

# Publications

## Peer reviewed articles

### Environmental Exposure and Health Initiative (EEHI)

#### AWESOME

Atkinson, R.W.*et al.* (2012). [Concentration-Response Function for Ozone and Daily Mortality: Results from Five Urban and Five Rural U.K. Populations.](#) *Environmental Health Perspectives*: 120 (10), 1411-1417.

Mavrogianni, A., Wilkinson, P., Davies, M., Biddulph, P., & Oikonomou, E. (2012). [Building characteristics as determinants of propensity to high indoor summer temperatures in London dwellings.](#) *Building and Environment*, 55, 117-130.

Oikonomou, E., Davies, M., Mavrogianni, A., Biddulph, P., Wilkinson, P., & Kolokotroni, M. (2012). [Modelling the relative importance of the urban heat island and the thermal quality of dwellings for overheating in London.](#) *Building and Environment*, 57, 223-238.

Butland, B. K., Armstrong, B., Atkinson, R. W., Wilkinson, P., Heal, M. R., Doherty, R. M., & Vieno, M. (2013). [Measurement error in time-series analysis: a simulation study comparing modelled and monitored data.](#) *BMC medical research methodology*, 13(1), 136.

Heal, M. R., Heaviside, C., Doherty, R. M., Vieno, M., Stevenson, D. S., & Vardoulakis, S. (2013). [Health burdens of surface ozone in the UK for a range of future scenarios.](#) *Environment international*, 61, 36-44.

Mavrogianni, A., Davies, M., Taylor, J., Chalabi, Z., Biddulph, P., Oikonomou, E., ... & Jones, B. (2014). [The impact of occupancy patterns, occupant-controlled ventilation and shading on indoor overheating risk in domestic environments.](#) *Building and Environment*.

Taylor, J., Shrubsole, C., Davies, M., Biddulph, P., Das, P., Hamilton, I., ... & Oikonomou, E. (2014). [The modifying effect of the building envelope on population exposure to PM2.5 from outdoor sources.](#) *Indoor air*.

Taylor, J., Shrubsole, C., Biddulph, P., Jones, B., Das, P., & Davies, M. (2014). [Simulation of pollution transport in buildings: the importance of taking into account dynamic thermal effects.](#) *Building Services Engineering Research and Technology*.

Taylor, J., Davies, M., Mavrogianni, A., Chalabi, Z., Biddulph, P., Oikonomou, E., ... & Jones, B. (2014). [The relative importance of input weather data for indoor overheating risk assessment in dwellings.](#) *Building and Environment*, 76, 81-91.

Fewtrell, L., & Kay, D. (2015). [Recreational Water and Infection: A Review of Recent Findings.](#) *Current Environmental Health Reports*, 2(1), 85–94.

Huang, G., Falconer, R. A., Boye, B. A. and Lin, B. 2015. [Cloud to coast: integrated assessment of environmental exposure, health impacts and risk perceptions of faecal organisms in coastal waters.](#) *International Journal of River Basin Management*. 13(1), 73-86.

Shepherd, W.J., Saul, A.J., Stapleton, C.M., Kay, D., Phillips, A., Lerner, D.N., Falconer, R.A., Lin, B., Gao, G., and Huang, G., 2013. **Do faecal indicator organisms exhibit a first**

**foul flush in combined sewers?** *Proceedings of 7th International Conference on Sewer Processes and Networks, Sheffield, England, 28th-30th August.*

## **TRAFFIC**

**Presentation** from Webinar 17th February 2016

Atkinson RW, Analitis A, Samoli E, Fuller GW, Green DC, Mudway IS, Anderson HR, Kelly FJ. (2015) [Short-term exposure to traffic-related air pollution and daily mortality in London, UK.](#) *J Expo Sci Environ Epidemiol.* (in press)

Barone-Adesi F, Dent J, Dajnak D, Beevers S, Anderson HR, Kelly FJ, Cook DG, Wincup P. (2015). [Long-term exposure to primary traffic pollutants and lung function in children: cross-sectional study and meta-analysis.](#) *PLOS ONE* 10(11): e0142565

Beevers, S. D., Kitwiroon, N., Williams, M. L., & Carslaw, D. C. (2012). [One way coupling of CMAQ and a road source dispersion model for fine scale air pollution predictions.](#) *ATMOSPHERIC ENVIRONMENT*, 59, 47-58.

Beevers, S. D., Kitwiroon, N., Williams, M. L., Kelly, F. J., Anderson, R., & Carslaw, D. C. (2013). [Air pollution dispersion models for human exposure predictions in London.](#) *Journal of exposure science & environmental epidemiology*, 23, 647-653.

Brugha R.E. (2014).

**Carbon in airway macrophages from children with asthma.** *Thorax.* 69 (7): 654-659.

Canova, C. et al. (2014). [PM10 oxidative properties and asthma and COPD.](#) *Epidemiology*, 25(3): 467-468.

