

Dmitriy N Atochin

List of Publications by Year in descending order

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56
papers

3,260
citations

185998

28
h-index

149479

56
g-index

57
all docs

57
docs citations

57
times ranked

5587
citing authors

#	ARTICLE	IF	CITATIONS
1	Through-skull fluorescence imaging of the brain in a new near-infrared window. <i>Nature Photonics</i> , 2014, 8, 723-730.	15.6	829
2	Tissue Plasminogen Activator Promotes Matrix Metalloproteinase-9 Upregulation After Focal Cerebral Ischemia. <i>Stroke</i> , 2005, 36, 1954-1959.	1.0	215
3	The phosphorylation state of eNOS modulates vascular reactivity and outcome of cerebral ischemia in vivo. <i>Journal of Clinical Investigation</i> , 2007, 117, 1961-1967.	3.9	143
4	Effects of Neuroglobin Overexpression on Acute Brain Injury and Long-Term Outcomes After Focal Cerebral Ischemia. <i>Stroke</i> , 2008, 39, 1869-1874.	1.0	131
5	Endothelial nitric oxide synthase transgenic models of endothelial dysfunction. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 965-974.	1.3	112
6	Rapid Cerebral Ischemic Preconditioning in Mice Deficient in Endothelial and Neuronal Nitric Oxide Synthases. <i>Stroke</i> , 2003, 34, 1299-1303.	1.0	108
7	Contributions of Endothelial and Neuronal Nitric Oxide Synthases to Cerebrovascular Responses to Hyperoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 1219-1226.	2.4	88
8	c-Jun N-Terminal Kinases (JNKs) in Myocardial and Cerebral Ischemia/Reperfusion Injury. <i>Frontiers in Pharmacology</i> , 2018, 9, 715.	1.6	87
9	The Akt1-eNOS Axis Illustrates the Specificity of Kinase-Substrate Relationships in Vivo. <i>Science Signaling</i> , 2009, 2, ra41.	1.6	84
10	Nitric oxide and mitochondria in metabolic syndrome. <i>Frontiers in Physiology</i> , 2015, 6, 20.	1.3	84
11	Cerebrovascular Thromboprophylaxis in Mice by Erythrocyte-Coupled Tissue-Type Plasminogen Activator. <i>Circulation</i> , 2008, 118, 1442-1449.	1.6	77
12	Cell-Based Drug Delivery and Use of Nano- and Microcarriers for Cell Functionalization. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700818.	3.9	75
13	A Novel Hydrogen Sulfide-releasing N-Methyl-D-Aspartate Receptor Antagonist Prevents Ischemic Neuronal Death. <i>Journal of Biological Chemistry</i> , 2012, 287, 32124-32135.	1.6	73
14	Sulfide catabolism ameliorates hypoxic brain injury. <i>Nature Communications</i> , 2021, 12, 3108.	5.8	71
15	Optical coherence tomography for the quantitative study of cerebrovascular physiology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1339-1345.	2.4	70
16	Oxygen seizure latency and peroxynitrite formation in mice lacking neuronal or endothelial nitric oxide synthases. <i>Neuroscience Letters</i> , 2003, 344, 53-56.	1.0	59
17	Mouse Model of Microembolic Stroke and Reperfusion. <i>Stroke</i> , 2004, 35, 2177-2182.	1.0	59
18	Deficient eNOS Phosphorylation Is a Mechanism for Diabetic Vascular Dysfunction Contributing to Increased Stroke Size. <i>Stroke</i> , 2013, 44, 3183-3188.	1.0	53

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19	Synthesis, biological evaluation, and molecular modeling of 11H-indeno[1,2-b]quinoxalin-11-one derivatives and tryptanthrin-6-oxime as c-Jun N-terminal kinase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019, 161, 179-191.	2.6	51
20	Anti-Inflammatory Effect of Targeted Delivery of SOD to Endothelium: Mechanism, Synergism with NO Donors and Protective Effects In Vitro and In Vivo. <i>PLoS ONE</i> , 2013, 8, e77002.	1.1	50
21	Hyperlipidemia Disrupts Cerebrovascular Reflexes and Worsens Ischemic Perfusion Defect. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 954-962.	2.4	49
22	A novel dual NO-donating oxime and c-Jun N-terminal kinase inhibitor protects against cerebral ischemiaâ€“reperfusion injury in mice. <i>Neuroscience Letters</i> , 2016, 618, 45-49.	1.0	43
23	C-Reactive Protein Causes Insulin Resistance in Mice Through FcÎ³ Receptor IIBâ€“Mediated Inhibition of Skeletal Muscle Glucose Delivery. <i>Diabetes</i> , 2013, 62, 721-731.	0.3	41
24	Role of Endothelial Nitric Oxide in Cerebrovascular Regulation. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1334-1342.	0.9	39
25	Quantitative assessment of demyelination in ischemic stroke in vivo using macromolecular proton fraction mapping. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 919-931.	2.4	37
26	Protective Effects of a New C-Jun N-terminal Kinase Inhibitor in the Model of Global Cerebral Ischemia in Rats. <i>Molecules</i> , 2019, 24, 1722.	1.7	35
27	eNOS phosphorylation on serine 1176 affects insulin sensitivity and adiposity. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 284-290.	1.0	34
28	Delayed Paraplegia After Spinal Cord Ischemic Injury Requires Caspase-3 Activation in Mice. <i>Stroke</i> , 2011, 42, 2302-2307.	1.0	31
29	Targeting thrombomodulin to circulating red blood cells augments its protective effects in models of endotoxemia and ischemiaâ€“reperfusion injury. <i>FASEB Journal</i> , 2017, 31, 761-770.	0.2	27
30	Reduction of hippocampal cell death and proteolytic responses in tissue plasminogen activator knockout mice after transient global cerebral ischemia. <i>Neuroscience</i> , 2007, 150, 50-57.	1.1	25
31	Soluble Guanylate Cyclase Î±1 Limits Stroke Size and Attenuates Neurological Injury. <i>Stroke</i> , 2010, 41, 1815-1819.	1.0	24
32	Alarmins and c-Jun N-Terminal Kinase (JNK) Signaling in Neuroinflammation. <i>Cells</i> , 2020, 9, 2350.	1.8	24
33	Contributions of nitric oxide synthase isoforms to pulmonary oxygen toxicity, local vs. mediated effects. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L984-L990.	1.3	23
34	Neuroprotective effects of p-tyrosol after the global cerebral ischemia in rats. <i>Phytomedicine</i> , 2016, 23, 784-792.	2.3	23
35	Neuroprotective Effects of a Novel Inhibitor of c-Jun N-Terminal Kinase in the Rat Model of Transient Focal Cerebral Ischemia. <i>Cells</i> , 2020, 9, 1860.	1.8	23
36	Endothelial Dysfunction Abrogates the Efficacy of Normobaric Hyperoxia in Stroke. <i>Journal of Neuroscience</i> , 2014, 34, 15200-15207.	1.7	21

