## Rachel L Miller

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4413573/publications.pdf

Version: 2024-02-01

121 papers 5,775 citations

43 h-index 71 g-index

123 all docs 123
docs citations

123 times ranked 7130 citing authors

#	Article	IF	CITATIONS
1	Relation of DNA Methylation of 5′-CpG Island of ACSL3 to Transplacental Exposure to Airborne Polycyclic Aromatic Hydrocarbons and Childhood Asthma. PLoS ONE, 2009, 4, e4488.	2.5	345
2	Effects of Prenatal Exposure to Air Pollutants (Polycyclic Aromatic Hydrocarbons) on the Development of Brain White Matter, Cognition, and Behavior in Later Childhood. JAMA Psychiatry, 2015, 72, 531.	11.0	270
3	Combined Inhaled Diesel Exhaust Particles and Allergen Exposure Alter Methylation of T Helper Genes and IgE Production In Vivo. Toxicological Sciences, 2008, 102, 76-81.	3.1	204
4	Polycyclic Aromatic Hydrocarbons, Environmental Tobacco Smoke, and Respiratory Symptoms in an Inner-city Birth Cohort. Chest, 2004, 126, 1071-1078.	0.8	190
5	The challenge of preventing environmentally related disease in young children: community-based research in New York City Environmental Health Perspectives, 2002, 110, 197-204.	6.0	170
6	Prenatal and postnatal bisphenol A exposure and asthma development among inner-city children. Journal of Allergy and Clinical Immunology, 2013, 131, 736-742.e6.	2.9	162
7	Assessment of Benzo(a)pyrene-equivalent Carcinogenicity and Mutagenicity of Residential Indoor versus Outdoor Polycyclic Aromatic Hydrocarbons Exposing Young Children in New York City. International Journal of Environmental Research and Public Health, 2010, 7, 1889-1900.	2.6	147
8	Environmental exposures during windows of susceptibility for breast cancer: a framework for prevention research. Breast Cancer Research, 2019, 21, 96.	5.0	143
9	Maternal Exposure to Polycyclic Aromatic Hydrocarbons and 5'-CpG Methylation of Interferon-γ in Cord White Blood Cells. Environmental Health Perspectives, 2012, 120, 1195-1200.	6.0	138
10	The Impact of Bisphenol A and Phthalates on Allergy, Asthma, and Immune Function: a Review of Latest Findings. Current Environmental Health Reports, 2015, 2, 379-387.	6.7	128
11	Early-Life Exposure to Polycyclic Aromatic Hydrocarbons and ADHD Behavior Problems. PLoS ONE, 2014, 9, e111670.	2.5	125
12	Prenatal Exposure, Maternal Sensitization, and Sensitization <i>In Utero</i> To Indoor Allergens in an Inner-City Cohort. American Journal of Respiratory and Critical Care Medicine, 2001, 164, 995-1001.	5 <b>.</b> 6	116
13	Asthma in Inner-City Children at 5–11 Years of Age and Prenatal Exposure to Phthalates: The Columbia Center for Children's Environmental Health Cohort. Environmental Health Perspectives, 2014, 122, 1141-1146.	6.0	111
14	Exposure to NO2, CO, and PM2.5 is linked to regional DNA methylation differences in asthma. Clinical Epigenetics, 2018, 10, 2.	4.1	104
15	Traffic density and stationary sources of air pollution associated with wheeze, asthma, and immunoglobulin E from birth to age 5 years among New York City children. Environmental Research, 2011, 111, 1222-1229.	7.5	103
16	Ambient Metals, Elemental Carbon, and Wheeze and Cough in New York City Children through 24 Months of Age. American Journal of Respiratory and Critical Care Medicine, 2009, 180, 1107-1113.	5.6	102
17	Air pollution and childhood asthma: recent advances and future directions. Current Opinion in Pediatrics, 2009, 21, 235-242.	2.0	100
18	Effect of an Integrated Pest Management Intervention on Asthma Symptoms Among Mouse-Sensitized Children and Adolescents With Asthma. JAMA - Journal of the American Medical Association, 2017, 317, 1027.	7.4	96

