Marc L Serre

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Global burden of 87 risk factors in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. Lancet, The, 2020, 396, 1223-1249.	13.7	3,928
2	Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. Lancet, The, 2018, 392, 1923-1994.	13.7	3,269
3	Particulate air pollutants, APOE alleles and their contributions to cognitive impairment in older women and to amyloidogenesis in experimental models. Translational Psychiatry, 2017, 7, e1022-e1022.	4.8	298
4	Ambient air pollution and neurotoxicity on brain structure: Evidence from women's health initiative memory study. Annals of Neurology, 2015, 78, 466-476.	5.3	193
5	A Hybrid Approach to Estimating National Scale Spatiotemporal Variability of PM _{2.5} in the Contiguous United States. Environmental Science & amp; Technology, 2013, 47, 7233-7241.	10.0	188
6	Particulate Matter Exposure, Prenatal and Postnatal Windows of Susceptibility, and Autism Spectrum Disorders. Epidemiology, 2015, 26, 30-42.	2.7	158
7	Particulate matter and episodic memory decline mediated by early neuroanatomic biomarkers of Alzheimer's disease. Brain, 2020, 143, 289-302.	7.6	126
8	Methods for generating non-separable spatiotemporal covariance models with potential environmental applications. Advances in Water Resources, 2004, 27, 815-830.	3.8	119
9	BME analysis of spatiotemporal particulate matter distributions in North Carolina. Atmospheric Environment, 2000, 34, 3393-3406.	4.1	116
10	Comparing the Health Effects of Ambient Particulate Matter Estimated Using Ground-Based versus Remote Sensing Exposure Estimates. Environmental Health Perspectives, 2017, 125, 552-559.	6.0	107
11	Fecal Indicators in Sand, Sand Contact, and Risk of Enteric Illness Among Beachgoers. Epidemiology, 2012, 23, 95-106.	2.7	100
12	Mapping Health Data: Improved Privacy Protection With Donut Method Geomasking. American Journal of Epidemiology, 2010, 172, 1062-1069.	3.4	96
13	A Voxel-Based Morphometry Study Reveals Local Brain Structural Alterations Associated with Ambient Fine Particles in Older Women. Frontiers in Human Neuroscience, 2016, 10, 495.	2.0	87
14	Comparison of Geostatistical Interpolation and Remote Sensing Techniques for Estimating Long-Term Exposure to Ambient PM _{2.5} Concentrations across the Continental United States. Environmental Health Perspectives, 2012, 120, 1727-1732.	6.0	85
15	Spatial analysis and mapping of sexually transmitted diseases to optimise intervention and prevention strategies. Sexually Transmitted Infections, 2004, 80, 294-299.	1.9	83
16	Fecal Contamination of Shallow Tubewells in Bangladesh Inversely Related to Arsenic. Environmental Science & Technology, 2011, 45, 1199-1205.	10.0	74
17	Arsenic in North Carolina: Public Health Implications. Environment International, 2012, 38, 10-16.	10.0	70
18	Bayesian Maximum Entropy Integration of Ozone Observations and Model Predictions: An Application for Attainment Demonstration in North Carolina. Environmental Science & amp; Technology, 2010, 44, 5707-5713.	10.0	64

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19	Burden of disease attributed to anthropogenic air pollution in the United Arab Emirates: Estimates based on observed air quality data. Science of the Total Environment, 2010, 408, 5784-5793.	8.0	61
20	Calibration/Validation of an Altimeter Wave Period Model and Application to TOPEX/Poseidon and Jason-1 Altimeters. Marine Geodesy, 2004, 27, 535-549.	2.0	59
21	Geomasking sensitive health data and privacy protection: an evaluation using an E911 database. Geocarto International, 2010, 25, 443-452.	3.5	58
22	An LUR/BME Framework to Estimate PM _{2.5} Explained by on Road Mobile and Stationary Sources. Environmental Science & Technology, 2014, 48, 1736-1744.	10.0	58