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37	Endothelial Fc γ 3 Receptor IIB Activation Blunts Insulin Delivery to Skeletal Muscle to Cause Insulin Resistance in Mice. <i>Diabetes</i> , 2016, 65, 1996-2005.	0.3	20
38	Role of adiponectin and proinflammatory gene expression in adipose tissue chronic inflammation in women with metabolic syndrome. <i>Diabetology and Metabolic Syndrome</i> , 2014, 6, 137.	1.2	19
39	Cerebral Blood Volume Affects Blood-Brain Barrier Integrity in an Acute Transient Stroke Model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 898-905.	2.4	18
40	Aging related impairment of brain microvascular bioenergetics involves oxidative phosphorylation and glycolytic pathways. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1410-1424.	2.4	18
41	Somatostatin+/nNOS+ neurons are involved in delta electroencephalogram activity and cortical-dependent recognition memory. <i>Sleep</i> , 2019, 42, .	0.6	17
42	Simultaneous Tissue PO ₂ , Nitric Oxide, and Laser Doppler Blood Flow Measurements during Neuronal Activation of Optic Nerve. <i>Advances in Experimental Medicine and Biology</i> , 1998, 454, 159-164.	0.8	17
43	Haplotype analysis of endothelial nitric oxide synthase (NOS3) genetic variants and metabolic syndrome in healthy subjects and schizophrenia patients. <i>International Journal of Obesity</i> , 2018, 42, 2036-2046.	1.6	15
44	An improved three-vessel occlusion model of global cerebral ischemia in rats. <i>Brain Research Bulletin</i> , 2017, 132, 213-221.	1.4	14
45	Connexins and Nitric Oxide Inside and Outside Mitochondria: Significance for Cardiac Protection and Adaptation. <i>Frontiers in Physiology</i> , 2018, 9, 479.	1.3	12
46	Role of neuronal nitric oxide in the regulation of vasopressin expression and release in response to inhibition of catecholamine synthesis and dehydration. <i>Neuroscience Letters</i> , 2007, 426, 160-165.	1.0	11
47	Antihypertensive activity of a new c-Jun N-terminal kinase inhibitor in spontaneously hypertensive rats. <i>Hypertension Research</i> , 2020, 43, 1068-1078.	1.5	10
48	Inhibitory effect of IQ-1S, a selective c-Jun N-terminal kinase (JNK) inhibitor, on phenotypical and cytokine-producing characteristics in human macrophages and T-cells. <i>European Journal of Pharmacology</i> , 2020, 878, 173116.	1.7	10
49	Nitric oxide synthase 3 deficiency limits adverse ventricular remodeling after pressure overload in insulin resistance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H2093-H2101.	1.5	9
50	Modified middle cerebral artery occlusion model provides detailed intraoperative cerebral blood flow registration and improves neurobehavioral evaluation. <i>Journal of Neuroscience Methods</i> , 2021, 358, 109179.	1.3	9
51	Brief exposure of skin to near-infrared laser augments early vaccine responses. <i>Nanophotonics</i> , 2021, 10, 3187-3197.	2.9	9
52	Oral nitrite restores age-dependent phenotypes in eNOS-null mice. <i>JCI Insight</i> , 2018, 3, .	2.3	9
53	cGMP-dependent protein kinase I in vascular smooth muscle cells improves ischemic stroke outcome in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2379-2391.	2.4	8
54	Molecular Mechanisms for Regulation of Neutrophil Apoptosis under Normal and Pathological Conditions. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2021, 57, 429-450.	0.2	7

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55	Phosphomimetic Modulation of eNOS Improves Myocardial Reperfusion and Mimics Cardiac Postconditioning in Mice. PLoS ONE, 2014, 9, e85946.	1.1	6
56	The Adaptation Role of Serine/Threonine Kinase Akt1 in Anabolism of Muscular Tissue. Biology Bulletin Reviews, 2018, 8, 489-496.	0.3	0