Benjamin Barratt

List of Publications by Year in descending order

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64 papers	2,546 citations	201385 27 h-index	205818 48 g-index
69 all docs	69 docs citations	69 times ranked	4132 citing authors

#	Article	IF	Citations
1	Respiratory and cardiovascular responses to walking down a traffic-polluted road compared with walking in a traffic-free area in participants aged 60 years and older with chronic lung or heart disease and age-matched healthy controls: a randomised, crossover study. Lancet, The, 2018, 391, 339-349.	6.3	294
2	Exploration of NO2 and PM2.5 air pollution and mental health problems using high-resolution data in London-based children from a UK longitudinal cohort study. Psychiatry Research, 2019, 272, 8-17.	1.7	160
3	Land use regression modelling of air pollution in high density high rise cities: A case study in Hong Kong. Science of the Total Environment, 2017, 592, 306-315.	3.9	125
4	Just good enough data: Figuring data citizenships through air pollution sensing and data stories. Big Data and Society, 2016, 3, 205395171667967.	2.6	109
5	Associations between daily air quality and hospitalisations for acute exacerbation of chronic obstructive pulmonary disease in Beijing, 2013â€“17: an ecological analysis. Lancet Planetary Health, The, 2019, 3, e270-e279.	5.1	104
6	Long term exposure to air pollution and mortality in an elderly cohort in Hong Kong. Environment International, 2018, 117, 99-106.	4.8	98
7	Introduction to the special issue â€œIn-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing)â€• Atmospheric Chemistry and Physics, 2019, 19, 7519-7546.	1.9	95
8	The impact of the congestion charging scheme on ambient air pollution concentrations in London. Atmospheric Environment, 2009, 43, 5493-5500.	1.9	94
9	Evidence for the presence of air pollution nanoparticles in placental tissue cells. Science of the Total Environment, 2021, 751, 142235.	3.9	77
10	A large reduction in airborne particle number concentrations at the time of the introduction of â€œsulphur freeâ€•diesel and the London Low Emission Zone. Atmospheric Environment, 2012, 50, 129-138.	1.9	76
11	Ozone, heat and mortality: acute effects in 15 British conurbations. Occupational and Environmental Medicine, 2010, 67, 699-707.	1.3	75
12	Improved aerosol correction for OMI tropospheric NO₂ retrieval over East Asia: constraint from CALIOP aerosol vertical profile. Atmospheric Measurement Techniques, 2019, 12, 1-21.	1.2	75
13	Characterising low-cost sensors in highly portable platforms to quantify personal exposure in diverse environments. Atmospheric Measurement Techniques, 2019, 12, 4643-4657.	1.2	74
14	Predicting Fine Particulate Matter (PM2.5) in the Greater London Area: An Ensemble Approach using Machine Learning Methods. Remote Sensing, 2020, 12, 914.	1.8	71
15	The human circulating miRNome reflects multiple organ disease risks in association with short-term exposure to traffic-related air pollution. Environment International, 2018, 113, 26-34.	4.8	60
16	PM2.5 on the London Underground. Environment International, 2020, 134, 105188.	4.8	57
17	Methods to Estimate Acclimatization to Urban Heat Island Effects on Heat- and Cold-Related Mortality. Environmental Health Perspectives, 2016, 124, 1016-1022.	2.8	48
18	Carbon in airway macrophages from children with asthma. Thorax, 2014, 69, 654-659.	2.7	47

