



Cover

See Shu *et al.*, pp. 1876–1883.
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Monit.*, 2011, **13**, 1876.

NEWS

1859

1859

JEM News

Mike Sharpe provides a summary of the latest environmental news, literature and legislation.

CRITICAL REVIEW

1866

Toxicity tests aiming to protect Brazilian aquatic systems: current status and implications for management

Samantha Eslava Martins and Adalberto Bianchini*

Distribution of toxicity tests with Brazilian native species according to the animal group used, contaminant tested (left panel), and region where the test was performed (right panel).

1876

Effectiveness of amendments on re-acidification and heavy metal immobilization in an extremely acidic mine soil

S. X. Yang, J. T. Li, B. Yang, B. Liao, J. T. Zhang and W. S. Shu*

The combination of lime and river sediment is effective in controlling the acidification and re-acidification in extremely acid mine soils.

1884

The contribution of roadside soil to phosphorus loading in the eutrophic Lagos Lagoon, Nigeria

Akeem Abayomi, Malcolm Nimmo, Claire Williams, Kehinde O. Olayinka, Bola Osuntogun, Babajide Alo and Paul J. Worsfold

Roadside soils are a major source of phosphorus loading in the hypereutrophic Lagos Lagoon, Nigeria during wet and dry seasons.

1890

Bioassay for assessing cell stress in the vicinity of radio-frequency irradiating antennas

Edna Ben-Izhak Monselise,* Aliza Levkovitz, Hugo E. Gottlieb and Daniel Kost*

Etiolated duckweed plants as bioassay for the quick detection of biological stress caused in the vicinity of RF irradiating antennas.

1897

Soil carbon storage as influenced by tree cover in the Dehesa cork oak silvopasture of central-western Spain

David Scott Howlett,* Gerardo Moreno, Maria Rosa Mosquera Losada, P. K. Ramachandran Nair and Vimala D. Nair

Long term soil carbon storage underlying cork oak silvopastures of Spain is another benefit of this productive, extant system.

1905

Estimation of the contributions of long range transported aerosol in East Asia to carbonaceous aerosol and PM concentrations in Seoul, Korea using highly time resolved measurements: a PSCF model approach

Ukkyo Jeong, Jhoon Kim,* Hanlim Lee, Jinsang Jung, Young J. Kim, Chul H. Song and Ja-Ho Koo

The contributions of long range transported aerosol in East Asia to carbonaceous aerosol and particulate matter (PM) concentrations in Seoul, Korea were estimated with potential source contribution function (PSCF) calculations.

1919

Characterization of ambient black carbon and wood burning particles in two urban areas

Yungang Wang, Philip K. Hopke,* Oliver V. Rattigan and Yifang Zhu

Two-wavelength aethalometer data can provide qualitative evidence of ambient wood combustion particles.

1927

Characteristics of particulate matter pollution in the Pearl River Delta region, China: an observational-based analysis of two monitoring sites

Guliang Peng, Xuemei Wang,* Zhiyong Wu, Zhiming Wang, Liulin Yang, Liuju Zhong and Duohong Chen

Two-year monitoring data, collected at a sub-urban site and a background site, were used to study the characteristics of particulate matter pollution in the Pearl River Delta region, China.

1935

Mobilization and plant accumulation of prometryne in soil by two different sources of organic matter

Lei Jiang, Li Ma, Ying Sui, Su Qing Han and Hong Yang*

In this study, we demonstrate the effect of pig manure compost (PMC) and lake-bed sludge (SL) on the sorption/desorption, mobility and bioavailability of prometryne in soil using comprehensive analysis approaches.

1944

Aerosol size distribution and mass concentration measurements in various cities of Pakistan

Khan Alam,* Thomas Blaschke, Pierre Madl, Azam Mukhtar, Majid Hussain, Thomas Trautmann and Said Rahman

Measurement of aerosol size distribution, particulate matter concentrations and analysis of elemental composition of aerosols at high polluted sites in various cities of Pakistan using Grimm 1.109 instrument.

1953

Occurrence of selected antibiotics in Jiulongjiang River in various seasons, South China

Dandan Zhang, Lifeng Lin, Zhuanxi Luo, Changzhou Yan and Xian Zhang*

The study investigated the occurrence of nine kinds of antibiotics over different seasons in Jiulongjiang River, South China.