Carey, I.M., Anderson, H.R., Atkinson, R.W., Beevers, S., Cook, D.G., Dajnak, D., Gulliver, J., Kelly, F.J. [Traffic pollution and the incidence of cardio-respiratory outcomes in an adult cohort in London](#) OEM

Fecht, D., Hansell, A.L., Morley, D., Dajnak, D., Vienneau, D., Beevers, S., Toledano, M.B., Kelly, F.J., Anderson, H. R., Gulliver, J. (2016) [Spatial and temporal associations of road traffic noise and air pollution in London: Implications for epidemiological studies.](#) *Environment International* 88: 235–242.

Fulvio, A. (2014). [Urban air quality: the challenge of traffic non-exhaust emissions.](#) *Journal of hazardous materials.* 275: 31-36.

Gulliver, J. et al. (2015). [Development of an open-source road traffic noise model for exposure assessment.](#) *Environmental Modelling & Software.* In Press.

Janssen N. A.H., Yang A, Strak M, Steenhof M, Hellack B, Gerlofs-Nijland M. E., Kuhlbusch T, Kelly F, Harrison R, Brunekreef B, Hoek G, Cassee F. (2014). [Oxidative potential of particulate matter collected at sites with different source characteristics.](#) *Science of the Total Environment.* 472: 572-581.

Halonen JI, Anna L Hansell, John Gulliver, David Morley, Marta Blangiardo, Daniela Fecht, Mireille B Toledano, Sean D Beevers, H Ross Anderson, Frank J Kelly, Cathryn Tonne. (2015). [Road traffic noise is associated with increased cardiovascular morbidity and mortality and all-cause mortality in London.](#) *Eur Heart J.* 36(39): 2653-61.

Halonen JI, Marta Blangiardo, Mireille B Toledano, Daniela Fecht, John Gulliver, Rebecca Ghosh, H Ross Anderson, Sean D Beevers, David Dajnak, Frank J Kelly, Paul Wilkinson,

Cathryn Tonne. (2016). [Is long-term exposure to traffic pollution associated with mortality? A Small-Area Study in London.](#) *Environmental Pollution* 208(Pt A):25-32.

Halonen JI, Marta Blangiardo, Mireille B Toledano, Daniela Fecht, John Gulliver, H Ross Anderson, Sean D Beevers, David Dajnak, Frank J Kelly, Cathryn Tonne. (2016). [Long-term exposure to traffic pollution and hospital admissions in London.](#) *Environ Pollution*, 208: 48-57.

Kelly, F. J., & Fussell, J. C. (2012). [Size, source and chemical composition as determinants of toxicity attributable to ambient particulate matter.](#) *ATMOSPHERIC ENVIRONMENT*, 60, 504 - 526.

Kuhlbusch, T.A.J. et al. (2014). [New DIrections: The future of European urban air quality monitoring.](#) *Atmospheric Environment*, 87: 258-260.

Pirani, M., Gulliver, J., Fuller, G., & Blangiardo, M. (2014). [Bayesian spatiotemporal modelling for the assessment of short-term exposure to particle pollution in urban areas.](#) *Journal of exposure science & environmental epidemiology*, 24, 319–327.

Pirani, M. et al. (2015). [Analysing the health effects of simultaneous exposure to physical and chemical properties of airborne particles.](#) *Environment International*, 79, 56-64.

Samoli E, Atkinson R, Analitis A, Fuller G, Green D, Mudway I, Anderson HR, Kelly FJ. (2016) [Associations of short-term exposure to traffic-related air pollution with cardiovascular and respiratory hospital admissions in London, U.K.](#) *Occup & Environ Med*

Tonne C, Halonen J, Beevers SD, Dajnak D, Gulliver J, Kelly FJ, Wilkinson P, Anderson HR. (2016). [Long-term traffic air and noise pollution in relation to mortality and hospital readmission among myocardial infarction survivors.](#) *Int J Hyg Environ Health* 219(1):72-8.

Williams ML, Atkinson RW, Anderson RH, Kelly FJ. 2014. [Associations between daily mortality in London and combined oxidant capacity, ozone and nitrogen dioxide.](#) *Air Quality, Atmosphere & Health*.

## **FABLE**

Chen, H. S., Mazzolini, J., Ayers, J., Rappoport, J., Lead, J., & Preece, J. (2013). [Synthesis and characterization of nano ceria for biological applications. In Nano-Bio Sensing, Imaging and Spectroscopy](#) (pp. 887910-887910). International Society for Optics and Photonics.

Sanderson, P. Delgado-Saborit, J.M. ,Harrison, R. M. (2014). [A review of chemical and physical characterisation of atmospheric metallic nanoparticles.](#) *Atmospheric Environment*. 94: 353-365.

Smith, P. J., Giroud, M., Wiggins, H. L., Gower, F., Thorley, J. A., Stolpe, B., ... & Rappoport, J. Z. (2012). [Cellular entry of nanoparticles via serum sensitive clathrin-mediated endocytosis, and plasma membrane permeabilization.](#) *Int J Nanomedicine*, 7, 2045-2055.

