Raymond C Koehler

List of Publications by Year
in descending order

156	6,977	53794 45	66911 78
papers	citations	h-index	g-index

168	168	168	6356
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inhibition of neuronal ferroptosis protects hemorrhagic brain. JCI Insight, 2017, 2, e90777.	5.0	483
2	Astrocytes and the regulation of cerebral blood flow. Trends in Neurosciences, 2009, 32, 160-169.	8.6	392
3	Continuous Time-Domain Analysis of Cerebrovascular Autoregulation Using Near-Infrared Spectroscopy. Stroke, 2007, 38, 2818-2825.	2.0	300
4	Cerebrovascular Reactivity Measured by Near-Infrared Spectroscopy. Stroke, 2009, 40, 1820-1826.	2.0	269
5	Hypoxiaâ€"ischemia causes abnormalities in glutamate transporters and death of astroglia and neurons in newborn striatum. Annals of Neurology, 1997, 42, 335-348.	5.3	264
6	Role of astrocytes in cerebrovascular regulation. Journal of Applied Physiology, 2006, 100, 307-317.	2.5	257
7	Continuous Measurement of Autoregulation by Spontaneous Fluctuations in Cerebral Perfusion Pressure. Stroke, 2008, 39, 2531-2537.	2.0	229
8	Heme Oxygenase-2 Is Neuroprotective in Cerebral Ischemia. Molecular Medicine, 1999, 5, 656-663.	4.4	155
9	Cerebrovascular autoregulation and neurologic injury in neonatal hypoxicâ€"ischemic encephalopathy. Pediatric Research, 2013, 74, 525-535.	2.3	153
10	Primary sensory and forebrain motor systems in the newborn brain are preferentially damaged by hypoxia-ischemia. Journal of Comparative Neurology, 1997, 377, 262-285.	1.6	145
11	Vascular response to infusions of a nonextravasating hemoglobin polymer. Journal of Applied Physiology, 2002, 93, 1479-1486.	2.5	134
12	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
13	Cerebral blood flow and cerebrovascular autoregulation in a swine model of pediatric cardiac arrest and hypothermia*. Critical Care Medicine, 2011, 39, 2337-2345.	0.9	106
14	Dopamine Receptor Modulation of Hypoxicâ€"Ischemic Neuronal Injury in Striatum of Newborn Piglets. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1339-1351.	4.3	105
15	Melanopsin mediates light-dependent relaxation in blood vessels. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17977-17982.	7.1	98
16	Neuroinflammation and Neuroimmune Dysregulation after Acute Hypoxic-Ischemic Injury of Developing Brain. Frontiers in Pediatrics, 2014, 2, 144.	1.9	88
17	Hypothermia for 24 Hours After Asphyxic Cardiac Arrest in Piglets Provides Striatal Neuroprotection That Is Sustained 10 Days After Rewarming. Pediatric Research, 2003, 54, 253-262.	2.3	81
18	Metabotropic Glutamate Receptor Activation Enhances the Activities of Two Types of Ca²⁺-Activated K⁺Channels in Rat Hippocampal Astrocytes. Journal of Neuroscience, 2003, 23, 1678-1687.	3.6	81

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19	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
20	P-450 epoxygenase and NO synthase inhibitors reduce cerebral blood flow response toN-methyl-d-aspartate. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H1616-H1624.	3.2	77
21	Interaction of Mechanisms Involving Epoxyeicosatrienoic Acids, Adenosine Receptors, and Metabotropic Glutamate Receptors in Neurovascular Coupling in Rat Whisker Barrel Cortex. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 111-125.	4.3	75
22	Correlation of the Average Water Diffusion Constant with Cerebral Blood Flow and Ischemic Damage after Transient Middle Cerebral Artery Occlusion in Cats. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 881-891.	4.3	72
23	The Lower Limit of Cerebral Blood Flow Autoregulation Is Increased with Elevated Intracranial Pressure. Anesthesia and Analgesia, 2009, 108, 1278-1283.	2.2	72
24	Rapid NMDA receptor phosphorylation and oxidative stress precede striatal neurodegeneration after hypoxic ischemia in newborn piglets and are attenuated with hypothermia. International Journal of Developmental Neuroscience, 2008, 26, 67-76.	1.6	71
