Arlin B Blood

List of Publications by Year
in descending order

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84 papers	1,900 citations	236925 25 h-index	276875 41 g-index
95 all docs	95 docs citations	95 times ranked	2329 citing authors

#	Article	IF	Citations
1	Inhaled nebulized nitrite is a hypoxia-sensitive NO-dependent selective pulmonary vasodilator. Nature Medicine, 2004, 10, 1122-1127.	30.7	259
2	Human milk oligosaccharide composition predicts risk of necrotising enterocolitis in preterm infants. Gut, 2018, 67, 1064-1070.	12.1	193
3	Key Neuroprotective Role for Endogenous Adenosine A 1 Receptor Activation During Asphyxia in the Fetal Sheep. Stroke, 2003, 34, 2240-2245.	2.0	94
4	A Novel, Noninvasive, Predictive Epilepsy Biomarker with Clinical Potential. Journal of Neuroscience, 2014, 34, 8672-8684.	3.6	92
5	14-3-3 Binding and Phosphorylation of Neuroglobin during Hypoxia Modulate Six-to-Five Heme Pocket Coordination and Rate of Nitrite Reduction to Nitric Oxide. Journal of Biological Chemistry, 2011, 286, 42679-42689.	3.4	69
6	Adenosine Mediates Decreased Cerebral Metabolic Rate and Increased Cerebral Blood Flow During Acute Moderate Hypoxia in the Nearâ€Term Fetal Sheep. Journal of Physiology, 2003, 553, 935-945.	2.9	58
7	Fetal lamb cerebral blood flow (CBF) and oxygen tensions during hypoxia: a comparison of laser Doppler and microsphere measurements of CBF. Journal of Physiology, 2003, 546, 869-878.	2.9	55
8	L-NAME releases nitric oxide and potentiates subsequent nitroglycerin-mediated vasodilation. Redox Biology, 2019, 26, 101238.	9.0	49
9	Role of Nitric Oxide in Hypoxic Cerebral Vasodilatation in the Ovine Fetus. Journal of Physiology, 2003, 549, 625-633.	2.9	48
10	Antenatal Hypoxia and Pulmonary Vascular Function and Remodeling. Current Vascular Pharmacology, 2013, 11, 616-640.	1.7	41
11	Use of Accelerator Mass Spectrometry to Measure the Pharmacokinetics and Peripheral Blood Mononuclear Cell Concentrations of Zidovudine. Journal of Pharmaceutical Sciences, 2008, 97, 2833-2843.	3.3	35
12	In vitro and in vivo kinetic handling of nitrite in blood: effects of varying hemoglobin oxygen saturation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1508-H1517.	3.2	34
13	Inhaled Nitrite Reverses Hemolysis-Induced Pulmonary Vasoconstriction in Newborn Lambs Without Blood Participation. Circulation, 2011, 123, 605-612.	1.6	33
14	The Role of Adenosine in Regulation of Cerebral Blood Flow During Hypoxia in the Nearâ€Term Fetal Sheep. Journal of Physiology, 2002, 543, 1015-1023.	2.9	32
15	L-type Ca2+ channels in fetal and adult ovine cerebral arteries. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R131-R138.	1.8	31
16	Cerebral Metabolism during Cord Occlusion and Hypoxia in the Fetal Sheep: A Novel Method of Continuous Measurement Based on Heat Production. Journal of Physiology, 2003, 552, 241-251.	2.9	31
17	Dietary intake and bio-activation of nitrite and nitrate in newborn infants. Pediatric Research, 2015, 77, 173-181.	2.3	31
18	Cerebral blood flow and oxygenation during venoarterial and venovenous extracorporeal membrane oxygenation in the newborn lamb. Pediatric Critical Care Medicine, 2004, 5, 475-481.	0.5	30

