

Michael O'Shea

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

3,700
citations

159358

30
h-index

182168

51
g-index

137
all docs

137
docs citations

137
times ranked

3857
citing authors

#	ARTICLE	IF	CITATIONS
1	Heart Rate Characteristics: Novel Physiometers to Predict Neonatal Infection and Death. <i>Pediatrics</i> , 2005, 116, 1070-1074.	1.0	184
2	Microbiologic and Histologic Characteristics of the Extremely Preterm Infant's Placenta Predict White Matter Damage and Later Cerebral Palsy. The ELGAN Study. <i>Pediatric Research</i> , 2010, 67, 95-101.	1.1	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. <i>Pediatric Research</i> , 2007, 61, 222-227.	1.1	130
5	Septicemia mortality reduction in neonates in a heart rate characteristics monitoring trial. <i>Pediatric Research</i> , 2013, 74, 570-575.	1.1	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. <i>Pediatric Research</i> , 2014, 75, 781-787.	1.1	105
8	The Relationship between Early Concentrations of 25 Blood Proteins and Cerebral White Matter Injury in Preterm Newborns: The ELGAN Study. <i>Journal of Pediatrics</i> , 2011, 158, 897-903.e5.	0.9	102
9	Two-hit model of brain damage in the very preterm newborn: small for gestational age and postnatal systemic inflammation. <i>Pediatric Research</i> , 2013, 73, 362-370.	1.1	99
10	Intraventricular Hemorrhage and Developmental Outcomes at 24 Months of Age in Extremely Preterm Infants. <i>Journal of Child Neurology</i> , 2012, 27, 22-29.	0.7	97
11	Sexual epigenetic dimorphism in the human placenta: implications for susceptibility during the prenatal period. <i>Epigenomics</i> , 2017, 9, 267-278.	1.0	94
12	Cerebral palsy in very preterm infants: new epidemiological insights. <i>Mental Retardation and Developmental Disabilities Research Reviews</i> , 2002, 8, 135-145.	3.5	88
13	The Breadth and Type of Systemic Inflammation and the Risk of Adverse Neurological Outcomes in Extremely Low Gestation Newborns. <i>Pediatric Neurology</i> , 2015, 52, 42-48.	1.0	82
14	Systemic Inflammation and Cerebral Palsy Risk in Extremely Preterm Infants. <i>Journal of Child Neurology</i> , 2014, 29, 1692-1698.	0.7	75
15	Early postnatal blood concentrations of inflammation-related proteins and microcephaly two years later in infants born before the 28th post-menstrual week. <i>Early Human Development</i> , 2011, 87, 325-330.	0.8	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. <i>Early Human Development</i> , 2016, 93, 25-32.	0.8	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. <i>Pediatrics</i> , 2007, 120, 594-602.	1.0	56
18	Both antenatal and postnatal inflammation contribute information about the risk of brain damage in extremely preterm newborns. <i>Pediatric Research</i> , 2017, 82, 691-696.	1.1	54

