

# Nabil J Alkayed

## List of Publications by Year in descending order

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124  
papers

7,057  
citations

57758

44  
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60623

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129  
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129  
docs citations

129  
times ranked

6258  
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of coronary vascular resistance by eicosanoids via a novel GPCR. American Journal of Physiology - Cell Physiology, 2022, 322, C1011-C1021.	4.6	21
2	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
3	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
4	Role of Endothelial Cells and Platelets in COVID-Related Cerebrovascular Events. Stroke, 2022, 53, 2389-2392.	2.0	2
5	Age-dependent cognitive impairment, hydrocephalus and leukocyte infiltration in transgenic mice with endothelial expression of human EPHX2. , 2022, 8, .		4
6	Plasma Oxylipins: A Potential Risk Assessment Tool in Atherosclerotic Coronary Artery Disease. Frontiers in Cardiovascular Medicine, 2021, 8, 645786.	2.4	8
7	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
8	Soluble Epoxide Hydrolase Blockade after Stroke Onset Protects Normal but Not Diabetic Mice. International Journal of Molecular Sciences, 2021, 22, 5419.	4.1	11
9	Role of GPR39 in Neurovascular Homeostasis and Disease. International Journal of Molecular Sciences, 2021, 22, 8200.	4.1	13
10	Vascular Biology. Stroke, 2021, 52, 2440-2441.	2.0	0
11	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
12	Age-dependent transcriptional alterations in cardiac endothelial cells. Physiological Genomics, 2021, 53, 295-308.	2.3	4
13	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
14	Phosphoproteomic response of cardiac endothelial cells to ischemia and ultrasound. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140683.	2.3	3
15	(Phospho)Proteomic dataset of ischemia- and ultrasound- stimulated mouse cardiac endothelial cells in vitro. Data in Brief, 2021, 38, 107343.	1.0	0
16	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
17	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
18	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

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19	High-Density Lipoprotein Carries Markers That Track With Recovery From Stroke. <i>Circulation Research</i> , 2020, 127, 1274-1287.	4.5	26
20	Sex differences in the therapeutic effects of anti-PDL2 neutralizing antibody on stroke. <i>Metabolic Brain Disease</i> , 2019, 34, 1705-1712.	2.9	8
21	Therapeutic Ultrasound Increases Myocardial Blood Flow in Ischemic Myocardium and Cardiac Endothelial Cells: Results of InVivo and InVitro Experiments. <i>Journal of the American Society of Echocardiography</i> , 2019, 32, 1151-1160.	2.8	9
22	Pericyte constriction underlies capillary derecruitment during hyperemia in the setting of arterial stenosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H255-H263.	3.2	18
23	Electromagnetic Interference with Protocolized Electrosurgery Dispersive Electrode Positioning in Patients with Implantable Cardioverter Defibrillators. <i>Anesthesiology</i> , 2019, 130, 530-540.	2.5	37
24	Apolipoprotein E4 mediates insulin resistance-associated cerebrovascular dysfunction and the post-prandial response. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 770-781.	4.3	37
25	P450 Eicosanoids and Reactive Oxygen Species Interplay in Brain Injury and Neuroprotection. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 987-1007.	5.4	19
26	Predictive value of neutrophil-to-lymphocyte ratio in diabetic wound healing. <i>Journal of Vascular Surgery</i> , 2017, 65, 478-483.	1.1	43
27	Cytochrome P450 eicosanoids in cerebrovascular function and disease. , 2017, 179, 31-46.		40
28	PC064 Location of Diabetic Foot Ulcer Affects Wound Outcomes. <i>Journal of Vascular Surgery</i> , 2017, 65, 156S.	1.1	0
29	Partial MHC class II constructs as novel immunomodulatory therapy for stroke. <i>Neurochemistry International</i> , 2017, 107, 138-147.	3.8	17
30	Functional screening for G protein-coupled receptor targets of 14,15-epoxyeicosatrienoic acid. <i>Prostaglandins and Other Lipid Mediators</i> , 2017, 132, 31-40.	1.9	31
31	Vapor Pressures of Anesthetic Agents at Temperatures Below 0°C and a Novel Anesthetic Delivery Device. <i>Anesthesia and Analgesia</i> , 2017, 124, 473-479.	2.2	1
32	Temporal Changes in Skeletal Muscle Capillary Responses and Endothelial-Derived Vasodilators in Obesity-Related Insulin Resistance. <i>Diabetes</i> , 2016, 65, 2249-2257.	0.6	25
33	18F-FNDP for PET Imaging of Soluble Epoxide Hydrolase. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1817-1822.	5.0	19
34	Automated segmentation and enhancement of optical coherence tomography-acquired images of rodent brain. <i>Journal of Neuroscience Methods</i> , 2016, 270, 132-137.	2.5	26
35	Sex- and isoform-specific mechanism of neuroprotection by transgenic expression of P450 epoxygenase in vascular endothelium. <i>Experimental Neurology</i> , 2016, 279, 75-85.	4.1	12
36	Amelioration of Metabolic Syndrome-Associated Cognitive Impairments in Mice via a Reduction in Dietary Fat Content or Infusion of Non-Diabetic Plasma. <i>EBioMedicine</i> , 2016, 3, 26-42.	6.1	59

