Roger D Peng

List of Publications by Year
in descending order

109 papers	9,105 citations	81900 39 h-index	40979 93 g-index
110 all docs	110 docs citations	110 times ranked	11482 citing authors

#	Article	IF	Citations
1	Comprehensive home environmental intervention did not reduce allergen concentrations or controller medication requirements among children in Baltimore. Journal of Asthma, 2023, 60, 625-634.	1.7	6
2	Randomized Clinical Trial of Air Cleaners to Improve Indoor Air Quality and Chronic Obstructive Pulmonary Disease Health: Results of the CLEAN AIR Study. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 421-430.	5.6	41
3	Perspective on Data Science. Annual Review of Statistics and Its Application, 2022, 9, 1-20.	7.0	6
4	Race, Lung Function, and Long-Term Mortality in the National Health and Nutrition Examination Survey III. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 723-724.	5.6	46
5	Estimating the health effects of environmental mixtures using principal stratification. Statistics in Medicine, 2022, 41, 1815-1828.	1.6	4
6	Assessing the health estimation capacity of air pollution exposure prediction models. Environmental Health, 2022, 21, 35.	4.0	0
7	Phthalate biomarkers and associations with respiratory symptoms and healthcare utilization among low-income urban children with asthma. Environmental Research, 2022, 212, 113239.	7.5	12
8	Ambient ozone effects on respiratory outcomes among smokers modified by neighborhood poverty: An analysis of SPIROMICS AIR. Science of the Total Environment, 2022, 829, 154694.	8.0	9
9	Risk factors for antimicrobial resistance among <i>Staphylococcus</i> isolated from pets living with a patient diagnosed with methicillinâ€‘resistant <i>Staphylococcus aureus</i> infection. Zoonoses and Public Health, 2022, , .	2.2	3
10	Long-Term Ambient Air Pollution and Childhood Eczema in the United States. Environmental Health Perspectives, 2022, 130, .	6.0	3
11	Exposure to bisphenols and asthma morbidity among low-income urban children with asthma. Journal of Allergy and Clinical Immunology, 2021, 147, 577-586.e7.	2.9	32
12	Age and eczema severity, but not family history, are major risk factors for peanut allergy in infancy. Journal of Allergy and Clinical Immunology, 2021, 147, 984-991.e5.	2.9	52
13	Ara h 2â€"specific IgE is superior to whole peanut extractâ€"based serology or skin prick test for diagnosis of peanut allergy in infancy. Journal of Allergy and Clinical Immunology, 2021, 147, 977-983.e2.	2.9	40
14	Tropical Cyclone Exposures and Risks of Emergency Medicare Hospital Admission for Cardiorespiratory Diseases in 175 Urban United States Counties, 1999â€"2010. Epidemiology, 2021, 32, 315-326.	2.7	21
15	Reproducible Research: A Retrospective. Annual Review of Public Health, 2021, 42, 79-93.	17.4	28
16	Determinants of phthalate exposure among a U.S.-based group of Latino workers. International Journal of Hygiene and Environmental Health, 2021, 234, 113739.	4.3	3
17	Reply to â€œDo rural health disparities affect prevalence data in pediatric eosinophilic esophagitis?â€• Journal of Allergy and Clinical Immunology: in Practice, 2021, 9, 2551-2552.	3.8	0
18	Mortality displacement as a type of selection bias: consequences and causal perspectives. ISEE Conference Abstracts, 2021, 2021, .	0.0	0

