Jon F Watchko

List of Publications by Year
in descending order

90 papers	3,020 citations	186265 28 h-index	168389 53 g-index
92 all docs	92 docs citations	92 times ranked	2113 citing authors

#	Article	IF	Citations
1	Hyperbilirubinemia in the Newborn Infant â‰¥35 Weeksâ€™ Gestation: An Update With Clarifications. Pediatrics, 2009, 124, 1193-1198.	2.1	415
2	Bilirubin-Induced Neurologic Damage â€" Mechanisms and Management Approaches. New England Journal of Medicine, 2013, 369, 2021-2030.	27.0	284
3	A Novel Perspective on the Biology of Bilirubin in Health and Disease. Trends in Molecular Medicine, 2016, 22, 758-768.	6.7	147
4	Kernicterus and the Molecular Mechanisms of Bilirubin-Induced CNS Injury in Newborns. NeuroMolecular Medicine, 2006, 8, 513-530.	3.4	122
5	Recurrence of kernicterus in term and nearâ€term infants in Denmark. Acta Paediatrica, International Journal of Paediatrics, 2001, 90, 1080-1080.	1.5	108
6	Full Functional Rescue of a Complete Muscle (TA) in Dystrophic Hamsters by Adeno-Associated Virus Vector-Directed Gene Therapy. Journal of Virology, 2000, 74, 1436-1442.	3.4	97
7	The Neurological Sequelae of Neonatal Hyperbilirubinemia: Definitions, Diagnosis and Treatment of the Kernicterus Spectrum Disorders (KSDs). Current Pediatric Reviews, 2017, 13, 199-209.	0.8	96
8	Functional characteristics of dystrophic skeletal muscle: insights from animal models. Journal of Applied Physiology, 2002, 93, 407-417.	2.5	94
9	Hyperbilirubinemia and Bilirubin Toxicity in the Late Preterm Infant. Clinics in Perinatology, 2006, 33, 839-852.	2.1	77
10	Brain Bilirubin Content Is Increased in P-Glycoprotein-Deficient Transgenic Null Mutant Mice. Pediatric Research, 1998, 44, 763-766.	2.3	74
11	Magnetic resonance imaging of bilirubin encephalopathy: Current limitations and future promise. Seminars in Perinatology, 2014, 38, 422-428.	2.5	73
12	Bilirubin-Induced Neurotoxicity in the Preterm Neonate. Clinics in Perinatology, 2016, 43, 297-311.	2.1	69
13	Complex Multifactorial Nature of Significant Hyperbilirubinemia in Neonates. Pediatrics, 2009, 124, e868-e877.	2.1	66
14	Exploring the genetic architecture of neonatal hyperbilirubinemia. Seminars in Fetal and Neonatal Medicine, 2010, 15, 169-175.	2.3	64
15	Measurements of pulmonary mechanics prior to the elective extubation of neonates. Pediatric Pulmonology, 1990, 9, 238-243.	2.0	63
16	Prevalence and lack of clinical significance of blood group incompatibility in mothers with blood type A or B. Journal of Pediatrics, 1994, 125, 87-91.	1.8	61
17	It is time to reconsider the risks of transfusing RhD negative females of childbearing potential with RhD positive red blood cells in bleeding emergencies. Transfusion, 2019, 59, 3794-3799.	1.6	60
18	Understanding neonatal hyperbilirubinaemia in the era of genomics. Seminars in Fetal and Neonatal Medicine, 2002, 7, 143-152.	2.7	57

