

Michael K Georgieff

List of Publications by Year in descending order

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86
papers

3,806
citations

147801

31
h-index

138484

58
g-index

92
all docs

92
docs citations

92
times ranked

3301
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron Deficiency and Brain Development. <i>Seminars in Pediatric Neurology</i> , 2006, 13, 158-165.	2.0	543
2	Iron deficiency in pregnancy. <i>American Journal of Obstetrics and Gynecology</i> , 2020, 223, 516-524.	1.3	237
3	Iron deficiency of liver, heart, and brain in newborn infants of diabetic mothers. <i>Journal of Pediatrics</i> , 1992, 121, 109-114.	1.8	195
4	Nutritional influences on brain development. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2018, 107, 1310-1321.	1.5	154
5	The role of iron in neurodevelopment: fetal iron deficiency and the developing hippocampus. <i>Biochemical Society Transactions</i> , 2008, 36, 1267-1271.	3.4	152
6	Abnormal iron distribution in infants of diabetic mothers: Spectrum and maternal antecedents. <i>Journal of Pediatrics</i> , 1990, 117, 455-461.	1.8	147
7	Greater Early Gains in Fat-Free Mass, but Not Fat Mass, Are Associated with Improved Neurodevelopment at 1 Year Corrected Age for Prematurity in Very Low Birth Weight Preterm Infants. <i>Journal of Pediatrics</i> , 2016, 173, 108-115.	1.8	119
8	Choline supplementation in children with fetal alcohol spectrum disorders: a randomized, double-blind, placebo-controlled trial. <i>American Journal of Clinical Nutrition</i> , 2015, 102, 1113-1125.	4.7	94
9	Iron status at 9 months of infants with low iron stores at birth. <i>Journal of Pediatrics</i> , 2002, 141, 405-409.	1.8	90
10	The Benefits and Risks of Iron Supplementation in Pregnancy and Childhood. <i>Annual Review of Nutrition</i> , 2019, 39, 121-146.	10.1	89
11	Consequences of Low Neonatal Iron Status Due to Maternal Diabetes Mellitus on Explicit Memory Performance in Childhood. <i>Developmental Neuropsychology</i> , 2009, 34, 762-779.	1.4	88
12	Iron Deficiency Impairs Developing Hippocampal Neuron Gene Expression, Energy Metabolism, and Dendrite Complexity. <i>Developmental Neuroscience</i> , 2016, 38, 264-276.	2.0	84
13	Perinatal Brain Iron Deficiency Increases the Vulnerability of Rat Hippocampus to Hypoxic Ischemic Insult. <i>Journal of Nutrition</i> , 1999, 129, 199-206.	2.9	81
14	Four-year follow-up of a randomized controlled trial of choline for neurodevelopment in fetal alcohol spectrum disorder. <i>Journal of Neurodevelopmental Disorders</i> , 2020, 12, 9.	3.1	78
15	Iron is prioritized to red blood cells over the brain in phlebotomized anemic newborn lambs. <i>Pediatric Research</i> , 2016, 79, 922-928.	2.3	66
16	Fetal iron deficiency induces chromatin remodeling at the <i>Bdnf</i> locus in adult rat hippocampus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R276-R282.	1.8	64
17	Measuring the impact of manganese exposure on children's neurodevelopment: advances and research gaps in biomarker-based approaches. <i>Environmental Health</i> , 2016, 15, 91.	4.0	63
18	Approaches for Reducing the Risk of Early-Life Iron Deficiency-Induced Brain Dysfunction in Children. <i>Nutrients</i> , 2018, 10, 227.	4.1	62