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37	Partial MHC Constructs Treat Thromboembolic Ischemic Stroke Characterized by Early Immune Expansion. <i>Translational Stroke Research</i> , 2016, 7, 70-78.	4.2	17
38	High fat diet-induced diabetes in mice exacerbates cognitive deficit due to chronic hypoperfusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1257-1270.	4.3	69
39	Disrupting Dimerization Translocates Soluble Epoxide Hydrolase to Peroxisomes. <i>PLoS ONE</i> , 2016, 11, e0152742.	2.5	11
40	Hyperglycemia abolishes the protective effect of ischemic preconditioning in glomerular endothelial cells in vitro. <i>Physiological Reports</i> , 2015, 3, e12346.	1.7	15
41	Soluble Epoxide Hydrolase in Hydrocephalus, Cerebral Edema, and Vascular Inflammation After Subarachnoid Hemorrhage. <i>Stroke</i> , 2015, 46, 1916-1922.	2.0	45
42	Neurobehavioral and Imaging Correlates of Hippocampal Atrophy in a Mouse Model of Vascular Cognitive Impairment. <i>Translational Stroke Research</i> , 2015, 6, 390-398.	4.2	44
43	Ultrasound stimulates formation and release of vasoactive compounds in brain endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H583-H591.	3.2	12
44	Hydrogen sulfide protects against myocardial ischemia and reperfusion injury by activating AMP-activated protein kinase to restore autophagic flux. <i>Biochemical and Biophysical Research Communications</i> , 2015, 458, 632-638.	2.1	78
45	Peroxisomal Translocation of Soluble Epoxide Hydrolase Protects against Ischemic Stroke Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1416-1420.	4.3	7
46	Soluble epoxide hydrolase gene deletion improves blood flow and reduces infarct size after cerebral ischemia in reproductively senescent female mice. <i>Frontiers in Pharmacology</i> , 2015, 5, 290.	3.5	30
47	A novel mouse model of thromboembolic stroke. <i>Journal of Neuroscience Methods</i> , 2015, 256, 203-211.	2.5	39
48	Peroxisomal Biogenesis in Ischemic Brain. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 109-120.	5.4	18
49	Synthesis of 14,15-EET from Arachidonic Acid Using Urea-Hydrogen Peroxide as the Oxidant. <i>Synthetic Communications</i> , 2015, 45, 105-110.	2.1	3
50	Preclinical Evaluation of Recombinant T Cell Receptor Ligand RTL1000 as a Therapeutic Agent in Ischemic Stroke. <i>Translational Stroke Research</i> , 2015, 6, 60-68.	4.2	28
51	Protective Role of P450 Epoxyeicosanoids in Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2015, 22, 306-319.	2.4	31
52	Mechanism of Protection by Soluble Epoxide Hydrolase Inhibition in Type 2 Diabetic Stroke. <i>PLoS ONE</i> , 2014, 9, e97529.	2.5	26
53	Estrogen-Mediated Renoprotection following Cardiac Arrest and Cardiopulmonary Resuscitation Is Robust to GPR30 Gene Deletion. <i>PLoS ONE</i> , 2014, 9, e99910.	2.5	15
54	Different immunological mechanisms govern protection from experimental stroke in young and older mice with recombinant TCR ligand therapy. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 284.	3.7	18