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19	Integrating travel behavior with land use regression to estimate dynamic air pollution exposure in Hong Kong. Environment International, 2018, 113, 100-108.	4.8	45
20	Global Associations between Air Pollutants and Chronic Obstructive Pulmonary Disease Hospitalizations: A Systematic Review. Annals of the American Thoracic Society, 2016, 13, 1814-1827.	1.5	43
21	Impact of short-term traffic-related air pollution on the metabolome â€“ Results from two metabolome-wide experimental studies. Environment International, 2019, 123, 124-131.	4.8	42
22	Evaluation of TEOMTM â€˜correction factorsâ€™ for assessing the EU Stage 1 limit values for PM10. Atmospheric Environment, 2001, 35, 2589-2593.	1.9	37
23	Investigation into the use of the CUSUM technique in identifying changes in mean air pollution levels following introduction of a traffic management scheme. Atmospheric Environment, 2007, 41, 1784-1791.	1.9	37
24	Modelling individual preferences for environmental policy drivers: Empirical evidence of Italian lifestyle changes using a latent class approach. Environmental Science and Policy, 2016, 65, 65-74.	2.4	33
25	Air pollution and the incidence of ischaemic and haemorrhagic stroke in the South London Stroke Register: a caseâ€“cross-over analysis. Journal of Epidemiology and Community Health, 2017, 71, 707-712.	2.0	31
26	Measurement error in a multi-level analysis of air pollution and health: a simulation study. Environmental Health, 2019, 18, 13.	1.7	31
27	Unexpectedly high concentrations of monoterpenes in a study of UK homes. Environmental Sciences: Processes and Impacts, 2017, 19, 528-537.	1.7	29
28	Cys34 Adductomes Differ between Patients with Chronic Lung or Heart Disease and Healthy Controls in Central London. Environmental Science & Technology, 2018, 52, 2307-2313.	4.6	29
29	Associations between exhaust and non-exhaust particulate matter and stroke incidence by stroke subtype in South London. Science of the Total Environment, 2016, 568, 278-284.	3.9	28
30	The state of science on severe air pollution episodes: Quantitative and qualitative analysis. Environment International, 2021, 156, 106732.	4.8	26
31	Prediction of PM2.5 concentrations at the locations of monitoring sites measuring PM10 and NOx, using generalized additive models and machine learning methods: A case study in London. Atmospheric Environment, 2020, 240, 117757.	1.9	24
32	Vertical monitoring of traffic-related air pollution (TRAP) in urban street canyons of Hong Kong. Science of the Total Environment, 2019, 670, 696-703.	3.9	23
33	Effect of Exhaust- and Nonexhaust-Related Components of Particulate Matter on Long-Term Survival After Stroke. Stroke, 2016, 47, 2916-2922.	1.0	22
34	Daytime CO2 urban surface fluxes from airborne measurements, eddy-covariance observations and emissions inventory in Greater London. Environmental Pollution, 2015, 196, 98-106.	3.7	20
35	Personal exposure to air pollution and respiratory health of COPD patients in London. European Respiratory Journal, 2021, 58, 2003432.	3.1	20
36	Spatial variability of fine particulate matter pollution (PM2.5) on the London Underground network. Urban Climate, 2019, 30, 100535.	2.4	18