#	Article	IF	CITATIONS
19	Environmental effects on immune responses in patients with atopy and asthma. Journal of Allergy and Clinical Immunology, 2014, 134, 1001-1008.	2.9	93
20	Anti-cockroach and anti-mouse IgE are associated with early wheeze and atopy in an inner-city birth cohort. Journal of Allergy and Clinical Immunology, 2008, 122, 914-920.	2.9	85
21	Emerging concepts and challenges in implementing the exposome paradigm in allergic diseases and asthma: a Practall document. Allergy: European Journal of Allergy and Clinical Immunology, 2019, 74, 449-463.	5.7	77
22	Early-life cockroach allergen and polycyclic aromatic hydrocarbon exposures predict cockroach sensitization among inner-city children. Journal of Allergy and Clinical Immunology, 2013, 131, 886-893.e6.	2.9	76
23	Prenatal exposure to polycyclic aromatic hydrocarbons, environmental tobacco smoke and asthma. Respiratory Medicine, 2011, 105, 869-876.	2.9	75
24	Validation of MicroAeth® as a Black Carbon Monitor for Fixed-Site Measurement and Optimization for Personal Exposure Characterization. Aerosol and Air Quality Research, 2014, 14, 1-9.	2.1	75
25	Prenatal Polycyclic Aromatic Hydrocarbon, Adiposity, Peroxisome Proliferator-Activated Receptor (PPAR) Î <sup>3</sup> Methylation in Offspring, Grand-Offspring Mice. PLoS ONE, 2014, 9, e110706.	2.5	75
26	Combined effects of prenatal exposure to polycyclic aromatic hydrocarbons and material hardship on child ADHD behavior problems. Environmental Research, 2018, 160, 506-513.	7.5	71
27	Effects of heating season on residential indoor and outdoor polycyclic aromatic hydrocarbons, black carbon, and particulate matter in an urban birth cohort. Atmospheric Environment, 2010, 44, 4545-4552.	4.1	69
28	Combined effects of prenatal polycyclic aromatic hydrocarbons and material hardship on child IQ. Neurotoxicology and Teratology, 2015, 49, 74-80.	2.4	69
29	Exploring the evidence for epigenetic regulation of environmental influences on child health across generations. Communications Biology, 2021, 4, 769.	4.4	65
30	Polycyclic aromatic hydrocarbon metabolite levels and pediatric allergy and asthma in an inner-city cohort. Pediatric Allergy and Immunology, 2010, 21, 260-267.	2.6	64
31	Polycyclic aromatic hydrocarbon exposure, obesity and childhood asthma in an urban cohort. Environmental Research, 2014, 128, 35-41.	<b>7.</b> 5	63
32	Advances in asthma: New understandings of asthma's natural history, risk factors, underlying mechanisms, and clinical management. Journal of Allergy and Clinical Immunology, 2021, 148, 1430-1441.	2.9	62
33	Short-term exposure to PM2.5 and vanadium and changes in asthma gene DNA methylation and lung function decrements among urban children. Respiratory Research, 2017, 18, 63.	3.6	61
34	Th2/Th1 Cytokine Imbalance Is Associated With Higher COVID-19 Risk Mortality. Frontiers in Genetics, 2021, 12, 706902.	2.3	61
35	Childhood exposure to fine particulate matter and black carbon and the development of new wheeze between ages 5 and 7 in an urban prospective cohort. Environment International, 2012, 45, 44-50.	10.0	60
36	Individualized Household Allergen Intervention Lowers Allergen Level But Not Asthma Medication Use: A Randomized Controlled Trial. Journal of Allergy and Clinical Immunology: in Practice, 2016, 4, 671-679.e4.	3.8	60

