

Environmental Monitoring and Assessment

Volume 185 · Number 8 · August 2013

Using species spectra to evaluate plant community conservation value along a gradient of anthropogenic disturbance

J.A.P. Marcelino · L. Silva · P.V. Garcia · E. Weber · A.O. Soares 6221

Towards effective culvert design: monitoring seasonal use and behavior by Mediterranean mesocarnivores

A.M. Serronha · A.R.A. Mateus · F. Eaton · M. Santos-Reis · C. Grilo 6235

Towards generalised reference condition models for environmental assessment: a case study on rivers in Atlantic Canada

D.G. Armanini · W.A. Monk · L. Carter · D. Cote · D.J. Baird 6247

Mapping trees outside forests using high-resolution aerial imagery: a comparison of pixel- and object-based classification approaches

D.M. Meneguzzo · G.C. Liknes · M.D. Nelson 6261

Effect of development on water quality for seven streams in North Carolina

D.E. Linc 6277

Priority PAHs in orthodox black tea during manufacturing process

I.S. Grover · S. Singh · B. Pal 6291

Probabilistic risk assessment of insecticide concentrations in agricultural surface waters: a critical appraisal

S. Stehle · A. Knäbel · R. Schulz 6295

Concentration of trace metals in sediments and soils from protected lands in south Florida: background levels and risk evaluation

J.E. Castro · A.M. Fernandez · V. Gonzalez-Caccia · P.R. Gardinali 6311

Distribution of mercury and other trace metals in the sediments of Cochin estuary (a Ramsar site), Kerala, India

S. Dipu · A.A. Kumar 6333

A comprehensive physico-chemical, mineralogical and morphological characterization of Indian mineral wastes

V.V. Gedam · R. Jha · P. Labhasetwar · C.J. Engelsen 6343

Comprehensive monitoring of drinking well water quality in Seoul metropolitan city, Korea

K.-H. Kim · J.P. Susaya · C.G. Park · J.-H. Uhm · J. Hur 6353

Spatial and temporal variability in the relationship between cyanobacterial biomass and microcystins

S.C. Sinang · E.S. Reichwaldt · A. Ghadouani 6379

Quality assessment of various bottled waters marketed in Saudi Arabia

A.M. Al-Omran · S.E. El-Maghraby · A.A. Aly · M.I. Al-Wabel · Z.A. Al-Asmari · M.E. Nadcem 6397

Analysis of mercury, selenium, and tin concentrations in canned fish marketed in Iran

S.V. Hosseini · F. Aflaki · S. Sobhanardakani · L. Tayebi · A.B. Lashkan · J.M. Regenstein 6407

Monitoring of pesticide residues in South Indian tea

M. Kottiappan · K. Dhanakodi · S. Annamalai · S.V. Anandhan 6413

Integrating biophysical and socioeconomic information for prioritizing watersheds in a Kashmir Himalayan lake: a remote sensing and GIS approach

B. Badar · S.A. Romshoo · M.A. Khan 6419

Determination of gaseous polycyclic aromatic hydrocarbons by a simple direct method using thermal desorption–gas chromatography–mass spectrometry

G.V. Martins · S. Martins · A.O. Martins · M.C.P. Basto · G.V. Silva 6447

Polycyclic aromatic hydrocarbons in some grounded coffee brands

I.S. Grover · R. Sharma · S. Singh · B. Pal 6459

Identification of source regions of PM₁₀ with backward trajectory-based statistical models during PM₁₀ episodes

T.-Y. Yu 6465

Impacts of two best management practices on Pb weathering and leachability in shooting range soils

R. Liu · J. Gress · J. Gao · L.Q. Ma 6477

Mercury in small Illinois fishes: historical perspectives and current issues

J.M. Levensgood · D.J. Soucek · C.A. Taylor · D.A. Gay 6485

The potential of different bio adsorbents for removing phenol from its aqueous solution

M.A.M. Abdallah 6495

Dual character of Sundarban estuary as a source and sink of CO₂ during summer: an investigation of spatial dynamics

A. Akhand · A. Chanda · S. Dutta · S. Manna · P. Sanyal · S. Hazra · K.H. Rao · V.K. Dadhwal 6505

Synergistic action of tropospheric ozone and carbon dioxide on yield and nutritional quality of Indian mustard (*Brassica juncea* (L.) Czern.)

