

Sandra P Eckel

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,249
citations

201674

27
h-index

265206

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.	5.6	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.	6.0	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.	2.9	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.	1.2	111
5	Particulate matter air pollution and liver cancer survival. <i>International Journal of Cancer</i> , 2017, 141, 744-749.	5.1	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.	10.0	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.	1.4	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.	10.0	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.	6.0	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.	3.4	53
11	Exhaled NO: Determinants and Clinical Application in Children With Allergic Airway Disease. <i>Allergy, Asthma and Immunology Research</i> , 2016, 8, 12.	2.9	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.	5.9	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.	2.4	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.	6.0	46
15	Traffic-related air pollution and alveolar nitric oxide in southern California children. <i>European Respiratory Journal</i> , 2016, 47, 1348-1356.	6.7	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.	2.8	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.	7.5	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.	6.0	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.	2.5	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.	2.7	34
21	Prenatal metal mixtures and child blood pressure in the Rhea mother-child cohort in Greece. <i>Environmental Health</i> , 2021, 20, 1.	4.0	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.	1.9	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.	2.9	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.	1.2	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.	3.8	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.	5.6	33
27	Surrogate screening models for the low physical activity criterion of frailty. <i>Aging Clinical and Experimental Research</i> , 2011, 23, 209-216.	2.9	31
28	Distributed representation of pelvic floor muscles in human motor cortex. <i>Scientific Reports</i> , 2018, 8, 7213.	3.3	30
29	Gestational diabetes mellitus, prenatal air pollution exposure, and autism spectrum disorder. <i>Environment International</i> , 2019, 133, 105110.	10.0	30
30	Applying Multivariate Segmentation Methods to Human Activity Recognition From Wearable Sensorsâ€™ Data. <i>JMIR MHealth and UHealth</i> , 2019, 7, e11201.	3.7	28
31	Ambient air pollution and COVID-19 incidence during four 2020â€™2021 case surges. <i>Environmental Research</i> , 2022, 208, 112758.	7.5	27
32	Estimation of Parameters in the Two-Compartment Model for Exhaled Nitric Oxide. <i>PLoS ONE</i> , 2014, 9, e85471.	2.5	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.	2.6	25
34	Biomedical REAL-Time Health Evaluation (BREATHE): toward an mHealth informatics platform. <i>JAMIA Open</i> , 2020, 3, 190-200.	2.0	24
35	Multipleâ€™flow exhaled nitric oxide, allergy, and asthma in a population of older children. <i>Pediatric Pulmonology</i> , 2013, 48, 885-896.	2.0	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.	10.0	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. BMC Public Health, 2019, 19, 253.	2.9	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. Environmental Research, 2021, 196, 110388.	7.5	20
40	Genetic and epigenetic susceptibility of airway inflammation to PM2.5 in school children: new insights from quantile regression. Environmental Health, 2017, 16, 88.	4.0	19
41	In utero exposure to near-roadway air pollution and autism spectrum disorder in children. Environment International, 2022, 158, 106898.	10.0	18
42	Association of Outdoor Ambient Fine Particulate Matter With Intracellular White Matter Microstructural Properties Among Children. JAMA Network Open, 2021, 4, e2138300.	5.9	18
43	On the importance of statistics in breath analysisâ€”hope or curse?. Journal of Breath Research, 2014, 8, 012001.	3.0	17
44	Environmental chemical burden in metabolic tissues and systemic biological pathways in adolescent bariatric surgery patients: A pilot untargeted metabolomic approach. Environment International, 2020, 143, 105957.	10.0	17
45	Evidence of susceptibility to autism risks associated with early life ambient air pollution: A systematic review. Environmental Research, 2022, 208, 112590.	7.5	16