23	Modeling a Syphilis Outbreak Through Space and Time Using the Bayesian Maximum Entropy Approach. Annals of Epidemiology, 2006, 16, 797-804.	1.9	53
24	Space-time mapping of soil salinity using probabilistic bayesian maximum entropy. Stochastic Environmental Research and Risk Assessment, 2004, 18, 219.	4.0	52
25	Total ozone mapping by integrating databases from remote sensing instruments and empirical models. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 991-1008.	6.3	51
26	BME representation of particulate matter distributions in the state of California on the basis of uncertain measurements. Journal of Geophysical Research, 2001, 106, 9717-9731.	3.3	48
27	Computational Bayesian maximum entropy solution of a stochastic advection-reaction equation in the light of site-specific information. Water Resources Research, 2002, 38, 54-1-54-17.	4.2	48
28	Modern Space/Time Geostatistics Using River Distances: Data Integration of Turbidity and <i>E. coli</i> Measurements to Assess Fecal Contamination Along the Raritan River in New Jersey. Environmental Science & Technology, 2009, 43, 3736-3742.	10.0	47
29	Mapping Yearly Fine Resolution Global Surface Ozone through the Bayesian Maximum Entropy Data Fusion of Observations and Model Output for 1990–2017. Environmental Science & Technology, 2021, 55, 4389-4398.	10.0	47
30	Examination of atmospheric ammonia levels near hog CAFOs, homes, and schools in Eastern North Carolina. Atmospheric Environment, 2007, 41, 4977-4987.	4.1	46
31	Unsealed tubewells lead to increased fecal contamination of drinking water. Journal of Water and Health, 2012, 10, 565-578.	2.6	43
32	Space/Time Analysis of Fecal Pollution and Rainfall in an Eastern North Carolina Estuary. Environmental Science & Technology, 2009, 43, 3728-3735.	10.0	40
33	Large Scale Air Pollution Estimation Method Combining Land Use Regression and Chemical Transport Modeling in a Geostatistical Framework. Environmental Science & Technology, 2014, 48, 4452-4459.	10.0	39
34	Estimates of ozone concentrations and attributable mortality in urban, peri-urban and rural areas worldwide in 2019. Environmental Research Letters, 2022, 17, 054023.	5.2	38
35	Nitrate Variability in Groundwater of North Carolina using Monitoring and Private Well Data Models. Environmental Science & Technology, 2014, 48, 10804-10812.	10.0	37
36	Spatiotemporal analysis of environmental exposure–health effect associations. Journal of Exposure Science and Environmental Epidemiology, 2000, 10, 168-187.	3.9	35

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37	Bayesian Maximum Entropy Integration of Ozone Observations and Model Predictions: A National Application. Environmental Science & Technology, 2016, 50, 4393-4400.	10.0	34
38	Spatiotemporal Nonattainment Assessment of Surface Water Tetrachloroethylene in New Jersey. Journal of Environmental Quality, 2007, 36, 508-520.	2.0	33
39	Are Neighborhood Sociocultural Factors Influencing the Spatial Pattern of Gonorrhea in North Carolina?. Annals of Epidemiology, 2011, 21, 245-252.	1.9	32
40	Efficacy of Hollow-Fiber Ultrafiltration for Microbial Sampling in Groundwater. Ground Water, 2011, 49, 53-65.	1.3	32
41	Integrating Address Geocoding, Land Use Regression, and Spatiotemporal Geostatistical Estimation for Groundwater Tetrachloroethylene. Environmental Science & Technology, 2012, 46, 2772-2780.	10.0	32
42	BME-based uncertainty assessment of the Chernobyl fallout. Geoderma, 2005, 128, 312-324.	5.1	31
43	Exposure to fine particulate matter and temporal dynamics of episodic memory and depressive symptoms in older women. Environment International, 2020, 135, 105196.	10.0	31