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19	Temporal variation in association between short-term exposure to fine particulate matter and hospitalisations in older adults in the USA: a long-term time-series analysis of the US Medicare dataset. Lancet Planetary Health, The, 2021, 5, e534-e541.	11.4	15
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	Distance to pediatric gastroenterology providers is associated with decreased diagnosis of eosinophilic esophagitis in rural populations. Journal of Allergy and Clinical Immunology: in Practice, 2021, 9, 4489-4492.e2.	3.8	8
22	Do temporal trends of associations between short-term exposure to fine particulate matter (PM2.5) and risk of hospitalizations differ by sub-populations and urbanicityâ€"a study of 968 U.S. counties and the Medicare population. Environmental Research, 2021, , 112271.	7.5	4
23	Diagnosing Data Analytic Problems in the Classroom. Journal of Statistics and Data Science Education, 2021, 29, 267-276.	1.6	3
24	The Democratization of Data Science Education. American Statistician, 2020, 74, 1-7.	1.6	21
25	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
26	The effect of dog allergen exposure on asthma morbidity among innerâ€city children with asthma. Pediatric Allergy and Immunology, 2020, 31, 210-213.	2.6	1
27	Reduction in mouse allergen exposure is associated with greater lung function growth. Journal of Allergy and Clinical Immunology, 2020, 145, 646-653.e1.	2.9	32
28	Association of Long-term Ambient Ozone Exposure With Respiratory Morbidity in Smokers. JAMA Internal Medicine, 2020, 180, 106.	5.1	49
29	2020 Updated Asthma Guidelines: Indoor allergen reduction. Journal of Allergy and Clinical Immunology, 2020, 146, 1283-1285.	2.9	5
30	Prevalence and geographic distribution of pediatric eosinophilic esophagitis in the 2012 US Medicaid population. Journal of Allergy and Clinical Immunology: in Practice, 2020, 8, 2796-2798.e4.	3.8	20
31	Assessing United States County-Level Exposure for Research on Tropical Cyclones and Human Health. Environmental Health Perspectives, 2020, 128, 107009.	6.0	19
32	Material Hardship and Indoor Allergen Exposure among Low-Income, Urban, Minority Children with Persistent Asthma. Journal of Community Health, 2020, 45, 1017-1026.	3.8	9
33	The effect of season of birth on atopic dermatitis and food allergy. Annals of Allergy, Asthma and Immunology, 2020, 125, 221-223.e2.	1.0	6
34	Error in estimating areaâ€level air pollution exposures for epidemiology. Environmetrics, 2019, 30, e2573.	1.4	15
35	Closing the door on social determinants of health and asthma disparities: Not so fast. Journal of Allergy and Clinical Immunology: in Practice, 2019, 7, 2101-2102.	3.8	6
36	The impact of heat waves on mortality in Northwest India. Environmental Research, 2019, 176, 108546.	7.5	32