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55	Genetic variation in soluble epoxide hydrolase: association with outcome after aneurysmal subarachnoid hemorrhage. <i>Journal of Neurosurgery</i> , 2014, 121, 1359-1366.	1.6	24
56	Role of soluble epoxide hydrolase in age-related vascular cognitive decline. <i>Prostaglandins and Other Lipid Mediators</i> , 2014, 113-115, 30-37.	1.9	52
57	CaMKK $\beta$ -Dependent Activation of AMP-Activated Protein Kinase Is Critical to Suppressive Effects of Hydrogen Sulfide on Neuroinflammation. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 1741-1758.	5.4	116
58	A novel HLA-DR $\beta$ 1-MOG-35-55 construct treats experimental stroke. <i>Metabolic Brain Disease</i> , 2014, 29, 37-45.	2.9	25
59	Intracisternal Administration of Tissue Plasminogen Activator Improves Cerebrospinal Fluid Flow and Cortical Perfusion After Subarachnoid Hemorrhage in Mice. <i>Translational Stroke Research</i> , 2014, 5, 227-237.	4.2	53
60	Hydrogen sulfide protects blood-brain barrier integrity following cerebral ischemia. <i>Journal of Neurochemistry</i> , 2014, 129, 827-838.	3.9	99
61	Recombinant T Cell Receptor Ligand Treatment Improves Neurological Outcome in the Presence of Tissue Plasminogen Activator in Experimental Ischemic Stroke. <i>Translational Stroke Research</i> , 2014, 5, 612-617.	4.2	26
62	Mechanism of the Sex Difference in Endothelial Dysfunction after Stroke. <i>Translational Stroke Research</i> , 2013, 4, 381-389.	4.2	38
63	Differential mechanisms underlying neuroprotection of hydrogen sulfide donors against oxidative stress. <i>Neurochemistry International</i> , 2013, 62, 1072-1078.	3.8	60
64	Role of Soluble Epoxide Hydrolase in Exacerbation of Stroke by Streptozotocin-Induced Type 1 Diabetes Mellitus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1650-1656.	4.3	41
65	Coronary Autoregulation Is Abnormal in Syndrome X: Insights Using Myocardial Contrast Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2013, 26, 290-296.	2.8	25
66	Soluble Epoxide Hydrolase Dimerization Is Required for Hydrolase Activity. <i>Journal of Biological Chemistry</i> , 2013, 288, 7697-7703.	3.4	27
67	Role of Endothelial Soluble Epoxide Hydrolase in Cerebrovascular Function and Ischemic Injury. <i>PLoS ONE</i> , 2013, 8, e61244.	2.5	31
68	Soluble Epoxide Hydrolase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1936-1942.	2.4	49
69	Intrastriatal B-cell administration limits infarct size after stroke in B-cell deficient mice. <i>Metabolic Brain Disease</i> , 2012, 27, 487-493.	2.9	65
70	Sex differences in brain proteomes of neuron-specific STAT3 $\beta$ null mice after cerebral ischemia/reperfusion. <i>Journal of Neurochemistry</i> , 2012, 121, 680-692.	3.9	29
71	STAT3 is a positive regulator of endothelial function in the brain. <i>FASEB Journal</i> , 2012, 26, .	0.5	0
72	In vivo optical imaging of revascularization after brain trauma in mice. <i>Microvascular Research</i> , 2011, 81, 73-80.	2.5	35

