

Sandra P Eckel

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,249
citations

201385

27
h-index

264894

42
g-index

102
all docs

102
docs citations

102
times ranked

3477
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Air pollution affects lung cancer survival. <i>Thorax</i> , 2016, 71, 891-898. | 2.7 | 148 |
| 2 | Exposure to per- and Polyfluoroalkyl Substances and Markers of Liver Injury: A Systematic Review and Meta-Analysis. <i>Environmental Health Perspectives</i> , 2022, 130, 46001. | 2.8 | 128 |
| 3 | Genetic and epigenetic variations in inducible nitric oxide synthase promoter, particulate pollution, and exhaled nitric oxide levels in children. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 129, 232-239.e7. | 1.5 | 116 |
| 4 | Phase 2 study of concurrent radiotherapy and temozolomide followed by temozolomide and lomustine in the treatment of children with high-grade glioma: a report of the Children's Oncology Group ACNS0423 study. <i>Neuro-Oncology</i> , 2016, 18, 1442-1450. | 0.6 | 111 |
| 5 | Particulate matter air pollution and liver cancer survival. <i>International Journal of Cancer</i> , 2017, 141, 744-749. | 2.3 | 83 |
| 6 | Short-term effects of airport-associated ultrafine particle exposure on lung function and inflammation in adults with asthma. <i>Environment International</i> , 2018, 118, 48-59. | 4.8 | 79 |
| 7 | Chronic effects of air pollution on respiratory health in Southern California children: findings from the Southern California Children's Health Study. <i>Journal of Thoracic Disease</i> , 2015, 7, 46-58. | 0.6 | 73 |
| 8 | Associations of gestational diabetes mellitus with residential air pollution exposure in a large Southern California pregnancy cohort. <i>Environment International</i> , 2019, 130, 104933. | 4.8 | 57 |
| 9 | Residential Traffic-Related Pollution Exposures and Exhaled Nitric Oxide in the Children's Health Study. <i>Environmental Health Perspectives</i> , 2011, 119, 1472-1477. | 2.8 | 55 |
| 10 | Modification of the Association Between Ambient Air Pollution and Lung Function by Frailty Status Among Older Adults in the Cardiovascular Health Study. <i>American Journal of Epidemiology</i> , 2012, 176, 214-223. | 1.6 | 53 |
| 11 | Exhaled NO: Determinants and Clinical Application in Children With Allergic Airway Disease. <i>Allergy, Asthma and Immunology Research</i> , 2016, 8, 12. | 1.1 | 52 |
| 12 | Association of Prenatal Exposure to Ambient and Traffic-Related Air Pollution With Newborn Thyroid Function. <i>JAMA Network Open</i> , 2018, 1, e182172. | 2.8 | 49 |
| 13 | Study Design, Protocol and Profile of the Maternal And Developmental Risks from Environmental and Social Stressors (MADRES) Pregnancy Cohort: a Prospective Cohort Study in Predominantly Low-Income Hispanic Women in Urban Los Angeles. <i>BMC Pregnancy and Childbirth</i> , 2019, 19, 189. | 0.9 | 49 |
| 14 | Prenatal Metal Mixtures and Birth Weight for Gestational Age in a Predominately Lower-Income Hispanic Pregnancy Cohort in Los Angeles. <i>Environmental Health Perspectives</i> , 2020, 128, 117001. | 2.8 | 46 |
| 15 | Traffic-related air pollution and alveolar nitric oxide in southern California children. <i>European Respiratory Journal</i> , 2016, 47, 1348-1356. | 3.1 | 45 |
| 16 | Longitudinal effects of air pollution on exhaled nitric oxide: the Children's Health Study. <i>Occupational and Environmental Medicine</i> , 2014, 71, 507-513. | 1.3 | 44 |
| 17 | Sex-specific associations of autism spectrum disorder with residential air pollution exposure in a large Southern California pregnancy cohort. <i>Environmental Pollution</i> , 2019, 254, 113010. | 3.7 | 41 |
| 18 | Prenatal Exposure to Air Pollution and Autism Spectrum Disorder: Sensitive Windows of Exposure and Sex Differences. <i>Environmental Health Perspectives</i> , 2022, 130, 17008. | 2.8 | 41 |