3

#	Article	IF	CITATIONS
37	Domestic airborne black carbon and exhaled nitric oxide in children in NYC. Journal of Exposure Science and Environmental Epidemiology, 2012, 22, 258-266.	3.9	54
38	Ganoderic acid C1 isolated from the anti-asthma formula, ASHMIâ,,¢ suppresses TNF-α production by mouse macrophages and peripheral blood mononuclear cells from asthma patients. International Immunopharmacology, 2015, 27, 224-231.	3.8	53
39	Prenatal air pollution exposure and neurodevelopment: A review and blueprint for a harmonized approach within ECHO. Environmental Research, 2021, 196, 110320.	7.5	53
40	Effects of Floor Level and Building Type on Residential Levels of Outdoor and Indoor Polycyclic Aromatic Hydrocarbons, Black Carbon, and Particulate Matter in New York City. Atmosphere, 2011, 2, 96-109.	2.3	52
41	Repeated exposure to polycyclic aromatic hydrocarbons and asthma: effect of seroatopy. Annals of Allergy, Asthma and Immunology, 2012, 109, 249-254.	1.0	51
42	Time trends of polycyclic aromatic hydrocarbon exposure in New York city from 2001 to 2012: Assessed by repeat air and urine samples. Environmental Research, 2014, 131, 95-103.	7.5	50
43	Children and Young Adults Who Received Tracheostomies or Were Initiated on Long-Term Ventilation in PICUs*. Pediatric Critical Care Medicine, 2016, 17, e324-e334.	0.5	48
44	Expression quantitative trait locus fine mapping of the 17q12–21 asthma locus in African American children: a genetic association and gene expression study. Lancet Respiratory Medicine,the, 2020, 8, 482-492.	10.7	47
45	Mouse Sensitization and Exposure Are Associated with Asthma Severity in Urban Children. Journal of Allergy and Clinical Immunology: in Practice, 2017, 5, 1008-1014.e1.	3.8	44
46	Optimization Approaches to Ameliorate Humidity and Vibration Related Issues Using the MicroAeth Black Carbon Monitor for Personal Exposure Measurement. Aerosol Science and Technology, 2013, 47, 1196-1204.	3.1	42
47	Effect of personal exposure to black carbon on changes in allergic asthma gene methylation measured 5Âdays later in urban children: importance of allergic sensitization. Clinical Epigenetics, 2017, 9, 61.	4.1	42
48	Childhood Asthma Incidence, Early and Persistent Wheeze, and Neighborhood Socioeconomic Factors in the ECHO/CREW Consortium. JAMA Pediatrics, 2022, 176, 759.	6.2	41
49	Physical activity, black carbon exposure and airway inflammation in an urban adolescent cohort. Environmental Research, 2016, 151, 756-762.	7.5	39
50	Decisions for Long-Term Ventilation for Children. Perspectives of Family Members. Annals of the American Thoracic Society, 2020, 17, 72-80.	3.2	39
51	Prenatal maternal diet affects asthma risk in offspring. Journal of Clinical Investigation, 2008, 118, 3265-8.	8.2	37
52	HIV Diversity and Genetic Compartmentalization in Blood and Testes during Suppressive Antiretroviral Therapy. Journal of Virology, 2019, 93, .	3.4	35
53	Maternal allergy increases susceptibility to offspring allergy in association with TH2-biased epigenetic alterations in a mouse model of peanut allergy. Journal of Allergy and Clinical Immunology, 2014, 134, 1339-1345.e7.	2.9	32
54	HIV Subtype and Nef-Mediated Immune Evasion Function Correlate with Viral Reservoir Size in Early-Treated Individuals. Journal of Virology, 2019, 93, .	3.4	32

