Rachel L Miller

List of Publications by Year
in descending order

121 papers	5,775 citations	61984 43 h-index	85541 71 g-index
123 all docs	123 docs citations	123 times ranked	7130 citing authors

#	Article	IF	Citations
1	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
2	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
3	The Role of Childhood Asthma in Obesity Development. Epidemiology, 2022, 33, 131-140.	2.7	7
4	Youth Well-being During the COVID-19 Pandemic. Pediatrics, 2022, 149, .	2.1	23
5	Evaluating predictive relationships between wristbands and urine for assessment of personal PAH exposure. Environment International, 2022, 163, 107226.	10.0	9
6	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
7	Childhood Asthma Incidence, Early and Persistent Wheeze, and Neighborhood Socioeconomic Factors in the ECHO/CREW Consortium. JAMA Pediatrics, 2022, 176, 759.	6.2	41
8	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
9	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
10	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.	7.5	15
11	Development and validation of a novel informational booklet for pediatric longâ€term ventilation decision support. Pediatric Pulmonology, 2021, 56, 1198-1204.	2.0	6
12	Prenatal air pollution exposure and neurodevelopment: A review and blueprint for a harmonized approach within ECHO. Environmental Research, 2021, 196, 110320.	7.5	53
13	A distributed geospatial approach to describe community characteristics for multisite studies. Journal of Clinical and Translational Science, 2021, 5, e86.	0.6	3
14	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
15	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
16	Prenatal polycyclic aromatic hydrocarbons, altered ERÎ± pathway-related methylation and expression, and mammary epithelial cell proliferation in offspring and grandoffspring adult mice. Environmental Research, 2021, 196, 110961.	7.5	12
17	Exploring the evidence for epigenetic regulation of environmental influences on child health across generations. Communications Biology, 2021, 4, 769.	4.4	65
18	Th2/Th1 Cytokine Imbalance Is Associated With Higher COVID-19 Risk Mortality. Frontiers in Genetics, 2021, 12, 706902.	2.3	61

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19	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
20	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
21	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
22	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
23	Advances in asthma: New understandings of asthmaâ€™s natural history, risk factors, underlying mechanisms, and clinical management. Journal of Allergy and Clinical Immunology, 2021, 148, 1430-1441.	2.9	62
24	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
25	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
26	Polycyclic Aromatic Hydrocarbons and Mammary Cancer Risk: Does Obesity Matter too?. Journal of Cancer Immunology, 2021, 3, 154-162.	0.5	0
27	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
28	Decisions for Long-Term Ventilation for Children. Perspectives of Family Members. Annals of the American Thoracic Society, 2020, 17, 72-80.	3.2	39
29	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
30	Characterizing peak exposure of secondhand smoke using a realâ€time PM _{2.5} monitor. Indoor Air, 2020, 30, 98-107.	4.3	6
31	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
32	Genetic Diversity, Compartmentalization, and Age of HIV Proviruses Persisting in CD4 ⁺ T Cell Subsets during Long-Term Combination Antiretroviral Therapy. Journal of Virology, 2020, 94, .	3.4	21
33	Expression quantitative trait locus fine mapping of the 17q12â€“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
34	Advances in drug allergy, urticaria, angioedema, and anaphylaxis in 2018. Journal of Allergy and Clinical Immunology, 2019, 144, 381-392.	2.9	19
35	Prenatal exposure to airborne polycyclic aromatic hydrocarbons and childhood growth trajectories from age 5â€“14â€‰years. Environmental Research, 2019, 177, 108595.	7.5	27
36	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

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37	Environmental exposures during windows of susceptibility for breast cancer: a framework for prevention research. Breast Cancer Research, 2019, 21, 96.	5.0	143
38	HIV Diversity and Genetic Compartmentalization in Blood and Testes during Suppressive Antiretroviral Therapy. Journal of Virology, 2019, 93, .	3.4	35
39	Modeling congenital kidney diseases in Xenopus laevis. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	27
40	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
41	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
42	Air pollution, urgent asthma medical visits and the modifying effect of neighborhood asthma prevalence. Pediatric Research, 2019, 85, 36-42.	2.3	16
43	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
44	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
45	Understanding Root Causes of Asthma. Perinatal Environmental Exposures and Epigenetic Regulation. Annals of the American Thoracic Society, 2018, 15, S103-S108.	3.2	12
46	Breast cancer family history and allele-specific DNA methylation in the legacy girls study. Epigenetics, 2018, 13, 240-250.	2.7	10
47	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
48	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
49	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
50	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
51	Exposure to NO2, CO, and PM2.5 is linked to regional DNA methylation differences in asthma. Clinical Epigenetics, 2018, 10, 2.	4.1	104
52	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
53	The Flavonoid 7,4â€²-Dihydroxyflavone Prevents Dexamethasone Paradoxical Adverse Effect on Eotaxin Production by Human Fibroblasts. Phytotherapy Research, 2017, 31, 449-458.	5.8	12
54	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

