Michael O'Shea

List of Publications by Year
in descending order

126	3,700	159585 30	182427 51
papers	citations	h-index	g-index

137	137	137	3857
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heart Rate Characteristics: Novel Physiomarkers to Predict Neonatal Infection and Death. Pediatrics, 2005, 116, 1070-1074.	2.1	184
2	Microbiologic and Histologic Characteristics of the Extremely Preterm Infant's Placenta Predict White Matter Damage and Later Cerebral Palsy. The ELGAN Study. Pediatric Research, 2010, 67, 95-101.	2.3	167
3	Patterns of psychological distress in mothers of preterm infants. , 2015, 41, 154-163.		141
4	Heart Rate Characteristics and Clinical Signs in Neonatal Sepsis. Pediatric Research, 2007, 61, 222-227.	2.3	130
5	Septicemia mortality reduction in neonates in a heart rate characteristics monitoring trial. Pediatric Research, 2013, 74, 570-575.	2.3	126
6	Maternally administered interventions for preterm infants in the NICU: Effects on maternal psychological distress and motherâ€“infant relationship. , 2014, 37, 695-710.		106
7	Elevated blood levels of inflammation-related proteins are associated with an attention problem at age 24 mo in extremely preterm infants. Pediatric Research, 2014, 75, 781-787.	2.3	105
8	The Relationship between Early Concentrations of 25 Blood Proteins and Cerebral White Matter Injury in Preterm Newborns: The ELGAN Study. Journal of Pediatrics, 2011, 158, 897-903.e5.	1.8	102
9	Two-hit model of brain damage in the very preterm newborn: small for gestational age and postnatal systemic inflammation. Pediatric Research, 2013, 73, 362-370.	2.3	99
10	Intraventricular Hemorrhage and Developmental Outcomes at 24 Months of Age in Extremely Preterm Infants. Journal of Child Neurology, 2012, 27, 22-29.	1.4	97
11	Sexual epigenetic dimorphism in the human placenta: implications for susceptibility during the prenatal period. Epigenomics, 2017, 9, 267-278.	2.1	94
12	Cerebral palsy in very preterm infants: new epidemiological insights. Mental Retardation and Developmental Disabilities Research Reviews, 2002, 8, 135-145.	3.6	88
13	The Breadth and Type of Systemic Inflammation and the Risk of Adverse Neurological Outcomes in Extremely Low Gestation Newborns. Pediatric Neurology, 2015, 52, 42-48.	2.1	82
14	Systemic Inflammation and Cerebral Palsy Risk in Extremely Preterm Infants. Journal of Child Neurology, 2014, 29, 1692-1698.	1.4	75
15	Early postnatal blood concentrations of inflammation-related proteins and microcephaly two years later in infants born before the 28th post-menstrual week. Early Human Development, 2011, 87, 325-330.	1.8	73
16	Systemic inflammation on postnatal days 21 and 28 and indicators of brain dysfunction 2years later among children born before the 28th week of gestation. Early Human Development, 2016, 93, 25-32.	1.8	58
17	Follow-up of a Randomized, Placebo-Controlled Trial of Dexamethasone to Decrease the Duration of Ventilator Dependency in Very Low Birth Weight Infants: Neurodevelopmental Outcomes at 4 to 11 Years of Age. Pediatrics, 2007, 120, 594-602.	2.1	56
18	Both antenatal and postnatal inflammation contribute information about the risk of brain damage in extremely preterm newborns. Pediatric Research, 2017, 82, 691-696.	2.3	54

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19	Neurodevelopment at Age 10 Years of Children Born <28 Weeks With Fetal Growth Restriction. Pediatrics, 2017, 140, .	2.1	54
20	The clustering of disorders in infants born before the 28th week of gestation. Acta Paediatrica, International Journal of Paediatrics, 2010, 99, 1795-1800.	1.5	51
