

Roger D Peng

List of Publications by Year in descending order

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109
papers

9,105
citations

81743

39
h-index

42291

92
g-index

110
all docs

110
docs citations

110
times ranked

11482
citing authors

#	ARTICLE	IF	CITATIONS
1	Fine Particulate Air Pollution and Hospital Admission for Cardiovascular and Respiratory Diseases. JAMA - Journal of the American Medical Association, 2006, 295, 1127.	3.8	2,130
2	Reproducible Research in Computational Science. Science, 2011, 334, 1226-1227.	6.0	959
3	Emergency Admissions for Cardiovascular and Respiratory Diseases and the Chemical Composition of Fine Particle Air Pollution. Environmental Health Perspectives, 2009, 117, 957-963.	2.8	450
4	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.	0.6	439
5	Seasonal Analyses of Air Pollution and Mortality in 100 US Cities. American Journal of Epidemiology, 2005, 161, 585-594.	1.6	384
6	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.	3.8	327
7	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.	1.6	260
8	Toward a Quantitative Estimate of Future Heat Wave Mortality under Global Climate Change. Environmental Health Perspectives, 2011, 119, 701-706.	2.8	238
9	Reproducible Epidemiologic Research. American Journal of Epidemiology, 2006, 163, 783-789.	1.6	218
10	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.	2.8	186
11	Neighborhood poverty, urban residence, race/ethnicity, and asthma: Rethinking the inner-city asthma epidemic. Journal of Allergy and Clinical Immunology, 2015, 135, 655-662.	1.5	182
12	Wildfire-specific Fine Particulate Matter and Risk of Hospital Admissions in Urban and Rural Counties. Epidemiology, 2017, 28, 77-85.	1.2	175
13	What Should Researchers Expect When They Replicate Studies? A Statistical View of Replicability in Psychological Science. Perspectives on Psychological Science, 2016, 11, 539-544.	5.2	168
14	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.	1.6	155
15	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.	2.8	151
16	Urban residence, neighborhood poverty, race/ethnicity, and asthma morbidity among children on Medicaid. Journal of Allergy and Clinical Immunology, 2017, 140, 822-827.	1.5	123
17	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.	0.5	118
18	Mouse allergen is the major allergen of public health relevance in Baltimore City. Journal of Allergy and Clinical Immunology, 2013, 132, 830-835.e2.	1.5	112

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19	Effect of an Integrated Pest Management Intervention on Asthma Symptoms Among Mouse-Sensitized Children and Adolescents With Asthma. <i>JAMA - Journal of the American Medical Association</i> , 2017, 317, 1027.	3.8	96
20	Acute effects of ambient ozone on mortality in Europe and North America: results from the APHENA study. <i>Air Quality, Atmosphere and Health</i> , 2013, 6, 445-453.	1.5	87
21	Long-Term Coarse Particulate Matter Exposure Is Associated with Asthma among Children in Medicaid. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 737-746.	2.5	84
22	Spatial misalignment in time series studies of air pollution and health data. <i>Biostatistics</i> , 2010, 11, 720-740.	0.9	81
23	Who Among the Elderly Is Most Vulnerable to Exposure to and Health Risks of Fine Particulate Matter From Wildfire Smoke?. <i>American Journal of Epidemiology</i> , 2017, 186, 730-735.	1.6	79
24	Brief Report. <i>Epidemiology</i> , 2015, 26, 575-579.	1.2	74
25	What is the question?. <i>Science</i> , 2015, 347, 1314-1315.	6.0	69
26	Rural Residence and Poverty Are Independent Risk Factors for Chronic Obstructive Pulmonary Disease in the United States. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 961-969.	2.5	67
27	Quantitative Analysis of Literary Styles. <i>American Statistician</i> , 2002, 56, 175-185.	0.9	65
28	Staphylococcus aureus colonization is associated with wheeze and asthma among US children and young adults. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 811-813.e5.	1.5	62
29	Airborne Fine Particles and Risk of Hospital Admissions for Understudied Populations: Effects by Urbanicity and Short-Term Cumulative Exposures in 708 U.S. Counties. <i>Environmental Health Perspectives</i> , 2017, 125, 594-601.	2.8	60
30	Projected trends in high-mortality heatwaves under different scenarios of climate, population, and adaptation in 82 US communities. <i>Climatic Change</i> , 2018, 146, 455-470.	1.7	58
31	Drought and the risk of hospital admissions and mortality in older adults in western USA from 2000 to 2013: a retrospective study. <i>Lancet Planetary Health</i> , The, 2017, 1, e17-e25.	5.1	55
32	A Space-Time Conditional Intensity Model for Evaluating a Wildfire Hazard Index. <i>Journal of the American Statistical Association</i> , 2005, 100, 26-35.	1.8	54
33	Age and eczema severity, but not family history, are major risk factors for peanut allergy in infancy. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 984-991.e5.	1.5	52
34	Changes in Food-Specific IgE Over Time in the National Health and Nutrition Examination Survey (NHANES). <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2016, 4, 713-720.	2.0	49
35	Association of Long-term Ambient Ozone Exposure With Respiratory Morbidity in Smokers. <i>JAMA Internal Medicine</i> , 2020, 180, 106.	2.6	49
36	Metal mixtures in urban and rural populations in the US: The Multi-Ethnic Study of Atherosclerosis and the Strong Heart Study. <i>Environmental Research</i> , 2016, 147, 356-364.	3.7	48