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|----|---|-----|-----------|
| 19 | The Cardiopulmonary Effects of Ambient Air Pollution and Mechanistic Pathways: A Comparative Hierarchical Pathway Analysis. <i>PLoS ONE</i> , 2014, 9, e114913. | 1.1 | 39 |
| 20 | Association Between Air Pollution Exposure, Cognitive and Adaptive Function, and ASD Severity Among Children with Autism Spectrum Disorder. <i>Journal of Autism and Developmental Disorders</i> , 2018, 48, 137-150. | 1.7 | 34 |
| 21 | Prenatal metal mixtures and child blood pressure in the Rhea mother-child cohort in Greece. <i>Environmental Health</i> , 2021, 20, 1. | 1.7 | 34 |
| 22 | COVID-19 mortality in California based on death certificates: disproportionate impacts across racial/ethnic groups and nativity. <i>Annals of Epidemiology</i> , 2021, 58, 69-75. | 0.9 | 34 |
| 23 | Fraction of exhaled nitric oxide values in childhood are associated with 17q11.2-q12 and 17q12-q21 variants. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 134, 46-55. | 1.5 | 33 |
| 24 | A pilot study using carboplatin, vincristine, and temozolomide in children with progressive/symptomatic low-grade glioma: a Children's Oncology Group study. <i>Neuro-Oncology</i> , 2015, 17, 1132-1138. | 0.6 | 33 |
| 25 | Asthma Disease Status, COPD, and COVID-19 Severity in a Large Multiethnic Population. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 3621-3628.e2. | 2.0 | 33 |
| 26 | Ambient Air Pollutant Exposures and COVID-19 Severity and Mortality in a Cohort of Patients with COVID-19 in Southern California. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 440-448. | 2.5 | 33 |
| 27 | Surrogate screening models for the low physical activity criterion of frailty. <i>Aging Clinical and Experimental Research</i> , 2011, 23, 209-216. | 1.4 | 31 |
| 28 | Distributed representation of pelvic floor muscles in human motor cortex. <i>Scientific Reports</i> , 2018, 8, 7213. | 1.6 | 30 |
| 29 | Gestational diabetes mellitus, prenatal air pollution exposure, and autism spectrum disorder. <i>Environment International</i> , 2019, 133, 105110. | 4.8 | 30 |
| 30 | Applying Multivariate Segmentation Methods to Human Activity Recognition From Wearable Sensorsâ€™ Data. <i>JMIR MHealth and UHealth</i> , 2019, 7, e11201. | 1.8 | 28 |
| 31 | Ambient air pollution and COVID-19 incidence during four 2020â€™2021 case surges. <i>Environmental Research</i> , 2022, 208, 112758. | 3.7 | 27 |
| 32 | Estimation of Parameters in the Two-Compartment Model for Exhaled Nitric Oxide. <i>PLoS ONE</i> , 2014, 9, e85471. | 1.1 | 26 |
| 33 | Global Trade, Local Impacts: Lessons from California on Health Impacts and Environmental Justice Concerns for Residents Living near Freight Rail Yards. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 1914-1941. | 1.2 | 25 |
| 34 | Biomedical REAL-Time Health Evaluation (BREATHE): toward an mHealth informatics platform. <i>JAMIA Open</i> , 2020, 3, 190-200. | 1.0 | 24 |
| 35 | Multipleâ€™flow exhaled nitric oxide, allergy, and asthma in a population of older children. <i>Pediatric Pulmonology</i> , 2013, 48, 885-896. | 1.0 | 23 |
| 36 | Near-roadway air pollution associated with COVID-19 severity and mortality â€™ Multiethnic cohort study in Southern California. <i>Environment International</i> , 2021, 157, 106862. | 4.8 | 23 |