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19	Applications of accelerator MS in pediatric drug evaluation. Bioanalysis, 2012, 4, 1871-1882.	1.5	29
20	Increased nitrite reductase activity of fetal versus adult ovine hemoglobin. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H237-H246.	3.2	28
21	Long-Term Maternal Hypoxia. Reproductive Sciences, 2011, 18, 948-962.	2.5	28
22	Nitrate reductase activity of bacteria in saliva of term and preterm infants. Nitric Oxide - Biology and Chemistry, 2012, 27, 193-200.	2.7	28
23	Effect of chronic perinatal hypoxia on the role of rho-kinase in pulmonary artery contraction in newborn lambs. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R136-R146.	1.8	28
24	Ten-minute umbilical cord occlusion markedly reduces cerebral blood flow and heat production in fetal sheep. American Journal of Obstetrics and Gynecology, 2003, 189, 233-238.	1.3	27
25	A novel method of measuring reduction of nitrite-induced methemoglobin applied to fetal and adult blood of humans and sheep. Journal of Applied Physiology, 2007, 103, 1359-1365.	2.5	27
26	Inhaled Nitric Oxide Therapy Increases Blood Nitrite, Nitrate, and S-Nitrosohemoglobin Concentrations in Infants with Pulmonary Hypertension. Journal of Pediatrics, 2012, 160, 245-251.	1.8	27
27	Hemodynamic Effects of Glutathione-Liganded Binuclear Dinitrosyl Iron Complex: Evidence for Nitroxyl Generation and Modulation by Plasma Albumin. Molecular Pharmacology, 2018, 93, 427-437.	2.3	25
28	Local and systemic vasodilatory effects of low molecular weight S-nitrosothiols. Free Radical Biology and Medicine, 2016, 91, 215-223.	2.9	24
29	Partial neuroprotection by nNOS inhibition during profound asphyxia in preterm fetal sheep. Experimental Neurology, 2013, 250, 282-292.	4.1	23
30	Pharmacokinetic analysis of ¹⁴Câ€ursodiol in newborn infants using accelerator mass spectrometry. Journal of Clinical Pharmacology, 2014, 54, 1031-1037.	2.0	18
31	Characterization of an animal model of pregnancy-induced vitamin D deficiency due to metabolic gene dysregulation. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E256-E266.	3.5	17
32	Effect of Mild Hypothermia and Hypoxia on Blood Flow and Oxygen Consumption of the Fetal Sheep Brain. Pediatric Research, 2003, 54, 665-671.	2.3	16
33	Nitrite and Nitrate Concentrations and Metabolism in Breast Milk, Infant Formula, and Parenteral Nutrition. Journal of Parenteral and Enteral Nutrition, 2014, 38, 856-866.	2.6	16
34	Detection of dinitrosyl iron complexes by ozone-based chemiluminescence. Nitric Oxide - Biology and Chemistry, 2018, 79, 57-67.	2.7	16
35	The role of gasotransmitters in neonatal physiology. Nitric Oxide - Biology and Chemistry, 2020, 95, 29-44.	2.7	15
36	Pulmonary Distribution of Lucinactant and Poractant Alfa and Their Peridosing Hemodynamic Effects in a Preterm Lamb Model of Respiratory Distress Syndrome. Pediatric Research, 2010, 68, 193-198.	2.3	14