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73	Epoxyeicosatrienoic acids enhance axonal growth in primary sensory and cortical neuronal cell cultures. <i>Journal of Neurochemistry</i> , 2011, 117, no-no.	3.9	37
74	Endothelium-Derived Hyperpolarizing Factor in the Brain: Influence of Sex, Vessel Size and Disease State. <i>Women's Health</i> , 2011, 7, 293-303.	1.5	18
75	Epoxyeicosanoid signaling in CNS function and disease. <i>Prostaglandins and Other Lipid Mediators</i> , 2010, 91, 68-84.	1.9	116
76	Involvement of stat3 in mouse brain development and sexual dimorphism: A proteomics approach. <i>Brain Research</i> , 2010, 1362, 1-12.	2.2	21
77	Epoxyeicosatrienoic acids are endogenous regulators of vasoactive neuropeptide release from trigeminal ganglion neurons. <i>Journal of Neurochemistry</i> , 2010, 115, 1530-1542.	3.9	26
78	Endothelial expression of human cytochrome P450 epoxygenases lowers blood pressure and attenuates hypertension-induced renal injury in mice. <i>FASEB Journal</i> , 2010, 24, 3770-3781.	0.5	126
79	Inhibition of soluble epoxide hydrolase preserves cardiomyocytes: role of STAT3 signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H679-H687.	3.2	33
80	Mechanisms of gender-linked ischemic brain injury. <i>Restorative Neurology and Neuroscience</i> , 2009, 27, 163-179.	0.7	73
81	Role of Soluble Epoxide Hydrolase in the Sex-Specific Vascular Response to Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1475-1481.	4.3	70
82	Cyclic Adenosine Monophosphate Response Element-Binding Protein Phosphorylation and Neuroprotection by 4-Phenyl-1-(4-Phenylbutyl) Piperidine (PPBP). <i>Anesthesia and Analgesia</i> , 2009, 108, 964-970.	2.2	13
83	Soluble epoxide hydrolase gene deletion reduces survival after cardiac arrest and cardiopulmonary resuscitation. <i>Resuscitation</i> , 2008, 76, 89-94.	3.0	60
84	Lack of Sex-Linked Differences in Cerebral Edema and Aquaporin-4 Expression after Experimental Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1898-1906.	4.3	27
85	Role of Signal Transducer and Activator of Transcription 3 in Neuronal Survival and Regeneration. <i>Reviews in the Neurosciences</i> , 2008, 19, 341-61.	2.9	135
86	Soluble Epoxide Hydrolase Gene Deletion Is Protective Against Experimental Cerebral Ischemia. <i>Stroke</i> , 2008, 39, 2073-2078.	2.0	158
87	In Vivo Cerebrovascular Effects of Cocaine- and Amphetamine-Regulated Transcript (CART) Peptide. <i>Journal of Cardiovascular Pharmacology</i> , 2008, 52, 82-89.	1.9	14
88	Soluble epoxide hydrolase: regulation by estrogen and role in the inflammatory response to cerebral ischemia. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 2833.	3.0	62
89	Developmental Exposure to Polychlorinated Biphenyls Influences Stroke Outcome in Adult Rats. <i>Environmental Health Perspectives</i> , 2008, 116, 474-480.	6.0	23
90	Polymorphisms in the human soluble epoxide hydrolase gene EPHX2 are linked to cardiomyocyte survival following oxygen and substrate deprivation. <i>FASEB Journal</i> , 2008, 22, 479.9.	0.5	0