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37	Race, Lung Function, and Long-Term Mortality in the National Health and Nutrition Examination Survey III. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 723-724.	2.5	46
38	Respiratory Effects of Indoor Heat and the Interaction with Air Pollution in Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2016, 13, 2125-2131.	1.5	45
39	Obesity as a susceptibility factor to indoor particulate matter health effects in COPD. <i>European Respiratory Journal</i> , 2015, 45, 1248-1257.	3.1	42
40	A Randomized Controlled Trial of the Effect of Broccoli Sprouts on Antioxidant Gene Expression and Airway Inflammation in Asthmatics. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2016, 4, 932-940.	2.0	42
41	Randomized Clinical Trial of Air Cleaners to Improve Indoor Air Quality and Chronic Obstructive Pulmonary Disease Health: Results of the CLEAN AIR Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 421-430.	2.5	41
42	Ara h 2â€™specific IgE is superior to whole peanut extractâ€™based serology or skin prick test for diagnosis of peanut allergy in infancy. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 977-983.e2.	1.5	40
43	Both the variability and level of mouse allergen exposure influence the phenotype of the immune response in workers at a mouse facility. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 128, 390-396.e7.	1.5	38
44	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. <i>Environmental Health Perspectives</i> , 2019, 127, 67007.	2.8	36
45	Colder temperature is associated with increased COPD morbidity. <i>European Respiratory Journal</i> , 2017, 49, 1601501.	3.1	35
46	Salivary Inflammatory Mediator Profiling and Correlation to Clinical Disease Markers in Asthma. <i>PLoS ONE</i> , 2014, 9, e84449.	1.1	35
47	The impact of heat waves on mortality in Northwest India. <i>Environmental Research</i> , 2019, 176, 108546.	3.7	32
48	Reduction in mouse allergen exposure is associated with greater lung function growth. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 646-653.e1.	1.5	32
49	Exposure to bisphenols and asthma morbidity among low-income urban children with asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 577-586.e7.	1.5	32
50	The impact of wildfire smoke on compositions of fine particulate matter by ecoregion in the Western US. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 765-776.	1.8	29
51	Reproducible Research: A Retrospective. <i>Annual Review of Public Health</i> , 2021, 42, 79-93.	7.6	28
52	Current Methods and Challenges for Epidemiological Studies of the Associations Between Chemical Constituents of Particulate Matter and Health. <i>Current Environmental Health Reports</i> , 2015, 2, 388-398.	3.2	27
53	A visual tool for defining reproducibility and replicability. <i>Nature Human Behaviour</i> , 2019, 3, 650-652.	6.2	26
54	24-h Nitrogen dioxide concentration is associated with cooking behaviors and an increase in rescue medication use in children with asthma. <i>Environmental Research</i> , 2017, 159, 118-123.	3.7	25