S. Singh · A. Bhatia · R. Tomer · V. Kumar · B. Singh · S.D. Singh 6517

- Rapid spectrophotometric determination of trace amounts of palladium in water samples after dispersive liquid–liquid microextraction**
R. Rahnama Kozani · J. Mofid-Nakhaei · M.R. Jamali 6531
- Anthropogenic plutonium in the North Jiangsu tidal flats of the Yellow Sea in China**
Z. Liu · J. Zheng · S. Pan · J. Gao 6539
- Assessment of oxidative stress markers and concentrations of selected elements in the leaves of *Cassia occidentalis* growing wild on a coal fly ash basin**
A. Love · B.D. Banerjee · C.R. Babu 6553
- Speciation of selected heavy metals geochemistry in surface sediments from Tirumalairajan river estuary, east coast of India**
S. Venkatramanan · T. Ramkumar · I. Anithamary · M.P. Jonathan 6563
- Seasonal and spatio-temporal distribution of faecal-indicator bacteria in Tyume River in the Eastern Cape Province, South Africa**
T. Sibanda · V.N. Chigor · A.I. Okoh 6579
- Maximum ecological potential of tropical reservoirs and benthic invertebrate communities**
J. Molozzi · M.J. Feio · F. Salas · J.C. Marques · M. Callisto 6591
- Vulnerability of the Nile Delta coastal areas to inundation by sea level rise**
M.A. Hassaan · M.A. Abdrabo 6607
- Measuring forest structure along productivity gradients in the Canadian boreal with small-footprint Lidar**
D.K. Bolton · N.C. Coops · M.A. Wulder 6617
- Agro-potentiality of distillery effluent on soil and agronomical characteristics of *Abelmoschus esculentus* L. (okra)**
A.K. Chopra · S. Srivastava · V. Kumar · C. Pathak 6635
- Urban stormwater harvesting and reuse: a probe into the chemical, toxicology and microbiological contaminants in water quality**
M.N. Chong · J. Sidhu · R. Aryal · J. Tang · W. Gemjak · B. Escher · S. Toze 6645
- Management of domoic acid monitoring in shellfish from the Catalan coast**
G. Giménez Papiol · A. Casanova · M. Fernández-Tejedor · P. de la Iglesia · J. Diogène 6653
- Selected organochlorine pesticides (OCPs) in surface soils from three major states from the northeastern part of India**
N.L. Devi · P. Chakraborty · Q. Shihua · G. Zhang 6667
- Geochemical assessment of metal concentrations in sediment core of Korangi Creek along Karachi Coast, Pakistan**
M.Z. Chaudhary · N. Ahmad · A. Mashiattullah · N. Ahmad · A. Ghaffar 6677
- Assessment of heavy metals (Cd and Pb) and micronutrients (Cu, Mn, and Zn) of paddy (*Oryza sativa* L.) field surface soil and water in a predominantly paddy-cultivated area at Puducherry (Pondicherry, India), and effects of the agricultural runoff on the elemental concentrations of a receiving rivulet**
M.V. Reddy · D. Satpathy · K.S. Dhiviya 6693
- Bioaccumulation of nutrient elements from fly ash-amended soil in *Jatropha curcas* L.: a biofuel crop**
D.R. Chaudhary · A. Ghosh 6705
- Biosorption properties of Cd(II), Pb(II), and Cu(II) of extracellular polymeric substances (EPS) extracted from *Aspergillus fumigatus* and determined by polarographic method**
Y. Yin · Y. Hu · F. Xiong 6713
- Application of sequential leaching, risk indices and multivariate statistics to evaluate heavy metal contamination of estuarine sediments: Dhamara Estuary, East Coast of India**
S.C. Asa · P. Rath · U.C. Panda · P.K. Parhi · S. Bramha 6719
- Assessment of heavy metal levels in sediment samples of Kapulukaya Dam Lake (Kirikkale) and lower catchment area**
G.B. Kankılıç · İ. Tüzün · Y.K. Kadioğlu 6739
- Total and available heavy metal concentrations in soils of the Thriassio plain (Greece) and assessment of soil pollution indexes**
I. Massas · D. Kalivas · C. Ehaliotis · D. Gasparatos 6751
- Assessment of the labile fractions of copper and zinc in marinas and port areas in Southern Brazil**
L.D.F. Costa · M. Wallner-Kersanach 6767
- Heavy metal content in oysters (*Crassostrea gigas*) cultured in the Ebro Delta in Catalonia, Spain**
V. Ochoa · C. Barata · M.C. Riva 6783
- Comprehensive analysis of an ecological risk assessment of the Daliao River estuary, China**
G. Yu · J. Chen · X. Zhang · Z. Li 6793
- Chromium (VI) biosorption properties of multiple resistant bacteria isolated from industrial sewerage**
G.O. Oyetibo · M.O. Ilori · O.S. Obayori · O.O. Amund 6809
- Emission characteristics of VOCs from three fixed-roof *p*-xylene liquid storage tanks**
C. Lu · H. Huang · S. Chang · S. Hsu 6819

