## Nabil J Alkayed

List of Publications by Year in descending order

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57758 60623 7,057 124 44 81 citations h-index g-index papers 129 129 129 6258 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Gender-Linked Brain Injury in Experimental Stroke. Stroke, 1998, 29, 159-166.	2.0	697
2	Neuroprotective Effects of Female Gonadal Steroids in Reproductively Senescent Female Rats. Stroke, 2000, 31, 161-168.	2.0	327
3	17β-Estradiol Reduces Stroke Injury in Estrogen-Deficient Female Animals. Stroke, 1999, 30, 1665-1670.	2.0	288
4	Functional Hyperemia in the Brain. Stroke, 1998, 29, 229-234.	2.0	200
5	Postischemic Estrogen Reduces Hypoperfusion and Secondary Ischemia After Experimental Stroke. Stroke, 2001, 32, 796-802.	2.0	190
6	Estrogen and Bcl-2: Gene Induction and Effect of Transgene in Experimental Stroke. Journal of Neuroscience, 2001, 21, 7543-7550.	3.6	179
7	Soluble Epoxide Hydrolase: A Novel Therapeutic Target in Stroke. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1931-1940.	4.3	179
8	Molecular Characterization of an Arachidonic Acid Epoxygenase in Rat Brain Astrocytes. Stroke, 1996, 27, 971-979.	2.0	176
9	Soluble Epoxide Hydrolase Gene Deletion Is Protective Against Experimental Cerebral Ischemia. Stroke, 2008, 39, 2073-2078.	2.0	158
10	Estrogen Receptor Antagonist ICI182,780 Exacerbates Ischemic Injury in Female Mouse. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 112-118.	4.3	151
11	Experimental Stroke in the Female Diabetic, <i>db/db</i> , Mouse. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 52-60.	4.3	141
12	Stroke in Estrogen Receptor-α–Deficient Mice. Stroke, 2000, 31, 738-744.	2.0	139
13	Role of Signal Transducer and Activator of Transcription 3 in Neuronal Survival and Regeneration. Reviews in the Neurosciences, 2008, 19, 341-61.	2.9	135
14	Role of P450 Aromatase in Sex-Specific Astrocytic Cell Death. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 135-141.	4.3	128
15	Endothelial expression of human cytochrome P450 epoxygenases lowers blood pressure and attenuates hypertensionâ€induced renal injury in mice. FASEB Journal, 2010, 24, 3770-3781.	0.5	126
16	Role of P-450 Arachidonic Acid Epoxygenase in the Response of Cerebral Blood Flow to Glutamate in Rats. Stroke, 1997, 28, 1066-1072.	2.0	121
17	Polymorphisms in the Human Soluble Epoxide Hydrolase Gene EPHX2 Linked to Neuronal Survival after Ischemic Injury. Journal of Neuroscience, 2007, 27, 4642-4649.	3.6	118
18	Epoxyeicosanoid signaling in CNS function and disease. Prostaglandins and Other Lipid Mediators, 2010, 91, 68-84.	1.9	116

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19	CaMKKÎ <sup>2</sup> -Dependent Activation of AMP-Activated Protein Kinase Is Critical to Suppressive Effects of Hydrogen Sulfide on Neuroinflammation. Antioxidants and Redox Signaling, 2014, 21, 1741-1758.	5.4	116
20	Suppression of cortical functional hyperemia to vibrissal stimulation in the rat by epoxygenase inhibitors. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2029-H2037.	3.2	114
21	Neuroprotection and P450 2C11 Upregulation After Experimental Transient Ischemic Attack. Stroke, 2002, 33, 1677-1684.	2.0	107
22	Role of cocaine- and amphetamine-regulated transcript in estradiol-mediated neuroprotection. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14489-14494.	7.1	106
23	Role of Signal Transducer and Activator of Transcription-3 in Estradiol-Mediated Neuroprotection. Journal of Neuroscience, 2007, 27, 7268-7274.	3.6	104
24	Hypertonic Saline Worsens Infarct Volume After Transient Focal Ischemia in Rats. Stroke, 2000, 31, 1694-1701.	2.0	99
25	Hydrogen sulfide protects blood–brain barrier integrity following cerebral ischemia. Journal of Neurochemistry, 2014, 129, 827-838.	3.9	99
26	Hypoxic Preconditioning and Tolerance via Hypoxia Inducible Factor (HIF) 1α-linked Induction of P450 2C11 Epoxygenase in Astrocytes. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 939-948.	4.3	93
