Lance A Waller

List of Publications by Year
in descending order

115 papers	4,156 citations	236925 25 h-index	123424 61 g-index
127 all docs	127 docs citations	127 times ranked	5352 citing authors

#	Article	IF	Citations
1	Estimating PM$_{2.5}$ Concentrations in the Conterminous United States Using the Random Forest Approach. Environmental Science & Technology, 2017, 51, 6936-6944.	10.0	404
2	Short-term Associations between Ambient Air Pollutants and Pediatric Asthma Emergency Department Visits. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 307-316.	5.6	304
3	Estimating ground-level PM2.5 concentrations in the southeastern U.S. using geographically weighted regression. Environmental Research, 2013, 121, 1-10.	7.5	283
4	Estimating ground-level PM2.5 concentrations in the Southeastern United States using MAIAC AOD retrievals and a two-stage model. Remote Sensing of Environment, 2014, 140, 220-232.	11.0	274
5	Ambient Air Pollution and Preterm Birth. Epidemiology, 2009, 20, 689-698.	2.7	136
6	Contributions from the silent majority dominate dengue virus transmission. PLoS Pathogens, 2018, 14, e1006965.	4.7	118
7	Quantifying geographic variations in associations between alcohol distribution and violence: a comparison of geographically weighted regression and spatially varying coefficient models. Stochastic Environmental Research and Risk Assessment, 2007, 21, 573-588.	4.0	116
8	Integrated Control and Management of Neglected Tropical Skin Diseases. PLoS Neglected Tropical Diseases, 2017, 11, e0005136.	3.0	116
9	Associations between Source-Specific Fine Particulate Matter and Emergency Department Visits for Respiratory Disease in Four U.S. Cities. Environmental Health Perspectives, 2017, 125, 97-103.	6.0	110
10	Comparing spatially varying coefficient models: a case study examining violent crime rates and their relationships to alcohol outlets and illegal drug arrests. Journal of Geographical Systems, 2009, 11, 1-22.	3.1	94
11	Design and Rationale of the HAPIN Study: A Multicountry Randomized Controlled Trial to Assess the Effect of Liquefied Petroleum Gas Stove and Continuous Fuel Distribution. Environmental Health Perspectives, 2020, 128, 47008.	6.0	72
12	Disease Models Implicit in Statistical Tests of Disease Clustering. Epidemiology, 1995, 6, 584-590.	2.7	63
13	Assessment of critical exposure and outcome windows in time-to-event analysis with application to air pollution and preterm birth study. Biostatistics, 2015, 16, 509-521.	1.5	59
14	The geography of power: statistical performance of tests of clusters and clustering in heterogeneous populations. Statistics in Medicine, 2006, 25, 853-865.	1.6	45
15	Contact Investigation of Melioidosis Cases Reveals Regional Endemicity in Puerto Rico. Clinical Infectious Diseases, 2015, 60, 243-250.	5.8	43
16	Evidence of an Association of Increases in Pre-exposure Prophylaxis Coverage With Decreases in Human Immunodeficiency Virus Diagnosis Rates in the United States, 2012â€"2016. Clinical Infectious Diseases, 2020, 71, 3144-3151.	5.8	43
17	Coupled Heterogeneities and Their Impact on Parasite Transmission and Control. Trends in Parasitology, 2016, 32, 356-367.	3.3	41
18	Using self-organizing maps to develop ambient air quality classifications: a time series example. Environmental Health, 2014, 13, 56.	4.0	37

