



ELSEVIER

Volume 43

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

### Review

P. Pedrero, C. Tardón and E. López

- 6279 Descriptive mathematical techniques to study historical data: An application to sulfur dioxide pollution in the city of Talcahuano – Chile

### Regular papers

K. Nguyen, A. Caboussat and D. Dabdub

- 6287 Mass conservative, positive definite integrator for atmospheric chemical dynamics

A.M. Stortini, A. Freda, D. Cesari, W.R.L. Cairns, D. Contini, C. Barbante, F. Prodi, P. Cescon and A. Gambaro

- 6296 An evaluation of the PM<sub>2.5</sub> trace elemental composition in the Venice Lagoon area and an analysis of the possible sources

T. Ahmed, V.A. Dutkiewicz, A. Shareef, G. Tuncel, S. Tuncel and L. Husain

- 6305 Measurement of black carbon (BC) by an optical method and a thermal-optical method: Intercomparison for four sites

R. Abida and M. Bocquet

- 6312 Targeting of observations for accidental atmospheric release monitoring

D.E. Millstein and R.A. Harley

- 6328 Revised estimates of construction activity and emissions: Effects on ozone and elemental carbon concentrations in southern California

H.-d. He, W.-Z. Lu and Y. Xue

- 6336 Prediction of PM<sub>10</sub> concentrations at urban traffic intersections using semi-empirical box modelling with instantaneous velocity and acceleration

K.F. Ho, S.S.H. Ho, S.C. Lee, Y. Cheng, J.C. Chow, J.G. Watson, P.K.K. Louie and L. Tian

- 6343 Emissions of gas- and particle-phase polycyclic aromatic hydrocarbons (PAHs) in the Shing Mun Tunnel, Hong Kong

T. Ohura, T. Amagai, X. Shen, S. Li, P. Zhang and L. Zhu

- 6352 Comparative study on indoor air quality in Japan and China: Characteristics of residential indoor and outdoor VOCs

V. Verma, Z. Ning, A.K. Cho, J.J. Schauer, M.M. Shafer and C. Sioutas

- 6360 Redox activity of urban quasi-ultrafine particles from primary and secondary sources

J.W. Krzyścin and B. Rajewska-Więch

- 6369 Ozone recovery as seen in perspective of the Dobson spectrophotometer measurements at Belsk (52°N, 21°E) in the period 1963–2008

K. Slezakova, D. Castro, M.C. Pereira, S. Morais, C. Delerue-Matos and M.C. Alvim-Ferraz

- 6376 Influence of tobacco smoke on carcinogenic PAH composition in indoor PM<sub>10</sub> and PM<sub>2.5</sub>

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®.



1352-2310(200912)43:40;1-7

Printed by Polestar Wheatons Ltd., Exeter, UK



ISSN 1352-2310

43(40) 6279–6454 (2009)