John D E Barks

List of Publications by Year
in descending order

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55 papers	2,357 citations	201658 27 h-index	206102 48 g-index
56 all docs	56 docs citations	56 times ranked	2473 citing authors

#	Article	IF	Citations
1	Effect of Depth and Duration of Cooling on Death or Disability at Age 18 Months Among Neonates With Hypoxic-Ischemic Encephalopathy. JAMA - Journal of the American Medical Association, 2017, 318, 57.	7.4	184
2	NIH Consensus Development Conference Statement: Inhaled Nitric-Oxide Therapy for Premature Infants. Pediatrics, 2011, 127, 363-369.	2.1	183
3	Mice Deficient in Interleukin-1 Converting Enzyme are Resistant to Neonatal Hypoxic-Ischemic Brain Damage. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1099-1108.	4.3	161
4	Therapeutic Hypothermia Changes the Prognostic Value of Clinical Evaluation of Neonatal Encephalopathy. Journal of Pediatrics, 2008, 152, 55-58.e1.	1.8	144
5	Pathogenesis of hypoxic-ischemic cerebral injury in the term infant: current concepts. Clinics in Perinatology, 2002, 29, 585-602.	2.1	110
6	Hypoxic-Ischemic Oligodendroglial Injury in Neonatal Rat Brain. Pediatric Research, 2002, 51, 25-33.	2.3	108
7	New oligodendrocytes are generated after neonatal hypoxicâ€ischemic brain injury in rodents. Glia, 2004, 46, 380-390.	4.9	101
8	Phenobarbital Augments Hypothermic Neuroprotection. Pediatric Research, 2010, 67, 532-537.	2.3	82
9	Prenatally diagnosed severe CDH: mortality and morbidity remain high. Journal of Pediatric Surgery, 2016, 51, 1091-1095.	1.6	71
10	Hypoxia-ischemia produces focal disruption of glutamate receptors in developing brain. Developmental Brain Research, 1987, 34, 33-39.	1.7	67
11	The Platelet-Activating Factor Antagonist BN 52021 Attenuates Hypoxic-Ischemic Brain Injury in the Immature Rat. Pediatric Research, 1996, 40, 797-803.	2.3	66
12	An extracorporeal artificial placenta supports extremely premature lambs for 1week. Journal of Pediatric Surgery, 2015, 50, 44-49.	1.6	60
13	Population Pharmacokinetics of Phenobarbital in Infants With Neonatal Encephalopathy Treated With Therapeutic Hypothermia*. Pediatric Critical Care Medicine, 2013, 14, 194-202.	0.5	55
14	Pentoxifylline Attenuates Hypoxic-Ischemic Brain Injury in Immature Rats. Pediatric Research, 2000, 47, 73-73.	2.3	54
15	Neonatal Sleepâ€“Wake Analyses Predict 18-month Neurodevelopmental Outcomes. Sleep, 2017, 40, .	1.1	50
16	Impact of hands-on care on infant sleep in the neonatal intensive care unit. Pediatric Pulmonology, 2017, 52, 84-90.	2.0	47
17	Docosahexaenoic acid pretreatment confers neuroprotection in a rat model of perinatal cerebral hypoxia-ischemia. American Journal of Obstetrics and Gynecology, 2009, 200, 305.e1-305.e6.	1.3	46
18	Bumetanide augments the neuroprotective efficacy of phenobarbital plus hypothermia in a neonatal hypoxiaâ€“ischemia model. Pediatric Research, 2012, 71, 559-565.	2.3	45