#	Article	IF	CITATIONS
55	Decisions around Long-term Ventilation for Children. Perspectives of Directors of Pediatric Home Ventilation Programs. Annals of the American Thoracic Society, 2017, 14, 1539-1547.	3.2	31
56	Physical activity, black carbon exposure, and DNA methylation in the FOXP3 promoter. Clinical Epigenetics, 2017, 9, 65.	4.1	31
57	Polycyclic Aromatic Hydrocarbons Impair Function of $\hat{l}^2$ sub>2-Adrenergic Receptors in Airway Epithelial and Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2011, 45, 1045-1049.	2.9	30
58	Domestic airborne black carbon levels and 8-isoprostane in exhaled breath condensate among children in New York City. Environmental Research, 2014, 135, 105-110.	7.5	30
59	DNA methylation of the allergy regulatory gene interferon gamma varies by age, sex, and tissue type in asthmatics. Clinical Epigenetics, 2014, 6, 9.	4.1	30
60	Impact of prenatal polycyclic aromatic hydrocarbon exposure on behavior, cortical gene expression, and DNA methylation of the Bdnf gene. Neuroepigenetics, 2016, 5, 11-18.	2.8	29
61	SARSâ€CoVâ€2 receptor ACE2 protein expression in serum is significantly associated with age. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 875-878.	5.7	29
62	Epigenetic regulation: The interface between prenatal and earlyâ€ife exposure and asthma susceptibility. Environmental and Molecular Mutagenesis, 2014, 55, 231-243.	2.2	28
63	Prenatal phthalate and early childhood bisphenol AÂexposures increase asthma risk in inner-city children. Journal of Allergy and Clinical Immunology, 2014, 134, 1195-1197.e2.	2.9	28
64	Effect of Antiasthma Simplified Herbal Medicine Intervention on neutrophil predominant airway inflammation in a ragweed sensitized murine asthma model. Annals of Allergy, Asthma and Immunology, 2014, 112, 339-347.e2.	1.0	27
65	Prenatal exposure to airborne polycyclic aromatic hydrocarbons and childhood growth trajectories from age 5–14†years. Environmental Research, 2019, 177, 108595.	7.5	27
66	Modeling congenital kidney diseases in Xenopus laevis. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	27
67	Survey of financial burden of families in the U.S. with children using home mechanical ventilation. Pediatric Pulmonology, 2018, 53, 108-116.	2.0	25
68	Is breast cancer a result of epigenetic responses to traffic-related air pollution? A review of the latest evidence. Epigenomics, 2019, 11, 701-714.	2.1	24
69	Chromosome 17q12-21 Variants Are Associated with Multiple Wheezing Phenotypes in Childhood. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 864-870.	5.6	24
70	Repeatedly high polycyclic aromatic hydrocarbon exposure and cockroach sensitization among inner-city children. Environmental Research, 2015, 140, 649-656.	7.5	23
71	Youth Well-being During the COVID-19 Pandemic. Pediatrics, 2022, 149, .	2.1	23
72	Genetic Diversity, Compartmentalization, and Age of HIV Proviruses Persisting in CD4 <sup>+</sup> T Cell Subsets during Long-Term Combination Antiretroviral Therapy. Journal of Virology, 2020, 94, .	3.4	21