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19	Identification of Neonates at Risk for Hazardous Hyperbilirubinemia: Emerging Clinical Insights. Pediatric Clinics of North America, 2009, 56, 671-687.	1.8	53
20	The enigma of low bilirubin kernicterus in premature infants: Why does it still occur, and is it preventable?. Seminars in Perinatology, 2014, 38, 397-406.	2.5	53
21	Coexpression of Gene Polymorphisms Involved in Bilirubin Production and Metabolism. Pediatrics, 2008, 122, e156-e162.	2.1	49
22	NEONATAL SENSORINEURAL HEARING LOSS ASSOCIATED WITH FUROSEMIDE: A CASEâ€CONTROL STUDY. Developmental Medicine and Child Neurology, 1991, 33, 816-823.	2.1	48
23	Vigintiphobia Revisited. Pediatrics, 2005, 115, 1747-1753.	2.1	45
24	Recurrence of kernicterus in term and near-term infants in Denmark. Acta Paediatrica, International Journal of Paediatrics, 2000, 89, 1213-1217.	1.5	43
25	P-Glycoprotein and Bilirubin Disposition. Journal of Perinatology, 2001, 21, S43-S47.	2.0	40
26	Hyperbilirubinemia in African American neonates: clinical issues and current challenges. Seminars in Fetal and Neonatal Medicine, 2010, 15, 176-182.	2.3	36
27	Combined myofibrillar and mitochondrial creatine kinase deficiency impairs mouse diaphragm isotonic function. Journal of Applied Physiology, 1997, 82, 1416-1423.	2.5	34
28	Genetics and the Risk of Neonatal Hyperbilirubinemia: Commentary on the article by Huang et al. on page 682. Pediatric Research, 2004, 56, 677-678.	2.3	28
29	Calculated In Vivo Free Bilirubin Levels in the Central Nervous System of Gunn Rat Pups. Pediatric Research, 2006, 60, 44-49.	2.3	28
30	Enduring controversies in the management of hyperbilirubinemia in preterm neonates. Seminars in Fetal and Neonatal Medicine, 2010, 15, 136-140.	2.3	28
31	Lipid peroxidation is not the primary mechanism of bilirubin-induced neurologic dysfunction in jaundiced Gunn rat pups. Pediatric Research, 2012, 72, 455-459.	2.3	27
32	Magnetic Resonance Imaging Abnormalities in Advanced Acute Bilirubin Encephalopathy Highlight Dentato-Thalamo-Cortical Pathways. Journal of Pediatrics, 2016, 174, 260-263.	1.8	27
33	Identification of risk for neonatal haemolysis. Acta Paediatrica, International Journal of Paediatrics, 2018, 107, 1350-1356.	1.5	27
34	Creatine Kinase Activity in Rat Skeletal Muscle Relates to Myosin Phenotype during Development. Pediatric Research, 1996, 40, 53-58.	2.3	26
35	Neonatal Hyperbilirubinemia â€" What Are the Risks?. New England Journal of Medicine, 2006, 354, 1947-1949.	27.0	24
36	Postnatal expression of myosin lsoforms in the genioglossus and diaphragm muscles.. Pediatric Pulmonology, 1993, 15, 212-219.	2.0	22

