



Volume 41

Issue 10

March 2007

ISSN 1352-2310

# ATMOSPHERIC ENVIRONMENT

**Air Pollution:** Emissions • Transport and dispersion • Transformation • Deposition  
Effects • Micrometeorology • Urban Atmosphere • Global Atmosphere





## CONTENTS

### Regular papers

- L. Wang, R. Atkinson and J. Arey 2025 Formation of 9,10-phenanthrenequinone by atmospheric gas-phase reactions of phenanthrene
- C. Bourotte, A.-P. Curi-Amarante, M.-C. Forti, L.A.A. Pereira, A.L. Braga and P.A. Lotufo 2036 Association between ionic composition of fine and coarse aerosol soluble fraction and peak expiratory flow of asthmatic patients in São Paulo city (Brazil)
- M.R. Jones, I.D. Leith, D. Fowler, J.A. Raven, M.A. Sutton, E. Nemitz, J.N. Cape, L.J. Sheppard, R.I. Smith and M.R. Theobald 2049 Concentration-dependent  $\text{NH}_3$  deposition processes for mixed moorland semi-natural vegetation
- X. Ding, X.-M. Wang, Z.-Q. Xie, C.-H. Xiang, B.-X. Mai, L.-G. Sun, M. Zheng, G.-Y. Sheng, J.-M. Fu and U. Pöschl 2061 Atmospheric polycyclic aromatic hydrocarbons observed over the North Pacific Ocean and the Arctic area: Spatial distribution and source identification
- D.C. Carslaw, S.D. Beevers and M.C. Bell 2073 Risks of exceeding the hourly EU limit value for nitrogen dioxide resulting from increased road transport emissions of primary nitrogen dioxide
- M. van Loon, R. Vautard, M. Schaap, R. Bergström, B. Bessagnet, J. Brandt, P.J.H. Builtjes, J.H. Christensen, C. Cuvelier, A. Graff, J.E. Jonson, M. Krol, J. Langner, P. Roberts, L. Rouil, R. Stern, L. Tarrasón, P. Thunis, E. Vignati, L. White and P. Wind 2083 Evaluation of long-term ozone simulations from seven regional air quality models and their ensemble
- J.Á. Fernández, J.R. Aboal, C. Real and A. Carballeira 2098 A new moss biomonitoring method for detecting sources of small scale pollution
- M. Steinbacher, A. Fischer, M.K. Vollmer, B. Buchmann, S. Reimann and C. Hueglin 2111 Perennial observations of molecular hydrogen ( $\text{H}_2$ ) at a suburban site in Switzerland
- R. Casati, V. Scheer, R. Vogt and T. Benter 2125 Measurement of nucleation and soot mode particle emission from a diesel passenger car in real world and laboratory in situ dilution
- R. Vecchi, G. Marazzan and G. Valli 2136 A study on nighttime–daytime  $\text{PM}_{10}$  concentration and elemental composition in relation to atmospheric dispersion in the urban area of Milan (Italy)

*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 Geostrophys Abstr.*



1352-2310(2007)41:10;1-T





- |  |      |  |
|--|------|--|
| G. Olivares, C. Johansson, J. Ström and H.-C. Hansson              | 2145 | The role of ambient temperature for particle number concentrations in a street canyon  |
| K. Kupiainen and Z. Klimont  | 2156 | Primary emissions of fine carbonaceous particles in Europe   |
| M.G. Evtugina, C. Pio, T. Nunes, P.G. Pinho and C.S. Costa         | 2171 | Photochemical ozone formation at Portugal West Coast under sea breeze conditions as assessed by master chemical mechanism model                                    |
| N.S. Holmes  | 2183 | A review of particle formation events and growth in the atmosphere in the various environments and discussion of mechanistic implications                          |
| L.T. Carbonell, E.M. Ruiz, M.S. Gácita, J.R. Oliva and N.D. Rivero | 2202 | Assessment of the impacts on health due to the emissions of Cuban power plants that use fossil fuel oils with high content of sulfur. Estimation of external costs |
| D. Yin, S. Nickovic and W.A. Sprigg                                | 2214 | The impact of using different land cover data on wind-blown desert dust modeling results in the southwestern United States   |
| W.C. Malm, M.L. Pitchford, C. McDade and L.L. Ashbaugh             | 2225 | Coarse particle speciation at selected locations in the rural continental United States  |
| J.B. Shapiro, H.J. Simpson, K.L. Griffin and W.S.F. Schuster       | 2240 | Precipitation chloride at West Point, NY: Seasonal patterns and possible contributions from non-seawater sources   |