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19	Can Lateralizing Sensorimotor Deficits Be Identified after Neonatal Cerebral Hypoxia-Ischemia in Rats?. Developmental Neuroscience, 2003, 25, 394-402.	2.0	44
20	Cooling for Neonatal Hypoxic Ischemic Encephalopathy: Do We Have the Answer?. Pediatrics, 2007, 120, 1126-1130.	2.1	41
21	Early Appearance of Functional Deficits after Neonatal Excitotoxic and Hypoxic-Ischemic Injury: Fragile Recovery after Development and Role of the NMDA Receptor. Developmental Neuroscience, 2002, 24, 418-425.	2.0	37
22	Current controversies in hypothermic neuroprotection. Seminars in Fetal and Neonatal Medicine, 2008, 13, 30-34.	2.3	33
23	Pulmonary Dysfunction and Therapeutic Hypothermia in Asphyxiated Newborns: Whole Body versus Selective Head Cooling. American Journal of Perinatology, 2009, 26, 265-270.	1.4	33
24	Limited short-term prognostic utility of cerebral NIRS during neonatal therapeutic hypothermia. Neurology, 2013, 81, 249-255.	1.1	33
25	An Evaluation of Cerebral and Systemic Predictors of 18-Month Outcomes for Neonates With Hypoxic Ischemic Encephalopathy. Journal of Child Neurology, 2015, 30, 1526-1531.	1.4	33
26	Screening Cranial Imaging at Multiple Time Points Improves Cystic Periventricular Leukomalacia Detection. American Journal of Perinatology, 2015, 32, 973-979.	1.4	33
27	Use of toxins to disrupt neurotransmitter circuitry in the developing brain. Progress in Brain Research, 1988, 73, 425-446.	1.4	29
28	Repurposing azithromycin for neonatal neuroprotection. Pediatric Research, 2019, 86, 444-451.	2.3	27
29	Platelet-Activating Factor Antagonist BN 50730 Attenuates Hypoxic-Ischemic Brain Injury in Neonatal Rats. Pediatric Research, 2001, 49, 804-811.	2.3	25
30	Plasticity of Neurons and Glia Following Neonatal Hypoxic-Ischemic Brain Injury in Rats. Neurochemical Research, 2007, 32, 331-342.	3.3	24
31	Comparing mortality risk models in VLBW and preterm infants: systematic review and meta-analysis. Journal of Perinatology, 2020, 40, 695-703.	2.0	24
32	Technical Aspects of Starting a Neonatal Cooling Program. Clinics in Perinatology, 2008, 35, 765-775.	2.1	22
33	Quantitative sleep stage analyses as a window to neonatal neurologic function. Neurology, 2014, 82, 390-395.	1.1	22
34	Maternal and neonatal characteristics following exposure to cocaine in Toronto. Reproductive Toxicology, 1993, 7, 619-622.	2.9	21
35	Treatment with docosahexaenoic acid after hypoxia-ischemia improves forepaw placing in a rat model of perinatal hypoxia-ischemia. American Journal of Obstetrics and Gynecology, 2010, 203, 385.e1-385.e5.	1.3	21
36	Giant Pulmonary Sequestration: The Rare Case Requiring the EXIT Procedure with Resection and ECMO. Fetal Diagnosis and Therapy, 2009, 25, 163-166.	1.4	20

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37	Outcome of Preterm Infants with Transient Cystic Periventricular Leukomalacia on Serial Cranial Imaging Up to Term Equivalent Age. Journal of Pediatrics, 2018, 195, 59-65.e3.	1.8	20
38	Maternal Voice and Infant Sleep in the Neonatal Intensive Care Unit. Pediatrics, 2019, 144, e20190288.	2.1	20
39	Sleep-Disordered Breathing among Newborns with Myelomeningocele. Journal of Pediatrics, 2018, 194, 244-247.e1.	1.8	18
40	Cerebral Oxygenation of Premature Lambs Supported by an Artificial Placenta. ASAIO Journal, 2018, 64, 552-556.	1.6	18
41	Docosahexaenoic acid confers neuroprotection in a rat model of perinatal hypoxia-ischemia potentiated by Escherichia coli lipopolysaccharide-induced systemic inflammation. American Journal of Obstetrics and Gynecology, 2010, 202, 469.e1-469.e6.	1.3	17
42	Impact of indolent inflammation on neonatal hypoxicâ€ischemic brain injury in mice. International Journal of Developmental Neuroscience, 2008, 26, 57-65.	1.6	16
43	Weaning of Moderately Preterm Infants from the Incubator to the Crib: A Randomized Clinical Trial. Journal of Pediatrics, 2019, 204, 96-102.e4.	1.8	16
44	Management of neonatal morbidities during hypothermia treatment. Seminars in Fetal and Neonatal Medicine, 2015, 20, 97-102.	2.3	15
45	Phenobarbital and neonatal seizures affect cerebral oxygen metabolism: a near-infrared spectroscopy study. Pediatric Research, 2015, 78, 91-96.	2.3	11
46	Maternal high-fat diet influences outcomes after neonatal hypoxic-ischemic brain injury in rodents. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 307-318.	4.3	10
47	Azithromycin reduces inflammation-amplified hypoxicâ€“ischemic brain injury in neonatal rats. Pediatric Research, 2022, 92, 415-423.	2.3	9
48	Subdural Hemorrhages Associated With Antithrombotic Therapy in Infants With Cerebral Atrophy. Pediatrics, 2014, 134, e889-e893.	2.1	8
49	The glutamate uptake inhibitorl-trans-2,4-pyrrolidine dicarboxylate is neurotoxic in neonatal rat brain. Molecular and Chemical Neuropathology, 1994, 23, 201-215.	1.0	6
50	Lateralized neonatal EEG coherence during sleep predicts language outcome. Pediatric Research, 2022, 91, 962-969.	2.3	6
51	Gestational exposure to high fat diets and bisphenol A alters metabolic outcomes in dams and offspring, but produces hepatic steatosis only in dams. Chemosphere, 2022, 286, 131645.	8.2	5
52	Sleep-Wake Cycling and Cerebral Oxygen Metabolism Among Critically Ill Neonates. Journal of Child Neurology, 2014, 29, 530-533.	1.4	4
53	Off-Label Use of Therapeutic Hypothermia for Infants with Hypoxic-Ischemic Encephalopathy. AMA Journal of Ethics, 2012, 14, 784-791.	0.7	2
54	A case of placental chorioangiomatosis and frontal horn cystic lesions. Can frontal horn cysts be symptomatic?. Journal of Neonatal-Perinatal Medicine, 2010, 3, 51-55.	0.8	0

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55	Beyond the Clinical Trials. Clinics in Perinatology, 2022, 49, 137-147.	2.1	0