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19	Spatio-temporal patterns in county-level incidence and reporting of Lyme disease in the northeastern United States, 1990â€"2000. Environmental and Ecological Statistics, 2007, 14, 83-100.	3.5	35
20	Improving satelliteâ€driven PM$_{2.5}$ models with Moderate Resolution Imaging Spectroradiometer fire counts in the southeastern U.S.. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11375-11386.	3.3	30
21	Secondâ€order spatial analysis of epidermal nerve fibers. Statistics in Medicine, 2011, 30, 2827-2841.	1.6	27
22	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
23	The Epidemiology of Respiratory Failure in the United States 2002â€"2017: A Serial Cross-Sectional Study. , 2020, 2, e0128.		27
24	Optimizing the deployment of ultra-low volume and targeted indoor residual spraying for dengue outbreak response. PLoS Computational Biology, 2020, 16, e1007743.	3.2	27
25	Assessing local model adequacy in Bayesian hierarchical models using the partitioned deviance information criterion. Computational Statistics and Data Analysis, 2010, 54, 1657-1671.	1.2	26
26	Residence proximity to benzene release sites is associated with increased incidence of nonâ€Hodgkin lymphoma. Cancer, 2013, 119, 3309-3317.	4.1	25
27	A Bayesian approach to hedonic price analysis. Papers in Regional Science, 2014, 93, 663-684.	1.9	25
28	Comparing methods of measuring geographic patterns in temporal trends: an application to county-level heart disease mortality in the United States, 1973 to 2010. Annals of Epidemiology, 2015, 25, 329-335.e3.	1.9	25
29	A Multivariate Spaceâ€"Time Model for Analysing County Level Heart Disease Death Rates by Race and Sex. Journal of the Royal Statistical Society Series C: Applied Statistics, 2018, 67, 291-304.	1.0	25
30	More than Manuscripts: Reproducibility, Rigor, and Research Productivity in the Big Data Era. Toxicological Sciences, 2016, 149, 275-276.	3.1	20
31	Exploring associations between multipollutant day types and asthma morbidity: epidemiologic applications of self-organizing map ambient air quality classifications. Environmental Health, 2015, 14, 55.	4.0	19
32	Exploring spatial patterns in the associations between local AIDS incidence and socioeconomic and demographic variables in the state of Rio de Janeiro, Brazil. Spatial and Spatio-temporal Epidemiology, 2016, 17, 85-93.	1.7	19
33	Disease-driven reduction in human mobility influences human-mosquito contacts and dengue transmission dynamics. PLoS Computational Biology, 2021, 17, e1008627.	3.2	19
34	Early Discontinuation of Endocrine Therapy and Recurrence of Breast Cancer among Premenopausal Women. Clinical Cancer Research, 2021, 27, 1421-1428.	7.0	19
35	Risk Factors for Septicemia Deaths and Disparities in a Longitudinal US Cohort. Open Forum Infectious Diseases, 2018, 5, ofy305.	0.9	18
36	The Epidemiology of Adult Tracheostomy in the United States 2002â€"2017: A Serial Cross-Sectional Study. , 2021, 3, e0523.		18

