

# ENVIRONMENTAL POLLUTION

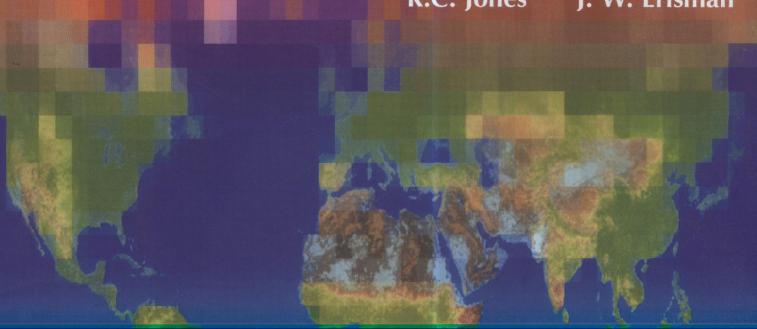
EDITOR-IN-CHIEF

W.J. Manning

**ASSOCIATE EDITORS** 

K.E. Havens S.V. Krupa

K.C. Jones J. W. Erisman



## ENVIRONMENTAL POLLUTION

**CONTENTS**—Continued from outside back cover

95 Contamination by arsenic and other trace elements in tube-well water and its risk assessment to humans in Hanoi, Vietnam T. Agusa, T. Kunito, J. Fujihara, R. Kubota, T.B. Minh, P.T. Kim Trang, H. Iwata, A. Subramanian, P.H. Viet, S. Tanabe

High concentrations of arsenic, manganese and barium were found in tube-well water and human hair in suburban areas of Hanoi, Vietnam.

107 Specific accumulation of organochlorines in human breast milk from Indonesia: Levels, distribution, accumulation kinetics and infant health risk

A. Sudaryanto, T. Kunisue, N. Kajiwara, H. Iwata, T.A. Adibroto, P. Hartono, S. Tanabe

Specific residents were exposed to high levels of DDTs in Indonesia.

118 Effects of teflubenzuron on sediment processing by members of the Capitella species-complex N. Méndez

Capitella sp I reduces its feeding activity at concentrations from 8.4 to 41.8 µg/g dry wt. sediment of the insecticide teflubenzuron.

125 Scale and causes of lead contamination in Chinese tea

W.-Y. Han, F.-J. Zhao, Y.-Z. Shi, L.-F. Ma, J.-Y. Ruan

32% of Chinese tea samples exceeded the national maximum permissible concentration for Pb.

133 Development of an SPME-GC-MS/MS method for the determination of pesticides in rainwater: Laboratory and field experiments

N. Sauret-Szczepanski, P. Mirabel, H. Wortham

Solid-phase microextraction efficiency of pesticides in rainwater was optimized.

143 Water quality dynamics and hydrology in nitrate loaded riparian zones in the Netherlands

M. Hefting, B. Beltman, D. Karssenberg, K. Rebel, M. van Riessen, M. Spijker

Riparian zones reduced nitrate from agricultural lands.

157 Treatment of log yard run-off by irrigation of grass and willows

M. Jonsson, I. Dimitriou, P. Aronsson, T. Elowson

By irrigating willow and couchgrass soil-plant systems with log yard run-off water, TOC, phenols, and phosphorus were reduced with 35% to 96% in the water.

167 Effect of soil characteristics on Cd uptake by the hyperaccumulator Thlaspi caerulescens

J. Yanai, F.-J. Zhao, S.P. McGrath, T. Kosaki

Higher total/extractable Cd in soil, lower pH and coarser texture were associated with higher Cd concentration by Thlaspi caerulescens.