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19	Neurodevelopment at Age 10 Years of Children Born <28 Weeks With Fetal Growth Restriction. <i>Pediatrics</i> , 2017, 140, .	1.0	54
20	The clustering of disorders in infants born before the 28th week of gestation. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2010, 99, 1795-1800.	0.7	51
21	Neurocognitive Outcomes at 10 Years of Age in Extremely Preterm Newborns with Late-Onset Bacteremia. <i>Journal of Pediatrics</i> , 2017, 187, 43-49.e1.	0.9	51
22	Systemic Inflammation, Intraventricular Hemorrhage, and White Matter Injury. <i>Journal of Child Neurology</i> , 2013, 28, 1637-1645.	0.7	50
23	Epigenome-wide DNA methylation in placentas from preterm infants: association with maternal socioeconomic status. <i>Epigenetics</i> , 2019, 14, 751-765.	1.3	50
24	Maternal Race, Demography, and Health Care Disparities Impact Risk for Intraventricular Hemorrhage in Preterm Neonates. <i>Journal of Pediatrics</i> , 2014, 164, 1005-1011.e3.	0.9	49
25	Renal function and blood pressure are altered in adolescents born preterm. <i>Pediatric Nephrology</i> , 2019, 34, 137-144.	0.9	49
26	Magnetic resonance and ultrasound brain imaging in preterm infants. <i>Early Human Development</i> , 2005, 81, 263-271.	0.8	44
27	Systemic responses of preterm newborns with presumed or documented bacteraemia. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2012, 101, 355-359.	0.7	43
28	Epigenome-wide Analysis Identifies Genes and Pathways Linked to Neurobehavioral Variation in Preterm Infants. <i>Scientific Reports</i> , 2019, 9, 6322.	1.6	43
29	Cerebral Palsy. <i>Seminars in Perinatology</i> , 2008, 32, 35-41.	1.1	40
30	Delivery After Previous Cesarean: Long-Term Outcomes in the Child. <i>Seminars in Perinatology</i> , 2010, 34, 281-292.	1.1	37
31	Acetaminophen use during pregnancy and DNA methylation in the placenta of the extremely low gestational age newborn (ELGAN) cohort. <i>Environmental Epigenetics</i> , 2019, 5, dvz010.	0.9	34
32	Obesity is Associated with Higher Blood Pressure and Higher Levels of Angiotensin II but Lower Angiotensin-(1-7) in Adolescents Born Preterm. <i>Journal of Pediatrics</i> , 2019, 205, 55-60.e1.	0.9	34
33	Retinopathy of prematurity and brain damage in the very preterm newborn. <i>Journal of AAPOS</i> , 2014, 18, 241-247.	0.2	33
34	Duration of Systemic Inflammation in the First Postnatal Month Among Infants Born Before the 28th Week of Gestation. <i>Inflammation</i> , 2016, 39, 672-677.	1.7	33
35	Gastroesophageal Reflux in Very Low Birth Weight Infants: Association With Chronic Lung Disease and Outcomes Through 1 Year of Age. <i>Journal of Perinatology</i> , 2000, 20, 235-239.	0.9	31
36	Antenatal corticosteroids and the renin-angiotensin-aldosterone system in adolescents born preterm. <i>Pediatric Research</i> , 2017, 81, 88-93.	1.1	30

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37	Elevated Endogenous Erythropoietin Concentrations Are Associated with Increased Risk of Brain Damage in Extremely Preterm Neonates. <i>PLoS ONE</i> , 2015, 10, e0115083.	1.1	29
38	RELIABILITY OF INTERPRETATION OF CRANIAL ULTRASOUND EXAMINATIONS OF VERY LOW-BIRTHWEIGHT NEONATES. <i>Developmental Medicine and Child Neurology</i> , 1993, 35, 97-101.	1.1	28
39	Cumulative Incidence of Seizures and Epilepsy in Ten-Year-Old Children Born Before 28 Weeks' Gestation. <i>Pediatric Neurology</i> , 2017, 73, 13-19.	1.0	26
40	Genetic and epigenetic factors and early life inflammation as predictors of neurodevelopmental outcomes. <i>Seminars in Fetal and Neonatal Medicine</i> , 2020, 25, 101115.	1.1	26
41	Evidence for the placenta-brain axis: multi-omic kernel aggregation predicts intellectual and social impairment in children born extremely preterm. <i>Molecular Autism</i> , 2020, 11, 97.	2.6	26
42	Placental CpG methylation of infants born extremely preterm predicts cognitive impairment later in life. <i>PLoS ONE</i> , 2018, 13, e0193271.	1.1	26
43	Antecedents of Screening Positive for Attention Deficit Hyperactivity Disorder in Ten-Year-Old Children Born Extremely Preterm. <i>Pediatric Neurology</i> , 2018, 81, 25-30.	1.0	25
44	The risk of neurodevelopmental disorders at age 10 years associated with blood concentrations of interleukins 4 and 10 during the first postnatal month of children born extremely preterm. <i>Cytokine</i> , 2018, 110, 181-188.	1.4	25
45	Placental programming, perinatal inflammation, and neurodevelopment impairment among those born extremely preterm. <i>Pediatric Research</i> , 2021, 89, 326-335.	1.1	25
46	Microorganisms in the Placenta: Links to Early-Life Inflammation and Neurodevelopment in Children. <i>Clinical Microbiology Reviews</i> , 2019, 32, .	5.7	24
47	Psychosocial and medical adversity associated with neonatal neurobehavior in infants born before 30 weeks gestation. <i>Pediatric Research</i> , 2020, 87, 721-729.	1.1	24
48	Extreme prematurity and attention deficit: epidemiology and prevention. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 578.	1.0	23
49	Neonatal Intensive Care Unit Length of Stay Reduction by Heart Rate Characteristics Monitoring. <i>Journal of Pediatrics</i> , 2018, 198, 162-167.	0.9	23
50	Antecedents of Obesity Among Children Born Extremely Preterm. <i>Pediatrics</i> , 2018, 142, .	1.0	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. <i>Epigenetics</i> , 2019, 14, 1102-1111.	1.3	22
52	Sociodemographic and medical influences on neurobehavioral patterns in preterm infants: A multi-center study. <i>Early Human Development</i> , 2020, 142, 104954.	0.8	22
53	Pharmacokinetics and safety of a single intravenous dose of myo-inositol in preterm infants of 23-29 wk. <i>Pediatric Research</i> , 2013, 74, 721-729.	1.1	21
54	Weight Status in the First 2 Years of Life and Neurodevelopmental Impairment in Extremely Low Gestational Age Newborns. <i>Journal of Pediatrics</i> , 2016, 168, 30-35.e2.	0.9	20