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37	Using a Geolocation Social Networking Application to Calculate the Population Density of Sex-Seeking Gay Men for Research and Prevention Services. Journal of Medical Internet Research, 2014, 16, e249.	4.3	18
38	Characterizing the spatial distribution of multiple pollutants and populations at risk in Atlanta, Georgia. Spatial and Spatio-temporal Epidemiology, 2016, 18, 13-23.	1.7	17
39	Dengue illness impacts daily human mobility patterns in Iquitos, Peru. PLoS Neglected Tropical Diseases, 2019, 13, e0007756.	3.0	17
40	Multivariate spatiotemporal modeling of age-specific stroke mortality. Annals of Applied Statistics, 2017, 11, .	1.1	16
41	Source-specific pollution exposure and associations with pulmonary response in the Atlanta Commuters Exposure Studies. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 337-347.	3.9	16
42	Time-series analysis of satellite-derived fine particulate matter pollution and asthma morbidity in Jackson, MS. Environmental Monitoring and Assessment, 2019, 191, 280.	2.7	16
43	The TIRS trial: protocol for a cluster randomized controlled trial assessing the efficacy of preventive targeted indoor residual spraying to reduce Aedes-borne viral illnesses in Merida, Mexico. Trials, 2020, 21, 839.	1.6	16
44	Predicting the Future Course of Opioid Overdose Mortality: An Example From Two US States. Epidemiology, 2021, 32, 61-69.	2.7	16
45	Spatial-Temporal Analysis of Cancer Risk in Epidemiologic Studies with Residential Histories. Annals of the American Association of Geographers, 2012, 102, 1049-1057.	3.0	15
46	A multicity study of air pollution and cardiorespiratory emergency department visits: Comparing approaches for combining estimates across cities. Environment International, 2018, 120, 312-320.	10.0	14
47	Spatial–temporal analysis of non-Hodgkin lymphoma risk using multiple residential locations. Spatial and Spatio-temporal Epidemiology, 2012, 3, 163-171.	1.7	13
48	A study of adverse birth outcomes and agricultural land use practices in Missouri. Environmental Research, 2014, 134, 420-426.	7.5	13
49	Relations Between Residential Proximity to EPA-Designated Toxic Release Sites and Diffuse Large B-Cell Lymphoma Incidence. Southern Medical Journal, 2016, 109, 606-614.	0.7	13
50	Resolving uncertainty in the spatial relationships between passive benzene exposure and risk of non-Hodgkin lymphoma. Cancer Epidemiology, 2016, 41, 139-151.	1.9	12
51	A Bayesian Downscaler Model to Estimate Daily PM2.5 Levels in the Conterminous US. International Journal of Environmental Research and Public Health, 2018, 15, 1999.	2.6	12
52	Invited Commentary: Surveilling Surveillance--Some Statistical Comments. American Journal of Epidemiology, 2004, 159, 225-227.	3.4	11
53	A High Throughput Whole Blood Assay for Analysis of Multiple Antigen-Specific T Cell Responses in Human <i>Mycobacterium tuberculosis</i> Infection. Journal of Immunology, 2018, 200, 3008-3019.	0.8	11
54	State-level policies concerning private wells in the United States. Water Policy, 2019, 21, 428-435.	1.5	11

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55	A comparison of three tests to detect general clustering of a rare disease in Santa Clara County, California. , 2000, 19, 1363-1378.		10
56	Optimizing Human Immunodeficiency Virus Testing Interventions for Men Who Have Sex With Men in the United States: A Modeling Study. Open Forum Infectious Diseases, 2015, 2, ofv153.	0.9	10
57	Comparison of the Hazard Mapping System (HMS) fire product to groundâ€based fire records in Georgia, USA. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2901-2910.	3.3	10
58	Linking the vectorial capacity of multiple vectors to observed patterns of West Nile virus transmission. Journal of Applied Ecology, 2019, 56, 956-965.	4.0	10
59	Simulations of local Moranâ€™s index in a spatio-temporal setting. Communications in Statistics Part B: Simulation and Computation, 2019, 48, 1849-1859.	1.2	10
60	Landscape and environmental influences on Mycobacterium ulcerans distribution among aquatic sites in Ghana. PLoS ONE, 2017, 12, e0176375.	2.5	10
61	Neighborhood characteristics as confounders and effect modifiers for the association between air pollution exposure and subjective cognitive functioning. Environmental Research, 2022, 212, 113221.	7.5	10
62	Bridging gaps between statistical and mathematical modeling in ecology. Ecology, 2010, 91, 3500-3502.	3.2	9
63	Development and evaluation of spatial point process models for epidermal nerve fibers. Mathematical Biosciences, 2013, 243, 178-189.	1.9	9
64	Putting spatial statistics (back) on the map. Spatial Statistics, 2014, 9, 4-19.	1.9	9
65	Exploring Goodness-of-Fit and Spatial Correlation Using Components of Tango's Index of Spatial Clustering. Geographical Analysis, 2005, 37, 371-382.	3.5	8
66	Variability in results from negative binomial models for lyme disease measured at different spatial scales. Environmental Research, 2015, 136, 373-380.	7.5	8
67	A Spatial Analysis of Health Disparities Associated with Antibiotic Resistant Infections in Children Living in Atlanta (2002â€"2010). EGEMS (Washington, DC), 2019, 7, 50.	2.0	8
68	Telehealth Services for Substance Use Disorders During the COVID-19 Pandemic: Longitudinal Assessment of Intensive Outpatient Programming and Data Collection Practices. JMIR Mental Health, 2022, 9, e36263.	3.3	8
69	State-level hospital compliance with and performance in the Centers for Medicaid & Medicare Servicesâ€™ Early Management Severe Sepsis and Septic Shock Bundle. Critical Care, 2019, 23, 92.	5.8	7
70	Using spatiotemporal models to generate synthetic data for public use. Spatial and Spatio-temporal Epidemiology, 2018, 27, 37-45.	1.7	6
71	Schistosoma mansoni Infection Is Associated With a Higher Probability of Tuberculosis Disease in HIV-Infected Adults in Kenya. Journal of Acquired Immune Deficiency Syndromes (1999), 2021, 86, 157-163.	2.1	6
72	A spatioâ€temporal analysis of the spread of sugarcane yellow leaf virus. Journal of Time Series Analysis, 2011, 32, 396-406.	1.2	5