27	Deleterious Effects of Dihydrotestosterone on Cerebral Ischemic Injury. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1553-1562.	4.3	91
28	Dependency of Cortical Functional Hyperemia to Forepaw Stimulation on Epoxygenase and Nitric Oxide Synthase Activities in Rats. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 509-517.	4.3	78
29	Hydrogen sulfide protects against myocardial ischemia and reperfusion injury by activating AMP-activated protein kinase toÂrestore autophagic flux. Biochemical and Biophysical Research Communications, 2015, 458, 632-638.	2.1	78
30	Mechanisms of gender-linked ischemic brain injury. Restorative Neurology and Neuroscience, 2009, 27, 163-179.	0.7	73
31	Sigma Receptor Agonists Provide Neuroprotection In Vitro by Preserving bcl-2. Anesthesia and Analgesia, 2007, 104, 1179-1184.	2.2	71
32	Role of Soluble Epoxide Hydrolase in the Sex-Specific Vascular Response to Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1475-1481.	4.3	70
33	High fat diet-induced diabetes in mice exacerbates cognitive deficit due to chronic hypoperfusion. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1257-1270.	4.3	69
34	Intrastriatal B-cell administration limits infarct size after stroke in B-cell deficient mice. Metabolic Brain Disease, 2012, 27, 487-493.	2.9	65
35	Soluble epoxide hydrolase: regulation by estrogen and role in the inflammatory response to cerebral ischemia. Frontiers in Bioscience - Landmark, 2008, 13, 2833.	3.0	62
36	Mitochondrial mechanism of neuroprotection by CART. European Journal of Neuroscience, 2007, 26, 624-632.	2.6	60

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37	Soluble epoxide hydrolase gene deletion reduces survival after cardiac arrest and cardiopulmonary resuscitation. Resuscitation, 2008, 76, 89-94.	3.0	60
38	Differential mechanisms underlying neuroprotection of hydrogen sulfide donors against oxidative stress. Neurochemistry International, 2013, 62, 1072-1078.	3.8	60
39	Amelioration of Metabolic Syndrome-Associated Cognitive Impairments in Mice via a Reduction in Dietary Fat Content or Infusion of Non-Diabetic Plasma. EBioMedicine, 2016, 3, 26-42.	6.1	59
40	Intracisternal Administration of Tissue Plasminogen Activator Improves Cerebrospinal Fluid Flow and Cortical Perfusion After Subarachnoid Hemorrhage in Mice. Translational Stroke Research, 2014, 5, 227-237.	4.2	53
41	Role of soluble epoxide hydrolase in age-related vascular cognitive decline. Prostaglandins and Other Lipid Mediators, 2014, 113-115, 30-37.	1.9	52
42	Anesthetic Choice of Halothane Versus Propofol. Stroke, 2001, 32, 1920-1925.	2.0	49
43	Soluble Epoxide Hydrolase. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1936-1942.	2.4	49
44	A novel role for P450 eicosanoids in the neurogenic control of cerebral blood flow in the rat. Experimental Physiology, 2007, 92, 653-658.	2.0	46
45	Soluble Epoxide Hydrolase in Hydrocephalus, Cerebral Edema, and Vascular Inflammation After Subarachnoid Hemorrhage. Stroke, 2015, 46, 1916-1922.	2.0	45
46	High-dose ibuprofen for reduction of striatal infarcts during middle cerebral artery occlusion in rats. Journal of Neurosurgery, 2003, 98, 860-866.	1.6	44
47	Neurobehavioral and Imaging Correlates of Hippocampal Atrophy in a Mouse Model of Vascular Cognitive Impairment. Translational Stroke Research, 2015, 6, 390-398.	4.2	44
48	Predictive value of neutrophil-to-lymphocyte ratio in diabetic wound healing. Journal of Vascular Surgery, 2017, 65, 478-483.	1.1	43
49	Role of Soluble Epoxide Hydrolase in Exacerbation of Stroke by Streptozotocin-Induced Type 1 Diabetes Mellitus. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1650-1656.	4.3	41
50	Cytochrome P450 eicosanoids in cerebrovascular function and disease., 2017, 179, 31-46.		40
51	A novel mouse model of thromboembolic stroke. Journal of Neuroscience Methods, 2015, 256, 203-211.	2.5	39