25	Simultaneous detection and separation of hyperacute intracerebral hemorrhage and cerebral ischemia using amide proton transfer MRI. Magnetic Resonance in Medicine, 2015, 74, 42-50.	3.0	71
26	Intravenous Basic Fibroblast Growth Factor Decreases Brain Injury Resulting From Focal Ischemia in Cats. Stroke, 1997, 28, 609-616.	2.0	71
27	Cerebrovascular response to decreased hematocrit: effect of cell-free hemoglobin, plasma viscosity, and CO₂. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H1600-H1608.	3.2	69
28	Deferoxamine Reduces Early Metabolic Failure Associated With Severe Cerebral Ischemic Acidosis in Dogs. Stroke, 1995, 26, 688-695.	2.0	69
29	Interaction of nitric oxide, 20-HETE, and EETs during functional hyperemia in whisker barrel cortex. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H619-H631.	3.2	67
30	A pilot cohort study of cerebral autoregulation and 2-year neurodevelopmental outcomes in neonates with hypoxic-ischemic encephalopathy who received therapeutic hypothermia. BMC Neurology, 2015, 15, 209.	1.8	67
31	Inhibition of tPA-induced hemorrhagic transformation involves adenosine A2b receptor activation after cerebral ischemia. Neurobiology of Disease, 2017, 108, 173-182.	4.4	65
32	Methionine Sulfoximine, a Glutamine Synthetase Inhibitor, Attenuates Increased Extracellular Potassium Activity during Acute Hyperammonemia. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 44-49.	4.3	64
33	Developmental and Regional Differences in Nitric Oxide Synthase Activity and Blood Flow in the Sheep Brain. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 109-115.	4.3	59
34	Rewarming from Therapeutic Hypothermia Induces Cortical Neuron Apoptosis in a Swine Model of Neonatal Hypoxicâ€“Ischemic Encephalopathy. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 781-793.	4.3	59
35	Optimizing Cerebral Autoregulation May Decrease Neonatal Regional Hypoxic-Ischemic Brain Injury. Developmental Neuroscience, 2017, 39, 248-256.	2.0	59
36	Impaired autophagosome clearance contributes to neuronal death in a piglet model of neonatal hypoxic-ischemic encephalopathy. Cell Death and Disease, 2017, 8, e2919-e2919.	6.3	59

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37	A pilot study of cerebrovascular reactivity autoregulation after pediatric cardiac arrest. Resuscitation, 2014, 85, 1387-1393.	3.0	56
38	Sigma receptor ligand 4-phenyl-1-(4-phenylbutyl)-piperidine modulates neuronal nitric oxide synthase/postsynaptic density-95 coupling mechanisms and protects against neonatal ischemic degeneration of striatal neurons. Experimental Neurology, 2010, 221, 166-174.	4.1	55
39	Microglia-derived interleukin-10 accelerates post-intracerebral hemorrhage hematoma clearance by regulating CD36. Brain, Behavior, and Immunity, 2021, 94, 437-457.	4.1	54
40	Production and characteristics of an infusible oxygen-carrying fluid based on hemoglobin intramolecularly cross-linked with sebacic acid. Translational Research, 1996, 128, 146-153.	2.3	53
41	Cerebrovascular Effects of Carbon Monoxide. Antioxidants and Redox Signaling, 2002, 4, 279-290.	5.4	53
42	Perinatal hypoxic-ischemic brain injury in large animal models: Relevance to human neonatal encephalopathy. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 2092-2111.	4.3	53
43	Noninvasive Autoregulation Monitoring in a Swine Model of Pediatric Cardiac Arrest. Anesthesia and Analgesia, 2012, 114, 825-836.	2.2	51
44	Nitric oxide synthase 1 and nitric oxide synthase 3 protein expression is regionally and temporally regulated in fetal brain. Developmental Brain Research, 1996, 95, 1-14.	1.7	49
45	GLT1, glial glutamate transporter, is transiently expressed in neurons and develops astrocyte specificity only after midgestation in the ovine fetal brain. Journal of Neurobiology, 1999, 39, 515-526.	3.6	49
