral Ischemia. Stroke, 2010, 41, 898-904.	1.0	117
111	Prolonged inhibition of brain nitric oxide synthase by short-term systemic administration of nitro-l-arginine methyl ester. Neurochemical Research, 1994, 19, 501-505.	1.6	112
112	Inducible Nitric Oxide Synthase in Neutrophils and Endothelium Contributes to Ischemic Brain Injury in Mice. Journal of Immunology, 2014, 193, 2531-2537.	0.4	112
113	Local cerebral blood flow increases during auditory and emotional processing in the conscious rat. Science, 1983, 221, 576-578.	6.0	110
114	Cerebral Ischemia Enhances Polyamine Oxidation: Identification of Enzymatically Formed 3-Aminopropanal as an Endogenous Mediator of Neuronal and Glial Cell Death. Journal of Experimental Medicine, 1998, 188, 327-340.	4.2	110
115	Translational Stroke Research. Stroke, 2017, 48, 2632-2637.	1.0	108
116	Innate immunity receptor CD36 promotes cerebral amyloid angiopathy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3089-3094.	3.3	107
117	Quantitative measurements of cerebral blood flow in rats using the FAIR technique: Correlation with previous lodoantipyrine autoradiographic studies. Magnetic Resonance in Medicine, 1998, 39, 564-573.	1.9	106
118	Limitations of Collateral Flow after Occlusion of a Single Cortical Penetrating Arteriole. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1914-1927.	2.4	106
119	The cerebrovascular dysfunction induced by slow pressor doses of angiotensin II precedes the development of hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H397-H407.	1.5	106
120	Herbal alkaloid tetrandrine: from an ion channel blocker to inhibitor of tumor proliferation. Trends in Pharmacological Sciences, 2004, 25, 120-123.	4.0	105
121	Obligatory Role of Inducible Nitric Oxide Synthase in Ischemic Preconditioning. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 493-501.	2.4	105
122	Age-Dependent Neurovascular Dysfunction and Damage in a Mouse Model of Cerebral Amyloid Angiopathy. Stroke, 2014, 45, 1815-1821.	1.0	104
123	Nuclear Factor-ÎºB Activation and Postischemic Inflammation Are Suppressed in CD36-Null Mice after Middle Cerebral Artery Occlusion. Journal of Neuroscience, 2008, 28, 1649-1658.	1.7	103
124	Reduction of Focal Cerebral Ischemic Damage by Delayed Treatment with Nitric Oxide Donors. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 574-580.	2.4	102
125	Delayed effect of administration of COX-2 inhibitor in mice with acute cerebral ischemia. Brain Research, 2003, 960, 273-276.	1.1	101
126	Nox2, Ca 2+ , and Protein Kinase C Play a Role in Angiotensin II-Induced Free Radical Production in Nucleus Tractus Solitarius. Hypertension, 2006, 48, 482-489.	1.3	100

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127	Paroxysmal Supraventricular Tachycardia and the Risk of Ischemic Stroke. Stroke, 2013, 44, 1550-1554.	1.0	100
128	ApoÎµ4 disrupts neurovascular regulation and undermines white matter integrity and cognitive function. Nature Communications, 2018, 9, 3816.	5.8	100
129	Molecular Pathology of Cerebral Ischemia: Delayed Gene Expression and Strategies for Neuroprotection. Annals of the New York Academy of Sciences, 1997, 835, 203-217.	1.8	99
130	Gene-dosing effect and persistence of reduction in ischemic brain injury in mice lacking inducible nitric oxide synthase. Brain Research, 2000, 872, 215-218.	1.1	97
131	The Transcription Factor Interferon Regulatory Factor 1 Is Expressed after Cerebral Ischemia and Contributes to Ischemic Brain Injury. Journal of Experimental Medicine, 1999, 189, 719-727.	4.2	96
132	Localization of NADPH diaphorase in neurons of the rostral ventral medulla: possible role of nitric oxide in central autonomic regulation and oxygen chemoreception. Brain Research, 1993, 603, 173-179.	1.1	95
133	Delayed Treatment with Aminoguanidine Decreases Focal Cerebral Ischemic Damage and Enhances Neurologic Recovery in Rats. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 1107-1113.	2.4	95
134	A Concerted Appeal for International Cooperation in Preclinical Stroke Research. Stroke, 2013, 44, 1754-1760.	1.0	94
135	Endothelium-Macrophage Crosstalk Mediates Blood-Brain Barrier Dysfunction in Hypertension. Hypertension, 2020, 76, 795-807.	1.3	91
136	Angiotensin II attenuates functional hyperemia in the mouse somatosensory cortex. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H1890-H1899.	1.5	89
137	Stroke: Working toward a Prioritized World Agenda. International Journal of Stroke, 2010, 5, 238-256.	2.9	89
138	Central Cardiovascular Circuits Contribute to the Neurovascular Dysfunction in Angiotensin II Hypertension. Journal of Neuroscience, 2012, 32, 4878-4886.	1.7	89
139	Structural connectome disruption at baseline predicts 6-months post-stroke outcome. Human Brain Mapping, 2016, 37, 2587-2601.	1.9	89
140	Cerebrovascular effects of amyloid-beta peptides: mechanisms and implications for Alzheimer's dementia. Cellular and Molecular Neurobiology, 2003, 23, 681-689.	1.7	87
141	cis-Acting Element-specific Transcriptional Activity of Differentially Phosphorylated Nuclear Factor-Î²B. Journal of Biological Chemistry, 2005, 280, 244-252.	1.6	87
142	Increased Susceptibility to Ischemic Brain Injury in Cyclooxygenase-1â€“Deficient Mice. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 1436-1441.	2.4	86
143	Key role of tissue plasminogen activator in neurovascular coupling. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1073-1078.	3.3	86
144	Neuronal Nitric Oxide Contributes to Neuroplasticity-Associated Protein Expression through cGMP, Protein Kinase G, and Extracellular Signal-Regulated Kinase. Journal of Neuroscience, 2011, 31, 6947-6955.	1.7	85

