

Dr Jianxin Yin PhD

Research Fellow

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About

Dr Jianxin Yin is one of the experts in the field of atmospheric aerosol monitoring and characterisation. She has gained tremendous experiences during the past 13 years of research on use of modern aerosol field monitoring and modern laboratory analytical equipment and on air quality data analyses and modelling.

Qualifications

- PhD in Environmental Health Science (University of Birmingham)
- BSc (Hons) in chemistry (Hebei Normal University, China)

Biography

Dr Jianxin Yin obtained her BSc in chemistry and worked as a university lecture assistant and later as a university lecturer in China before she came to England. She gained her PhD in Environmental Sciences from the University of Birmingham and then started working on air pollution with the Division of Environmental Health and Risk Management.

Research

Research Cluster / Group Affiliation

Environmental Health Sciences

Research Interests

- Air pollution and health
- Physical and chemical characterisation of airborne particles
- Source apportionment of atmospheric aerosols

Other activities

Dr Jianxin Yin is also engaged at supervising/training postgraduate students and new member of staff on the use of field and laboratory equipment, and advising/helping postgraduate students on their research.

Publications

Harrison R M., Beddows D C S., Hu L. and **Yin J.** (2012) Comparison of methods for evaluation of wood smoke and estimation of UK ambient concentrations, *Atmos. Chem. Phys. Discuss.*, 12, 1-34.

Harrison R M., Jones A M., Gietl J., **Yin J.** and Green D C. (2012) Estimation of the contributions of brake dust, tire wear, and resuspension to nonexhaust traffic particles derived from atmospheric measurements, *Environ. Sci. Technol.*, in print.

Harrison R M. and **Yin J.** (2010) Chemical speciation of PM_{2.5} particles at urban background and rural sites in the UK atmosphere, *J. Environ. Monit.*, 12, 1404-1414.

Yin J., Harrison R M., Chen Q., Rutter A and Schauer J J (2010) Source apportionment of fine particles at urban background and rural sites in the UK atmosphere, *Atmos. Environ.*, 44, 841-851.

Jones A., **Yin J** and Harrison R M (2008) The weekday-weekend difference and the estimation of the non-vehicle contributions to the urban increment of airborne particulate matter. *Atmos. Environ.*, 42, 4467-4479.

Harrison R M and **Yin J** (2008) Sources and processes affecting carbonaceous aerosol in central England. *Atmos. Environ.*, 42, 1413-1423.

Yin J and Harrison R M (2008) *Pragmatic mass closure study for PM₁, PM_{2.5} and PM₁₀ at roadside, urban background and rural sites.* *Atmos. Environ.*, 42, 980-988.

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Harrison R M, **Yin J**, Tilling R M, Cai X, Seakins P W, Hopkins J R, Lansley D L, Lewis A C, Hunter M C, Heard D E, Carpenter L J, Creasey D J, Lee J D, Pilling M J, Carslaw N, Emmerson K M, Redington A, Derwent R G, Ryall D, Mills G and Penkett S A (2006) Measurement and modelling of air pollution and atmospheric chemistry

in the U.K. West Midlands conurbation: overview of the PUMA consortium project, *Sci. of the total Environ.*, 360, 5-25.

Yin J, Allen A G, Harrison R M, Jennings S G, Wright E, Fitzpatrick M, Healy T, Barry E, Ceburnis D and McCusker D (2005) Major component composition of urban PM10 and PM2.5 in Ireland, *Atmos. Res.* 78, 149-165.

Huang Z, Harrison R M, Allen A G, James J D, Tilling R H and **Yin J** (2004) Field inter-comparison of filter pack and impactor sampling for aerosol nitrate, ammonium and sulphate at coastal and inland sites, *Atmos. Res.*, 71, 215-232.

Harrison RM, **Yin J**, Mark D, Stedman J, Appleby RS, Booker J and Moorcroft S (2001) Studies of the coarse particle (2.5-10 mm) component in UK urban atmospheres, *Atmos. Environ.*, 35, 3667-3679.

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