44	Short-Term Exposure to Wildfire Smoke and PM2.5 and Cognitive Performance in a Brain-Training Game: A Longitudinal Study of U.S. Adults. Environmental Health Perspectives, 2022, 130, .	6.0	31
45	Energy Loss at Combining Pipe Junction. Journal of Hydraulic Engineering, 1994, 120, 808-830.	1.5	30
46	Increase in Diarrheal Disease Associated with Arsenic Mitigation in Bangladesh. PLoS ONE, 2011, 6, e29593.	2.5	30
47	The moving-window Bayesian maximum entropy framework: estimation of PM2.5 yearly average concentration across the contiguous United States. Journal of Exposure Science and Environmental Epidemiology, 2012, 22, 496-501.	3.9	29
48	Estimating Wildfire Smoke Concentrations during the October 2017 California Fires through BME Space/Time Data Fusion of Observed, Modeled, and Satellite-Derived PM _{2.5} . Environmental Science & Technology, 2020, 54, 13439-13447.	10.0	29
49	A BME solution of the inverse problem for saturated groundwater flow. Stochastic Environmental Research and Risk Assessment, 2003, 17, 354-369.	4.0	28
50	Use of passive samplers to measure atmospheric ammonia levels in a high-density industrial hog farm area of eastern North Carolina. Atmospheric Environment, 2007, 41, 6074-6086.	4.1	27
51	Modeling the space/time distribution of particulate matter in Thailand and optimizing its monitoring network. Atmospheric Environment, 2007, 41, 7788-7805.	4.1	27
52	Spatiotemporal Approaches to Analyzing Pedestrian Fatalities: The Case of Cali, Colombia. Traffic Injury Prevention, 2015, 16, 571-577.	1.4	25
53	Lung and stomach cancer associations with groundwater radon in North Carolina, USA. International Journal of Epidemiology, 2016, 46, dyw128.	1.9	25
54	Using river distances in the space/time estimation of dissolved oxygen along two impaired river networks in New Jersey. Water Research, 2009, 43, 1948-1958.	11.3	24

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55	Efficient mapping of California mortality fields at different spatial scales. Journal of Exposure Science and Environmental Epidemiology, 2003, 13, 120-133.	3.9	23
56	A Method for Estimating Urban Background Concentrations in Support of Hybrid Air Pollution Modeling for Environmental Health Studies. International Journal of Environmental Research and Public Health, 2014, 11, 10518-10536.	2.6	23
57	Estimation of Groundwater Radon in North Carolina Using Land Use Regression and Bayesian Maximum Entropy. Environmental Science & Technology, 2015, 49, 9817-9825.	10.0	23
58	Regionalized PM2.5 Community Multiscale Air Quality model performance evaluation across a continuous spatiotemporal domain. Atmospheric Environment, 2017, 148, 258-265.	4.1	23
59	A new method (M ³ Fusion v1) for combining observations and multiple model output for an improved estimate of the global surface ozone distribution. Geoscientific Model Development, 2019, 12, 955-978.	3.6	23
60	A Bayesian Maximum Entropy approach to address the change of support problem in the spatial analysis of childhood asthma prevalence across North Carolina. Spatial and Spatio-temporal Epidemiology, 2009, 1, 49-60.	1.7	22
61	Water quality, weather and environmental factors associated with fecal indicator organism density in beach sand at two recreational marine beaches. Science of the Total Environment, 2014, 497-498, 440-447.	8.0	22
62	Cost-effective water quality assessment through the integration of monitoring data and modeling results. Water Resources Research, 2007, 43, .	4.2	21
63	Sexual Networks, Surveillance, and Geographical Space During Syphilis Outbreaks in Rural North Carolina. Epidemiology, 2012, 23, 845-851.	2.7	21
64	Bayesian Maximum Entropy space/time estimation of surface water chloride in Maryland using river distances. Environmental Pollution, 2016, 219, 1148-1155.	7.5	21