46	Fetal cerebral and peripheral circulatory responses to hypoxia after nitric oxide synthase inhibition. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R381-R390.	1.8	47
47	Comparison of Cerebrovascular Response to Hypoxic and Carbon Monoxide Hypoxia in Newborn and Adult Sheep. Journal of Cerebral Blood Flow and Metabolism, 1984, 4, 115-122.	4.3	45
48	Role of nitric oxide scavenging in vascular response to cell-free hemoglobin transfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1191-H1201.	3.2	45
49	A New Rabbit Model of Pediatric Traumatic Brain Injury. Journal of Neurotrauma, 2015, 32, 1369-1379.	3.4	44
50	Characterization of Ionotropic Glutamate Receptorâ€“Mediated Nitric Oxide Production In Vivo in Rats. Stroke, 1997, 28, 850-857.	2.0	43
51	A recombinant polymeric hemoglobin with conformational, functional, and physiological characteristics of an in vivo O₂transporter. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H549-H561.	3.2	42
52	Transfusion of hemoglobin-based oxygen carriers in the carboxy state is beneficial during transient focal cerebral ischemia. Journal of Applied Physiology, 2012, 113, 1709-1717.	2.5	42
53	Additive Neuroprotection of a 20-HETE Inhibitor with Delayed Therapeutic Hypothermia after Hypoxia-Ischemia in Neonatal Piglets. Developmental Neuroscience, 2015, 37, 376-389.	2.0	42
54	Quantitative EEG during Early Recovery from Hypoxic-Ischemic Injury in Immature Piglets: Burst Occurrence and Duration. Clinical EEG (electroencephalography), 1999, 30, 175-183.	0.9	41

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55	20-HETE synthesis inhibition promotes cerebral protection after intracerebral hemorrhage without inhibiting angiogenesis. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1531-1543.	4.3	41
56	Cerebrovascular autoregulation after rewarming from hypothermia in a neonatal swine model of asphyxic brain injury. Journal of Applied Physiology, 2013, 115, 1433-1442.	2.5	40
57	Epoxyeicosatrienoic acid-dependent cerebral vasodilation evoked by metabotropic glutamate receptor activation in vivo. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H373-H381.	3.2	39
58	Soluble epoxide hydrolase inhibition decreases reperfusion injury after focal cerebral ischemia. Scientific Reports, 2018, 8, 5279.	3.3	38
59	Characterization of Metabotropic Glutamate Receptor-Mediated Nitric Oxide Production in Vivo. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 153-160.	4.3	36
60	Attenuation of neonatal ischemic brain damage using a 20â€HETE synthesis inhibitor. Journal of Neurochemistry, 2012, 121, 168-179.	3.9	35
61	Effects of the AMPA Receptor Antagonist NBQX on Outcome of Newborn Pigs after Asphyxic Cardiac Arrest. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 927-938.	4.3	34
62	Validation of noninvasive photoacoustic measurements of sagittal sinus oxyhemoglobin saturation in hypoxic neonatal piglets. Journal of Applied Physiology, 2018, 125, 983-989.	2.5	34
63	Adenosine Modulates N -Methyl- d -Aspartateâ€“Stimulated Hippocampal Nitric Oxide Production In Vivo. Stroke, 1995, 26, 1627-1633.	2.0	34
64	Early Treatment of Transient Focal Cerebral Ischemia with Bovine PEGylated Carboxy Hemoglobin Transfusion. Artificial Cells, Blood Substitutes, and Biotechnology, 2010, 38, 223-229.	0.9	33
65	Cerebral blood flow during hypoxic hypoxia with plasma-based hemoglobin at reduced hematocrit. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H1933-H1942.	3.2	31
66	Relative contribution of cyclooxygenases, epoxyeicosatrienoic acids, and pH to the cerebral blood flow response to vibrissal stimulation. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1075-H1085.	3.2	30
67	Therapeutic hypothermia promotes cerebral blood flow recovery and brain homeostasis after resuscitation from cardiac arrest in a rat model. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1961-1973.	4.3	29