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37	A visual tool for defining reproducibility and replicability. Nature Human Behaviour, 2019, 3, 650-652.	12.0	26
38	Use of earth observation-derived hydrometeorological variables to model and predict rotavirus infection (MAL-ED): a multisite cohort study. Lancet Planetary Health, The, 2019, 3, e248-e258.	11.4	22
39	The Shape of the Concentrationâ€"Response Association between Fine Particulate Matter Pollution and Human Mortality in Beijing, China, and Its Implications for Health Impact Assessment. Environmental Health Perspectives, 2019, 127, 67007.	6.0	36
40	Time's up to adopt a biopsychosocial model to address racial and ethnic disparities in asthma outcomes. Journal of Allergy and Clinical Immunology, 2019, 143, 2024-2025.	2.9	25
41	Cockroach, dust mite, and shrimp sensitization correlations in the National Health and Nutrition Examination Survey. Annals of Allergy, Asthma and Immunology, 2019, 122, 536-538.e1.	1.0	9
42	The impact of wildfire smoke on compositions of fine particulate matter by ecoregion in the Western US. Journal of Exposure Science and Environmental Epidemiology, 2019, 29, 765-776.	3.9	29
43	Rural Residence and Poverty Are Independent Risk Factors for Chronic Obstructive Pulmonary Disease in the United States. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 961-969.	5.6	67
44	The January 2013 Beijing â€œAirpocalypseâ€•and its acute effects on emergency and outpatient visits at a Beijing hospital. Air Quality, Atmosphere and Health, 2018, 11, 301-309.	3.3	14
45	Health effect of mixtures of ozone, nitrogen dioxide, and fine particulates in 85 US counties. Air Quality, Atmosphere and Health, 2018, 11, 311-324.	3.3	23
46	Classifying heatwaves: developing health-based models to predict high-mortality versus moderate United States heatwaves. Climatic Change, 2018, 146, 439-453.	3.6	17
47	Projected trends in high-mortality heatwaves under different scenarios of climate, population, and adaptation in 82 US communities. Climatic Change, 2018, 146, 455-470.	3.6	58
48	Long-Term Coarse Particulate Matter Exposure Is Associated with Asthma among Children in Medicaid. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 737-746.	5.6	84
49	Physician-diagnosed eczema is an independent risk factor for incident mouse skin test sensitization in adults. Allergy and Asthma Proceedings, 2018, 39, 311-315.	2.2	1
50	Overweight/obesity enhances associations between secondhand smoke exposure and asthma morbidity in children. Journal of Allergy and Clinical Immunology: in Practice, 2018, 6, 2157-2159.e5.	3.8	18
51	A hierarchical modeling approach to estimate regional acute health effects of particulate matter sources. Statistics in Medicine, 2017, 36, 1461-1475.	1.6	6
52	Urban residence, neighborhood poverty, race/ethnicity, and asthma morbidity among children on Medicaid. Journal of Allergy and Clinical Immunology, 2017, 140, 822-827.	2.9	123
53	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
54	Wildfire-specific Fine Particulate Matter and Risk of Hospital Admissions in Urban and Rural Counties. Epidemiology, 2017, 28, 77-85.	2.7	175

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55	Who Among the Elderly Is Most Vulnerable to Exposure to and Health Risks of Fine Particulate Matter From Wildfire Smoke?. American Journal of Epidemiology, 2017, 186, 730-735.	3.4	79
56	Predictors of polycyclic aromatic hydrocarbon exposure and internal dose in inner city Baltimore children. Journal of Exposure Science and Environmental Epidemiology, 2017, 27, 290-298.	3.9	13
57	Drought and the risk of hospital admissions and mortality in older adults in western USA from 2000 to 2013: a retrospective study. Lancet Planetary Health, The, 2017, 1, e17-e25.	11.4	55
58	24-h Nitrogen dioxide concentration is associated with cooking behaviors and an increase in rescue medication use in children with asthma. Environmental Research, 2017, 159, 118-123.	7.5	25
59	Colder temperature is associated with increased COPD morbidity. European Respiratory Journal, 2017, 49, 1601501.	6.7	35
60	Comment on â€œ50 Years of Data Scienceâ€. Journal of Computational and Graphical Statistics, 2017, 26, 767-767.	1.7	0
61	Airborne Fine Particles and Risk of Hospital Admissions for Understudied Populations: Effects by Urbanicity and Short-Term Cumulative Exposures in 708 U.S. Counties. Environmental Health Perspectives, 2017, 125, 594-601.	6.0	60
62	A Randomized Controlled Trial of the Effect of Broccoli Sprouts on Antioxidant Gene Expression and Airway Inflammation in Asthmatics. Journal of Allergy and Clinical Immunology: in Practice, 2016, 4, 932-940.	3.8	42
63	Changes in Food-Specific IgE Over Time in the National Health and Nutrition Examination Survey (NHANES). Journal of Allergy and Clinical Immunology: in Practice, 2016, 4, 713-720.	3.8	49
64	Respiratory Effects of Indoor Heat and the Interaction with Air Pollution in Chronic Obstructive Pulmonary Disease. Annals of the American Thoracic Society, 2016, 13, 2125-2131.	3.2	45
65	What Should Researchers Expect When They Replicate Studies? A Statistical View of Replicability in Psychological Science. Perspectives on Psychological Science, 2016, 11, 539-544.	9.0	168
66	Racial/ethnic and socioeconomic differences in self-reported food allergy among food-sensitized children in National Health and Nutrition Examination Survey III. Annals of Allergy, Asthma and Immunology, 2016, 117, 570-572.e3.	1.0	12
67	Metal mixtures in urban and rural populations in the US: The Multi-Ethnic Study of Atherosclerosis and the Strong Heart Study. Environmental Research, 2016, 147, 356-364.	7.5	48
68	Current Methods and Challenges for Epidemiological Studies of the Associations Between Chemical Constituents of Particulate Matter and Health. Current Environmental Health Reports, 2015, 2, 388-398.	6.7	27
69	Brief Report. Epidemiology, 2015, 26, 575-579.	2.7	74
70	What is the question?. Science, 2015, 347, 1314-1315.	12.6	69
71	Neighborhood poverty, urban residence, race/ethnicity, and asthma: Rethinking the inner-city asthma epidemic. Journal of Allergy and Clinical Immunology, 2015, 135, 655-662.	2.9	182
72	Effect of poverty, urbanization, and race/ethnicity on perceived food allergy in the United States. Annals of Allergy, Asthma and Immunology, 2015, 115, 85-86.e2.	1.0	15