65	Geostatistical Prediction of Microbial Water Quality Throughout a Stream Network Using Meteorology, Land Cover, and Spatiotemporal Autocorrelation. Environmental Science & Technology, 2018, 52, 7775-7784.	10.0	20
66	Comparison of Sexual Mixing Patterns for Syphilis in Endemic and Outbreak Settings. Sexually Transmitted Diseases, 2011, 38, 378-384.	1.7	19
67	PM _{2.5} Associated With Gray Matter Atrophy Reflecting Increased Alzheimer Risk in Older Women. Neurology, 2021, 96, .	1.1	19
68	Racial/Ethnic Disparities in Alzheimer's Disease Risk: Role of Exposure to Ambient Fine Particles. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 977-985.	3.6	19
69	Impact of tubewell access and tubewell depth on childhood diarrhea in Matlab, Bangladesh. Environmental Health, 2011, 10, 109.	4.0	17
70	Adjusting for sampling variability in sparse data: geostatistical approaches to disease mapping. International Journal of Health Geographics, 2011, 10, 54.	2.5	17
71	Estimating the Acute Health Impacts of Fireâ€Originated PM _{2.5} Exposure During the 2017 California Wildfires: Sensitivity to Choices of Inputs. GeoHealth, 2021, 5, e2021GH000414.	4.0	17
72	Mass fraction spatiotemporal geostatistics and its application to map atmospheric polycyclic aromatic hydrocarbons after 9/11. Stochastic Environmental Research and Risk Assessment, 2009, 23, 1213-1223.	4.0	16

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73	Particulate Air Pollutants and Trajectories of Depressive Symptoms in Older Women. American Journal of Geriatric Psychiatry, 2019, 27, 1083-1096.	1.2	16
74	Erythrocyte omega-3 index, ambient fine particle exposure, and brain aging. Neurology, 2020, 95, e995-e1007.	1.1	15
75	Does Core Area Theory Apply to Sexually Transmitted Diseases in Rural Environments?. Sexually Transmitted Diseases, 2013, 40, 32-40.	1.7	14
76	Adherence to a MIND-Like Dietary Pattern, Long-Term Exposure to Fine Particulate Matter Air Pollution, and MRI-Based Measures of Brain Volume: The Women's Health Initiative Memory Study-MRI. Environmental Health Perspectives, 2021, 129, 127008.	6.0	14
77	Non-point source evaluation of groundwater nitrate contamination from agriculture under geologic uncertainty. Stochastic Environmental Research and Risk Assessment, 2019, 33, 939-956.	4.0	13
78	A novel geostatistical approach combining Euclidean and gradual-flow covariance models to estimate fecal coliform along the Haw and Deep rivers in North Carolina. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2537-2549.	4.0	11
79	Using River Distance and Existing Hydrography Data Can Improve the Geostatistical Estimation of Fish Tissue Mercury at Unsampled Locations. Environmental Science & Technology, 2011, 45, 7746-7753.	10.0	10
80	Effects of Geographic Diversification on Risk Pooling to Mitigate Droughtâ€Related Financial Losses for Water Utilities. Water Resources Research, 2018, 54, 2561-2579.	4.2	10
81	Characterizing Differences in Sources of and Contributions to Fecal Contamination of Sediment and Surface Water with the Microbial FIT Framework. Environmental Science & Technology, 2022, 56, 4231-4240.	10.0	10
82	Impact of temporal upscaling and chemical transport model horizontal resolution on reducing ozone exposure misclassification. Atmospheric Environment, 2017, 166, 374-382.	4.1	9
83	Influence of Detection Method and Study Area Scale on Syphilis Cluster Identification in North Carolina. Sexually Transmitted Diseases, 2016, 43, 216-221.	1.7	8
84	Distance to testing sites and its association with timing of HIV diagnosis [*] . AIDS Care - Psychological and Socio-Medical Aspects of AIDS/HIV, 2016, 28, 1423-1427.	1.2	7
85	Blending Multiple Nitrogen Dioxide Data Sources for Neighborhood Estimates of Long-Term Exposure for Health Research. Environmental Science & Technology, 2017, 51, 12473-12480.	10.0	7