#	Article	IF	Citations
73	Mouse Sensitivity is an Independent Risk Factor for Rhinitis in Children with Asthma. Journal of Allergy and Clinical Immunology: in Practice, 2016, 4, 82-88.e1.	3.8	20
74	Advances in drug allergy, urticaria, angioedema, and anaphylaxis in 2018. Journal of Allergy and Clinical Immunology, 2019, 144, 381-392.	2.9	19
75	Association of recent exposure to ambient metals on fractional exhaled nitric oxide in 9–11year old inner-city children. Nitric Oxide - Biology and Chemistry, 2014, 40, 60-66.	2.7	17
76	It's not just the food you eat: Environmental factors in the development of food allergies. Environmental Research, 2018, 165, 118-124.	7.5	16
77	Air pollution, urgent asthma medical visits and the modifying effect of neighborhood asthma prevalence. Pediatric Research, 2019, 85, 36-42.	2.3	16
78	Association of FEF25%–75% and bronchodilator reversibility with asthma control and asthma morbidity in inner-city children with asthma. Annals of Allergy, Asthma and Immunology, 2016, 117, 97-99.	1.0	15
79	Associations of prenatal exposure to polycyclic aromatic hydrocarbons with pubertal timing and body composition in adolescent girls: Implications for breast cancer risk. Environmental Research, 2021, 196, 110369.	<b>7.</b> 5	15
80	The role of circulating eosinophils on COVIDâ€19 mortality varies by race/ethnicity. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 925-927.	5.7	14
81	T-cell responses and hypersensitivity to influenza and egg antigens among adults with asthma immunized with the influenza vaccine. Journal of Allergy and Clinical Immunology, 2003, 112, 606-608.	2.9	13
82	Prenatal and Postnatal Polycyclic Aromatic Hydrocarbon Exposure, Airway Hyperreactivity, and Beta-2 Adrenergic Receptor Function in Sensitized Mouse Offspring. Journal of Toxicology, 2013, 2013, 1-9.	3.0	13
83	Asthma as an outcome: Exploring multiple definitions of asthma across birth cohorts in the Environmental influences on Child Health Outcomes Children's Respiratory and Environmental Workgroup. Journal of Allergy and Clinical Immunology, 2019, 144, 866-869.e4.	2.9	13
84	The Flavonoid 7,4′-Dihydroxyflavone Prevents Dexamethasone Paradoxical Adverse Effect on Eotaxin Production by Human Fibroblasts. Phytotherapy Research, 2017, 31, 449-458.	5.8	12
85	Understanding Root Causes of Asthma. Perinatal Environmental Exposures and Epigenetic Regulation. Annals of the American Thoracic Society, 2018, 15, S103-S108.	3.2	12
86	Prenatal polycyclic aromatic hydrocarbons, altered ERα pathway-related methylation and expression, and mammary epithelial cell proliferation in offspring and grandoffspring adult mice. Environmental Research, 2021, 196, 110961.	7.5	12
87	Cord blood versus age 5 mononuclear cell proliferation on IgE and asthma. Clinical and Molecular Allergy, 2010, 8, 11.	1.8	11
88	Maternal Antiasthma Simplified Herbal Medicine Intervention therapy prevents airway inflammation and modulates pulmonary innate immune responses in young offspring mice. Annals of Allergy, Asthma and Immunology, 2015, 114, 43-51.e1.	1.0	11
89	Allergic sensitization patterns identified through latent class analysis among children with and without asthma. Annals of Allergy, Asthma and Immunology, 2016, 116, 212-218.	1.0	11
90	Reduced mouse allergen is associated with epigenetic changes in regulatory genes, but not mouse sensitization, in asthmatic children. Environmental Research, 2017, 156, 619-624.	7.5	11

#	Article	IF	Citations
91	Breast cancer family history and allele-specific DNA methylation in the legacy girls study. Epigenetics, 2018, 13, 240-250.	2.7	10
92	Urban Adolescents Readily Comply with a Complicated Asthma Research Protocol. Clinical Medicine Insights: Circulatory, Respiratory and Pulmonary Medicine, 2014, 8, CCRPM.S13930.	0.9	9
93	Indoor Environmental Factors May Modify the Response to Mouse Allergen Reduction Among Mouse-Sensitized and Exposed Children with Persistent Asthma. Journal of Allergy and Clinical Immunology: in Practice, 2021, 9, 4402-4409.e2.	3.8	9
94	Reported Neighborhood Traffic and the Odds of Asthma/Asthma-Like Symptoms: A Cross-Sectional Analysis of a Multi-Racial Cohort of Children. International Journal of Environmental Research and Public Health, 2021, 18, 243.	2.6	9
95	Evaluating predictive relationships between wristbands and urine for assessment of personal PAH exposure. Environment International, 2022, 163, 107226.	10.0	9
96	Personal Exposure to Black Carbon at School and Levels of Fractional Exhaled Nitric Oxide in New York City. Environmental Health Perspectives, 2021, 129, 97005.	6.0	8
97	Locations of Adolescent Physical Activity in an Urban Environment and Their Associations with Air Pollution and Lung Function. Annals of the American Thoracic Society, 2021, 18, 84-92.	3.2	8
98	Assessment of exposure to air pollution in children: Determining whether wearing a personal monitor affects physical activity. Environmental Research, 2018, 166, 340-343.	7.5	7
99	Do Baseline Asthma and Allergic Sensitization Characteristics Predict Responsiveness to Mouse Allergen Reduction?. Journal of Allergy and Clinical Immunology: in Practice, 2020, 8, 596-602.e3.	3.8	7
100	The Role of Childhood Asthma in Obesity Development. Epidemiology, 2022, 33, 131-140.	2.7	7
101	Alternaria is associated with asthma symptoms and exhaled NO among NYC children. Journal of Allergy and Clinical Immunology, 2018, 142, 1366-1368.e10.	2.9	6
102	Characterizing peak exposure of secondhand smoke using a realâ€ŧime PM ⟨sub⟩2.5⟨ sub⟩ monitor. Indoor Air, 2020, 30, 98-107.	4.3	6
103	Development and validation of a novel informational booklet for pediatric longâ€ŧerm ventilation decision support. Pediatric Pulmonology, 2021, 56, 1198-1204.	2.0	6
104	Vishniacozyma victoriae (syn. Cryptococcus victoriae) in the homes of asthmatic and non-asthmatic children in New York City. Journal of Exposure Science and Environmental Epidemiology, 2022, 32, 48-59.	3.9	6
105	Infant rhinitis and watery eyes predict school-age exercise-induced wheeze, emergency department visits and respiratory-related hospitalizations. Annals of Allergy, Asthma and Immunology, 2018, 120, 278-284.e2.	1.0	5
106	Cancer Risk Reduction Through Education of Adolescents: Development of a Tailored Cancer Risk-Reduction Educational Tool. Journal of Cancer Education, 2021, , 1.	1.3	5
107	Exposure to polycyclic aromatic hydrocarbons during pregnancy and breast tissue composition in adolescent daughters and their mothers: a prospective cohort study. Breast Cancer Research, 2022, 24, .	5.0	5
108	Differences in Ambient Polycyclic Aromatic Hydrocarbon Concentrations between Streets and Alleys in New York City: Open Space vs. Semi-Closed Space. International Journal of Environmental Research and Public Health, 2016, 13, 127.	2.6	4