68	Effect of cross-linked hemoglobin transfusion on endothelial-dependent dilation in cat pial arterioles. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H1313-H1321.	3.2	28
69	Decreased Damage From Transient Focal Cerebral Ischemia by Transfusion of Zero-Link Hemoglobin Polymers in Mouse. Stroke, 2009, 40, 278-284.	2.0	28
70	Targeting Parthanatos in Ischemic Stroke. Frontiers in Neurology, 2021, 12, 662034.	2.4	28
71	Adenosine A_{2A} Receptor Contributes to Ischemic Brain Damage in Newborn Piglet. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1612-1620.	4.3	26
72	Cerebral Autoregulation and Conventional and Diffusion Tensor Imaging Magnetic Resonance Imaging in Neonatal Hypoxic-Ischemic Encephalopathy. Pediatric Neurology, 2018, 82, 36-43.	2.1	26

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73	Hypoxia-Ischemia and Hypothermia Independently and Interactively Affect Neuronal Pathology in Neonatal Piglets with Short-Term Recovery. Developmental Neuroscience, 2019, 41, 17-33.	2.0	26
74	Contribution of adenosine A2A and A2B receptors and heme oxygenase to AMPA-induced dilation of pial arterioles in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R728-R735.	1.8	25
75	Neuroprotective effect of acid-sensing ion channel inhibitor psalmotoxin-1 after hypoxiaâ€“ischemia in newborn piglet striatum. Neurobiology of Disease, 2011, 43, 446-454.	4.4	25
76	Role of 20-HETE in the pial arteriolar constrictor response to decreased hematocrit after exchange transfusion of cell-free polymeric hemoglobin. Journal of Applied Physiology, 2006, 100, 336-342.	2.5	24
77	Striatal Neuroprotection from Neonatal Hypoxia-Ischemia in Piglets by Antioxidant Treatment with EUK-134 or Edaravone. Developmental Neuroscience, 2011, 33, 299-311.	2.0	24
78	Highâ€sensitivity CEST mapping using a spatiotemporal correlationâ€enhanced method. Magnetic Resonance in Medicine, 2020, 84, 3342-3350.	3.0	24
79	Regional cerebral blood flow in cats with cross-linked hemoglobin transfusion during focal cerebral ischemia. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H832-H841.	3.2	23
80	Salvage of focal cerebral ischemic damage by transfusion of high O2-affinity recombinant hemoglobin polymers in mouse. Journal of Applied Physiology, 2006, 100, 1688-1691.	2.5	23
81	Inhibition of soluble epoxide hydrolase augments astrocyte release of vascular endothelial growth factor and neuronal recovery after oxygenâ€glucose deprivation. Journal of Neurochemistry, 2017, 140, 814-825.	3.9	23
82	Hypothermia and Rewarming Activate a Macroglial Unfolded Protein Response Independent of Hypoxic-Ischemic Brain Injury in Neonatal Piglets. Developmental Neuroscience, 2016, 38, 277-294.	2.0	22
83	The Stroke Preclinical Assessment Network: Rationale, Design, Feasibility, and Stage 1 Results. Stroke, 2022, 53, 1802-1812.	2.0	22
84	Design of Recombinant Hemoglobins for Use in Transfusion Fluids. Critical Care Clinics, 2009, 25, 357-371.	2.6	20
85	Augmentation of poly(ADP-ribose) polymerase-dependent neuronal cell death by acidosis. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1982-1993.	4.3	20
86	Determining Thresholds for Three Indices of Autoregulation to Identify the Lower Limit of Autoregulation During Cardiac Surgery*. Critical Care Medicine, 2021, 49, 650-660.	0.9	20
87	Impaired Pial Arteriolar Reactivity to Hypercapnia During Hyperammonemia Depends on Glutamine Synthesis. Stroke, 1996, 27, 729-736.	2.0	20
88	18F-FNDP for PET Imaging of Soluble Epoxide Hydrolase. Journal of Nuclear Medicine, 2016, 57, 1817-1822.	5.0	19
89	An Analysis of Hypoxia in Sheep Brain using a Mathematical Model. Annals of Biomedical Engineering, 1998, 26, 48-59.	2.5	18
90	Upregulation of 20-HETE Synthetic Cytochrome P450 Isoforms by Oxygenâ€“Glucose Deprivation in Cortical Neurons. Cellular and Molecular Neurobiology, 2017, 37, 1279-1286.	3.3	18