86	Geostatistical space/time estimation of water quality along the Raritan River Basin in New Jersey. Developments in Water Science, 2004, 55, 1839-1852.	0.1	6
87	Finely Resolved Onâ€Road PM _{2.5} and Estimated Premature Mortality in Central North Carolina. Risk Analysis, 2017, 37, 2420-2434.	2.7	6
88	Predicting polycyclic aromatic hydrocarbons using a mass fraction approach in a geostatistical framework across North Carolina. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 381-391.	3.9	6
89	Combining Dispersion Modeling and Monitoring Data for Community-Scale Air Quality Characterization. Atmosphere, 2019, 10, 610.	2.3	6
90	Microbial Find, Inform, and Test Model for Identifying Spatially Distributed Contamination Sources: Framework Foundation and Demonstration of Ruminant Bacteroides Abundance in River Sediments. Environmental Science & Technology, 2021, 55, 10451-10461.	10.0	6

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91	B vitamin intakes modify the association between particulate air pollutants and incidence of all ause dementia: Findings from the Women's Health Initiative Memory Study. Alzheimer's and Dementia, 2022, 18, 2188-2198.	0.8	6
92	Powering an Egyptian Air Quality Information System with the Bayesian Maximum Entropy Space/Time Analysis Toolbox: Results From the Cairo Baseline Year Study. Quantitative Geology and Geostatistics, 2001, , 91-100.	0.1	5
93	Using Animations of Risk Functions to Visualize Trends in US All-Cause and Cause-Specific Mortality, 1968–2016. American Journal of Public Health, 2019, 109, 451-453.	2.7	4
94	Improving emissions inputs via mobile measurements to estimate fine-scale Black Carbon monthly concentrations through geostatistical space-time data fusion. Science of the Total Environment, 2021, 793, 148378.	8.0	4
95	Numerical Implementation of a Space-Transformation Approach for Solving the Three-Dimensional Flow Equation. SIAM Journal of Scientific Computing, 1998, 20, 619-647.	2.8	3
96	Integrating remote sensing with nutrient management plans to calculate nitrogen parameters for swine CAFOs at the sprayfield and sub-watershed scales. Science of the Total Environment, 2017, 580, 865-872.	8.0	3
97	Integrating Community Science Research and Spaceâ€Time Mapping to Determine Depth to Groundwater in a Remote Rural Region. Water Resources Research, 2021, 57, e2020WR029519.	4.2	3
98	Spatialization of saturated hydraulic conductivity using the Bayesian Maximum Entropy method: Application to wastewater infiltration areas. Water Research, 2021, 204, 117607.	11.3	3
99	Particulate Air Pollutants, Brain Structure, and Neurocognitive Disorders in Older Women. Research Report (health Effects Institute), 2017, , 1-65.	1.6	2
100	Using remote sensing to calculate plant available nitrogen needed by crops on swine factory farm sprayfields in North Carolina. Proceedings of SPIE, 2015, , .	0.8	1
101	Non-Point Source Evaluation of Groundwater Contamination from Agriculture under Geologic and Hydrologic Uncertainty. , 2016, , .		1
102	Estimating associations between annual concentrations of particulate matter and mortality in the US, using data linkage and Bayesian Maximum Entropy. Epidemiology, 2021, Publish Ahead of Print, .	2.7	1
103	Examining the Relationship Between Wet Weather and Fecal Contamination in a North Carolina Estuary. Proceedings of the Water Environment Federation, 2007, 2007, 1019-1031.	0.0	0
104	Risk Assessment: COPD Mortality Burden due to Ozone Exposure in Europe. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
105	A Space/Time Data Fusion Method for Accurately Estimating Wildfire Smoke Concentrations During the October 2017 California Fires to Inform Population-Level Exposure. ISEE Conference Abstracts, 2020, 2020	0.0	Ο