21	Neurocognitive Outcomes at 10 Years of Age in Extremely Preterm Newborns with Late-Onset Bacteremia. Journal of Pediatrics, 2017, 187, 43-49.e1.	1.8	51
22	Systemic Inflammation, Intraventricular Hemorrhage, and White Matter Injury. Journal of Child Neurology, 2013, 28, 1637-1645.	1.4	50
23	Epigenome-wide DNA methylation in placentas from preterm infants: association with maternal socioeconomic status. Epigenetics, 2019, 14, 751-765.	2.7	50
24	Maternal Race, Demography, and Health Care Disparities Impact Risk for Intraventricular Hemorrhage in Preterm Neonates. Journal of Pediatrics, 2014, 164, 1005-1011.e3.	1.8	49
25	Renal function and blood pressure are altered in adolescents born preterm. Pediatric Nephrology, 2019, 34, 137-144.	1.7	49
26	Magnetic resonance and ultrasound brain imaging in preterm infants. Early Human Development, 2005, 81, 263-271.	1.8	44
27	Systemic responses of preterm newborns with presumed or documented bacteraemia. Acta Paediatrica, International Journal of Paediatrics, 2012, 101, 355-359.	1.5	43
28	Epigenome-wide Analysis Identifies Genes and Pathways Linked to Neurobehavioral Variation in Preterm Infants. Scientific Reports, 2019, 9, 6322.	3.3	43
29	Cerebral Palsy. Seminars in Perinatology, 2008, 32, 35-41.	2.5	40
30	Delivery After Previous Cesarean: Long-Term Outcomes in the Child. Seminars in Perinatology, 2010, 34, 281-292.	2.5	37
31	Acetaminophen use during pregnancy and DNA methylation in the placenta of the extremely low gestational age newborn (ELGAN) cohort. Environmental Epigenetics, 2019, 5, dvz010.	1.8	34
32	Obesity is Associated with Higher Blood Pressure and Higher Levels of Angiotensin II but Lower Angiotensin-(1-7) in Adolescents Born Preterm. Journal of Pediatrics, 2019, 205, 55-60.e1.	1.8	34
33	Retinopathy of prematurity and brain damage in the very preterm newborn. Journal of AAPOS, 2014, 18, 241-247.	0.3	33
34	Duration of Systemic Inflammation in the First Postnatal Month Among Infants Born Before the 28th Week of Gestation. Inflammation, 2016, 39, 672-677.	3.8	33
35	Gastroesophageal Reflux in Very Low Birth Weight Infants: Association With Chronic Lung Disease and Outcomes Through 1 Year of Age. Journal of Perinatology, 2000, 20, 235-239.	2.0	31
36	Antenatal corticosteroids and the renin-angiotensin-aldosterone system in adolescents born preterm. Pediatric Research, 2017, 81, 88-93.	2.3	30

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37	Elevated Endogenous Erythropoietin Concentrations Are Associated with Increased Risk of Brain Damage in Extremely Preterm Neonates. PLoS ONE, 2015, 10, e0115083.	2.5	29
38	RELIABILITY OF INTERPRETATION OF CRANIAL ULTRASOUND EXAMINATIONS OF VERY LOWâ€BIRTHWEIGHT NEONATES. Developmental Medicine and Child Neurology, 1993, 35, 97-101.	2.1	28
39	Cumulative Incidence of Seizures and Epilepsy in Ten-Year-Old Children Born Before 28ÂWeeks' Gestation. Pediatric Neurology, 2017, 73, 13-19.	2.1	26
40	Genetic and epigenetic factors and early life inflammation as predictors of neurodevelopmental outcomes. Seminars in Fetal and Neonatal Medicine, 2020, 25, 101115.	2.3	26
41	Evidence for the placenta-brain axis: multi-omic kernel aggregation predicts intellectual and social impairment in children born extremely preterm. Molecular Autism, 2020, 11, 97.	4.9	26
42	Placental CpG methylation of infants born extremely preterm predicts cognitive impairment later in life. PLoS ONE, 2018, 13, e0193271.	2.5	26