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145	Occlusion of Cortical Ascending Venules Causes Blood Flow Decreases, Reversals in Flow Direction, and Vessel Dilation in Upstream Capillaries. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 2243-2254.	2.4	85
146	Progranulin Deficiency Promotes Post-Ischemic Bloodâ€“Brain Barrier Disruption. Journal of Neuroscience, 2013, 33, 19579-19589.	1.7	85
147	Hypertension, Angiotensin, and Stroke: Beyond Blood Pressure. Stroke, 2004, 35, 348-350.	1.0	84
148	Tailoring the Approach to Embolic Stroke of Undetermined Source. JAMA Neurology, 2019, 76, 855.	4.5	84
149	Nitric oxide and adenosine mediate vasodilation during functional activation in cerebellar cortex. Neuropharmacology, 1994, 33, 1453-1461.	2.0	83
150	Cyclooxygenase-2 Does Not Contribute to Postischemic Production of Reactive Oxygen Species. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 545-551.	2.4	83
151	Spatio-temporal profile, phenotypic diversity, and fate of recruited monocytes into the post-ischemic brain. Journal of Neuroinflammation, 2016, 13, 285.	3.1	83
152	MiR-592 Regulates the Induction and Cell Death-Promoting Activity of p75^{NTR}in Neuronal Ischemic Injury. Journal of Neuroscience, 2014, 34, 3419-3428.	1.7	82
153	Prohibitin Reduces Mitochondrial Free Radical Production and Protects Brain Cells from Different Injury Modalities. Journal of Neuroscience, 2012, 32, 583-592.	1.7	81
154	Th17 and Cognitive Impairment: Possible Mechanisms of Action. Frontiers in Neuroanatomy, 2019, 13, 95.	0.9	81
155	Cryptogenic Subtype Predicts Reduced Survival Among Cancer Patients With Ischemic Stroke. Stroke, 2014, 45, 2292-2297.	1.0	80
156	Cerebrovascular Alterations in Alzheimer Disease. Circulation Research, 2018, 123, 406-408.	2.0	80
157	Transgenic Mice Overexpressing Amyloid Precursor Protein Exhibit Early Metabolic Deficits and a Pathologically Low Leptin State Associated with Hypothalamic Dysfunction in Arcuate Neuropeptide Y Neurons. Journal of Neuroscience, 2014, 34, 9096-9106.	1.7	79
158	Magnetic Resonance Angiography Detection of Abnormal Carotid Artery Plaque in Patients With Cryptogenic Stroke. Journal of the American Heart Association, 2015, 4, e002012.	1.6	79
159	Role of nitric oxide and acetylcholine in neocortical hyperemia elicited by basal forebrain stimulation: Evidence for an involvement of endothelial nitric oxide. Neuroscience, 1995, 69, 1195-1204.	1.1	78
160	Gadolinium Enhancement in Intracranial Atherosclerotic Plaque and Ischemic Stroke: A Systematic Review and Metaâ€Analysis. Journal of the American Heart Association, 2016, 5, .	1.6	78
161	Tau induces PSD95â€“neuronal NOS uncoupling and neurovascular dysfunction independent of neurodegeneration. Nature Neuroscience, 2020, 23, 1079-1089.	7.1	78
162	Time Dependence of Effect of Nitric Oxide Synthase Inhibition on Cerebral Ischemic Damage. Journal of Cerebral Blood Flow and Metabolism, 1995, 15, 595-601.	2.4	77

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163	Association Between Major Perioperative Hemorrhage and Stroke or Q-Wave Myocardial Infarction. Circulation, 2012, 126, 207-212.	1.6	76
164	Neurovascular Regulation in the Ischemic Brain. Antioxidants and Redox Signaling, 2015, 22, 149-160.	2.5	76
165	Global increase in cerebral metabolism and blood flow produced by focal electrical stimulation of dorsal medullary reticular formation in rat. Brain Research, 1983, 272, 101-114.	1.1	75
166	Continuous Monitoring of Cerebrocortical Blood Flow during Stimulation of the Cerebellar Fastigial Nucleus: A Study by Laser-Doppler Flowmetry. Journal of Cerebral Blood Flow and Metabolism, 1990, 10, 608-617.	2.4	74
167	Synaptic and Vascular Associations of Neurons Containing Cyclooxygenase-2 and Nitric Oxide Synthase in Rat Somatosensory Cortex. Cerebral Cortex, 2005, 15, 1250-1260.	1.6	74
168	Neurogenic control of the cerebral microcirculation: is dopamine minding the store?. Nature Neuroscience, 1998, 1, 263-265.	7.1	73
169	Neuronal and endothelial sites of acetylcholine synthesis and release associated with microvessels in rat cerebral cortex: ultrastructural and neurochemical studies. Brain Research, 1988, 454, 11-30.	1.1	72
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