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37	High-resolution spatiotemporal measurement of air and environmental noise pollution in Sub-Saharan African cities: Pathways to Equitable Health Cities Study protocol for Accra, Ghana. BMJ Open, 2020, 10, e035798.	0.8	18
38	Linking e-health records, patient-reported symptoms and environmental exposure data to characterise and model COPD exacerbations: protocol for the COPE study. BMJ Open, 2016, 6, e011330.	0.8	17
39	The impact of measurement error in modeled ambient particles exposures on health effect estimates in multilevel analysis. Environmental Epidemiology, 2020, 4, e094.	1.4	17
40	Nitrogen oxides (NO and NO2) pollution in the Accra metropolis: Spatiotemporal patterns and the role of meteorology. Science of the Total Environment, 2022, 803, 149931.	3.9	17
41	Comparing the performance of air pollution models for nitrogen dioxide and ozone in the context of a multilevel epidemiological analysis. Environmental Epidemiology, 2020, 4, e093.	1.4	16
42	Taxi driversâ€™ exposure to black carbon and nitrogen dioxide in electric and diesel vehicles: A case study in London. Environmental Research, 2021, 195, 110736.	3.7	16
43	â€œI am an air quality scientistâ€â€“ Using citizen science to characterise school children's exposure to air pollution. Environmental Research, 2021, 201, 111536.	3.7	16
44	Air quality changes after Hong Kong shipping emission policy: An accountability study. Chemosphere, 2019, 226, 616-624.	4.2	15
45	Spatial-temporal patterns of ambient fine particulate matter (PM_{2.5}) and black carbon (BC) pollution in Accra. Environmental Research Letters, 2021, 16, 074013.	2.2	15
46	Characterising professional driversâ€™ exposure to traffic-related air pollution: Evidence for reduction strategies from in-vehicle personal exposure monitoring. Environment International, 2021, 153, 106532.	4.8	15
47	Comparing human exposure to fine particulate matter in low and high-income countries: A systematic review of studies measuring personal PM2.5 exposure. Science of the Total Environment, 2022, 833, 155207.	3.9	15
48	Assessing the contributions of outdoor and indoor sources to air quality in London homes of the SCAMP cohort. Building and Environment, 2022, 222, 109359.	3.0	12
49	Effects of AIR pollution on cardiopuLmonary disEaSe in urban and peri-urban reSidents in Beijing: protocol for the AIRLESS study. Atmospheric Chemistry and Physics, 2020, 20, 15775-15792.	1.9	11
50	Recruitment of patients with Chronic Obstructive Pulmonary Disease (COPD) from the Clinical Practice Research Datalink (CPRD) for research. Npj Primary Care Respiratory Medicine, 2018, 28, 21.	1.1	9
51	Acute Blood Pressure-Lowering Effects of Nitrogen Dioxide Exposure From Domestic Gas Cooking Via Elevation of Plasma Nitrite Concentration in Healthy Individuals. Circulation Research, 2020, 127, 847-848.	2.0	9
52	Relationships between airborne pollutants, serum albumin adducts and short-term health outcomes in an experimental crossover study. Chemosphere, 2020, 239, 124667.	4.2	6
53	The role of the media in staging air pollution: The controversy on extreme air pollution along Oxford Street and other debates on poor air quality in London. Environment and Planning C: Politics and Space, 2022, 40, 611-628.	1.1	6
54	Intervention assessments in the control of PM₁₀emissions from an urban waste transfer station. Environmental Sciences: Processes and Impacts, 2014, 16, 1328-1337.	1.7	4

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55	Semi Automated Transformation to OWL Formatted Files as an Approach to Data Integration. Methods of Information in Medicine, 2015, 54, 32-40.	0.7	4
56	Interactions between the Physical and Social Environments with Adverse Pregnancy Events Related to Placental Disordersâ€"A Scoping Review. International Journal of Environmental Research and Public Health, 2020, 17, 5421.	1.2	4
57	Airway dendritic cell maturation in children exposed to air pollution. PLoS ONE, 2020, 15, e0232040.	1.1	4
58	Assessing the exposure and hazard of diesel exhaust in professional drivers: a review of the current state of knowledge. Air Quality, Atmosphere and Health, 2021, 14, 1681-1695.	1.5	4
59	Development and Evaluation of Spatio-Temporal Air Pollution Exposure Models and Their Combinations in the Greater London Area, UK. International Journal of Environmental Research and Public Health, 2022, 19, 5401.	1.2	3
60	P120â€…Ambient exposure to diesel traffic particles and cardio-respiratory outcomes in healthy and in COPD subjects: â€˜Oxford Street 2â€™. Thorax, 2013, 68, A129-A130.	2.7	2
61	Asthma hospitalisations and air pollution. Thorax, 2016, 71, 1076-1077.	2.7	2
62	Identifying trends in ultrafine particle infiltration and carbon dioxide ventilation in 92 vehicle models. Science of the Total Environment, 2022, 812, 152521.	3.9	2
63	Prostaglandin E2 and phagocytosis of inhaled particulate matter by airway macrophages in cystic fibrosis. Journal of Cystic Fibrosis, 2020, 20, 673-677.	0.3	1
64	Separating personal exposure from indoor and outdoor sources in a large London cohort (a part of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.0	0