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19	Fetal and neonatal iron deficiency causes volume loss and alters the neurochemical profile of the adult rat hippocampus. <i>Nutritional Neuroscience</i> , 2011, 14, 59-65.	3.1	59
20	Choline supplementation in children with fetal alcohol spectrum disorders has high feasibility and tolerability. <i>Nutrition Research</i> , 2013, 33, 897-904.	2.9	59
21	Prenatal Iron Supplementation Reduces Maternal Anemia, Iron Deficiency, and Iron Deficiency Anemia in a Randomized Clinical Trial in Rural China, but Iron Deficiency Remains Widespread in Mothers and Neonates. <i>Journal of Nutrition</i> , 2015, 145, 1916-1923.	2.9	57
22	Hippocampus specific iron deficiency alters competition and cooperation between developing memory systems. <i>Journal of Neurodevelopmental Disorders</i> , 2010, 2, 133-143.	3.1	51
23	Reduced neonatal liver iron concentrations after uteroplacental insufficiency. <i>Journal of Pediatrics</i> , 1995, 127, 308-311.	1.8	47
24	Striking While the Iron is Hot: Understanding the Biological and Neurodevelopmental Effects of Iron Deficiency to Optimize Intervention in Early Childhood. <i>Current Pediatrics Reports</i> , 2014, 2, 291-298.	4.0	47
25	Electrophysiological indices of memory for temporal order in early childhood: implications for the development of recollection. <i>Developmental Science</i> , 2009, 12, 209-219.	2.4	45
26	Chronic Energy Depletion due to Iron Deficiency Impairs Dendritic Mitochondrial Motility during Hippocampal Neuron Development. <i>Journal of Neuroscience</i> , 2019, 39, 802-813.	3.6	42
27	Prenatal Choline Supplementation Ameliorates the Long-Term Neurobehavioral Effects of Fetal-Neonatal Iron Deficiency in Rats. <i>Journal of Nutrition</i> , 2014, 144, 1858-1865.	2.9	40
28	The Effects of Early-Life Iron Deficiency on Brain Energy Metabolism. <i>Neuroscience Insights</i> , 2020, 15, 263310552093510.	1.6	38
29	Iron supplementation dose for perinatal iron deficiency differentially alters the neurochemistry of the frontal cortex and hippocampus in adult rats. <i>Pediatric Research</i> , 2013, 73, 31-37.	2.3	37
30	Micronutrient status and neurodevelopment in internationally adopted children. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2016, 105, e67-76.	1.5	37
31	Maternal prenatal iron status and tissue organization in the neonatal brain. <i>Pediatric Research</i> , 2016, 79, 482-488.	2.3	37
32	Early-Life Neuronal-Specific Iron Deficiency Alters the Adult Mouse Hippocampal Transcriptome. <i>Journal of Nutrition</i> , 2018, 148, 1521-1528.	2.9	36
33	Anemia induces gut inflammation and injury in an animal model of preterm infants. <i>Transfusion</i> , 2019, 59, 1233-1245.	1.6	36
34	Nutrient Supplementation and Neurodevelopment. <i>JAMA Pediatrics</i> , 2012, 166, 481.	3.0	34
35	Fetal and Neonatal Iron Deficiency Exacerbates Mild Thyroid Hormone Insufficiency Effects on Male Thyroid Hormone Levels and Brain Thyroid Hormone-Responsive Gene Expression. <i>Endocrinology</i> , 2014, 155, 1157-1167.	2.8	33
36	Iron as a model nutrient for understanding the nutritional origins of neuropsychiatric disease. <i>Pediatric Research</i> , 2019, 85, 176-182.	2.3	32