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55	Social Responsiveness Scale Assessment of the Preterm Behavioral Phenotype in 10-Year-Olds Born Extremely Preterm. <i>Journal of Developmental and Behavioral Pediatrics</i> , 2017, 38, 697-705.	0.6	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. <i>Frontiers in Pediatrics</i> , 2020, 8, 230.	0.9	20
58	Placental genomics mediates genetic associations with complex health traits and disease. <i>Nature Communications</i> , 2022, 13, 706.	5.8	20
59	Antibodies to Tumor Necrosis Factor- α : Use as Adjunctive Therapy in Established Group B Streptococcal Disease in Newborn Rats. <i>Pediatric Research</i> , 1995, 38, 551-554.	1.1	19
60	Follow-up Care for Infants With Chronic Lung Disease: A Randomized Comparison of Community- and Center-Based Models. <i>Pediatrics</i> , 2007, 119, e947-e957.	1.0	19
61	Microorganisms in the human placenta are associated with altered CpG methylation of immune and inflammation-related genes. <i>PLoS ONE</i> , 2017, 12, e0188664.	1.1	19
62	A role for microRNAs in the epigenetic control of sexually dimorphic gene expression in the human placenta. <i>Epigenomics</i> , 2020, 12, 1543-1558.	1.0	18
63	Mortality and Neurodevelopmental Outcomes in the Heart Rate Characteristics Monitoring Randomized Controlled Trial. <i>Journal of Pediatrics</i> , 2020, 219, 48-53.	0.9	18
64	Genomic biomarkers of prenatal intrauterine inflammation in umbilical cord tissue predict later life neurological outcomes. <i>PLoS ONE</i> , 2017, 12, e0176953.	1.1	18
65	Antenatal and Early Postnatal Antecedents of Parent-Reported Attention Problems at 2 Years of Age. <i>Journal of Pediatrics</i> , 2015, 166, 20-25.e1.	0.9	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. <i>Journal of Pediatrics</i> , 2019, 210, 81-90.e3.	0.9	17
67	Maternal obesity and development of the preterm newborn at 2 years. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2015, 104, 900-903.	0.7	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. <i>Translational Psychiatry</i> , 2018, 8, 115.	2.4	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. <i>American Journal of Perinatology</i> , 2019, 36, 1442-1452.	0.6	16
70	Executive Dysfunction Early Postnatal Biomarkers among Children Born Extremely Preterm. <i>Journal of NeuroImmune Pharmacology</i> , 2019, 14, 188-199.	2.1	16
71	Randomized Controlled Trial of Early Enteral Fat Supplement and Fish Oil to Promote Intestinal Adaptation in Premature Infants with an Enterostomy. <i>Journal of Pediatrics</i> , 2014, 165, 274-279.e1.	0.9	15
72	Antecedents and early correlates of high and low concentrations of angiogenic proteins in extremely preterm newborns. <i>Clinica Chimica Acta</i> , 2017, 471, 1-5.	0.5	15