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91	Association of diastolic blood pressure with survival during paediatric cardiopulmonary resuscitation. Resuscitation, 2019, 143, 50-56.	3.0	18
92	Proteasome Biology Is Compromised in White Matter After Asphyxic Cardiac Arrest in Neonatal Piglets. Journal of the American Heart Association, 2018, 7, e009415.	3.7	17
93	Role of Nitric Oxide Scavenging in Peripheral Vasoconstrictor Response to Î²Î² Cross-Linked Hemoglobin. Artificial Cells, Blood Substitutes, and Biotechnology, 1995, 23, 263-269.	0.9	16
94	Somatosensory Evoked Potential and Brain Water Content in Post-Asphyxic Immature Piglets. Pediatric Research, 1995, 37, 661-666.	2.3	16
95	Dependence of acetylcholine and ADP dilation of pial arterioles on heme oxygenase after transfusion of cell-free polymeric hemoglobin. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1027-H1037.	3.2	16
96	Nrf2-BDNF-TrkB pathway contributes to cortical hemorrhage-induced depression, but not sex differences. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 3288-3301.	4.3	15
97	Interaction of glutamine and arginine on cerebrovascular reactivity to hypercapnia. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H1577-H1584.	3.2	14
98	Endothelin rather than 20-HETE contributes to loss of pial arteriolar dilation during focal cerebral ischemia with and without polymeric hemoglobin transfusion. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R1412-R1418.	1.8	14
99	Contribution of epoxyeicosatrienoic acids to the cerebral blood flow response to hypoxemia. Journal of Applied Physiology, 2015, 119, 1202-1209.	2.5	14
100	20-HETE Participates in Intracerebral Hemorrhage-Induced Acute Injury by Promoting Cell Ferroptosis. Frontiers in Neurology, 2021, 12, 763419.	2.4	14
101	Preserved hypocapnic pial arteriolar constriction during hyperammonemia by glutamine synthetase inhibition. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H456-H463.	3.2	13
102	Administration of a 20-Hydroxyeicosatetraenoic Acid Synthesis Inhibitor Improves Outcome in a Rat Model of Pediatric Traumatic Brain Injury. Developmental Neuroscience, 2019, 41, 166-176.	2.0	13
103	Spatial T-maze identifies cognitive deficits in piglets 1 month after hypoxia-ischemia in a model of hippocampal pyramidal neuron loss and interneuron attrition. Behavioural Brain Research, 2019, 369, 111921.	2.2	13
104	Glutamine-dependent inhibition of pial arteriolar dilation to acetylcholine with and without hyperammonemia in the rat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R1612-R1619.	1.8	12
105	Transfusion of Polynitroxylated Pegylated Hemoglobin Stabilizes Pial Arterial Dilation and Decreases Infarct Volume After Transient Middle Cerebral Artery Occlusion. Journal of the American Heart Association, 2017, 6, .	3.7	12
106	Resuscitation with macromolecular superoxide dismutase/catalase mimetic polynitroxylated PEGylated hemoglobin offers neuroprotection in guinea pigs after traumatic brain injury combined with hemorrhage shock. BMC Neuroscience, 2020, 21, 22.	1.9	12
107	Role of heme oxygenase-2 in pial arteriolar response to acetylcholine in mice with and without transfusion of cell-free hemoglobin polymers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R498-R504.	1.8	11
108	Onset of pulmonary ventilation in fetal sheep produces pial arteriolar constriction dependent on cytochrome p450 Ï‰-hydroxylase activity. Journal of Applied Physiology, 2010, 109, 412-417.	2.5	11

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109	A novel atherothrombotic model of ischemic stroke induced by injection of collagen into the cerebral vasculature. Journal of Neuroscience Methods, 2015, 239, 65-74.	2.5	11
110	The Olfactory Bulb in Newborn Piglet Is a Reservoir of Neural Stem and Progenitor Cells. PLoS ONE, 2013, 8, e81105.	2.5	11