43	Antecedents of Screening Positive for Attention Deficit Hyperactivity Disorder in Ten-Year-Old Children Born Extremely Preterm. Pediatric Neurology, 2018, 81, 25-30.	2.1	25
44	The risk of neurodevelopmental disorders at age 10â€¯years associated with blood concentrations of interleukins 4 and 10 during the first postnatal month of children born extremely preterm. Cytokine, 2018, 110, 181-188.	3.2	25
45	Placental programming, perinatal inflammation, and neurodevelopment impairment among those born extremely preterm. Pediatric Research, 2021, 89, 326-335.	2.3	25
46	Microorganisms in the Placenta: Links to Early-Life Inflammation and Neurodevelopment in Children. Clinical Microbiology Reviews, 2019, 32, .	13.6	24
47	Psychosocial and medical adversity associated with neonatal neurobehavior in infants born before 30 weeks gestation. Pediatric Research, 2020, 87, 721-729.	2.3	24
48	Extreme prematurity and attention deficit: epidemiology and prevention. Frontiers in Human Neuroscience, 2013, 7, 578.	2.0	23
49	Neonatal Intensive Care Unit Length of Stay Reduction by Heart Rate Characteristics Monitoring. Journal of Pediatrics, 2018, 198, 162-167.	1.8	23
50	Antecedents of Obesity Among Children Born Extremely Preterm. Pediatrics, 2018, 142, .	2.1	23
51	Associations between placental CpG methylation of metastable epialleles and childhood body mass index across ages one, two and ten in the Extremely Low Gestational Age Newborns (ELGAN) cohort. Epigenetics, 2019, 14, 1102-1111.	2.7	22
52	Sociodemographic and medical influences on neurobehavioral patterns in preterm infants: A multi-center study. Early Human Development, 2020, 142, 104954.	1.8	22
53	Pharmacokinetics and safety of a single intravenous dose of myo-inositol in preterm infants of 23â€“29 wk. Pediatric Research, 2013, 74, 721-729.	2.3	21
54	Weight Status in the First 2 Years of Life and Neurodevelopmental Impairment in Extremely Low Gestational Age Newborns. Journal of Pediatrics, 2016, 168, 30-35.e2.	1.8	20

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55	Social Responsiveness Scale Assessment of the Preterm Behavioral Phenotype in 10-Year-Olds Born Extremely Preterm. Journal of Developmental and Behavioral Pediatrics, 2017, 38, 697-705.	1.1	20
56	Placental CpG Methylation of Inflammation, Angiogenic, and Neurotrophic Genes and Retinopathy of Prematurity. , 2019, 60, 2888.		20
57	Albuminuria, Hypertension, and Reduced Kidney Volumes in Adolescents Born Extremely Premature. Frontiers in Pediatrics, 2020, 8, 230.	1.9	20
58	Placental genomics mediates genetic associations with complex health traits and disease. Nature Communications, 2022, 13, 706.	12.8	20
59	Antibodies to Tumor Necrosis Factor-Î±: Use as Adjunctive Therapy in Established Group B Streptococcal Disease in Newborn Rats. Pediatric Research, 1995, 38, 551-554.	2.3	19
60	Follow-up Care for Infants With Chronic Lung Disease: A Randomized Comparison of Community- and Center-Based Models. Pediatrics, 2007, 119, e947-e957.	2.1	19
61	Microorganisms in the human placenta are associated with altered CpG methylation of immune and inflammation-related genes. PLoS ONE, 2017, 12, e0188664.	2.5	19
62	A role for microRNAs in the epigenetic control of sexually dimorphic gene expression in the human placenta. Epigenomics, 2020, 12, 1543-1558.	2.1	18
63	Mortality and Neurodevelopmental Outcomes in the Heart Rate Characteristics Monitoring Randomized Controlled Trial. Journal of Pediatrics, 2020, 219, 48-53.	1.8	18
64	Genomic biomarkers of prenatal intrauterine inflammation in umbilical cord tissue predict later life neurological outcomes. PLoS ONE, 2017, 12, e0176953.	2.5	18
