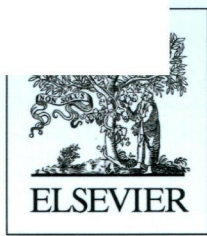


Volume 73

July 2013

ISSN 1352-2310



# ATMOSPHERIC ENVIRONMENT

**Air Pollution:** Air Quality • Emissions • Transport and Transformations • Atmospheric Composition • Deposition and Fate • Pollution and Climate Change • Environmental Policy • Special Themes



## CONTENTS

### Regular papers

- P. Liping, Z. Yu, Q. Hongquan, H. Tao and W. Wei 1 Approach to identifying pollutant source and matching flow field
- H. Cheng, Z. Deng, P. Chakraborty, D. Liu, R. Zhang, Y. Xu, C. Luo, G. Zhang and J. Li 16 A comparison study of atmospheric polycyclic aromatic hydrocarbons in three Indian cities using PUF disk passive air samplers
- I. López-Coto, J.L. Mas and J.P. Bolivar 22 A 40-year retrospective European radon flux inventory including climatological variability
- I. Weinberg, E. Bahlmann, W. Michaelis and R. Seifert 34 Determination of fluxes and isotopic composition of halocarbons from seagrass meadows using a dynamic flux chamber
- Y. Zhang, H. Mao, A. Ding, D. Zhou and C. Fu 41 Impact of synoptic weather patterns on spatio-temporal variation in surface O<sub>3</sub> levels in Hong Kong during 1999–2011
- J. Heo, M. Dulger, M.R. Olson, J.E. McGinnis, B.R. Shelton, A. Matsunaga, C. Sioutas and J.J. Schauer 51 Source apportionments of PM<sub>2.5</sub> organic carbon using molecular marker Positive Matrix Factorization and comparison of results from different receptor models
- S.-S. Park, S.Y. Sim, M.-S. Bae and J.J. Schauer 62 Size distribution of water-soluble components in particulate matter emitted from biomass burning
- M.P. Keuken, P. Zandveld, S. Jonkers, M. Moerman, A.D. Jedynska, R. Verbeek, A. Visschedijk, S. Elshout van den, P. Panteliadis and G.J.M. Velders 73 Modelling elemental carbon at regional, urban and traffic locations in The Netherlands
- A. Misra, M.J. Roorda and H.L. MacLean 81 An integrated modelling approach to estimate urban traffic emissions
- M.M. Gogoi, S. Suresh Babu, K. Krishna Moorthy, M.R. Manoj and J.P. Chaubey 92 Absorption characteristics of aerosols over the northwestern region of India: Distinct seasonal signatures of biomass burning aerosols and mineral dust
- T.M. Giannaros, D. Melas, I.A. Daglis, I. Keramitsoglou and K. Kourtidis 103 Numerical study of the urban heat island over Athens (Greece) with the WRF model
- A.M. Juwono, G.R. Johnson, M. Mazaheri, L. Morawska, F. Roux and B. Kitchen 112 Investigation of the airborne submicrometer particles emitted by dredging vessels using a plume capture method

Continued on inside back cover

Abstracted/indexed in: *Acid Precipitation Digest, Air Pollution Titles, Analytical Abstracts, Applied Science & Technology Abstracts, Applied Science and Technology Index, Aqualine Abstracts, BIOSIS, Cambridge Scientific Abstracts, Chemical Abstracts, Current Contents / Physics / Chemistry & Earth Science, Current Contents/Agriculture, Biology & Environmental Sciences, EMBASE, Elsevier BIOBASE Environmental Periodicals Bibliography, FLUIDEX, GEOBASE, Geographical Abstracts: Physical Geography, Geological Abstracts, INSPEC, Meteorological and, Geostrophysical Abstracts, PASCAL/CNRS, Research Alert, SCISEARCH, Science Citation Index, Scopus, Theoretical Chemical Engineering Abstracts* Also covered in the abstract and citation database SciVerse Scopus. Full text available on SciVerse ScienceDirect®.



- A.M. Smyth, S.L. Thompson, B. de Foy,  
M.R. Olson, N. Sager, J. McGinnis,  
J.J. Schauer and D.S. Gross 124 Sources of metals and bromine-containing particles in Milwaukee
- M.E. Whelan, D.-H. Min and R.C. Rhow 131 Salt marsh vegetation as a carbonyl sulfide (COS) source to the atmosphere
- L.M.J. Geelen, M.A.J. Huijbregts, H.W.A. Jans,  
A.M.J. Ragas, H.A. den Hollander and J.M.M. Aben 138 Comparing the impact of fine particulate matter emissions from industrial facilities and transport on the real age of a local community
- S.L. Clegg, C. Qiu and R. Zhang 145 The deliquescence behaviour, solubilities, and densities of aqueous solutions of five methyl- and ethyl-aminium sulphate salts
- S. Yatkin and M. Gerboles 159 Investigation of the mass loss of water soluble ionic compounds caused by EDXRF analysis of PM<sub>10</sub> loaded filters
- G. Sun, Z. Li, X. Bi, Y. Chen, S. Lu and X. Yuan 169 Distribution, sources and health risk assessment of mercury in kindergarten dust
- K. Odziomek, A. Gajewicz, M. Haranczyk and  
T. Puzyn 177 Reliability of environmental fate modeling results for POPs based on various methods of determining the air/water partition coefficient (log  $K_{AW}$ )
- D.C. Quiros, E.S. Lee, R. Wang and Y. Zhu 185 Ultrafine particle exposures while walking, cycling, and driving along an urban residential roadway
- S. Inomata, H. Tanimoto, Y. Fujitani, K. Sekimoto,  
K. Sato, A. Fushimi, H. Yamada, S. Hori,  
Y. Kumazawa, A. Shimono and T. Hikida 195 On-line measurements of gaseous nitro-organic compounds in diesel vehicle exhaust by proton-transfer-reaction mass spectrometry
- W. Wang, M.-j. Huang, C.-Y. Chan,  
K.C. Cheung and M.H. Wong 204 Risk assessment of non-dietary exposure to polycyclic aromatic hydrocarbons (PAHs) via house PM<sub>2.5</sub>, TSP and dust and the implications from human hair
- Technical note**
- K. Liu, J. Quan, Y. Mu, Q. Zhang, J. Liu, Y. Gao,  
P. Chen, D. Zhao and H. Tian 11 Aircraft measurements of BTEX compounds around Beijing city
- Announcement**
- 214 Nominations sought for the 2013 Haagen-Smit Prize