52	Mechanism of the Sex Difference in Endothelial Dysfunction after Stroke. Translational Stroke Research, 2013, 4, 381-389.	4.2	38
53	Epoxyeicosatrienoic acids enhance axonal growth in primary sensory and cortical neuronal cell cultures. Journal of Neurochemistry, 2011, 117, no-no.	3.9	37
54	Electromagnetic Interference with Protocolized Electrosurgery Dispersive Electrode Positioning in Patients with Implantable Cardioverter Defibrillators. Anesthesiology, 2019, 130, 530-540.	2.5	37

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55	Apolipoprotein E4 mediates insulin resistance-associated cerebrovascular dysfunction and the post-prandial response. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 770-781.	4.3	37
56	In vivo optical imaging of revascularization after brain trauma in mice. Microvascular Research, 2011, 81, 73-80.	2.5	35
57	Inhibition of soluble epoxide hydrolase preserves cardiomyocytes: role of STAT3 signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H679-H687.	3.2	33
58	Mechanisms of ischemic brain damage. Current Cardiology Reports, 2003, 5, 160-167.	2.9	31
59	Protective Role of P450 Epoxyeicosanoids in Subarachnoid Hemorrhage. Neurocritical Care, 2015, 22, 306-319.	2.4	31
60	Functional screening for G protein-coupled receptor targets of 14,15-epoxyeicosatrienoic acid. Prostaglandins and Other Lipid Mediators, 2017, 132, 31-40.	1.9	31
61	Role of Endothelial Soluble Epoxide Hydrolase in Cerebrovascular Function and Ischemic Injury. PLoS ONE, 2013, 8, e61244.	2.5	31
62	Soluble epoxide hydrolase gene deletion improves blood flow and reduces infarct size after cerebral ischemia in reproductively senescent female mice. Frontiers in Pharmacology, 2015, 5, 290.	3.5	30
63	Sex differences in brain proteomes of neuronâ€specific STAT3â€null mice after cerebral ischemia/reperfusion. Journal of Neurochemistry, 2012, 121, 680-692.	3.9	29
64	Preclinical Evaluation of Recombinant T Cell Receptor Ligand RTL1000 as a Therapeutic Agent in Ischemic Stroke. Translational Stroke Research, 2015, 6, 60-68.	4.2	28
65	Lack of Sex-Linked Differences in Cerebral Edema and Aquaporin-4 Expression after Experimental Stroke. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1898-1906.	4.3	27
66	Soluble Epoxide Hydrolase Dimerization Is Required for Hydrolase Activity. Journal of Biological Chemistry, 2013, 288, 7697-7703.	3.4	27
67	Epoxyeicosatrienoic acids are endogenous regulators of vasoactive neuropeptide release from trigeminal ganglion neurons. Journal of Neurochemistry, 2010, 115, 1530-1542.	3.9	26
68	Mechanism of Protection by Soluble Epoxide Hydrolase Inhibition in Type 2 Diabetic Stroke. PLoS ONE, 2014, 9, e97529.	2.5	26
69	Recombinant T Cell Receptor Ligand Treatment Improves Neurological Outcome in the Presence of Tissue Plasminogen Activator in Experimental Ischemic Stroke. Translational Stroke Research, 2014, 5, 612-617.	4.2	26
70	Automated segmentation and enhancement of optical coherence tomography-acquired images of rodent brain. Journal of Neuroscience Methods, 2016, 270, 132-137.	2.5	26
71	High-Density Lipoprotein Carries Markers That Track With Recovery From Stroke. Circulation Research, 2020, 127, 1274-1287.	4.5	26
72	Coronary Autoregulation Is Abnormal in Syndrome X: Insights Using Myocardial Contrast Echocardiography. Journal of the American Society of Echocardiography, 2013, 26, 290-296.	2.8	25

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73	A novel HLA-DRα1-MOG-35-55 construct treats experimental stroke. Metabolic Brain Disease, 2014, 29, 37-45.	2.9	25
74	Temporal Changes in Skeletal Muscle Capillary Responses and Endothelial-Derived Vasodilators in Obesity-Related Insulin Resistance. Diabetes, 2016, 65, 2249-2257.	0.6	25
75	Genetic variation in soluble epoxide hydrolase: association with outcome after aneurysmal subarachnoid hemorrhage. Journal of Neurosurgery, 2014, 121, 1359-1366.	1.6	24