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37	Prevalence of Hypoalbuminemia and Elevated Bilirubin/Albumin Ratios in a Large Cohort of Infants in the Neonatal Intensive Care Unit. Journal of Pediatrics, 2017, 188, 280-286.e4.	1.8	21
38	Enhancement of Adult Muscle Regeneration by Primary Myoblast Transplantation. Cell Transplantation, 2000, 9, 369-377.	2.5	20
39	Combating the Hidden Health Disparity of Kernicterus in Black Infants. JAMA Pediatrics, 2020, 174, 1199.	6.2	20
40	Absence of myofibrillar creatine kinase and diaphragm isometric function during repetitive activation. Journal of Applied Physiology, 1998, 84, 1166-1173.	2.5	19
41	Apnea in acute bilirubin encephalopathy. Seminars in Perinatology, 2014, 38, 407-411.	2.5	19
42	Sex-Specific Regional Brain Bilirubin Content in Hyperbilirubinemic Gunn Rat Pups. Neonatology, 2006, 90, 40-45.	2.0	18
43	Common Hematologic Problems in the Newborn Nursery. Pediatric Clinics of North America, 2015, 62, 509-524.	1.8	18
44	Myofibrillar or mitochondrial creatine kinase deficiency alone does not impair mouse diaphragm isotonic function. Journal of Applied Physiology, 2000, 88, 973-980.	2.5	17
45	Bilirubin Concentrations in Jaundiced Neonates with Conjunctival Icterus. Journal of Pediatrics, 2015, 167, 840-844.	1.8	15
46	A Hypothesis for Using Pathway Genetic Load Analysis for Understanding Complex Outcomes in Bilirubin Encephalopathy. Frontiers in Neuroscience, 2016, 10, 376.	2.8	14
47	Maternal Empowerment â€“ an underutilized strategy to prevent kernicterus?. Current Pediatric Reviews, 2017, 13, 210-219.	0.8	12
48	Effect of chronic denervation and denervation-reinnervation on cytoplasmic creatine kinase transcript accumulation. Journal of Neurobiology, 2001, 47, 194-206.	3.6	10
49	Alteration in myosatellite cell commitment with muscle maturation. , 1998, 211, 141-152.		9
50	Screening for Glucose-6-Phosphate Dehydrogenase Deficiency in Newbornsâ€”Practical Considerations. Journal of Pediatrics, 2012, 161, 179-180.	1.8	9
51	Are the neuromotor disabilities of bilirubin-induced neurologic dysfunction disorders related to the cerebellum and its connections?. Seminars in Fetal and Neonatal Medicine, 2015, 20, 47-51.	2.3	9
52	Coordinating Care Across the Perinatal Continuum in Hemolytic Disease ofÂthe Fetus and Newborn: The Timely Handoff of a Positive Maternal Anti-Erythrocyte Antibody Screen. Journal of Pediatrics, 2019, 214, 212-216.	1.8	9
53	Rat Diaphragm Oxidative Capcity, Antioxidant Enzymes, and Fatigue: Newborn versus Adult. Pediatric Research, 1997, 42, 60-65.	2.3	9
54	Genetics and Pediatric Unconjugated Hyperbilirubinemia. Journal of Pediatrics, 2013, 162, 1092-1094.	1.8	8

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55	Neonatal Indirect Hyperbilirubinemia and Kernicterus. , 2012, , 1123-1142.		7
56	Refractory Causes of Kernicterus in Developed Countries: Can We Eradicate G6PD Deficiency Triggered and Low-Bilirubin Kernicterus?. Current Pediatric Reviews, 2017, 13, 159-168.	0.8	7
57	Genioglossal recruitment during acute hypoxia and hypercapnia in kittens. Pediatric Pulmonology, 1989, 7, 235-243.	2.0	6
58	Ventilatory pump failure in premature newborns. Pediatric Pulmonology, 1994, 17, 231-233.	2.0	6
59	Neonatal Indirect Hyperbilirubinemia and Kernicterus. , 2018, , 1198-1218.e5.		6
60	Recruitment of intercostal muscle activity during hypercapnia in kittens. Pediatric Pulmonology, 1988, 5, 215-219.	2.0	5
61	Regional Distribution of Myosin Heavy Chain Isoforms in Rib Cage Muscles as a Function of Postnatal Development. Pediatric Pulmonology, 1993, 16, 289-296.	2.0	5
62	Bilirubin Induced Apoptosis In Vitro: Insights for Kernicterus: Commentary on the article by HankÃ¸ et al. on page 179. Pediatric Research, 2005, 57, 177-178.	2.3	5
63	TcB, FFR, phototherapy and the persistent occurrence of kernicterus spectrum disorder. Journal of Perinatology, 2020, 40, 177-179.	2.0	5
64	Ventilatory failure during resistive loaded breathing in the newborn primate. , 1998, 26, 312-318.		4
65	Need to clarify the cause of hemolysis in case report of newborn with clinically significant hemolytic disease and passive transfer of antiâ€<scp>D</scp> from maternal <scp>RhIG</scp>. Transfusion, 2014, 54, 3017-3018.	1.6	4
66	Early Lipid Infusions and Unbound Bilirubin in Preterm Neonates: A Cause for Concern?. Journal of Pediatrics, 2017, 184, 6-7.	1.8	4
67	Emergency release uncross-matched packed red blood cells for immediate double volume exchange transfusion in neonates with intermediate to advanced acute bilirubin encephalopathy: timely but insufficient?. Journal of Perinatology, 2018, 38, 947-953.	2.0	4
68	Management of severe hyperbilirubinemia in the cholestatic neonate: a review and an approach. Journal of Perinatology, 2022, 42, 695-701.	2.0	4
69	Quantitative ADC in bilirubin encephalopathy. Japanese Journal of Radiology, 2013, 31, 299-300.	2.4	3
70	Measurement of Circulating Unbound Bilirubin: Will It Ever Be aÂPart of Routine Neonatal Care?. Journal of Pediatrics, 2016, 173, 6-7.	1.8	3
71	Maternal Instruction on Neonatal Jaundice: What Can we Learn from the Stop Kernicterus in Nigeria (SKIN) Experience?. Journal of Pediatrics, 2020, 221, 7-8.	1.8	3
72	Neonatal hyperbilirubinemia and bilirubin neurotoxicity: what can be learned from the database analysis?. Pediatric Research, 2022, 92, 1204-1204.	2.3	3