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37	Metabolomic analysis of CSF indicates brain metabolic impairment precedes hematological indices of anemia in the iron-deficient infant monkey. <i>Nutritional Neuroscience</i> , 2018, 21, 40-48.	3.1	29
38	Defiant: (DMRs: easy, fast, identification and ANnotation) identifies differentially Methylated regions from iron-deficient rat hippocampus. <i>BMC Bioinformatics</i> , 2018, 19, 31.	2.6	29
39	Metabolomic Analysis of Cerebrospinal Fluid Indicates Iron Deficiency Compromises Cerebral Energy Metabolism in the Infant Monkey. <i>Neurochemical Research</i> , 2013, 38, 573-580.	3.3	28
40	Inadequate intake of nutrients essential for neurodevelopment in children with fetal alcohol spectrum disorders (FASD). <i>Neurotoxicology and Teratology</i> , 2013, 39, 128-132.	2.4	27
41	Effect of Sepsis Syndrome on Neonatal Protein and Energy Metabolism. <i>Journal of Perinatology</i> , 2000, 20, 96-100.	2.0	26
42	Reticulocyte hemoglobin content as an early predictive biomarker of brain iron deficiency. <i>Pediatric Research</i> , 2018, 84, 765-769.	2.3	25
43	Intravenous iron supplementation effect on tissue iron and hemoproteins in chronically phlebotomized lambs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1997, 273, R2124-R2131.	1.8	23
44	Prenatal and Postnatal Choline Supplementation in Fetal Alcohol Spectrum Disorder. <i>Nutrients</i> , 2022, 14, 688.	4.1	22
45	Phlebotomy-induced anemia alters hippocampal neurochemistry in neonatal mice. <i>Pediatric Research</i> , 2015, 77, 765-771.	2.3	20
46	Catch-up growth, metabolic, and cardiovascular risk in post-institutionalized Romanian adolescents. <i>Pediatric Research</i> , 2018, 84, 842-848.	2.3	20
47	Prenatal alcohol-related alterations in maternal, placental, neonatal, and infant iron homeostasis. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1107-1122.	4.7	20
48	Cord Blood-Derived Exosomal CNTN2 and BDNF: Potential Molecular Markers for Brain Health of Neonates at Risk for Iron Deficiency. <i>Nutrients</i> , 2019, 11, 2478.	4.1	19
49	The Relationship between Decreased Iron Stores, Serum Iron and Neonatal Hypoglycemia in Large-for-date Newborn Infants. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 1989, 78, 538-543.	1.5	18
50	Visual event-related brain potentials in 4-month-old infants at risk for neurodevelopmental impairments. , 1997, 30, 11-28.		18
51	Delaying Iron Therapy until 28 Days after Antimalarial Treatment Is Associated with Greater Iron Incorporation and Equivalent Hematologic Recovery after 56 Days in Children: A Randomized Controlled Trial. <i>Journal of Nutrition</i> , 2016, 146, 1769-1774.	2.9	18
52	Beneficial effects of postnatal choline supplementation on long-Term neurocognitive deficit resulting from fetal-Neonatal iron deficiency. <i>Behavioural Brain Research</i> , 2018, 336, 40-43.	2.2	17
53	Fetal inflammation is associated with persistent systemic and hippocampal inflammation and dysregulation of hippocampal glutamatergic homeostasis. <i>Pediatric Research</i> , 2019, 85, 703-710.	2.3	14
54	Early-Life Iron Deficiency and Its Natural Resolution Are Associated with Altered Serum Metabolomic Profiles in Infant Rhesus Monkeys. <i>Journal of Nutrition</i> , 2020, 150, 685-693.	2.9	14

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55	Sex-specific cytokine responses and neurocognitive outcome after blood transfusions in preterm infants. <i>Pediatric Research</i> , 2021, , .	2.3	14
56	Early-Life Iron Deficiency Anemia Programs the Hippocampal Epigenomic Landscape. <i>Nutrients</i> , 2021, 13, 3857.	4.1	14
57	Correcting iron deficiency anemia with iron dextran alters the serum metabolomic profile of the infant Rhesus Monkey. <i>American Journal of Clinical Nutrition</i> , 2021, 113, 915-923.	4.7	13
58	Polymorphisms in SLC44A1 are associated with cognitive improvement in children diagnosed with fetal alcohol spectrum disorder: an exploratory study of oral choline supplementation. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 617-627.	4.7	13
59	Parenteral artemisinins are associated with reduced mortality and neurologic deficits and improved long-term behavioral outcomes in children with severe malaria. <i>BMC Medicine</i> , 2021, 19, 168.	5.5	13
60	Comparison of iron status 28 d after provision of antimalarial treatment with iron therapy compared with antimalarial treatment alone in Ugandan children with severe malaria. <i>American Journal of Clinical Nutrition</i> , 2016, 103, 919-925.	4.7	12
61	Neonatal mouse hippocampus: phlebotomy-induced anemia diminishes and treatment with erythropoietin partially rescues mammalian target of rapamycin signaling. <i>Pediatric Research</i> , 2017, 82, 501-508.	2.3	12
62	Infants exposed to antibiotics after birth have altered recognition memory responses at one month of age. <i>Pediatric Research</i> , 2021, 89, 1500-1507.	2.3	12
63	Enteral Iron Supplementation in Infants Born Extremely Preterm and its Positive Correlation with Neurodevelopment; Post Hoc Analysis of the Preterm Erythropoietin Neuroprotection Trial Randomized Controlled Trial. <i>Journal of Pediatrics</i> , 2021, 238, 102-109.e8.	1.8	10
64	High Prevalence of Iron Deficiency Despite Standardized High-Dose Iron Supplementation During Recombinant Erythropoietin Therapy in Extremely Low Gestational Age Newborns. <i>Journal of Pediatrics</i> , 2020, 222, 98-105.e3.	1.8	10
65	Multiomic profiling of iron-deficient infant monkeys reveals alterations in neurologically important biochemicals in serum and cerebrospinal fluid before the onset of anemia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 322, R486-R500.	1.8	10
66	Early-Life Iron Deficiency Alters Glucose Transporter-1 Expression in the Adult Rodent Hippocampus. <i>Journal of Nutrition</i> , 2019, 149, 1660-1666.	2.9	9
67	Infantile Iron Deficiency Affects Brain Development in Monkeys Even After Treatment of Anemia. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 624107.	2.0	9
68	Choline Supplementation Partially Restores Dendrite Structural Complexity in Developing Iron-Deficient Mouse Hippocampal Neurons. <i>Journal of Nutrition</i> , 2022, 152, 747-757.	2.9	9
69	The impact of erythropoietin and iron status on brain myelination in the newborn rat. <i>Journal of Neuroscience Research</i> , 2018, 96, 1586-1599.	2.9	8
70	Delayed iron improves iron status without altering malaria risk in severe malarial anemia. <i>American Journal of Clinical Nutrition</i> , 2020, 111, 1059-1067.	4.7	8
71	Prenatal Iron Deficiency and Choline Supplementation Interact to Epigenetically Regulate Jarid1b and Bdnf in the Rat Hippocampus into Adulthood. <i>Nutrients</i> , 2021, 13, 4527.	4.1	8
72	Sex differences in adult social, cognitive, and affective behavioral deficits following neonatal phlebotomy-induced anemia in mice. <i>Brain and Behavior</i> , 2021, 11, e01780.	2.2	7