#	Article	IF	CITATIONS
109	Got milk? Understanding the farm milk effect in allergy and asthma prevention. Journal of Allergy and Clinical Immunology, 2016, 137, 1707-1708.	2.9	3
110	Report of prenatal maternal demoralization and material hardship and infant rhinorrhea and watery eyes. Annals of Allergy, Asthma and Immunology, 2020, 125, 399-404.e2.	1.0	3
111	A distributed geospatial approach to describe community characteristics for multisite studies. Journal of Clinical and Translational Science, 2021, 5, e86.	0.6	3
112	Nitrogen Dioxide Pollutant Exposure and Exercise-induced Bronchoconstriction in Urban Childhood Asthma: A Pilot Study. Annals of the American Thoracic Society, 2022, 19, 139-142.	3.2	2
113	Increased Heart Rate Variability Response Among Infants with Reported Rhinorrhea and Watery Eyes: A Pilot Study. Journal of Asthma and Allergy, 2021, Volume 14, 1349-1354.	3.4	2
114	Sophora flavescens Alkaloids and Corticosteroid Synergistically Augment IL-10/IL-5 Ratio with Foxp3-Gene-Epigenetic Modification in Asthma PBMCs. Journal of Asthma and Allergy, 2021, Volume 14, 1559-1571.	3.4	2
115	cFLIP expression is altered in severe corticosteroid-resistant asthma. Genomics Data, 2014, 2, 99-104.	1.3	1
116	Interactions among Climate Change, Air Pollutants, and Aeroallergens., 2016, , 137-156.		1
117	Immediate adverse reactions to horse antithymocyte globulin: A 10-year single-center experience. Journal of Allergy and Clinical Immunology: in Practice, 2022, 10, 2176-2177.e1.	3.8	1
118	Targeting of household air pollution: interpretation of RESPIRE. Lancet, The, 2011, 378, 1682-1684.	13.7	0
119	Rat Sensitization Among Inner-City Asthmatic Children. Journal of Children S Health, 2003, 1, 489-498.	0.3	0
120	T-Cell Immunophenotyping of Second-Hand Smoke-related Asthma. Annals of the American Thoracic Society, 2016, 13 Suppl 1, S95.	3.2	0
121	Polycyclic Aromatic Hydrocarbons and Mammary Cancer Risk: Does Obesity Matter too?. Journal of Cancer Immunology, 2021, 3, 154-162.	0.5	O