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Dr Leigh Crilley

Research Fellow in Air Pollution

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About

Leigh Crilley is a chemist specializing in the field of air pollution/atmospheric chemistry. His current research involves analyzing the chemical composition of airborne particles to determine the source and their contributions.

Qualifications

Bachelor of Applied Science (Chemistry)

Doctor of Philosophy

Biography

Leigh Crilley has recently been awarded his PhD thesis on the physiochemical properties of airborne particles at the Queensland University of Technology, where he completed his undergraduate studies in chemistry. This is his first post-doctoral position.

Doctoral research

PhD title Investigations of the physical and chemical properties of ambient fine particles in urban schools

Research

Research interests

Chemical composition and source apportionment of airborne particles

Publications

Leigh R. Crilley, Godwin A. Ayoko and Lidia Morawska. *First measurements of source apportionment of organic aerosols in the Southern Hemisphere.* Environmental Pollution. 2014. 184 81-88.

Leigh R. Crilley, Godwin A. Ayoko and Lidia Morawska. *Analysis of organic aerosols collected on filters by Aerosol Mass Spectrometry for source identification.* Analytica Chimica Acta. 2013; 803: 91-96.

Leigh R. Crilley, Godwin A. Ayoko, E. Rohan Jayaratne, Farhad Salimi and Lidia Morawska. *Aerosol Mass Spectrometric analysis of the chemical composition of non-refractory PM_1 samples from school environments in Brisbane, Australia.* Science of the Total Environment. 2013; 458-460: 81-89.

Farhad Salimi, Mandana Mazaheri, Sam Clifford, **Leigh Crilley**, Rusdin Laiman and Lidia Morawska. *Spatial variation of particle number concentration in school microscale environments and its impact on exposure assessment.* Environmental Science and Technology. 2013; 47: 5251-8.

Leigh R. Crilley, Luke D. Knibbs, Branka Miljevic, Xiaochun Cong, Kathryn E. Fairfull-Smith, Steve E. Bottle, Zoran D. Ristovski, Godwin A. Ayoko and Lidia Morawska. *Concentration and oxidative potential of on-road particle emissions and their relationship with traffic composition: Relevance to exposure assessment.* Atmospheric Environment 2012; 59: 533-539.

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