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55	Time's up to adopt a biopsychosocial model to address racial and ethnic disparities in asthma outcomes. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 2024-2025.	1.5	25
56	Health effect of mixtures of ozone, nitrogen dioxide, and fine particulates in 85 US counties. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 311-324.	1.5	23
57	Use of earth observation-derived hydrometeorological variables to model and predict rotavirus infection (MAL-ED): a multisite cohort study. <i>Lancet Planetary Health</i> , The, 2019, 3, e248-e258.	5.1	22
58	The Democratization of Data Science Education. <i>American Statistician</i> , 2020, 74, 1-7.	0.9	21
59	Tropical Cyclone Exposures and Risks of Emergency Medicare Hospital Admission for Cardiorespiratory Diseases in 175 Urban United States Counties, 1999-2010. <i>Epidemiology</i> , 2021, 32, 315-326.	1.2	21
60	Prevalence and geographic distribution of pediatric eosinophilic esophagitis in the 2012 US Medicaid population. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 2796-2798.e4.	2.0	20
61	A Bayesian Hierarchical Distributed Lag Model for Estimating the Time Course of Risk of Hospitalization Associated with Particulate Matter Air Pollution. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2009, 58, 3-24.	0.5	19
62	Estimating the health benefit of reducing indoor air pollution in a randomized environmental intervention. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2015, 178, 425-443.	0.6	19
63	Assessing United States County-Level Exposure for Research on Tropical Cyclones and Human Health. <i>Environmental Health Perspectives</i> , 2020, 128, 107009.	2.8	19
64	Overweight/obesity enhances associations between secondhand smoke exposure and asthma morbidity in children. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2018, 6, 2157-2159.e5.	2.0	18
65	Classifying heatwaves: developing health-based models to predict high-mortality versus moderate United States heatwaves. <i>Climatic Change</i> , 2018, 146, 439-453.	1.7	17
66	Effect of poverty, urbanization, and race/ethnicity on perceived food allergy in the United States. <i>Annals of Allergy, Asthma and Immunology</i> , 2015, 115, 85-86.e2.	0.5	15
67	Error in estimating area-level air pollution exposures for epidemiology. <i>Environmetrics</i> , 2019, 30, e2573.	0.6	15
68	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. <i>Lancet Planetary Health</i> , The, 2021, 5, e534-e541.	5.1	15
69	The January 2013 Beijing "Airpocalypse" and its acute effects on emergency and outpatient visits at a Beijing hospital. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 301-309.	1.5	14
70	Distributed Reproducible Research Using Cached Computations. <i>Computing in Science and Engineering</i> , 2009, 11, 28-34.	1.2	13
71	Predictors of polycyclic aromatic hydrocarbon exposure and internal dose in inner city Baltimore children. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2017, 27, 290-298.	1.8	13
72	Racial/ethnic and socioeconomic differences in self-reported food allergy among food-sensitized children in National Health and Nutrition Examination Survey III. <i>Annals of Allergy, Asthma and Immunology</i> , 2016, 117, 570-572.e3.	0.5	12

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73	Phthalate biomarkers and associations with respiratory symptoms and healthcare utilization among low-income urban children with asthma. <i>Environmental Research</i> , 2022, 212, 113239.	3.7	12
74	Associations between serum folate and vitamin D levels and incident mouse sensitization in adults. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 399-404.	1.5	11
75	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. <i>PeerJ</i> , 2014, 2, e589.	0.9	11
76	Parallel Bayesian MCMC Imputation for Multiple Distributed Lag Models: A Case Study in <i>Environmental Epidemiology</i> . Chapman & Hall/CRC Interdisciplinary Statistics Series, 2011, , 493-512.	0.4	10
77	Reduced hierarchical models with application to estimating health effects of simultaneous exposure to multiple pollutants. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2013, 62, 451-472.	0.5	9
78	Cockroach, dust mite, and shrimp sensitization correlations in the National Health and Nutrition Examination Survey. <i>Annals of Allergy, Asthma and Immunology</i> , 2019, 122, 536-538.e1.	0.5	9
79	Material Hardship and Indoor Allergen Exposure among Low-Income, Urban, Minority Children with Persistent Asthma. <i>Journal of Community Health</i> , 2020, 45, 1017-1026.	1.9	9
80	Indoor Environmental Factors May Modify the Response to Mouse Allergen Reduction Among Mouse-Sensitized and Exposed Children with Persistent Asthma. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 4402-4409.e2.	2.0	9
81	Ambient ozone effects on respiratory outcomes among smokers modified by neighborhood poverty: An analysis of SPIROMICS AIR. <i>Science of the Total Environment</i> , 2022, 829, 154694.	3.9	9
82	Extracting Information from Big Data: Issues of Measurement, Inference and Linkage. , 0, , 257-275.		8
83	Distance to pediatric gastroenterology providers is associated with decreased diagnosis of eosinophilic esophagitis in rural populations. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 4489-4492.e2.	2.0	8
84	Do Baseline Asthma and Allergic Sensitization Characteristics Predict Responsiveness to Mouse Allergen Reduction?. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 596-602.e3.	2.0	7
85	A hierarchical modeling approach to estimate regional acute health effects of particulate matter sources. <i>Statistics in Medicine</i> , 2017, 36, 1461-1475.	0.8	6
86	Closing the door on social determinants of health and asthma disparities: Not so fast. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019, 7, 2101-2102.	2.0	6
87	The effect of season of birth on atopic dermatitis and food allergy. <i>Annals of Allergy, Asthma and Immunology</i> , 2020, 125, 221-223.e2.	0.5	6
88	Perspective on Data Science. <i>Annual Review of Statistics and Its Application</i> , 2022, 9, 1-20.	4.1	6
89	Comprehensive home environmental intervention did not reduce allergen concentrations or controller medication requirements among children in Baltimore. <i>Journal of Asthma</i> , 2023, 60, 625-634.	0.9	6
90	What is the impact of systematically missing exposure data on air pollution health effect estimates?. <i>Air Quality, Atmosphere and Health</i> , 2014, 7, 415-420.	1.5	5

