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Lars Duester, Dr.

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Education

Diploma: Environmental Scientist

PhD: Analytical Chemistry

Thesis

Lars Duester: *Methyl-Arsenic- and Antimony Species in Soils and Sediments.*

Skills & Activities

Skills Sediments, ICP-MS, Speciation, Antimony, Construction Materials, Environment, Soil, Mass Spectrometry, Nanoparticles, ETV, Electrothermal vaporisation

Languages English, German

Selected Journal Publications

Anne-Lena Fabricius, Lars Duester, Björn Meermann, Thomas A Ternes: *ICP-MS-based characterization of inorganic nanoparticles-sample preparation and off-line fractionation strategies.* Analytical and Bioanalytical Chemistry 12/2013;

Bjorn Meermann, Anne-Lena Fabricius, Lars Duester, Frank Vanhaecke, Thomas Ternes: *Fraction-related quantification of silver nanoparticles via on-line species-unspecific post-channel isotope dilution in combination with asymmetric flow-field-flow fractionation (AF4)/sector field ICP-mass spectrometry (ICP-SF-MS).* Journal of Analytical Atomic Spectrometry 01/2013;

L. Duester, Rakcheev D, J.V. Bayer, Abraham P.M, Dabrunz A, R. Schulz, G.E. Schaumann: *A robust, particle size independent, method for quantifying metal(loid oxide) nanoparticles and their agglomerates in complex environmental matrices by electrothermal vaporisation coupled to ICP-MS.* Journal of Analytical Atomic Spectrometry 01/2011; 26:450-455.

Lars Duester, Jos P M Vink, Alfred V Hirner: *Methylantimony and -arsenic species in sediment pore water tested with the sediment or fauna incubation experiment.* Environmental Science and Technology 09/2008; 42(16):5866-71.