76	Cocaine- and Amphetamine-Regulated Transcript (CART) Peptide: A Vasoactive Role in the Cerebral Circulation. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 1376-1385.	4.3	23
77	Developmental Exposure to Polychlorinated Biphenyls Influences Stroke Outcome in Adult Rats. Environmental Health Perspectives, 2008, 116, 474-480.	6.0	23
78	Estradiol Alters Only GAD67 mRNA Levels in Ischemic Rat Brain with No Consequent Effects on GABA. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 518-526.	4.3	21
79	Involvement of stat3 in mouse brain development and sexual dimorphism: A proteomics approach. Brain Research, 2010, 1362, 1-12.	2.2	21
80	Control of coronary vascular resistance by eicosanoids via a novel GPCR. American Journal of Physiology - Cell Physiology, 2022, 322, C1011-C1021.	4.6	21
81	18F-FNDP for PET Imaging of Soluble Epoxide Hydrolase. Journal of Nuclear Medicine, 2016, 57, 1817-1822.	5.0	19
82	P450 Eicosanoids and Reactive Oxygen Species Interplay in Brain Injury and Neuroprotection. Antioxidants and Redox Signaling, 2018, 28, 987-1007.	5.4	19
83	Role of endothelium-pericyte signaling in capillary blood flow response to neuronal activity. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 1873-1885.	4.3	19
84	Endothelium-Derived Hyperpolarizing Factor in the Brain: Influence of Sex, Vessel Size and Disease State. Women's Health, 2011, 7, 293-303.	1.5	18
85	Different immunological mechanisms govern protection from experimental stroke in young and older mice with recombinant TCR ligand therapy. Frontiers in Cellular Neuroscience, 2014, 8, 284.	3.7	18
86	Peroxisomal Biogenesis in Ischemic Brain. Antioxidants and Redox Signaling, 2015, 22, 109-120.	5.4	18
87	Pericyte constriction underlies capillary derecruitment during hyperemia in the setting of arterial stenosis. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H255-H263.	3.2	18
88	Partial MHC Constructs Treat Thromboembolic Ischemic Stroke Characterized by Early Immune Expansion. Translational Stroke Research, 2016, 7, 70-78.	4.2	17
89	Partial MHC class II constructs as novel immunomodulatory therapy for stroke. Neurochemistry International, 2017, 107, 138-147.	3.8	17
90	A Double-Blind, Randomized, Placebo-Controlled Trial of Soluble Epoxide Hydrolase Inhibition in Patients with Aneurysmal Subarachnoid Hemorrhage. Neurocritical Care, 2022, 36, 905-915.	2.4	17

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91	Estrogen-Mediated Renoprotection following Cardiac Arrest and Cardiopulmonary Resuscitation Is Robust to GPR30 Gene Deletion. PLoS ONE, 2014, 9, e99910.	2.5	15
92	Hyperglycemia abolishes the protective effect of ischemic preconditioning in glomerular endothelial cells in Avitro. Physiological Reports, 2015, 3, e12346.	1.7	15
93	In Vivo Cerebrovascular Effects of Cocaine- and Amphetamine-Regulated Transcript (CART) Peptide. Journal of Cardiovascular Pharmacology, 2008, 52, 82-89.	1.9	14
94	Cyclic Adenosine Monophosphate Response Element-Binding Protein Phosphorylation and Neuroprotection by 4-Phenyl-1-(4-Phenylbutyl) Piperidine (PPBP). Anesthesia and Analgesia, 2009, 108, 964-970.	2.2	13
95	Ranolazine may exert its beneficial effects by increasing myocardial adenosine levels. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H189-H202.	3.2	13
96	Role of GPR39 in Neurovascular Homeostasis and Disease. International Journal of Molecular Sciences, 2021, 22, 8200.	4.1	13
97	Ultrasound stimulates formation and release of vasoactive compounds in brain endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H583-H591.	3.2	12
98	Sex- and isoform-specific mechanism of neuroprotection by transgenic expression of P450 epoxygenase in vascular endothelium. Experimental Neurology, 2016, 279, 75-85.	4.1	12
99	Soluble Epoxide Hydrolase Blockade after Stroke Onset Protects Normal but Not Diabetic Mice. International Journal of Molecular Sciences, 2021, 22, 5419.	4.1	11
100	Disrupting Dimerization Translocates Soluble Epoxide Hydrolase to Peroxisomes. PLoS ONE, 2016, 11, e0152742.	2.5	11