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|----|---|-----|-----------|
| 37 | Within-subject effects of environmental and social stressors on pre- and post-partum obesity-related biobehavioral responses in low-income Hispanic women: protocol of an intensive longitudinal study. <i>BMC Public Health</i> , 2019, 19, 253. | 1.2 | 22 |
| 38 | Mining Public Datasets for Modeling Intra-City PM2.5 Concentrations at a Fine Spatial Resolution. , 2017, 2017, . | | 20 |
| 39 | Prenatal metal mixtures and fetal size in mid-pregnancy in the MADRES study. <i>Environmental Research</i> , 2021, 196, 110388. | 3.7 | 20 |
| 40 | Genetic and epigenetic susceptibility of airway inflammation to PM2.5 in school children: new insights from quantile regression. <i>Environmental Health</i> , 2017, 16, 88. | 1.7 | 19 |
| 41 | In utero exposure to near-roadway air pollution and autism spectrum disorder in children. <i>Environment International</i> , 2022, 158, 106898. | 4.8 | 18 |
| 42 | Association of Outdoor Ambient Fine Particulate Matter With Intracellular White Matter Microstructural Properties Among Children. <i>JAMA Network Open</i> , 2021, 4, e2138300. | 2.8 | 18 |
| 43 | On the importance of statistics in breath analysisâ€”hope or curse?. <i>Journal of Breath Research</i> , 2014, 8, 012001. | 1.5 | 17 |
| 44 | Environmental chemical burden in metabolic tissues and systemic biological pathways in adolescent bariatric surgery patients: A pilot untargeted metabolomic approach. <i>Environment International</i> , 2020, 143, 105957. | 4.8 | 17 |
| 45 | Evidence of susceptibility to autism risks associated with early life ambient air pollution: A systematic review. <i>Environmental Research</i> , 2022, 208, 112590. | 3.7 | 16 |
| 46 | Respiratory health, pulmonary function and local engagement in urban communities near oil development. <i>Environmental Research</i> , 2021, 197, 111088. | 3.7 | 15 |
| 47 | Prenatal ambient air pollution and maternal depression at 12â€‰months postpartum in the MADRES pregnancy cohort. <i>Environmental Health</i> , 2021, 20, 121. | 1.7 | 15 |
| 48 | Assessment of Respiratory Health Symptoms and Asthma in Children near a Drying Saline Lake. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3828. | 1.2 | 14 |
| 49 | Extracellular vesicle microRNA in early versus late pregnancy with birth outcomes in the MADRES study. <i>Epigenetics</i> , 2022, 17, 269-285. | 1.3 | 14 |
| 50 | Long-term air pollution and COVID-19 mortality rates in California: Findings from the Spring/Summer and Winter surges of COVID-19. <i>Environmental Pollution</i> , 2022, 292, 118396. | 3.7 | 14 |
| 51 | Distributed Reproducible Research Using Cached Computations. <i>Computing in Science and Engineering</i> , 2009, 11, 28-34. | 1.2 | 13 |
| 52 | Extracellular vesicle-enriched miRNA profiles across pregnancy in the MADRES cohort. <i>PLoS ONE</i> , 2021, 16, e0251259. | 1.1 | 10 |
| 53 | A Scalable Data Integration and Analysis Architecture for Sensor Data of Pediatric Asthma. , 2017, 2017, 1407-1408. | | 9 |
| 54 | Risk effects of near-roadway pollutants and asthma status on bronchitic symptoms in children. <i>Environmental Epidemiology</i> , 2018, 2, e012. | 1.4 | 9 |