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73	Fetal inflammation induces acute immune tolerance in the neonatal rat hippocampus. <i>Journal of Neuroinflammation</i> , 2021, 18, 69.	7.2	7
74	Dose- and sex-dependent effects of phlebotomy-induced anemia on the neonatal mouse hippocampal transcriptome. <i>Pediatric Research</i> , 2022, 92, 712-720.	2.3	7
75	Restricted, Repetitive, and Reciprocal Social Behavior in Toddlers Born Small for Gestation Duration. <i>Journal of Pediatrics</i> , 2018, 200, 118-124.e9.	1.8	6
76	Sex Differences in the Association of Pretransfusion Hemoglobin Levels with Brain Structure and Function in the Preterm Infant. <i>Journal of Pediatrics</i> , 2022, 243, 78-84.e5.	1.8	6
77	Delaying the start of iron until 28 days after antimalarial treatment is associated with lower incidence of subsequent illness in children with malaria and iron deficiency. <i>PLoS ONE</i> , 2017, 12, e0183977.	2.5	5
78	ERP evidence of preserved early memory function in term infants with neonatal encephalopathy following therapeutic hypothermia. <i>Pediatric Research</i> , 2016, 80, 800-808.	2.3	4
79	Endogenous erythropoietin concentrations and association with retinopathy of prematurity and brain injury in preterm infants. <i>PLoS ONE</i> , 2021, 16, e0252655.	2.5	4
80	Delayed iron does not alter cognition or behavior among children with severe malaria and iron deficiency. <i>Pediatric Research</i> , 2020, 88, 429-437.	2.3	3
81	Reducing Iron Deficiency in 18-36-months-old US Children: Is the Solution Less Calcium?. <i>Maternal and Child Health Journal</i> , 2016, 20, 1798-1803.	1.5	2
82	Preserved speed of processing and memory in infants with a history of moderate neonatal encephalopathy treated with therapeutic hypothermia. <i>Journal of Perinatology</i> , 2018, 38, 1666-1673.	2.0	2
83	Safety of single-pulse TMS in two infants with implanted patent ductus arteriosus closure devices. <i>Brain Stimulation</i> , 2020, 13, 861-862.	1.6	2
84	Predictive Value of Developmental Assessment in a Neonatal Intensive Care Unit (NICU) Follow-Up Clinic. <i>Journal of Pediatric Psychology</i> , 2021, 46, 814-823.	2.1	2
85	Nutrition and Brain Development. <i>Current Topics in Behavioral Neurosciences</i> , 2021, , 131-165.	1.7	2
86	Nutrition for Ill Neonates. <i>Pediatrics in Review</i> , 1999, 20, e56-e62.	0.4	0