1961

Influence of a collapsed coastal landfill on metal levels in sediments and biota—a portent for the future?

N. D. Pope,* S. C. M. O'Hara, M. Imamura, T. H. Hutchinson and W. J. Langston

Eroding coastal landfill sites: An example of the potential effects of climate change on remobilisation and impact of historic contaminants.

1975

Comparative toxicity of nano-ZnO and bulk ZnO suspensions to zebrafish and the effects of sedimentation, 'OH production and particle dissolution in distilled water

Lin-peng Yu, Tao Fang,* Dao-wen Xiong, Wen-tao Zhu and Xiao-feng Sima

Elevated by Zn²⁺ and 'OH generated, while reduced by aggregation and sedimentation, the nano-ZnO toxicity to aquatic biota may not be higher than its bulk counterparts.

Limitations of the CLEA model when assessing human health risks from dioxins and furans in soil at an allotments site in Rochdale, NW England

David Megson,* Sarah Dack and Michael Moore

This paper presents the bioconcentration of PCDD/F in eggs and highlights the importance of considering pollutant linkages outside the CLEA model.

Assessment of regional metal levels in ambient air by statistical regression models

A. Arruti,* I. Fernández-Olmo and A. Irabien

Objective estimation techniques based on MLR models are developed for the assessment of regulated metal levels in PM10. These models could be used by Regional Governments as an alternative to the experimental measurement.

Organophosphate and phthalate esters in indoor air: a comparison between multi-storey buildings with high and low prevalence of sick building symptoms

Caroline Bergh, K. Magnus Åberg, Magnus Svartengren, Gunnel Emenius and Conny Östman*

An extensive investigation of airborne organophosphate and phthalate esters in the home environment combined with comprehensive statistical evaluation.

Tracking sewage derived contamination in riverine settings by analysis of synthetic surfactants

Carmen Corada-Fernández, Pablo A. Lara-Martín,* Lucila Candela and Eduardo González-Mazo

A study of the presence and reactivity of commonly used surfactants, both anionic and non-ionic, in water and surface sediments of the Guadalete River in Spain.

2018

Fungal DNA and pet allergen levels in Swedish day care centers and associations with building characteristics

Gui-Hong Cai,* Björn Mälarstig, Anders Kumlin, Ingrid Johansson, Christer Janson and Dan Norbäck

Investigating the relationship between selected aspects of quality of pre-school day care building and potential exposure to fungi and animal allergens.

2025

Community exposure to arsenic in the Mekong river delta, Southern Vietnam

Hoang Thi Hanh, Kyoung-Woong Kim,* Sunbaek Bang* and Nguyen My Hoa

We examined the daily inorganic arsenic (i-As) intake from drinking water and rice in 45 households (75 individuals) in the An Giang province, Southern Vietnam.

2033

Polycyclic aromatic hydrocarbons and trace metal contamination of coastal sediment and biota from Togo

Kissao Gnandi,* Benjamin A. Musa Bandowe, Dimitri D. Deheyn, Magali Porrachia, Michael Kersten and Wolfgang Wilcke

Coastal sediments of Togo show moderate PAH concentrations and partly high trace metal concentrations bioconcentrated in fish and mussels.

2042

Monitoring of pharmaceutically active compounds on the Guadalquivir River basin (Spain): occurrence and risk assessment

J. Martín, D. Camacho-Muñoz, J. L. Santos,* I. Aparicio and E. Alonso

Influence of wastewater effluents in the occurrence and risk assessment of pharmaceutical compounds in Guadalquivir river affected by Seville city.

Water and sediment quality of dry season pools in a dryland river system: the upper Leichhardt River, Queensland, Australia

Alana K. Mackay,* Mark P. Taylor
and Karen A. Hudson-Edwards

This study presents the physicochemical properties of water and geochemical and mineralogical characteristics of sediment from semi-permanent pools in the upper Leichhardt River, north-west Queensland.

TECHNICAL NOTE

Simplifying and improving the extraction of nitrate from freshwater for stable isotope analyses

Eddy Minet,* Robbie Goodhue, Catherine E. Coxon,
Robert M. Kalin and Wolfram Meier-Augenstein

$^{15}\text{N}/^{14}\text{N}$ and $^{18}\text{O}/^{16}\text{O}$ analyses in freshwater nitrate.