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73	Maternal obesity and attention-related symptoms in the preterm offspring. <i>Early Human Development</i> , 2017, 115, 9-15.	0.8	15
74	Extreme prematurity: Risk and resiliency. <i>Current Problems in Pediatric and Adolescent Health Care</i> , 2022, 52, 101132.	0.8	15
75	Antecedents of inflammation biomarkers in preterm newborns on days 21 and 28. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2016, 105, 274-280.	0.7	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. <i>International Journal of Developmental Neuroscience</i> , 2018, 66, 45-53.	0.7	13
77	Among Children Born Extremely Preterm a Higher Level of Circulating Neurotrophins Is Associated with Lower Risk of Cognitive Impairment at School Age. <i>Journal of Pediatrics</i> , 2018, 201, 40-48.e4.	0.9	13
78	Analysis of Early-Life Growth and Age at Pubertal Onset in US Children. <i>JAMA Network Open</i> , 2022, 5, e2146873.	2.8	13
79	Preterm Birth Is Associated with Higher Uric Acid Levels in Adolescents. <i>Journal of Pediatrics</i> , 2015, 167, 76-80.	0.9	12
80	Elevations of inflammatory proteins in neonatal blood are associated with obesity and overweight among 2-year-old children born extremely premature. <i>Pediatric Research</i> , 2018, 83, 1110-1119.	1.1	12
81	Novel diffuse white matter abnormality biomarker at term-equivalent age enhances prediction of long-term motor development in very preterm children. <i>Scientific Reports</i> , 2020, 10, 15920.	1.6	12
82	Socioeconomic status and early blood concentrations of inflammation-related and neurotrophic proteins among extremely preterm newborns. <i>PLoS ONE</i> , 2019, 14, e0214154.	1.1	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. <i>Journal of Human Hypertension</i> , 2020, 34, 818-825.	1.0	11
84	Are preterm newborns who have relative hyperthyrotropinemia at increased risk of brain damage?. <i>Journal of Pediatric Endocrinology and Metabolism</i> , 2014, 27, 1077-88.	0.4	10
85	Are Extremely Low Gestational Age Newborns Born to Obese Women at Increased Risk of Cerebral Palsy at 2 Years?. <i>Journal of Child Neurology</i> , 2018, 33, 216-224.	0.7	10
86	Maternal tobacco smoking and offspring autism spectrum disorder or traits in <sc>ECHO</sc> cohorts. <i>Autism Research</i> , 2022, 15, 551-569.	2.1	10
87	Definition and classification of cerebral palsy - an epidemiologist perspective. <i>Developmental Medicine and Child Neurology</i> , 2007, 49, 29-30.	1.1	9
88	Apolipoprotein E genotype and outcome in infants with hypoxicâ€“ischemic encephalopathy. <i>Pediatric Research</i> , 2014, 75, 424-430.	1.1	9
89	Neurocognitive and Health Correlates of Overweight and Obesity among Ten-Year-Old Children Born Extremely Preterm. <i>Journal of Pediatrics</i> , 2018, 200, 84-90.e4.	0.9	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. <i>Journal of Perinatology</i> , 2020, 40, 306-315.	0.9	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. <i>Scientific Reports</i> , 2021, 11, 15743.	1.6	9
92	Antenatal corticosteroids and cardiometabolic outcomes in adolescents born with very low birth weight. <i>Pediatric Research</i> , 2017, 82, 697-703.	1.1	8
93	Antenatal Steroid Exposure, Aerobic Fitness, and Physical Activity in Adolescents Born Preterm with Very Low Birth Weight. <i>Journal of Pediatrics</i> , 2019, 215, 98-106.e2.	0.9	7
94	A Consideration of Racism in Pediatric Epidemiologic Studies. <i>Journal of Pediatrics</i> , 2021, 239, 225-227.	0.9	7
95	Heart rate characteristics monitoring and reduction in mortality or neurodevelopmental impairment in extremely low birthweight infants with sepsis. <i>Early Human Development</i> , 2021, 159, 105419.	0.8	7
96	NEOage clocks - epigenetic clocks to estimate post-menstrual and postnatal age in preterm infants. <i>Aging</i> , 2021, 13, 23527-23544.	1.4	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. <i>JAMA Network Open</i> , 2022, 5, e226561.	2.8	7
98	Psychiatric Outcomes, Functioning, and Participation in Extremely Low Gestational Age Newborns at Age 15 Years. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2022, 61, 892-904.e2.	0.3	7
99	Hand Preference and Cognitive, Motor, and Behavioral Functioning in 10-Year-Old Extremely Preterm Children. <i>Journal of Pediatrics</i> , 2018, 195, 279-282.e3.	0.9	5
100	Antenatal and Neonatal Antecedents of Executive Dysfunctions in Extremely Preterm Children. <i>Journal of Child Neurology</i> , 2018, 33, 198-208.	0.7	5
101	Blood myo-inositol concentrations in preterm and term infants. <i>Journal of Perinatology</i> , 2021, 41, 247-254.	0.9	5
102	Anxiety and Depression Correlates at Age 10 in Children Born Extremely Preterm. <i>Journal of Pediatric Psychology</i> , 2021, 46, 422-432.	1.1	5
103	Happiness reconsidered in children with cerebral palsy. <i>Lancet, The</i> , 2007, 369, 2137-2138.	6.3	4
104	Factors Associated with Collaboration Among Agencies Serving Children with Complex Chronic Conditions. <i>Maternal and Child Health Journal</i> , 2013, 17, 1533-1540.	0.7	4
105	Epigenome-wide analysis identifies genes and pathways linked to acoustic cry variation in preterm infants. <i>Pediatric Research</i> , 2021, 89, 1848-1854.	1.1	4
106	Maternal social risk, gestational age at delivery, and cognitive outcomes among adolescents born extremely preterm. <i>Paediatric and Perinatal Epidemiology</i> , 2022, 36, 654-664.	0.8	4
107	Preschool Motor Skills Following Physical and Occupational Therapy Services Among Non-Disabled Very Low Birth Weight Children. <i>Maternal and Child Health Journal</i> , 2014, 18, 821-828.	0.7	3
108	Antenatal and neonatal antecedents of learning limitations in 10-year old children born extremely preterm. <i>Early Human Development</i> , 2018, 118, 8-14.	0.8	3