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73	Staphylococcus aureus colonization is associated with wheeze and asthma among US children and young adults. Journal of Allergy and Clinical Immunology, 2015, 135, 811-813.e5.	2.9	62
74	Estimating the health benefit of reducing indoor air pollution in a randomized environmental intervention. Journal of the Royal Statistical Society Series A: Statistics in Society, 2015, 178, 425-443.	1.1	19
75	Obesity as a susceptibility factor to indoor particulate matter health effects in COPD. European Respiratory Journal, 2015, 45, 1248-1257.	6.7	42
76	A model-based approach for imputing censored data in source apportionment studies. Environmental and Ecological Statistics, 2015, 22, 779-800.	3.5	5
77	Associations of PM$_{2.5}$ Constituents and Sources with Hospital Admissions: Analysis of Four Counties in Connecticut and Massachusetts (USA) for Persons ≥ 65 Years of Age. Environmental Health Perspectives, 2014, 122, 138-144.	6.0	186
78	Associations between serum folate and vitamin D levels and incident mouse sensitization in adults. Journal of Allergy and Clinical Immunology, 2014, 133, 399-404.	2.9	11
79	What is the impact of systematically missing exposure data on air pollution health effect estimates?. Air Quality, Atmosphere and Health, 2014, 7, 415-420.	3.3	5
80	Temporal trends and racial/ethnic disparity in self-reported pediatric food allergy in the United States. Annals of Allergy, Asthma and Immunology, 2014, 112, 222-229.e3.	1.0	118
81	Salivary Inflammatory Mediator Profiling and Correlation to Clinical Disease Markers in Asthma. PLoS ONE, 2014, 9, e84449.	2.5	35
82	A randomized trial in a massive online open course shows people don't know what a statistically significant relationship looks like, but they can learn. PeerJ, 2014, 2, e589.	2.0	11
83	Acute effects of ambient ozone on mortality in Europe and North America: results from the APHENA study. Air Quality, Atmosphere and Health, 2013, 6, 445-453.	3.3	87
84	Mouse allergen is the major allergen of public health relevance in Baltimore City. Journal of Allergy and Clinical Immunology, 2013, 132, 830-835.e2.	2.9	112
85	Reduced hierarchical models with application to estimating health effects of simultaneous exposure to multiple pollutants. Journal of the Royal Statistical Society Series C: Applied Statistics, 2013, 62, 451-472.	1.0	9
86	Short-term Exposure to Particulate Matter Constituents and Mortality in a National Study of U.S. Urban Communities. Environmental Health Perspectives, 2013, 121, 1148-1153.	6.0	151
87	Measurement error in air pollution epidemiology: guidance for uncertain times. Environmetrics, 2013, 24, 529-530.	1.4	1
88	Indoor Air Quality in Central Appalachia Homes Impacted by Wood and Coal Use. Journal of Environmental Protection, 2013, 04, 67-71.	0.7	4
89	Guest Editors' Introduction to the Special Issue on Climate Change and Human Health. Journal of Agricultural, Biological, and Environmental Statistics, 2012, 17, 311-312.	1.4	0
90	Both the variability and level of mouse allergen exposure influence the phenotype of the immune response in workers at a mouse facility. Journal of Allergy and Clinical Immunology, 2011, 128, 390-396.e7.	2.9	38