111	Fractional anisotropy from diffusion tensor imaging correlates with acute astrocyte and myelin swelling in neonatal swine models of excitotoxic and hypoxicâ€ischemic brain injury. Journal of Comparative Neurology, 2021, 529, 2750-2770.	1.6	10
112	Early Antioxidant Treatment and Delayed Hypothermia After Hypoxiaâ€“Ischemia Have No Additive Neuroprotection in Newborn Pigs. Anesthesia and Analgesia, 2012, 115, 627-637.	2.2	10
113	Transcranial photoacoustic characterization of neurovascular physiology during early-stage photothrombotic stroke in neonatal piglets in vivo. Journal of Neural Engineering, 2021, 18, 065001.	3.5	10
114	Role of nitric oxide in cerebrovascular reactivity to NMDA and hypercapnia during prenatal development in sheep. International Journal of Developmental Neuroscience, 2008, 26, 47-55.	1.6	9
115	Mean Diffusivity in Striatum Correlates With Acute Neuronal Death but Not Lesser Neuronal Injury in a Pilot Study of Neonatal Piglets With Encephalopathy. Journal of Magnetic Resonance Imaging, 2020, 52, 1216-1226.	3.4	9
116	Comparison of wavelet and correlation indices of cerebral autoregulation in a pediatric swine model of cardiac arrest. Scientific Reports, 2020, 10, 5926.	3.3	9
117	Analysis of glucose metabolism by 18F-FDG-PET imaging and glucose transporter expression in a mouse model of intracerebral hemorrhage. Scientific Reports, 2021, 11, 10885.	3.3	9
118	Comparison of Frequency- and Time-Domain Autoregulation and Vasoreactivity Indices in a Piglet Model of Hypoxia-Ischemia and Hypothermia. Developmental Neuroscience, 2018, 40, 547-559.	2.0	8
119	The Effect of Asphyxia Arrest Duration on a Pediatric End-Tidal co 2-Guided Chest Compression Delivery Model*. Pediatric Critical Care Medicine, 2019, 20, e352-e361.	0.5	8
120	Sulforaphane Protects Piglet Brains from Neonatal Hypoxic-Ischemic Injury. Developmental Neuroscience, 2020, 42, 124-134.	2.0	8
121	Insensitivity of cerebral oxygen transport to oxygen affinity of hemoglobin-based oxygen carriers. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1387-1394.	2.3	7
122	The contribution of TRPV1 channel to 20-HETEâ€”Aggravated ischemic neuronal injury. Prostaglandins and Other Lipid Mediators, 2018, 137, 63-68.	1.9	7
123	The association of bispectral index values and metrics of cerebral perfusion during cardiopulmonary bypass. Journal of Clinical Anesthesia, 2021, 74, 110395.	1.6	7
124	Photoacoustic assessment of the fetal brain and placenta as a method of non-invasive antepartum and intrapartum monitoring. Experimental Neurology, 2022, 347, 113898.	4.1	7
125	Abdominal near-infrared spectroscopy in a piglet model of gastrointestinal hypoxia produced by graded hypoxia or superior mesenteric artery ligation. Pediatric Research, 2018, 83, 1172-1181.	2.3	6
126	Targeting the mitochondrial permeability transition pore for neuroprotection in a piglet model of neonatal hypoxicâ€ischemic encephalopathy. Journal of Neuroscience Research, 2021, 99, 1550-1564.	2.9	6

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127	Blood-brain barrier permeability during dopamine-induced hypertension in fetal sheep. Journal of Applied Physiology, 2001, 91, 123-129.	2.5	5
128	Combining Hypothermia and Oleuropein Subacutely Protects Subcortical White Matter in a Swine Model of Neonatal Hypoxic-Ischemic Encephalopathy. Journal of Neuropathology and Experimental Neurology, 2021, 80, 182-198.	1.7	5
129	Quantitative validation of MRI mapping of cerebral venous oxygenation with direct blood sampling: A gradedâ€O₂ study in piglets. Magnetic Resonance in Medicine, 2021, 86, 1445-1453.	3.0	5
130	Regulation of the Cerebral Circulation During Development. , 2021, 11, 1-62.		5
131	Sustained Endothelial Dependent Dilation in Pial Arterioles After Crosslinked Hemoglobin Transfusion. Artificial Cells, Blood Substitutes, and Biotechnology, 1997, 25, 115-120.	0.9	4