101	GPR39 localization in the aging human brain and correlation of expression and polymorphism with vascular cognitive impairment. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12214.	3.7	10
102	Therapeutic Ultrasound Increases Myocardial Blood Flow in Ischemic Myocardium and Cardiac Endothelial Cells: Results of InÂVivo and InÂVitro Experiments. Journal of the American Society of Echocardiography, 2019, 32, 1151-1160.	2.8	9
103	Sex differences in the therapeutic effects of anti-PDL2 neutralizing antibody on stroke. Metabolic Brain Disease, 2019, 34, 1705-1712.	2.9	8
104	Plasma Oxylipins: A Potential Risk Assessment Tool in Atherosclerotic Coronary Artery Disease. Frontiers in Cardiovascular Medicine, 2021, 8, 645786.	2.4	8
105	Gene-Specific DNA Methylation Linked to Postoperative Cognitive Dysfunction in Apolipoprotein E3 and E4 Mice. Journal of Alzheimer's Disease, 2021, 83, 1251-1268.	2.6	8
106	Peroxisomal Translocation of Soluble Epoxide Hydrolase Protects against Ischemic Stroke Injury. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1416-1420.	4.3	7
107	Effect of thermostable mutations on the neurotensin receptor 1 (NTSR <sub>1</sub> ) activation state. Journal of Biomolecular Structure and Dynamics, 2020, 38, 340-353.	3.5	5
108	Age-dependent transcriptional alterations in cardiac endothelial cells. Physiological Genomics, 2021, 53, 295-308.	2.3	4

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109	Age-dependent cognitive impairment, hydrocephalus and leukocyte infiltration in transgenic mice with endothelial expression of human EPHX2., 2022, 8,.		4
110	Synthesis of 14,15-EET from Arachidonic Acid Using Urea–Hydrogen Peroxide as the Oxidant. Synthetic Communications, 2015, 45, 105-110.	2.1	3
111	Phosphoproteomic response of cardiac endothelial cells to ischemia and ultrasound. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140683.	2.3	3
112	Role of Endothelial Cells and Platelets in COVID-Related Cerebrovascular Events. Stroke, 2022, 53, 2389-2392.	2.0	2
113	Vapor Pressures of Anesthetic Agents at Temperatures Below 0°C and a Novel Anesthetic Delivery Device. Anesthesia and Analgesia, 2017, 124, 473-479.	2.2	1
114	Mapping the Molecular Architecture Required for Lipid-Binding Pockets Using a Subset of Established and Orphan G-Protein Coupled Receptors. Journal of Chemical Information and Modeling, 2021, 61, 3442-3452.	5.4	1
115	14,15â€Epoxyeicosatrienoic Acid Elicits Pre―and Postâ€conditioning Protection Against Myocardial Ischemiaâ€Reperfusion Injury In Mice. FASEB Journal, 2008, 22, 647-647.	0.5	1
116	Eicosanoid ratios are associated with hemorrhage severity and predict development of delayed cerebral ischemia following subarachnoid hemorrhage. Brain Hemorrhages, 2022, 3, 135-142.	1.0	1
117	Regulation of the cerebral circulation by cytochrome P450 epoxygenase activity. International Congress Series, 2002, 1235, 289-295.	0.2	O
118	PC064 Location of Diabetic Foot Ulcer Affects Wound Outcomes. Journal of Vascular Surgery, 2017, 65, 156S.	1.1	0
119	Vascular Biology. Stroke, 2021, 52, 2440-2441.	2.0	O
120	(Phospho)Proteomic dataset of ischemia- and ultrasound- stimulated mouse cardiac endothelial cells in vitro. Data in Brief, 2021, 38, 107343.	1.0	0
121	Estradiol increases signal transducer and activator of transcription (STAT3) phosphorylation and DNA binding in brain nuclear extract after MCAO occlusion. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S291-S291.	4.3	0
122	Polymorphisms in the human soluble epoxide hydrolase gene EPHX2 are linked to cardiomyocyte survival following oxygen and substrate deprivation. FASEB Journal, 2008, 22, 479.9.	0.5	0
123	Soluble Epoxide Hydrolase Gene Deletion is Protective Against Myocardial Ischemiaâ€Reperfusion Injury In Vivo. FASEB Journal, 2008, 22, 479.3.	0.5	0
124	STAT3 is a positive regulator of endothelial function in the brain. FASEB Journal, 2012, 26, .	0.5	O