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109	Differential placental CpG methylation is associated with chronic lung disease of prematurity. <i>Pediatric Research</i> , 2022, 91, 1428-1435.	1.1	3
110	CpG methylation patterns in placenta and neonatal blood are differentially associated with neonatal inflammation. <i>Pediatric Research</i> , 2023, 93, 1072-1084.	1.1	3
111	Improved Filtering of Pulse Oximeter Monitoring Alarms in the Neonatal ICU: Bedside Significance. <i>Respiratory Care</i> , 2016, 61, 85-89.	0.8	2
112	Postnatal systemic inflammation and neuro-ophthalmologic dysfunctions in extremely low gestational age children. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2017, 106, 454-457.	0.7	2
113	Socioemotional dysfunctions at age 10 years in extremely preterm newborns with late-onset bacteremia. <i>Early Human Development</i> , 2018, 121, 1-7.	0.8	2
114	Treatment for hypotension in the first 24 postnatal hours and the risk of hearing loss among extremely low birth weight infants. <i>Journal of Perinatology</i> , 2020, 40, 774-780.	0.9	2
115	Families' perspectives on monitoring infants' health and development after discharge from NICUs. <i>Pediatric Research</i> , 2021, 89, 722-724.	1.1	2
116	Adherence to Car Seat Tolerance Screening Differs by Indication and Patient Characteristics. <i>Maternal and Child Health Journal</i> , 2021, 25, 1707-1716.	0.7	2
117	Factors Associated with Outpatient Therapy Utilization in Extremely Preterm Infants. <i>American Journal of Perinatology</i> , 2024, 41, 458-469.	0.6	2
118	CUE: CpG impUtation ensemble for DNA methylation levels across the human methylation450 (HM450) and EPIC (HM850) BeadChip platforms. <i>Epigenetics</i> , 2021, 16, 851-861.	1.3	1
119	Early growth outcomes in very low birth weight infants with bronchopulmonary dysplasia or fetal growth restriction. <i>Pediatric Research</i> , 2020, 88, 601-604.	1.1	1
120	Development of the genomic inflammatory index (GII) to assess key maternal antecedents associated with placental inflammation. <i>Placenta</i> , 2021, 111, 82-90.	0.7	1
121	Associations between maternal pre-pregnancy body mass index and neonatal neurobehavior in infants born before 30 weeks gestation. <i>Journal of Perinatology</i> , 2022, , .	0.9	1
122	Magnetic Resonance Biomarkers in Very Preterm Infants: Relationships to Perinatal Factors. <i>Journal of Pediatrics</i> , 2021, 233, 9-11.	0.9	0
123	Prenatal exposure to toxic and essential metal/metalloid mixtures is associated with placental genomic signatures. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
124	Prenatal Exposure to Toxic Metal Mixtures and Risk of Bacterial Sepsis in Extremely Low Gestational Age Newborns. <i>ISEE Conference Abstracts</i> , 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 10 years of age among children born extremely preterm. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2022, , .	1.1	0