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91	A model-based approach for imputing censored data in source apportionment studies. <i>Environmental and Ecological Statistics</i> , 2015, 22, 779-800.	1.9	5
92	2020 Updated Asthma Guidelines: Indoor allergen reduction. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 1283-1285.	1.5	5
93	Indoor Air Quality in Central Appalachia Homes Impacted by Wood and Coal Use. <i>Journal of Environmental Protection</i> , 2013, 04, 67-71.	0.3	4
94	Do temporal trends of associations between short-term exposure to fine particulate matter (PM2.5) and risk of hospitalizations differ by sub-populations and urbanicity—a study of 968 U.S. counties and the Medicare population. <i>Environmental Research</i> , 2021, , 112271.	3.7	4
95	Estimating the health effects of environmental mixtures using principal stratification. <i>Statistics in Medicine</i> , 2022, 41, 1815-1828.	0.8	4
96	Determinants of phthalate exposure among a U.S.-based group of Latino workers. <i>International Journal of Hygiene and Environmental Health</i> , 2021, 234, 113739.	2.1	3
97	Risk factors for antimicrobial resistance among <i>Staphylococcus</i> isolated from pets living with a patient diagnosed with methicillin-resistant <i>Staphylococcus aureus</i> infection. <i>Zoonoses and Public Health</i> , 2022, , .	0.9	3
98	Long-Term Ambient Air Pollution and Childhood Eczema in the United States. <i>Environmental Health Perspectives</i> , 2022, 130, .	2.8	3
99	Diagnosing Data Analytic Problems in the Classroom. <i>Journal of Statistics and Data Science Education</i> , 2021, 29, 267-276.	0.9	3
100	Interacting with local and remote data repositories using the stashR package. <i>Computational Statistics</i> , 2009, 24, 247-254.	0.8	2
101	Discussion of Keiding. <i>Biostatistics</i> , 2010, 11, 393-394.	0.9	2
102	Measurement error in air pollution epidemiology: guidance for uncertain times. <i>Environmetrics</i> , 2013, 24, 529-530.	0.6	1
103	Physician-diagnosed eczema is an independent risk factor for incident mouse skin test sensitization in adults. <i>Allergy and Asthma Proceedings</i> , 2018, 39, 311-315.	1.0	1
104	The effect of dog allergen exposure on asthma morbidity among inner-city children with asthma. <i>Pediatric Allergy and Immunology</i> , 2020, 31, 210-213.	1.1	1
105	Guest Editors™ Introduction to the Special Issue on Climate Change and Human Health. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2012, 17, 311-312.	0.7	0
106	Comment on “50 Years of Data Science”, <i>Journal of Computational and Graphical Statistics</i> , 2017, 26, 767-767.	0.9	0
107	Reply to “Do rural health disparities affect prevalence data in pediatric eosinophilic esophagitis?”. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 2551-2552.	2.0	0
108	Mortality displacement as a type of selection bias: consequences and causal perspectives. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0

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109	Assessing the health estimation capacity of air pollution exposure prediction models. Environmental Health, 2022, 21, 35.	1.7	0