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|----|--|-----|-----------|
| 55 | Understanding the importance of key risk factors in predicting chronic bronchitic symptoms using a machine learning approach. BMC Medical Research Methodology, 2019, 19, 70. | 1.4 | 9 |
| 56 | Prenatal Maternal Cortisol Levels and Infant Birth Weight in a Predominately Low-Income Hispanic Cohort. International Journal of Environmental Research and Public Health, 2020, 17, 6896. | 1.2 | 9 |
| 57 | Inducible Nitric Oxide Synthase Promoter Haplotypes and Residential Traffic-Related Air Pollution Jointly Influence Exhaled Nitric Oxide Level in Children. PLoS ONE, 2015, 10, e0145363. | 1.1 | 9 |
| 58 | Building Autocorrelation-Aware Representations for Fine-Scale Spatiotemporal Prediction. , 2020, , . | | 9 |
| 59 | Patterns and determinants of exhaled nitric oxide trajectories in schoolchildren over a 7-year period. European Respiratory Journal, 2020, 56, 2000011. | 3.1 | 8 |
| 60 | Conceptualizing Health Behaviors as Acute Mood-Altering Agents: Implications for Cancer Control. Cancer Prevention Research, 2020, 13, 343-350. | 0.7 | 8 |
| 61 | Restructuring of amygdala subregion apportion across adolescence. Developmental Cognitive Neuroscience, 2021, 48, 100883. | 1.9 | 8 |
| 62 | Human Serum Albumin Cys34 Adducts in Newborn Dried Blood Spots: Associations With Air Pollution Exposure During Pregnancy. Frontiers in Public Health, 2021, 9, 730369. | 1.3 | 8 |
| 63 | Single high flow exhaled nitric oxide is an imperfect proxy for distal nitric oxide. Occupational and Environmental Medicine, 2013, 70, 519.2-520. | 1.3 | 7 |
| 64 | Optimal flow rate sampling designs for studies with extended exhaled nitric oxide analysis. Journal of Breath Research, 2017, 11, 016012. | 1.5 | 6 |
| 65 | Bayesian estimation of physiological parameters governing a dynamic two-compartment model of exhaled nitric oxide. Physiological Reports, 2017, 5, e13276. | 0.7 | 6 |
| 66 | Spirometry effects on conventional and multiple flow exhaled nitric oxide in children. Journal of Asthma, 2015, 52, 198-204. | 0.9 | 5 |
| 67 | Long-term exposures to air pollutants affect eNO in children: a longitudinal study. European Respiratory Journal, 2021, 58, 2100705. | 3.1 | 5 |
| 68 | Exhaled NO: Determinants and Clinical Application in Children With Allergic Airway Disease. Allergy, Asthma and Immunology Research, 2016, 8, 12. | 1.1 | 5 |
| 69 | Daily Associations of Air Pollution and Pediatric Asthma Risk Using the Biomedical REAL-Time Health Evaluation (BREATHE) Kit. International Journal of Environmental Research and Public Health, 2022, 19, 3578. | 1.2 | 5 |
| 70 | Information fraction estimation based on the number of events within the standard treatment regimen. Biometrical Journal, 2020, 62, 1960-1972. | 0.6 | 4 |
| 71 | Infants born full term and preterm increase the height of anti-gravity leg movements during a kick-activated mobile task using a scaffolded task environment. Infancy, 2021, 26, 168-183. | 0.9 | 4 |
| 72 | Asthma clustering methods: a literature-informed application to the children's health study data. Journal of Asthma, 2022, 59, 1305-1318. | 0.9 | 4 |