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73	Mapping in Public Health. , 2017, , 169-181.		5
74	Documenting and Evaluating Data Science Contributions in Academic Promotion in Departments of Statistics and Biostatistics. American Statistician, 2018, 72, 11-19.	1.6	5
75	Advances in mapping population and demographic characteristics at small-area levels. International Journal of Epidemiology, 2020, 49, i15-i25.	1.9	5
76	Considerations for Improving Reporting and Analysis of Date-Based COVID-19 Surveillance Data by Public Health Agencies. American Journal of Public Health, 2021, 111, 2127-2132.	2.7	5
77	Authorship trends in infectious diseases society of America affiliated journal articles conducted in low-income countries, 1998â€"2018. PLOS Global Public Health, 2022, 2, e0000275.	1.6	5
78	The likelihood approach for the comparison of medical diagnostic system with multiple binary tests. Journal of Applied Statistics, 2012, 39, 1437-1454.	1.3	4
79	Exploring regional variability in utilization of antireflux surgery in children. Journal of Surgical Research, 2017, 214, 49-56.	1.6	4
80	Comparing denominator sources for real-time disease incidence modeling: American Community Survey and WorldPop. SSM - Population Health, 2021, 14, 100786.	2.7	4
81	Longitudinal impacts of two causal drivers of alcohol demand on outlet concentrations within community settings: Population size and income effects. Spatial and Spatio-temporal Epidemiology, 2018, 27, 21-28.	1.7	3
82	The basic reproductive number for disease systems with multiple coupled heterogeneities. Mathematical Biosciences, 2020, 321, 108294.	1.9	3
83	Developing indices to identify hotspots of skin cancer vulnerability among the Non-Hispanic White population in the United States. Annals of Epidemiology, 2021, 59, 64-71.	1.9	3
84	Quantifying Spatio-Temporal Characteristics via Moranâ€™s Statistics. STEAM-H: Science, Technology, Engineering, Agriculture, Mathematics & Health, 2019, , 163-177.	0.0	3
85	The DIOS framework for optimizing infectious disease surveillance: Numerical methods for simulation and multi-objective optimization of surveillance network architectures. PLoS Computational Biology, 2020, 16, e1008477.	3.2	3
86	Statistical Implications of Endogeneity Induced by Residential Segregation in Small-Area Modeling of Health Inequities. American Statistician, 2022, 76, 142-151.	1.6	3
87	Building Intuition Regarding the Statistical Behavior of Mass Medical Testing Programs. , 0, Special Issue 1, .		3
88	Post-lockdown changes of age-specific susceptibility and its correlation with adherence to social distancing measures. Scientific Reports, 2022, 12, 4637.	3.3	3
89	In-Person Versus Telehealth Setting for the Delivery of Substance Use Disorder Treatment: Ecologically Valid Comparison Study. JMIR Formative Research, 2022, 6, e34408.	1.4	3
90	Commentary: Regarding assessments of chance in investigations of 'cluster series'. International Journal of Epidemiology, 2013, 42, 449-452.	1.9	2