132	Refinement of embolic stroke model in rats: Effect of post-embolization anesthesia duration on arterial blood pressure, cerebral edema and mortality. Journal of Neuroscience Methods, 2018, 307, 8-13.	2.5	4
133	Pathophysiological Insights into Spreading Depolarization in Severe Traumatic Brain Injury. Neurocritical Care, 2019, 30, 569-571.	2.4	3
134	The use of pressureâ€controlled mechanical ventilation in a swine model of intraoperative pediatric cardiac arrest. Paediatric Anaesthesia, 2020, 30, 462-468.	1.1	3
135	Use of an end-tidal carbon dioxide-guided algorithm during cardiopulmonary resuscitation improves short-term survival in paediatric swine. Resuscitation Plus, 2021, 8, 100174.	1.7	3
136	Propentdyopents. Circulation Research, 2019, 124, 1686-1688.	4.5	1
137	Biodistribution of Glial Progenitors in a Three Dimensional-Printed Model of the Piglet Cerebral Ventricular System. Stem Cells and Development, 2019, 28, 515-527.	2.1	1
138	A POSSIBLE ROLE OF OXYGENASES IN THE REGULATION OF CEREBRAL BLOOD FLOW. , 1981, , 167-177.		1
139	Abstract WP293: Necroptosis Cell Death Signaling Amplifies Acute Hyperglycemic Stroke Injury. Stroke, 2017, 48, .	2.0	1
140	Neuroprotection in the Striatum of Hypoxic-Ischemic Piglets by Simultaneous Inhibition of Dopamine D1 and Adenosine A_{2A} Receptors. Neonatology, 2022, 119, 354-360.	2.0	1
141	Interleukin-10 deficiency aggravates traumatic brain injury in male but not female mice. Experimental Neurology, 2022, 355, 114125.	4.1	1
142	Boosting Oxygenation During Acute Respiratory Failure. Science Translational Medicine, 2012, 4, 140fs21.	12.4	0
143	Cerebral ischemia and reperfusion. , 0, , 119-128.		0
144	Notice of Removal: In vivo photoacoustic quantification of brain tissue oxygenation for neonatal piglet graded ischemia model using microsphere administration. , 2017, , .		0

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145	Neurologic effects of short-term treatment with a soluble epoxide hydrolase inhibitor after cardiac arrest in pediatric swine. BMC Neuroscience, 2020, 21, 43.	1.9	0
146	Effect of cellâ€free hemoglobin transfusion and 20â€HETE synthesis inhibition on pial arteriolar diameter during middle cerebral artery occlusion. FASEB Journal, 2007, 21, A1274.	0.5	0
147	Protective effect of 20â€HETE inhibition on infarct volume following temporary middle cerebral artery occlusion is not associated with changes in cerebral blood flow. FASEB Journal, 2007, 21, A1383.	0.5	0
148	Effects of HET0016 and estrogen on postischemic pial artery dilatory response. FASEB Journal, 2008, 22, 733.12.	0.5	0
149	Effect of combined inhibition of neuronal nitric oxide synthase, cyclooxygenaseâ€2, and metabotropic glutamate receptors on the cerebral blood flow response to neuronal activation of whisker barrel cortex. FASEB Journal, 2011, 25, 1023.22.	0.5	0
150	Improved intraischemic perfusion and pial arteriolar dilation by transfusion of pegylated hemoglobin in the carbon monoxide state. FASEB Journal, 2011, 25, .	0.5	0
151	Ischemic Rescue with Hemoglobin-Based Oxygen Carriers. , 2013, , 435-453.		0
152	Abstract WMP83: Bidirectional Brain-Microbiome Interaction in a Murine Thrombotic Stroke Model. Stroke, 2018, 49, .	2.0	0
153	Selective Brain Cooling with Transnasal Flow of Ambient Air for Pediatric Resuscitation. FASEB Journal, 2018, 32, 712.14.	0.5	0
154	Inhibition of Soluble Epoxide Hydrolase Protects the Brain from Permanent Middle Cerebral Artery Occlusion. FASEB Journal, 2018, 32, 559.4.	0.5	0
155	Abstract T P326: Additive Neuroprotection of a 20-hete Inhibitor with Delayed Therapeutic Hypothermia after Asphyxic Cardiac Arrest in Neonatal Piglets. Stroke, 2014, 45, .	2.0	0
156	Amide Proton Transfer-Weighted Magnetic Resonance Imaging for Detecting Severity and Predicting Outcome after Traumatic Brain Injury in Rats. Neurotrauma Reports, 2022, 3, 261-275.	1.4	0