65	Antenatal and Early Postnatal Antecedents of Parent-Reported Attention Problems at 2ÂYears of Age. Journal of Pediatrics, 2015, 166, 20-25.e1.	1.8	17
66	Association of Circulating Proinflammatory and Anti-inflammatory Protein Biomarkers in Extremely Preterm Born Children with Subsequent Brain Magnetic Resonance Imaging Volumes and Cognitive Function at Age 10 Years. Journal of Pediatrics, 2019, 210, 81-90.e3.	1.8	17
67	Maternal obesity and development of the preterm newborn at 2Âyears. Acta Paediatrica, International Journal of Paediatrics, 2015, 104, 900-903.	1.5	16
68	Elevated protein concentrations in newborn blood and the risks of autism spectrum disorder, and of social impairment, at age 10 years among infants born before the 28th week of gestation. Translational Psychiatry, 2018, 8, 115.	4.8	16
69	Early Postnatal IGF-1 and IGFBP-1 Blood Levels in Extremely Preterm Infants: Relationships with Indicators of Placental Insufficiency and with Systemic Inflammation. American Journal of Perinatology, 2019, 36, 1442-1452.	1.4	16
70	Executive Dysfunction Early Postnatal Biomarkers among Children Born Extremely Preterm. Journal of NeuroImmune Pharmacology, 2019, 14, 188-199.	4.1	16
71	Randomized Controlled Trial of Early Enteral Fat Supplement and Fish Oil to Promote Intestinal Adaptation in Premature Infants with an Enterostomy. Journal of Pediatrics, 2014, 165, 274-279.e1.	1.8	15
72	Antecedents and early correlates of high and low concentrations of angiogenic proteins in extremely preterm newborns. Clinica Chimica Acta, 2017, 471, 1-5.	1.1	15

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73	Maternal obesity and attention-related symptoms in the preterm offspring. Early Human Development, 2017, 115, 9-15.	1.8	15
74	Extreme prematurity: Risk and resiliency. Current Problems in Pediatric and Adolescent Health Care, 2022, 52, 101132.	1.7	15
75	Antecedents of inflammation biomarkers in preterm newborns on days 21 and 28. Acta Paediatrica, International Journal of Paediatrics, 2016, 105, 274-280.	1.5	14
76	Neonatal systemic inflammation and the risk of low scores on measures of reading and mathematics achievement at age 10 years among children born extremely preterm. International Journal of Developmental Neuroscience, 2018, 66, 45-53.	1.6	13
77	Among Children Born Extremely Preterm a Higher Level of Circulating Neurotrophins Is Associated with Lower Risk of Cognitive Impairment at School Age. Journal of Pediatrics, 2018, 201, 40-48.e4.	1.8	13
78	Analysis of Early-Life Growth and Age at Pubertal Onset in US Children. JAMA Network Open, 2022, 5, e2146873.	5.9	13
79	Preterm Birth Is Associated with Higher Uric Acid Levels in Adolescents. Journal of Pediatrics, 2015, 167, 76-80.	1.8	12
80	Elevations of inflammatory proteins in neonatal blood are associated with obesity and overweight among 2-year-old children born extremely premature. Pediatric Research, 2018, 83, 1110-1119.	2.3	12
81	Novel diffuse white matter abnormality biomarker at term-equivalent age enhances prediction of long-term motor development in very preterm children. Scientific Reports, 2020, 10, 15920.	3.3	12
82	Socioeconomic status and early blood concentrations of inflammation-related and neurotrophic proteins among extremely preterm newborns. PLoS ONE, 2019, 14, e0214154.	2.5	11
83	Association of circulating uric acid and angiotensin-(1â€“7) in relation to higher blood pressure in adolescents and the influence of preterm birth. Journal of Human Hypertension, 2020, 34, 818-825.	2.2	11