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91	17Î²-Hydroxysteroid dehydrogenase 1:2 and breast cancer recurrence: a Danish population-based study. Acta OncolÃ³gica, 2020, 59, 329-333.	1.8	2
92	Spatial Epidemiology. , 0, , 97-122.		1
93	Statistics in disease ecology: introduction to a special issue. Environmental and Ecological Statistics, 2008, 15, 259-263.	3.5	1
94	The Atlas of Disease: Mapping Deadly Epidemics and Contagion from the Plague to the Zika Virus. Cartographic Journal, 2020, 57, 86-86.	1.5	1
95	Comparison of physical examination and laboratory data between a clinical study and electronic health records. PLoS ONE, 2020, 15, e0236189.	2.5	1
96	Calibrated Bayesian credible intervals for binomial proportions. Journal of Statistical Computation and Simulation, 2020, 90, 75-89.	1.2	1
97	Exploring spatially varying demographic associations with gonorrhea incidence in Baltimore, Maryland, 2002â€"2005. Journal of Geographical Systems, 2020, 22, 201-216.	3.1	1
98	Developing a synthetic control group using electronic health records: Application to a single-arm lifestyle intervention study. Preventive Medicine Reports, 2021, 24, 101572.	1.8	1
99	Selecting External Controls for Internal Cases Using Stratification Score Matching Methods. International Journal of Environmental Research and Public Health, 2022, 19, 2549.	2.6	1
100	Home-to-Hospital Distance and Outcomes Among Community-Acquired Sepsis Hospitalizations. Annals of Epidemiology, 2022, , .	1.9	1
101	Understanding Variation in Rotavirus Vaccine Effectiveness Estimates in the United States: The Role of Rotavirus Activity and Diagnostic Misclassification. Epidemiology, 2022, Publish Ahead of Print, .	2.7	1
102	Combining and comparing multiple serial dilution assays of particles in solution: application to brucellosis in elk of the Greater Yellowstone Ecosystem. Environmental and Ecological Statistics, 2015, 22, 161-177.	3.5	0
103	Spatial Clustering and Autocorrelation of Health Events. , 2021, , 2035-2051.		0
104	The impact of dengue illness on social distancing and caregiving behavior. PLoS Neglected Tropical Diseases, 2021, 15, e0009614.	3.0	0
105	Residence Proximity to Benzene Release Sites Is Associated with Increased Incidence of Non-Hodgkin Lymphoma.. Blood, 2012, 120, 2710-2710.	1.4	0
106	Relationship Between Residential Proximity To Environmental Protection Agency (EPA) Designated Toxic Release Sites and The Risk Of Diffuse Large B-Cell Lymphoma (DLBCL). Blood, 2013, 122, 1684-1684.	1.4	0
107	Exploratory Spatial Analysis in Disease Ecology. , 2016, , 1-5.		0
108	Exploratory Spatial Analysis in Disease Ecology. , 2017, , 571-575.		0

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109	Spatial Clustering and Autocorrelation of Health Events. , 2019, , 1-17.		0
110	Hennessee etÂal. Respond. American Journal of Public Health, 2022, 112, e2-e3.	2.7	0
111	Title is missing!. , 2020, 16, e1007743.		0
112	Title is missing!. , 2020, 16, e1007743.		0
113	Title is missing!. , 2020, 16, e1007743.		0
114	Title is missing!. , 2020, 16, e1007743.		0
115	The US COVID-19 surveillance environment: An ecological analysis of the relationship of testing adequacy in the context of vaccination. Clinical Infectious Diseases, 0, , .	5.8	0