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|----|--|-----|-----------|
| 73 | Near-roadway air pollution, immune cells and adipokines among obese young adults. <i>Environmental Health</i> , 2022, 21, 36. | 1.7 | 4 |
| 74 | Household pesticide exposures and infant gross motor development in the MADRES cohort. <i>Paediatric and Perinatal Epidemiology</i> , 2022, 36, 220-229. | 0.8 | 4 |
| 75 | Determinants of Children's Exhaled Nitric Oxide: New Insights from Quantile Regression. <i>PLoS ONE</i> , 2015, 10, e0130505. | 1.1 | 3 |
| 76 | Infants born preterm and infants born full-term generate more selective leg joint movement during the scaffolded mobile task. <i>Infancy</i> , 2021, 26, 756-769. | 0.9 | 3 |
| 77 | Hierarchical Bayesian estimation of covariate effects on airway and alveolar nitric oxide. <i>Scientific Reports</i> , 2021, 11, 17180. | 1.6 | 3 |
| 78 | Associations between testosterone, estradiol, and androgen receptor genotype with amygdala subregions in adolescents. <i>Psychoneuroendocrinology</i> , 2022, 137, 105604. | 1.3 | 3 |
| 79 | Time-activity and daily mobility patterns during pregnancy and early postpartum "evidence from the MADRES cohort. <i>Spatial and Spatio-temporal Epidemiology</i> , 2022, 41, 100502. | 0.9 | 3 |
| 80 | Impaired Ability to Relax Pelvic Floor Muscles in Men With Chronic Prostatitis/Chronic Pelvic Pain Syndrome. <i>Physical Therapy</i> , 2022, 102, . | 1.1 | 3 |
| 81 | Mobile daily diaries to characterize stressors and acute health symptoms in an environmental justice neighborhood. <i>Health and Place</i> , 2022, 76, 102849. | 1.5 | 3 |
| 82 | Interacting with local and remote data repositories using the stashR package. <i>Computational Statistics</i> , 2009, 24, 247-254. | 0.8 | 2 |
| 83 | Compliance in Controlled E-cigarette Studies. <i>Nicotine and Tobacco Research</i> , 2021, 23, 614-618. | 1.4 | 2 |
| 84 | Quantifying Infant Exploratory Learning. <i>Journal of Motor Learning and Development</i> , 2021, , 1-17. | 0.2 | 2 |
| 85 | Building Explainable Predictive Analytics for Location-Dependent Time-Series Data. , 2019, , . | | 1 |
| 86 | Exposure to perfluoroalkyl substances (PFAS) and liver injury: a systematic review and meta-analysis. <i>ISEE Conference Abstracts</i> , 2021, 2021, . | 0.0 | 1 |
| 87 | Impact of different fixed flow sampling protocols on flow-independent exhaled nitric oxide parameter estimates using the Bayesian dynamic two-compartment model. <i>Physiological Reports</i> , 2020, 8, e14336. | 0.7 | 0 |
| 88 | Prenatal Air Pollution Exposure and Longitudinal Infant Weight Gain Trajectories. <i>ISEE Conference Abstracts</i> , 2021, 2021, . | 0.0 | 0 |
| 89 | Prenatal Air Pollution, Maternal Immune Activation, and Autism Spectrum Disorders. <i>ISEE Conference Abstracts</i> , 2021, 2021, . | 0.0 | 0 |
| 90 | Long-term Ambient Air Pollution Associated with Weekly COVID-19 Mortality Counts in California Census Tracts. <i>ISEE Conference Abstracts</i> , 2021, 2021, . | 0.0 | 0 |

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|----|---|-----|-----------|
| 91 | Prenatal Perfluoroalkyl Substances and Fetal Growth Trajectories Within the MADRES Pregnancy Cohort. ISEE Conference Abstracts, 2021, 2021, . | 0.0 | 0 |
| 92 | Prenatal exposure to near-roadway air pollution and autism spectrum disorders in children. ISEE Conference Abstracts, 2021, 2021, . | 0.0 | 0 |
| 93 | W-TSS: A Wavelet-Based Algorithm for Discovering Time Series Shapelets. Sensors, 2021, 21, 5801. | 2.1 | 0 |
| 94 | Longer- and Shorter-term Air Pollution Exposure Associated with COVID-19 Severity and Mortality: A Large Cohort Study in Southern California. ISEE Conference Abstracts, 2021, 2021, . | 0.0 | 0 |
| 95 | Perceived Discrimination and Social Isolation Among Postpartum Hispanic Women in the MADRES Pregnancy Cohort Before and After the COVID-19 Pandemic. ISEE Conference Abstracts, 2021, 2021, . | 0.0 | 0 |
| 96 | Prenatal Metal Mixtures and Child Blood Pressure in the Rhea Mother-Child Cohort. ISEE Conference Abstracts, 2021, 2021, . | 0.0 | 0 |
| 97 | Associations between liver PFAS concentrations and plasma extracellular miRNAs in a cohort of adolescents undergoing bariatric surgery. ISEE Conference Abstracts, 2021, 2021, . | 0.0 | 0 |
| 98 | Third trimester cortisol is positively associated with gestational weight gain in pregnant women with class one obesity. International Journal of Obesity, 2021, , . | 1.6 | 0 |