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55	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
56	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
57	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
58	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
59	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
60	Physical activity, black carbon exposure, and DNA methylation in the FOXP3 promoter. Clinical Epigenetics, 2017, 9, 65.	4.1	31
61	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
62	Interactions among Climate Change, Air Pollutants, and Aeroallergens. , 2016, , 137-156.		1
63	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
64	Association of FEF25%â€“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
65	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
66	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
67	Physical activity, black carbon exposure and airway inflammation in an urban adolescent cohort. Environmental Research, 2016, 151, 756-762.	7.5	39
68	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
69	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
70	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
71	T-Cell Immunophenotyping of Second-Hand Smoke-related Asthma. Annals of the American Thoracic Society, 2016, 13 Suppl 1, S95.	3.2	0
72	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

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73	Ganoderic acid C1 isolated from the anti-asthma formula, ASHMIâ„¢ suppresses TNF-Î± production by mouse macrophages and peripheral blood mononuclear cells from asthma patients. International Immunopharmacology, 2015, 27, 224-231.	3.8	53
74	Repeatedly high polycyclic aromatic hydrocarbon exposure and cockroach sensitization among inner-city children. Environmental Research, 2015, 140, 649-656.	7.5	23
75	Combined effects of prenatal polycyclic aromatic hydrocarbons and material hardship on child IQ. Neurotoxicology and Teratology, 2015, 49, 74-80.	2.4	69
76	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
77	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
78	Early-Life Exposure to Polycyclic Aromatic Hydrocarbons and ADHD Behavior Problems. PLoS ONE, 2014, 9, e111670.	2.5	125
79	Validation of MicroAethÂ® 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
80	Asthma in Inner-City Children at 5â€“11 Years of Age and Prenatal Exposure to Phthalates: The Columbia Center for Childrenâ€™s Environmental Health Cohort. Environmental Health Perspectives, 2014, 122, 1141-1146.	6.0	111
81	Epigenetic regulation: The interface between prenatal and earlyâ€life exposure and asthma susceptibility. Environmental and Molecular Mutagenesis, 2014, 55, 231-243.	2.2	28
82	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
83	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
84	Polycyclic aromatic hydrocarbon exposure, obesity and childhood asthma in an urban cohort. Environmental Research, 2014, 128, 35-41.	7.5	63
85	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
86	Environmental effects on immune responses in patients with atopy and asthma. Journal of Allergy and Clinical Immunology, 2014, 134, 1001-1008.	2.9	93
87	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
88	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
89	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
90	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

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91	cFLIP expression is altered in severe corticosteroid-resistant asthma. Genomics Data, 2014, 2, 99-104.	1.3	1
92	Association of recent exposure to ambient metals on fractional exhaled nitric oxide in 9â€“11year old inner-city children. Nitric Oxide - Biology and Chemistry, 2014, 40, 60-66.	2.7	17
93	Prenatal Polycyclic Aromatic Hydrocarbon, Adiposity, Peroxisome Proliferator-Activated Receptor (PPAR) Î³ Methylation in Offspring, Grand-Offspring Mice. PLoS ONE, 2014, 9, e110706.	2.5	75
94	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
95	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
96	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
97	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
98	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
99	Maternal Exposure to Polycyclic Aromatic Hydrocarbons and 5â€™-CpG Methylation of Interferon-Î³ in Cord White Blood Cells. Environmental Health Perspectives, 2012, 120, 1195-1200.	6.0	138
100	Repeated exposure to polycyclic aromatic hydrocarbons and asthma: effect of seroatopy. Annals of Allergy, Asthma and Immunology, 2012, 109, 249-254.	1.0	51
101	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
102	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
103	Prenatal exposure to polycyclic aromatic hydrocarbons, environmental tobacco smoke and asthma. Respiratory Medicine, 2011, 105, 869-876.	2.9	75
104	Targeting of household air pollution: interpretation of RESPIRE. Lancet, The, 2011, 378, 1682-1684.	13.7	0
105	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
106	Polycyclic Aromatic Hydrocarbons Impair Function of Î²₂-Adrenergic Receptors in Airway Epithelial and Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2011, 45, 1045-1049.	2.9	30
107	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
108	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

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109	Cord blood versus age 5 mononuclear cell proliferation on IgE and asthma. Clinical and Molecular Allergy, 2010, 8, 11.	1.8	11
110	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
111	Relation of DNA Methylation of 5â€²-CpG Island of ACSL3 to Transplacental Exposure to Airborne Polycyclic Aromatic Hydrocarbons and Childhood Asthma. PLoS ONE, 2009, 4, e4488.	2.5	345
112	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
113	Air pollution and childhood asthma: recent advances and future directions. Current Opinion in Pediatrics, 2009, 21, 235-242.	2.0	100
114	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
115	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
116	Prenatal maternal diet affects asthma risk in offspring. Journal of Clinical Investigation, 2008, 118, 3265-8.	8.2	37
117	Polycyclic Aromatic Hydrocarbons, Environmental Tobacco Smoke, and Respiratory Symptoms in an Inner-city Birth Cohort. Chest, 2004, 126, 1071-1078.	0.8	190
118	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
119	Rat Sensitization Among Inner-City Asthmatic Children. Journal of Children S Health, 2003, 1, 489-498.	0.3	0
120	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
121	Prenatal Exposure, Maternal Sensitization, and SensitizationIn UteroTo Indoor Allergens in an Inner-City Cohort. American Journal of Respiratory and Critical Care Medicine, 2001, 164, 995-1001.	5.6	116