Seasonal variations of water column nutrients in the inner area of Ariake Bay, Japan: the role of muddy sediments
M. Koriyama · Y. Hayami · A. Koga · K. Yamamoto ·
A. Isnasetyo · T. Hamada · K. Yoshino · T. Katano ·
S. Yamaguchi 6831

Assessment of trace metals in four bird species from Korea
J. Kim · J.-M. Oh 6847

Assessing soil and groundwater contamination in a metropolitan redevelopment project
J. Yun · J.Y. Lee · J. Khim · W.H. Ji 6855

Application of zirconium–iridium permanent modifier for the simultaneous determination of lead, cadmium, arsenic, and nickel in atmospheric particulate matter by multi-element electrothermal atomic absorption spectrometry
I.N. Pasiyas · N.S. Thomaidis · E.B. Bakeas · E.A. Piperaki 6867

Monitoring of growth and physiological activities of biofilm during succession on polystyrene from activated sludge under aerobic and anaerobic conditions
I. Naz · S.A. Batool · N. Ali · N. Khatoon · N. Atiq ·
A. Hamced · S. Ahmed 6881

Spatial and seasonal variations of pesticide contamination in agricultural soils and crops sample from an intensive horticulture area of Hohhot, North-West China
F. Zhang · J. He · Y. Yao · D. Hou · C. Jiang · X. Zhang ·
C. Di · K. Otgonbayar 6893

Excitation–emission matrices applied to the study of urban effluent discharges in the Chubut River (Patagonia, Argentina)
J.P. Chiarandini Fiore · M.d.C. Scapini · A.C. Olivieri 6909

Assessment of *Robinia pseudoacacia* cultivations as a restoration strategy for reclaimed mine spoil heaps
K. Vlachodimos · E.M. Papatheodorou · J. Diamantopoulos ·
N. Monokrousos 6921

Human health damage caused by particulate matter PM₁₀ and ozone in urban environments: the case of Athens, Greece
P.A. Kassomenos · K. Dimitriou · A.K. Paschalidou 6933

GIS-based pollution hazard mapping and assessment framework of shallow lakes: southeastern Pampean lakes (Argentina) as a case study
A. Romanelli · K.S. Esquiús · H.E. Massone ·
A.H. Escalante 6943

Sampling design for long-term regional trends in marine rocky intertidal communities
G.V. Irvine · A. Shelly 6963

Dissolved methane in Indian freshwater reservoirs
G. Narvenkar · S.W.A. Naqvi · S. Kurian · D.M. Shenoy ·
A.K. Pratihary · H. Naik · S. Patil · A. Sarkar · M. Gauns 6989

A study of assessment indicators for environmental sustainable development of science parks in Taiwan
H.-S. Chen · L.-H. Chien · T. Hsieh 7001

Changes in the trade in native medicinal plants in Brazilian public markets
M.d.G.L. Brandão · G.P. Cosenza · F.L. Pereira ·
A.S. Vasconcelos · C.W. Fagg 7013

Dispersion and bioaccumulation of elements from an open-pit olivine mine in Southwest Greenland assessed using lichens, seaweeds, mussels and fish
J. Søndergaard 7025

A new nanosilver-based spectrophotometric method for monitoring Eriochrome black T in river water
R. Sahraci · A. Farmany · S.S. Mortazavi ·
M. Rostaminy 7037

The effects of low frequency noise on mental performance and annoyance
I. Alimohammadi · S. Sandrock · M.R. Gohari 7043

Dielectric properties of MSWI bottom ash for non-invasive monitoring of moisture
A. Ilyas · M. Persson · M. van Praagh 7053

Hydrochemical and geoelectrical investigation of the coastal shallow aquifers in El-Omayed area, Egypt
M.G. Atwia · A.A. Masoud 7065