84	Are preterm newborns who have relative hyperthyrotropinemia at increased risk of brain damage?. Journal of Pediatric Endocrinology and Metabolism, 2014, 27, 1077-88.	0.9	10
85	Are Extremely Low Gestational Age Newborns Born to Obese Women at Increased Risk of Cerebral Palsy at 2 Years?. Journal of Child Neurology, 2018, 33, 216-224.	1.4	10
86	Maternal tobacco smoking and offspring autism spectrum disorder or traits in <scp>ECHO</scp> cohorts. Autism Research, 2022, 15, 551-569.	3.8	10
87	Definition and classification of cerebral palsy - an epidemiologist perspective. Developmental Medicine and Child Neurology, 2007, 49, 29-30.	2.1	9
88	Apolipoprotein E genotype and outcome in infants with hypoxicâ€“ischemic encephalopathy. Pediatric Research, 2014, 75, 424-430.	2.3	9
89	Neurocognitive and Health Correlates of Overweight and Obesity among Ten-Year-Old Children Born Extremely Preterm. Journal of Pediatrics, 2018, 200, 84-90.e4.	1.8	9
90	Neurocognitive and social-communicative function of children born very preterm at 10 years of age: Associations with microorganisms recovered from the placenta parenchyma. Journal of Perinatology, 2020, 40, 306-315.	2.0	9

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91	Pre-pregnancy BMI-associated miRNA and mRNA expression signatures in the placenta highlight a sexually-dimorphic response to maternal underweight status. Scientific Reports, 2021, 11, 15743.	3.3	9
92	Antenatal corticosteroids and cardiometabolic outcomes in adolescents born with very low birth weight. Pediatric Research, 2017, 82, 697-703.	2.3	8
93	Antenatal Steroid Exposure, Aerobic Fitness, and Physical Activity in Adolescents Born Preterm with Very Low Birth Weight. Journal of Pediatrics, 2019, 215, 98-106.e2.	1.8	7
94	A Consideration of Racism in Pediatric Epidemiologic Studies. Journal of Pediatrics, 2021, 239, 225-227.	1.8	7
95	Heart rate characteristics monitoring and reduction in mortality or neurodevelopmental impairment in extremely low birthweight infants with sepsis. Early Human Development, 2021, 159, 105419.	1.8	7
96	NEOage clocks - epigenetic clocks to estimate post-menstrual and postnatal age in preterm infants. Aging, 2021, 13, 23527-23544.	3.1	7
97	Association of Abnormal Findings on Neonatal Cranial Ultrasound With Neurobehavior at Neonatal Intensive Care Unit Discharge in Infants Born Before 30 Weeksâ€™ Gestation. JAMA Network Open, 2022, 5, e226561.	5.9	7
98	Psychiatric Outcomes, Functioning, and Participation in Extremely Low Gestational Age Newborns at Age 15 Years. Journal of the American Academy of Child and Adolescent Psychiatry, 2022, 61, 892-904.e2.	0.5	7
99	Hand Preference and Cognitive, Motor, and Behavioral Functioning in 10-Year-Old Extremely Preterm Children. Journal of Pediatrics, 2018, 195, 279-282.e3.	1.8	5
100	Antenatal and Neonatal Antecedents of Executive Dysfunctions in Extremely Preterm Children. Journal of Child Neurology, 2018, 33, 198-208.	1.4	5
101	Blood myo-inositol concentrations in preterm and term infants. Journal of Perinatology, 2021, 41, 247-254.	2.0	5
102	Anxiety and Depression Correlates at Age 10 in Children Born Extremely Preterm. Journal of Pediatric Psychology, 2021, 46, 422-432.	2.1	5
103	Happiness reconsidered in children with cerebral palsy. Lancet, The, 2007, 369, 2137-2138.	13.7	4
104	Factors Associated with Collaboration Among Agencies Serving Children with Complex Chronic Conditions. Maternal and Child Health Journal, 2013, 17, 1533-1540.	1.5	4