46	Respiratory health, pulmonary function and local engagement in urban communities near oil development. Environmental Research, 2021, 197, 111088.	7.5	15
47	Prenatal ambient air pollution and maternal depression at 12â€™months postpartum in the MADRES pregnancy cohort. Environmental Health, 2021, 20, 121.	4.0	15
48	Assessment of Respiratory Health Symptoms and Asthma in Children near a Drying Saline Lake. International Journal of Environmental Research and Public Health, 2019, 16, 3828.	2.6	14
49	Extracellular vesicle microRNA in early versus late pregnancy with birth outcomes in the MADRES study. Epigenetics, 2022, 17, 269-285.	2.7	14
50	Long-term air pollution and COVID-19 mortality rates in California: Findings from the Spring/Summer and Winter surges of COVID-19. Environmental Pollution, 2022, 292, 118396.	7.5	14
51	Distributed Reproducible Research Using Cached Computations. Computing in Science and Engineering, 2009, 11, 28-34.	1.2	13
52	Extracellular vesicle-enriched miRNA profiles across pregnancy in the MADRES cohort. PLoS ONE, 2021, 16, e0251259.	2.5	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. Environmental Epidemiology, 2018, 2, e012.	3.0	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.	3.1	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.	2.6	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.	2.5	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.	6.7	8
60	Conceptualizing Health Behaviors as Acute Mood-Altering Agents: Implications for Cancer Control. Cancer Prevention Research, 2020, 13, 343-350.	1.5	8
61	Restructuring of amygdala subregion apportion across adolescence. Developmental Cognitive Neuroscience, 2021, 48, 100883.	4.0	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.	2.7	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.	2.8	7
64	Optimal flow rate sampling designs for studies with extended exhaled nitric oxide analysis. Journal of Breath Research, 2017, 11, 016012.	3.0	6
65	Bayesian estimation of physiological parameters governing a dynamic two-compartment model of exhaled nitric oxide. Physiological Reports, 2017, 5, e13276.	1.7	6
66	Spirometry effects on conventional and multiple flow exhaled nitric oxide in children. Journal of Asthma, 2015, 52, 198-204.	1.7	5
67	Long-term exposures to air pollutants affect eNO in children: a longitudinal study. European Respiratory Journal, 2021, 58, 2100705.	6.7	5
68	Exhaled NO: Determinants and Clinical Application in Children With Allergic Airway Disease. Allergy, Asthma and Immunology Research, 2016, 8, 12.	2.9	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.	2.6	5
70	Information fraction estimation based on the number of events within the standard treatment regimen. Biometrical Journal, 2020, 62, 1960-1972.	1.0	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.	1.6	4
72	Asthma clustering methods: a literature-informed application to the children's health study data. Journal of Asthma, 2022, 59, 1305-1318.	1.7	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.	4.0	4
74	Household pesticide exposures and infant gross motor development in the MADRES cohort. <i>Paediatric and Perinatal Epidemiology</i> , 2022, 36, 220-229.	1.7	4
75	Determinants of Children's Exhaled Nitric Oxide: New Insights from Quantile Regression. <i>PLoS ONE</i> , 2015, 10, e0130505.	2.5	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.	1.6	3
77	Hierarchical Bayesian estimation of covariate effects on airway and alveolar nitric oxide. <i>Scientific Reports</i> , 2021, 11, 17180.	3.3	3
78	Associations between testosterone, estradiol, and androgen receptor genotype with amygdala subregions in adolescents. <i>Psychoneuroendocrinology</i> , 2022, 137, 105604.	2.7	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.	1.7	3
80	Impaired Ability to Relax Pelvic Floor Muscles in Men With Chronic Prostatitis/Chronic Pelvic Pain Syndrome. <i>Physical Therapy</i> , 2022, 102, .	2.4	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.	3.3	3
82	Interacting with local and remote data repositories using the stashR package. <i>Computational Statistics</i> , 2009, 24, 247-254.	1.5	2
83	Compliance in Controlled E-cigarette Studies. <i>Nicotine and Tobacco Research</i> , 2021, 23, 614-618.	2.6	2
84	Quantifying Infant Exploratory Learning. <i>Journal of Motor Learning and Development</i> , 2021, , 1-17.	0.4	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.	1.7	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.	3.8	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, , .	3.4	0