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91	Soluble Epoxide Hydrolase Gene Deletion is Protective Against Myocardial Ischemiaâ€Reperfusion Injury In Vivo. <i>FASEB Journal</i> , 2008, 22, 479.3.	0.5	0
92	14,15â€Epoxyeicosatrienoic Acid Elicits Preâ€and Postâ€conditioning Protection Against Myocardial Ischemiaâ€Reperfusion Injury In Mice. <i>FASEB Journal</i> , 2008, 22, 647-647.	0.5	1
93	Role of Signal Transducer and Activator of Transcription-3 in Estradiol-Mediated Neuroprotection. <i>Journal of Neuroscience</i> , 2007, 27, 7268-7274.	3.6	104
94	Polymorphisms in the Human Soluble Epoxide Hydrolase Gene EPHX2 Linked to Neuronal Survival after Ischemic Injury. <i>Journal of Neuroscience</i> , 2007, 27, 4642-4649.	3.6	118
95	Sigma Receptor Agonists Provide Neuroprotection In Vitro by Preserving bcl-2. <i>Anesthesia and Analgesia</i> , 2007, 104, 1179-1184.	2.2	71
96	A novel role for P450 eicosanoids in the neurogenic control of cerebral blood flow in the rat. <i>Experimental Physiology</i> , 2007, 92, 653-658.	2.0	46
97	Role of P450 Aromatase in Sex-Specific Astrocytic Cell Death. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 135-141.	4.3	128
98	Deleterious Effects of Dihydrotestosterone on Cerebral Ischemic Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1553-1562.	4.3	91
99	Soluble Epoxide Hydrolase: A Novel Therapeutic Target in Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1931-1940.	4.3	179
100	Mitochondrial mechanism of neuroprotection by CART. <i>European Journal of Neuroscience</i> , 2007, 26, 624-632.	2.6	60
101	Estradiol Alters Only GAD67 mRNA Levels in Ischemic Rat Brain with No Consequent Effects on GABA. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 518-526.	4.3	21
102	Role of cocaine- and amphetamine-regulated transcript in estradiol-mediated neuroprotection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14489-14494.	7.1	106
103	Hypoxic Preconditioning and Tolerance via Hypoxia Inducible Factor (HIF) 1-linked Induction of P450 2C11 Epoxygenase in Astrocytes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 939-948.	4.3	93
104	Cocaine- and Amphetamine-Regulated Transcript (CART) Peptide: A Vasoactive Role in the Cerebral Circulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 1376-1385.	4.3	23
105	Estradiol increases signal transducer and activator of transcription (STAT3) phosphorylation and DNA binding in brain nuclear extract after MCAO occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S291-S291.	4.3	0
106	Dependency of Cortical Functional Hyperemia to Forepaw Stimulation on Epoxygenase and Nitric Oxide Synthase Activities in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 509-517.	4.3	78
107	Mechanisms of ischemic brain damage. <i>Current Cardiology Reports</i> , 2003, 5, 160-167.	2.9	31
108	High-dose ibuprofen for reduction of striatal infarcts during middle cerebral artery occlusion in rats. <i>Journal of Neurosurgery</i> , 2003, 98, 860-866.	1.6	44

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109	Neuroprotection and P450 2C11 Upregulation After Experimental Transient Ischemic Attack. <i>Stroke</i> , 2002, 33, 1677-1684.	2.0	107
110	Suppression of cortical functional hyperemia to vibrissal stimulation in the rat by epoxygenase inhibitors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H2029-H2037.	3.2	114
111	Regulation of the cerebral circulation by cytochrome P450 epoxygenase activity. <i>International Congress Series</i> , 2002, 1235, 289-295.	0.2	0
112	Estrogen and Bcl-2: Gene Induction and Effect of Transgene in Experimental Stroke. <i>Journal of Neuroscience</i> , 2001, 21, 7543-7550.	3.6	179
113	Anesthetic Choice of Halothane Versus Propofol. <i>Stroke</i> , 2001, 32, 1920-1925.	2.0	49
114	Postischemic Estrogen Reduces Hypoperfusion and Secondary Ischemia After Experimental Stroke. <i>Stroke</i> , 2001, 32, 796-802.	2.0	190
115	Experimental Stroke in the Female Diabetic, <i>db/db</i> , Mouse. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 52-60.	4.3	141
116	Hypertonic Saline Worsens Infarct Volume After Transient Focal Ischemia in Rats. <i>Stroke</i> , 2000, 31, 1694-1701.	2.0	99
117	Stroke in Estrogen Receptor-Deficient Mice. <i>Stroke</i> , 2000, 31, 738-744.	2.0	139
118	Estrogen Receptor Antagonist ICI182,780 Exacerbates Ischemic Injury in Female Mouse. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 112-118.	4.3	151
119	Neuroprotective Effects of Female Gonadal Steroids in Reproductively Senescent Female Rats. <i>Stroke</i> , 2000, 31, 161-168.	2.0	327
120	17 $\beta$ -Estradiol Reduces Stroke Injury in Estrogen-Deficient Female Animals. <i>Stroke</i> , 1999, 30, 1665-1670.	2.0	288
121	Gender-Linked Brain Injury in Experimental Stroke. <i>Stroke</i> , 1998, 29, 159-166.	2.0	697
122	Functional Hyperemia in the Brain. <i>Stroke</i> , 1998, 29, 229-234.	2.0	200
123	Role of P-450 Arachidonic Acid Epoxygenase in the Response of Cerebral Blood Flow to Glutamate in Rats. <i>Stroke</i> , 1997, 28, 1066-1072.	2.0	121
124	Molecular Characterization of an Arachidonic Acid Epoxygenase in Rat Brain Astrocytes. <i>Stroke</i> , 1996, 27, 971-979.	2.0	176