



Volume 44

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



# ATMOSPHERIC ENVIRONMENT

<http://www.elsevier.com/locate/atmosenv>

Volume 44 Issue 31

2010

## CONTENTS

### New Directions

New Directions: Restoring the westerly winds in the Southern Hemisphere: Climate's lever  
O.W. Wingenter, S.M. Elliott and D.R. Blake

### Regular papers

- |   |      |  |
|---|------|--|
| W.-S. Lee and M.-K. Kim   | 3739 | Effects of radiative forcing by black carbon aerosol on spring rainfall decrease over Southeast Asia   |
| K. Civerolo, C. Hogrefe, E. Zalewsky, W. Hao, G. Sistla, B. Lynn, C. Rosenzweig and P.L. Kinney                                       | 3745 | Evaluation of an 18-year CMAQ simulation: Seasonal variations and long-term temporal changes in sulfate and nitrate                                  |
| K.W. Wong and J. Stutz  | 3753 | Influence of nocturnal vertical stability on daytime chemistry: A one-dimensional model study  |
| D.D. Cohen, J. Crawford, E. Stelcer and V.T. Bac  | 3761 | Long range transport of fine particle windblown soils and coal fired power station emissions into Hanoi between 2001 to 2008                         |
| T.S. Roumeliotis, B.J. Dixon and B.J. Van Heyst   | 3770 | Characterization of gaseous pollutant and particulate matter emission rates from a commercial broiler operation part I: Observed trends in emissions |
| T.S. Roumeliotis, B.J. Dixon and B.J. Van Heyst   | 3778 | Characterization of gaseous pollutant and particulate matter emission rates from a commercial broiler operation part II: Correlated emission rates   |
| G. Cervone, P. Franzese and A. Grajdeanu  | 3787 | Characterization of atmospheric contaminant sources using adaptive evolutionary algorithms   |
| A. Grant, A.T. Archibald, M.C. Cooke and D.E. Shallcross  | 3797 | Modelling the oxidation of seventeen volatile organic compounds to track yields of CO and CO <sub>2</sub>  |
| H. Guo, I.J. Simpson, A.J. Ding, T. Wang, S.M. Saunders, T.J. Wang, H.R. Cheng, B. Barletta, S. Meinardi, D.R. Blake and F.S. Rowland | 3805 | Carbonyl sulfide, dimethyl sulfide and carbon disulfide in the Pearl River Delta of southern China: Impact of anthropogenic and biogenic sources     |
| L.C. Belalcazar, A. Clappier, N. Blond, T. Flassak and J. Eichhorn  | 3814 | An evaluation of the estimation of road traffic emission factors from tracer studies   |
| M.A. Bari, G. Baumbach, B. Kuch and G. Scheffknecht   | 3823 | Temporal variation and impact of wood smoke pollution on a residential area in southern Germany  |

*Continued on inside back cover*

Abstracted/indexed in: *Anal Abstr. Acid Pre Dig, Air Poll Titles, Appl Sci Technol, Appl Sci Technol, Appl Sci Technol Index, Appl Sci Technol Abstr, Current Contents, Aqua Abstr, Biosis Data, CAB Inter, Cam Sci Abstr, Chem Eng Abstr, Chemical Abstracts Service, CABS, Environ Per Bibl, Excerpt Med, Fluid Abstr Civ Eng, Fluid Abstr Process Eng, FLUIDEX, Geo Abstr, INSPEC Data, PASCAL-CNRS Data, SCISEARCH Data, TCEA, Tribol Corros Abstr, Meteorolog Geostrophys Abstr*. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®.



Printed by Polestar Wheatons Ltd., Exeter, UK



ISSN 1352-2310  
44(31) 3739-3868 (2010)