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91	Reproducible Research in Computational Science. Science, 2011, 334, 1226-1227.	12.6	959
92	Toward a Quantitative Estimate of Future Heat Wave Mortality under Global Climate Change. Environmental Health Perspectives, 2011, 119, 701-706.	6.0	238
93	Parallel Bayesian MCMC Imputation for Multiple Distributed Lag Models: A Case Study in Environmental Epidemiology. Chapman & Hall/CRC Interdisciplinary Statistics Series, 2011, , 493-512.	0.4	10
94	Spatial misalignment in time series studies of air pollution and health data. Biostatistics, 2010, 11, 720-740.	1.5	81
95	Discussion of Keiding. Biostatistics, 2010, 11, 393-394.	1.5	2
96	Emergency Admissions for Cardiovascular and Respiratory Diseases and the Chemical Composition of Fine Particle Air Pollution. Environmental Health Perspectives, 2009, 117, 957-963.	6.0	450
97	Distributed Reproducible Research Using Cached Computations. Computing in Science and Engineering, 2009, 11, 28-34.	1.2	13
98	Interacting with local and remote data repositories using the stashR package. Computational Statistics, 2009, 24, 247-254.	1.5	2
99	A Bayesian Hierarchical Distributed Lag Model for Estimating the Time Course of Risk of Hospitalization Associated with Particulate Matter Air Pollution. Journal of the Royal Statistical Society Series C: Applied Statistics, 2009, 58, 3-24.	1.0	19
100	Seasonal and Regional Short-term Effects of Fine Particles on Hospital Admissions in 202 US Counties, 1999–2005. American Journal of Epidemiology, 2008, 168, 1301-1310.	3.4	260
101	Coarse Particulate Matter Air Pollution and Hospital Admissions for Cardiovascular and Respiratory Diseases Among Medicare Patients. JAMA - Journal of the American Medical Association, 2008, 299, 2172.	7.4	327
102	Particulate Air Pollution and Mortality in the United States: Did the Risks Change from 1987 to 2000?. American Journal of Epidemiology, 2007, 166, 880-888.	3.4	155
103	Model choice in time series studies of air pollution and mortality. Journal of the Royal Statistical Society Series A: Statistics in Society, 2006, 169, 179-203.	1.1	439
104	Fine Particulate Air Pollution and Hospital Admission for Cardiovascular and Respiratory Diseases. JAMA - Journal of the American Medical Association, 2006, 295, 1127.	7.4	2,130
105	Reproducible Epidemiologic Research. American Journal of Epidemiology, 2006, 163, 783-789.	3.4	218
106	Seasonal Analyses of Air Pollution and Mortality in 100 US Cities. American Journal of Epidemiology, 2005, 161, 585-594.	3.4	384
107	A Space–Time Conditional Intensity Model for Evaluating a Wildfire Hazard Index. Journal of the American Statistical Association, 2005, 100, 26-35.	3.1	54
108	Quantitative Analysis of Literary Styles. American Statistician, 2002, 56, 175-185.	1.6	65

#	Article	IF	Citations
109	Extracting Information from Big Data: Issues of Measurement, Inference and Linkage. , 0, , 257-275.		8