Su S. S., Chang I. T. H., Kuo W. C. H., Price D., Pikramenou Z., Lead J. (2014). [Pulsed electrical discharge synthesis of red photoluminescence zinc oxide nanoparticles.](#) *Journal of Nanoparticle Research*, 16 (9): 2611

## Environmental and Social Ecology of Human Infectious Diseases (ESEI)

### MONKEYBAR

Barber, B. E., William, T., Grigg, M. J., Menon, J., Auburn, S., Marfurt, J., ... & Yeo, T. W. (2013). [A prospective comparative study of knowlesi, falciparum, and vivax malaria in Sabah, Malaysia: high proportion with severe disease from Plasmodium knowlesi and Plasmodium vivax but no mortality with early referral and artesunate therapy.](#) *Clinical infectious diseases*, 56(3), 383-397.

Fornace, KM, Drakeley CJ, William T, Espino F, Cox J. (2014). [Mapping infectious disease landscapes: unmanned aerial vehicles and epidemiology.](#) *Trends in Parasitology*. 30 (11): 514-519.

Grigg MJ, William T, Drakeley CJ, Jelip J, von Seidlein L, Barber BE, Fornace KM, Anstey NM, Yeo TW, Cox J. (2014). [Factors that are associated with the risk of acquiring Plasmodium knowlesi malaria in Sabah, Malaysia: a case-control study protocol.](#) *BMJ Open*, 4(8): e006004.

Imai N, White MT, Ghani AC, Drakeley CJ. (2014). [Transmission and Control of Plasmodium knowlesi: A Mathematical Modelling Study.](#) *PLoS Neglected Tropical Diseases*, 8(7)

Moyes CL, Henry AJ, Golding N, Huang Z, Singh B, Baird JK, Newton PN, Huffman M, Duda KA, Drakeley CJ, Elyazar IR, Anstey NM, Chen Q, Zommers Z, Bhatt S, Gething PW, Hay SI. [Defining the geographical range of the Plasmodium knowlesi reservoir.](#) *PLoS Neglected Tropical Diseases*, 8(3)

### URBANZOO

Havelaar AH, Kirk MD, Torgerson PR, Gibb HJ, Hald T, Lake, RJ, Praet, N, Bellinger, DC, de Silva, NR, Gargouri, N, Speybroeck, N, Cawthorne, A, Mathers, C, Stein, S, Angulo, FJ, Devleesschauwer, B, on behalf of World Health Organization Foodborne Disease Burden Epidemiology Reference Group (2015). **World Health Organization Global Estimates and Regional Comparisons of the Burden of Foodborne Disease in 2010.** *PLoS Medicine* 12(12): e1001923. doi:10.1371/journal.pmed.1001923

Devleesschauwer B, Haagsma JA, Angulo FJ, Bellinger DC, Cole D, Döpfer, D, Fazil, A, Fèvre, EM, Gibb, HJ, Hald, T, Kirk, MD, Lake, RJ, de Noordhout, CM, Mathers, CD, McDonald, SA, Pires, SM, Speybroeck, N, Thomas, MK, Torgerson, PR, Wu, F, Havelaar, AH, Praet, N (2015). **Methodological Framework for World Health Organization Estimates of the Global Burden of Foodborne Disease.** *PLoS ONE* 10(12): e0142498. doi: 10.1371/journal.pone.0142498

Torgerson PR, Devleesschauwer B, Praet N, Speybroeck N, Willingham AL, Kasuga, F, Rokni, MB, Zhou, X-N, Fèvre, EM, Sripa, B, Gargouri, N, Fürst, T, Budke, CM, Carabin, H, Kirk, MD, Angulo, FJ, Havelaar, A, de Silva, N (2015). **World Health Organization Estimates of the Global and Regional Disease Burden of 11 Foodborne Parasitic Diseases, 2010: A Data Synthesis.** *PLoS Medicine* 12(12): e1001920. doi: 10.1371/journal.pmed.1001920

Murithi Mbabu, Ian Njeru, Sarah File, Eric Osoro, Stella Kiambi, Austine Bitek, Peter Ithondeka, Salome Kairu-Wanyoike, Shanaaz Sharif, Eric Gogstad, Francis Gakuya, Kaitlin Sandhaus, Peninah Munyua, Joel Montgomery, Robert Breiman, Carol Rubin, Kariuki Njenga (2014). **Establishing a One Health office in Kenya**. The Pan African Medical Journal. 2014;19:106

Ahmed, S. et al. 2015. Cooking up a storm: community-led mapping and advocacy with food vendors in Nairobi's informal settlements. **IIED Working Paper**.

**Cravero, P.** 2015. Mapping for food safety: How and why communities in Nairobi's informal settlements are creating and using maps to ensure their food and the people who sell it are safe. **IIED Working Paper**