105	Epigenome-wide analysis identifies genes and pathways linked to acoustic cry variation in preterm infants. Pediatric Research, 2021, 89, 1848-1854.	2.3	4
106	Maternal social risk, gestational age at delivery, and cognitive outcomes among adolescents born extremely preterm. Paediatric and Perinatal Epidemiology, 2022, 36, 654-664.	1.7	4
107	Preschool Motor Skills Following Physical and Occupational Therapy Services Among Non-Disabled Very Low Birth Weight Children. Maternal and Child Health Journal, 2014, 18, 821-828.	1.5	3
108	Antenatal and neonatal antecedents of learning limitations in 10-year old children born extremely preterm. Early Human Development, 2018, 118, 8-14.	1.8	3

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109	Differential placental CpG methylation is associated with chronic lung disease of prematurity. Pediatric Research, 2022, 91, 1428-1435.	2.3	3
110	CpG methylation patterns in placenta and neonatal blood are differentially associated with neonatal inflammation. Pediatric Research, 2023, 93, 1072-1084.	2.3	3
111	Improved Filtering of Pulse Oximeter Monitoring Alarms in the Neonatal ICU: Bedside Significance. Respiratory Care, 2016, 61, 85-89.	1.6	2
112	Postnatal systemic inflammation and neuroâ€ophthalmologic dysfunctions in extremely low gestational age children. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 454-457.	1.5	2
113	Socioemotional dysfunctions at age 10â€¯years in extremely preterm newborns with late-onset bacteremia. Early Human Development, 2018, 121, 1-7.	1.8	2
114	Treatment for hypotension in the first 24 postnatal hours and the risk of hearing loss among extremely low birth weight infants. Journal of Perinatology, 2020, 40, 774-780.	2.0	2
115	Familiesâ€™ perspectives on monitoring infantsâ€™ health and development after discharge from NICUs. Pediatric Research, 2021, 89, 722-724.	2.3	2
116	Adherence to Car Seat Tolerance Screening Differs by Indication and Patient Characteristics. Maternal and Child Health Journal, 2021, 25, 1707-1716.	1.5	2
117	Factors Associated with Outpatient Therapy Utilization in Extremely Preterm Infants. American Journal of Perinatology, 2024, 41, 458-469.	1.4	2
118	CUE: CpG impUtation ensemble for DNA methylation levels across the human methylation450 (HM450) and EPIC (HM850) BeadChip platforms. Epigenetics, 2021, 16, 851-861.	2.7	1
119	Early growth outcomes in very low birth weight infants with bronchopulmonary dysplasia or fetal growth restriction. Pediatric Research, 2020, 88, 601-604.	2.3	1
120	Development of the genomic inflammatory index (GII) to assess key maternal antecedents associated with placental inflammation. Placenta, 2021, 111, 82-90.	1.5	1
121	Associations between maternal pre-pregnancy body mass index and neonatal neurobehavior in infants born before 30 weeks gestation. Journal of Perinatology, 2022, , .	2.0	1
122	Magnetic Resonance Biomarkers in Very Preterm Infants: Relationships to Perinatal Factors. Journal of Pediatrics, 2021, 233, 9-11.	1.8	0
123	Prenatal exposure to toxic and essential metal/metalloid mixtures is associated with placental genomic signatures. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
124	Prenatal Exposure to Toxic Metal Mixtures and Risk of Bacterial Sepsis in Extremely Low Gestational Age Newborns. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
125	Imaging the Newborn Brain. , 2010, , 141-200.		0
126	Authors' reply re: Prenatal tobacco smoke exposure and neurological impairment at 10Âyears of age among children born extremely preterm. BJOG: an International Journal of Obstetrics and Gynaecology, 2022, , .	2.3	0