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73	External intercostal muscle activity during acute hypoxia in the kitten. Pediatric Pulmonology, 1990, 9, 233-237.	2.0	2
74	50 Years Ago in The Journal of Pediatrics. Journal of Pediatrics, 2014, 165, 64.	1.8	2
75	P-glycoprotein in the developing human bloodâ€“brain barrier. Pediatric Research, 2016, 79, 806-806.	2.3	2
76	Improving postâ€discharge neonatal surveillance for the jaundiced newborn. Acta Paediatrica, International Journal of Paediatrics, 2020, 109, 872-873.	1.5	2
77	Hemolytic Disease of the Fetus and Newborn. , 2021, , 133-154.		2
78	Costal and crural diaphragm, and intercostal and genioglossal electromyogram activities during spontaneous augmented breaths (sighs) in kittens. Pediatric Pulmonology, 1989, 7, 94-100.	2.0	1
79	What Causes Increased Expression of VEGF and VEGF-R in a Case Report? Comment on: â€œNew Autopsy Findings in Different Brain Regions of a Preterm Neonate With Kernicterus: Neurovascular Alterations and Up-regulation ofÂEfflux Transportersâ€. Pediatric Neurology, 2014, 50, e17.	2.1	1
80	Extreme Neonatal Hyperbilirubinemia: A View from Down Under. Journal of Pediatrics, 2016, 168, 7-9.	1.8	1
81	Conjunctival Icterus â€“ An Important but Neglected Sign of Clinically Relevant Hyperbilirubinemia in Jaundiced Neonates. Current Pediatric Reviews, 2017, 13, 169-175.	0.8	1
82	Avoiding Harm From Hyperbilirubinemia Screening. JAMA Pediatrics, 2019, 173, 1209.	6.2	1
83	Treatment of Hyperbilirubinemia. , 2012, , 629-640.		0
84	Introduction. Seminars in Perinatology, 2014, 38, 395-396.	2.5	0
85	Treatment of Hyperbilirubinemia in Newborns. , 2016, , 1-22.		0
86	Low bilirubin kernicterus in OTC deficiency. Neuropathology, 2018, 38, 110-110.	1.2	0
87	Treatment of Hyperbilirubinemia in Newborns. , 2018, , 1185-1206.		0
88	50 Years Ago in T J P. Journal of Pediatrics, 2020, 216, 108.	1.8	0
89	The Enigma of Preterm Late Hyperbilirubinemia Kernicterus in Japan. Neonatology, 2021, 118, 1-2.	2.0	0
90	Exchange transfusion in Rh haemolytic disease. Vox Sanguinis, 2022, 117, 146-146.	1.5	0