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37	Prenatal Programming of Pulmonary Hypertension Induced by Chronic Hypoxia or Ductal Ligation in Sheep. Pulmonary Circulation, 2013, 3, 757-780.	1.7	14
38	Nitric oxide metabolism in the human placenta during aberrant maternal inflammation. Journal of Physiology, 2020, 598, 2223-2241.	2.9	14
39	Role of Prostanoids in the Regulation of Cerebral Blood Flow During Normoxia and Hypoxia in the Fetal Sheep. Pediatric Research, 2006, 60, 524-529.	2.3	13
40	Preservation of Serotonin-Mediated Contractility in Adult Sheep Pulmonary Arteries Following Long-Term High-Altitude Hypoxia. High Altitude Medicine and Biology, 2011, 12, 253-264.	0.9	13
41	Nitrite potentiates the vasodilatory signaling of S-nitrosothiols. Nitric Oxide - Biology and Chemistry, 2018, 75, 60-69.	2.7	13
42	Gestational Hypoxia Inhibits Pregnancy-Induced Upregulation of Ca ²⁺ Sparks and Spontaneous Transient Outward Currents in Uterine Arteries Via Heightened Endoplasmic Reticulum/Oxidative Stress. Hypertension, 2020, 76, 930-942.	2.7	13
43	Developmental acceleration of bradykinin-dependent relaxation by prenatal chronic hypoxia impedes normal development after birth. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L271-L286.	2.9	12
44	CO and NO pulmonary diffusing capacity during pregnancy: Safety and diagnostic potential. Respiratory Physiology and Neurobiology, 2010, 170, 215-225.	1.6	11
45	Role of ceruloplasmin in nitric oxide metabolism in plasma of humans and sheep: a comparison of adults and fetuses. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R1401-R1410.	1.8	11
46	Role of blood and vascular smooth muscle in the vasoactivity of nitrite. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H976-H986.	3.2	11
47	The Medicinal Chemistry of Nitrite as a Source of Nitric Oxide Signaling. Current Topics in Medicinal Chemistry, 2017, 17, 1758-1768.	2.1	11
48	A physiologically relevant role for NO stored in vascular smooth muscle cells: A novel theory of vascular NO signaling. Redox Biology, 2022, 53, 102327.	9.0	11
49	Changes in plasma and urinary nitrite after birth in premature infants at risk for necrotizing enterocolitis. Pediatric Research, 2016, 79, 432-437.	2.3	10
50	Effect of Inhaled Nitric Oxide on Cerebrospinal Fluid and Blood Nitrite Concentrations in Newborn Lambs. Pediatric Research, 2008, 64, 375-380.	2.3	9
51	Role of nitrite in regulation of fetal cephalic circulation in sheep. Journal of Physiology, 2014, 592, 1785-1794.	2.9	9
52	Postprandial lipids accelerate and redirect nitric oxide consumption in plasma. Nitric Oxide - Biology and Chemistry, 2016, 55-56, 70-81.	2.7	8
53	S-nitrosothiols dilate the mesenteric artery more potently than the femoral artery by a cGMP and L-type calcium channel-dependent mechanism. Nitric Oxide - Biology and Chemistry, 2016, 58, 20-27.	2.7	8
54	Long-term hypoxia uncouples Ca²⁺and eNOS in bradykinin-mediated pulmonary arterial relaxation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R870-R882.	1.8	8

