

Volume 42

Issue 20

June 2008

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

### Atmospheric Science Perspectives Special Series

New Directions: Beyond Compliance Air Quality Measurements  
J.C. Chow and J.G. Watson

#### Announcement

- H.B. Singh, P. Brimblecombe, F. Veenstra and K.-L. Thonus 4811 Nominations sought for the 2008 Haagen-Smit Prize

#### Review

- T.D. Durbin, K. Johnson, J.W. Miller, H. Maldonado and D. Chernich 4812 Emissions from heavy-duty vehicles under actual on-road driving conditions

#### Regular papers

- F. Meng, D. Wen and J. Sloan 4822 Modelling of air-water exchange of PCBs in the Great Lakes
- S.G. Bhanuprasad, C. Venkataraman and M. Bhushan 4836 Positive matrix factorization and trajectory modelling for source identification: A new look at Indian Ocean Experiment ship observations
- F.-Y. Cheng, S. Kim and D.W. Byun 4853 Application of high resolution land use and land cover data for atmospheric modeling in the Houston-Galveston Metropolitan area: Part II Air quality simulation results
- Y. Yu, R.S. Sokhi, N. Kitwiroon, D.R. Middleton and B. Fisher 4870 Performance characteristics of MM5-SMOKE-CMAQ for a summer photochemical episode in southeast England, United Kingdom
- S. Janssen, G. Dumont, F. Fierens and C. Mensink 4884 Spatial interpolation of air pollution measurements using CORINE land cover data
- C.B. Carballeira, J.R. Aboal, J.A. Fernández and A. Carballeira 4904 Comparison of the accumulation of elements in two terrestrial moss species
- E. Solazzo, X. Cai and S. Vardoulakis 4918 Modelling wind flow and vehicle-induced turbulence in urban streets
- M. Rigby and R. Toumi 4932 London air pollution climatology: Indirect evidence for urban boundary layer height and wind speed enhancement

*Continued on inside back cover*

Indexed/Abstracted 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 Geoastrophys Abstr*. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®.



1352-2310(2008)42:20;1-M

Printed by Polestar Wheatons Ltd., Exeter, UK




ISSN 1352-2310  
42(20) 4811-5168 (2008)

- M.F. Yassin, R. Kellnerová and Z. Jaňour 4948 Impact of street intersections on air quality in an urban environment
- Y.-S. Kang, J.-J. Baik and J.-J. Kim 4964 Further studies of flow and reactive pollutant dispersion in a street canyon with bottom heating
- W. Wei, S. Wang, S. Chatani, Z. Klimont, J. Cofala and J. Hao 4976 Emission and speciation of non-methane volatile organic compounds from anthropogenic sources in China
- Q. Zhang, J. Xu, G. Wang, W. Tian and H. Jiang 4989 Vehicle emission inventories projection based on dynamic emission factors: A case study of Hangzhou, China
- M.S. Waring, J.A. Siegel and R.L. Corsi 5003 Ultrafine particle removal and generation by portable air cleaners
- H.T. Nguyen and K.-H. Kim 5015 Chromium concentration levels on the Korean peninsula between 1991 and 2006
- B. Buzcu-Guven and M.P. Fraser 5032 Comparison of VOC emissions inventory data with source apportionment results for Houston, TX
- Y. Yu, M.J. Ezell, A. Zelenyuk, D. Imre, L. Alexander, J. Ortega, B. D'Anna, C.W. Harmon, S.N. Johnson and B.J. Finlayson-Pitts 5044 Photooxidation of  $\alpha$ -pinene at high relative humidity in the presence of increasing concentrations of  $\text{NO}_x$
- K.-H. Kim and S.-Y. Park 5061 A comparative analysis of malodor samples between direct (olfactometry) and indirect (instrumental) methods
- H. Mayer, J. Holst, D. Schindler and D. Ahrens 5071 Evolution of the air pollution in SW Germany evaluated by the long-term air quality index LAQx
- L.S. Pandrangi and G.C. Morrison 5079 Ozone interactions with human hair: Ozone uptake rates and product formation
- P. Constant, L. Poissant and R. Villemur 5090 Annual hydrogen, carbon monoxide and carbon dioxide concentrations and surface to air exchanges in a rural area (Québec, Canada)
- J. Du, J. Zhang, J. Zhang and Y. Wu 5101 Deposition patterns of atmospheric  $^7\text{Be}$  and  $^{210}\text{Pb}$  in coast of East China Sea, Shanghai, China
- A.B. Gilliland, C. Hogrefe, R.W. Pinder, J.M. Godowitch, K.L. Foley and S.T. Rao 5110 Dynamic evaluation of regional air quality models: Assessing changes in  $\text{O}_3$  stemming from changes in emissions and meteorology
- R.K. Chesser and B.E. Rodgers 5124 Near-field radioactive particle dynamics and empirical fallout patterns in Chernobyl's Western and Northern Plumes
- B. Guillaume, C. Liousse, C. Galy-Lacaux, R. Rosset, E. Gardrat, H. Cachier, B. Bessagnet and N. Poisson 5140 Modeling exceptional high concentrations of carbonaceous aerosols observed at Pic du Midi in spring-summer 2003: Comparison with Sonnblick and Puy de Dôme
- Q. Zhang, Y. Wei, W. Tian and K. Yang 5150 GIS-based emission inventories of urban scale: A case study of Hangzhou, China
- Atmospheric Science Perspectives Special Series**
- J.C. Chow and J.G. Watson 5166 New Directions: Beyond compliance air quality measurements



ELSEVIER

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

 ScienceDirect

ISSN 1352-2310

42(20) 4811-5168 (2008)