176 Use of dolomite phosphate rock (DPR) fertilizers to reduce phosphorus leaching from sandy soil

G.C. Chen, Z.L. He, P.J. Stoffella, X.E. Yang, S. Yu, D. Calvert

Fertilizers developed from dolomite phosphate rock (DPR) reduce phosphorus leaching from sandy soil

Modeling the dynamic changes in concentrations of γ-hexachlorocyclohexane (γ-HCH) in Tianjin region from 1953 to 2020 S. Tao, Y. Yang, H.Y. Cao, W.X. Liu, R.M. Coveney, F.L. Xu, J. Cao, B.G. Li, X.J. Wang, J.Y. Hu, J.Y. Fang

Levels of lindane in various media of Tianjin area decreased significantly during the last decade and will drop more than one order of magnitude in the next 20 years.

## ENVIRONMENTAL POLLUTION

www.elsevier.com/locate/envpol

#### CONTENTS

### Volume 139 Number 1 2006

1 Interactions of mycorrhizal fungi with *Pteris vittata* (As hyperaccumulator) in As-contaminated soils H.M. Leung, Z.H. Ye, M.H. Wong

Indigenous mycorrhizal fungi play an important role in As tolerance.

9 Polycyclic aromatic hydrocarbons in suspended particulate matter and sediments from the Pearl River Estuary and adjacent coastal areas, China X.-J. Luo, S.-J. Chen, B.-X. Mai, Q.-S. Yang, G.-Y. Sheng, J.-M. Fu

PAH were determined in suspended particulate matter and sediments from Pearl River Estuary.

21 Modelling the extra and intracellular uptake and discharge of heavy metals in Fontinalis antipyretica transplanted along a heavy metal and pH contamination gradient J.A. Fernández, M.D. Vázquez, J. López, A. Carballeira

The kinetics of uptake and discharge of heavy metals, in different cellular locations, were studied in transplanted aquatic mosses.

32 Bioconcentration of atrazine and chlorophenols into roots and shoots of rice seedlings Y.-H. Su, Y.-G. Zhu

Uptakes of o-chlorophenol, 2,4-dichlorophenol, and atrazine at various levels from nutrient solution by roots and shoots of rice seedlings were investigated using a partition-limited model.

40 Soil amendments reduce trace element solubility in a contaminated soil and allow regrowth of natural vegetation E. Madejón, A.P. de Mora, E. Felipe, P. Burgos, F. Cabrera

Soil amendments affect soil chemistry and allow revegetation of soils contaminated by trace elements.

53 Evidence for potential impacts of ozone on *Pinus cembra* L. at mountain sites in Europe: An overview G. Wieser, W.J. Manning, M. Tausz, A. Bytnerowicz

An overview of ozone effects on Pinus cembra an important European coniferous tree species in the timberline ecotone.

59 Perchlorate in fish from a contaminated site in east-central Texas
C. Theodorakis, J. Rinchard, T. Anderson, F. Liu, J.-W. Park, F. Costa, L. McDaniel, R. Kendall, A. Waters

In perchlorate-contaminated lakes and streams, perchlorate is detected infrequently in fish heads, fillets, and whole bodies, but may be detected more often depending on species and seasonal trends, and always at concentrations higher in the fish than in the water.

70 A comparative assessment of heavy metal accumulation in soft parts and byssus of mussels from subarctic, temperate, subtropical and tropical marine environments
P. Szefer, S.W. Fowler, K. Ikuta, F.P. Osuna, A.A. Ali, B.-S. Kim, H.M. Fernandes, M.-J. Belzunce, B. Guterstam, H. Kunzendorf, M. Wołowicz, H. Hummel, M. Deslous-Paoli

Byssus of mytilids, like soft tissues can be used as efficient biomonitor for heavy metals in the marine environment.

79 Tetrodotoxin prevents copper-induced bradycardia in gastropod limpets G. Bini, A.M. Pugliese, G. Pepeu, G. Chelazzi

In limpets, copper-induced bradycardia involves the activation of an extrinsic neuronal pathway.

86 Release of trace metals, sulfate and complexed cyanide from soils contaminated with gas-purifier wastes: A microcosm study

T. Rennert, T. Mansfeldt

The potential release of trace metals, sulfate and cyanide from soils contaminated with gas-purifier wastes is a function of pH and the redox.