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55	Gestational Hypoxia and Programing of Lung Metabolism. Frontiers in Physiology, 2019, 10, 1453.	2.8	7
56	Absence of Robust Ischemic preconditioning by Five 1-minute total Umbilical Cord Occlusions in Fetal Sheep. Journal of the Society for Gynecologic Investigation, 2004, 11, 449-456.	1.7	6
57	Comparison of poractant alfa and lyophilized lucinactant in a preterm lamb model of acute respiratory distress. Pediatric Research, 2012, 72, 32-37.	2.3	6
58	A novel rodent model of pregnancy complications associated with genetically determined angiotensin-converting enzyme (ACE) activity. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E52-E62.	3.5	6
59	Evidence for placental-derived iron-nitrosyls in the circulation of the fetal lamb and against a role for nitrite in mediating the cardiovascular transition at birth. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R401-R411.	1.8	6
60	Perinatal Thermal Physiology. , 2011, , 615-624.		6
61	Estimation of Gestational Age via Image Analysis of Anterior Lens Capsule Vascularity in Preterm Infants: A Pilot Study. Frontiers in Pediatrics, 2019, 7, 43.	1.9	5
62	Deferoxamine produces nitric oxide under ferricyanide oxidation, blood incubation, and UV-irradiation. Free Radical Biology and Medicine, 2020, 160, 458-470.	2.9	5
63	Cerebral Autoregulation Is Minimally Influenced by the Superior Cervical Ganglion in Two- Week-Old Lambs, and Absent in Preterm Lambs Immediately Following Delivery. PLoS ONE, 2013, 8, e82326.	2.5	4
64	Neuroprotective role of nitric oxide inhalation and nitrite in a Neonatal Rat Model of Hypoxic-Ischemic Injury. PLoS ONE, 2022, 17, e0268282.	2.5	4
65	Iron nitrosyl complexes are formed from nitrite in the human placenta. Journal of Biological Chemistry, 2022, 298, 102078.	3.4	4
66	Evaluation of Multiple Modes of Oximetry Monitoring as an Index of Splanchnic Blood Flow in a Newborn Lamb Model of Hypoxic, Ischemic, and Hemorrhagic Stress. Shock, 2013, 39, 501-506.	2.1	3
67	Nitrite: On the Journey from Toxin to Therapy. Clinical Pharmacokinetics, 2015, 54, 221-223.	3.5	3
68	Use of Esophageal Hemoximetry to Assess the Effect of Packed Red Blood Cell Transfusion on Gastrointestinal Oxygenation in Newborn Infants. American Journal of Perinatology, 2017, 34, 735-741.	1.4	3
69	Asphyxia and Therapeutic Hypothermia Modulate Plasma Nitrite Concentrations and Carotid Vascular Resistance in Preterm Fetal Sheep. Reproductive Sciences, 2014, 21, 1483-1491.	2.5	2
70	Fetal-maternal nitrite exchange in sheep: Experimental data, a computational model and an estimate of placental nitrite permeability. Placenta, 2016, 38, 67-75.	1.5	2
71	Inhaled Fasudil Lacks Pulmonary Selectivity in Thromboxane-Induced Acute Pulmonary Hypertension in Newborn Lambs. Journal of Cardiovascular Pharmacology and Therapeutics, 2018, 23, 472-480.	2.0	2
72	Cerebral and Renal Oxygenation in Infants Undergoing Laparoscopic Gastrostomy Tube Placement. Journal of Surgical Research, 2020, 256, 83-89.	1.6	2

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73	Long-Term Hypoxia Negatively Influences Ca2+ Signaling in Basilar Arterial Myocytes of Fetal and Adult Sheep. Frontiers in Physiology, 2021, 12, 760176.	2.8	1
74	Nitrite Infusion at Physiologic Concentrations Reduces Carotid Vascular Resistance in Fetal Sheep. Free Radical Biology and Medicine, 2010, 49, S121-S122.	2.9	0
75	524: A LIGHT-GUIDED TECHNIQUE OF GASTRIC INTUBATION. Critical Care Medicine, 2018, 46, 247-247.	0.9	0
76	251. Critical Care Medicine, 2019, 47, 107.	0.9	0
77	Preliminary Studies Towards the Examination of Hypoxiaâ€related Transcriptional Regulation of Ryanodine Receptor Activity in Pulmonary Arteries of Fetal and Newborn Sheep. FASEB Journal, 2021, 35, .	0.5	0
78	The role of calciumâ€activated chloride channels to serotoninâ€mediated pulmonary arterial tone is influenced by postnatal maturation. FASEB Journal, 2009, 23, 999.1.	0.5	0
79	Bradykininâ€induced pulmonary vasorelaxation is modified by long term hypoxia and postnatal maturation in sheep. FASEB Journal, 2013, 27, 1140.7.	0.5	0
80	Underdeveloped bradykininâ€dependent vasorelaxation in immature pulmonary arteries from long term hypoxic sheep is not due to loss of cGMP signaling. FASEB Journal, 2013, 27, 1140.5.	0.5	0
81	Pulmonary arterial vasoreactivity changes due to the birth transition and the influence of high altitude gestation in lambs. FASEB Journal, 2020, 34, 1-1.	0.5	0
82	H2S increases blood pressure via production of HSâ€¢ radical in blood. Free Radical Biology and Medicine, 2022, 180, s49.	2.9	0
83	Quantitative susceptibility mapping as a measure of cerebral oxygenation in neonatal piglets. Journal of Cerebral Blood Flow and Metabolism, 2021, , 0271678X2110651.	4.3	0
84	Renal functional, transcriptome, and methylome adaptations in pregnant Sprague Dawley and Brown Norway rats. PLoS ONE, 2022, 17, e0269792.	2.5	0