

# Environmental Monitoring and Assessment

Volume 185 · Number 3 · March 2013

- Modeling of lead and cadmium uptake by plants in the presence of surfactants**  
R. Memarian · A.S. Ramamurthy 2067
- Distribution and potential sources of polycyclic aromatic hydrocarbons in soils around coal-fired power plants in South Africa**  
O.O. Okedeyi · M.M. Nindi · S. Dube · O.R. Awofolu 2073
- Impact of industrial waste effluents on river Damodar adjacent to Durgapur industrial complex, West Bengal, India**  
U.S. Banerjee · S. Gupta 2083
- Assessing implications of land use and land cover changes in forest ecosystems of NE Turkey**  
A.İ. Kadioğulları 2095
- Persistence of insecticides in ready-mix formulations and their efficacy against *Lipaphis erysimi* (Kalt) in cauliflower**  
S. Gupta · R.K. Sharma · V.T. Gajbhiye · R.K. Gupta 2107
- A very sensitive flow-injection spectrophotometric determination method for iron (II) and total iron using 2', 3, 4', 5, 7-pentahydroxyflavone**  
A. Asan · R. Aydin · D.K. Semiz · V. Erci · I. Isildak 2115
- Estimating reference nutrient criteria for Maryland ecoregions**  
R.P. Morgan II · K.M. Kline · J.B. Churchill 2123
- Impacts of restoration of an uncontrolled phosphogypsum dumpsite on the seasonal distribution of abiotic variables, phytoplankton, copepods, and ciliates in a man-made solar saltern**  
R. Kobbi-Rebai · N. Annabi-Trabelsi · H. Khemakhem · H. Ayadi · L. Aleya 2139
- Assessment of cylindrospermopsin toxin in an arid Saudi lake containing dense cyanobacterial bloom**  
Z.A. Mohamed · A.M. Al-Shehri 2157
- Multivariate analysis of potentially toxic metals in sediments of a tropical coastal lagoon**  
A.O. Oyeyiola · C.M. Davidson · K.O. Olayinka · T.O. Oluseyi · B.I. Alo 2167
- Toxicity assessment of textile effluents treated by advanced oxidative process (UV/TiO<sub>2</sub> and UV/TiO<sub>2</sub>/H<sub>2</sub>O<sub>2</sub>) in the species *Artemia salina* L.**  
J.C. Garcia · T.K.F. de Souza Freitas · S.M. Palácio · E. Ambrósio · M.T.F. Souza · L.B. Santos · V. de Cinque Almeida · N.E. de Souza 2179
- Histopathology alterations and lipid peroxidation as biomarkers of hydrocarbon-induced stress in earthworm, *Eudrilus eugeniae***  
F.J. Esegibe · V.F. Doherty · T.O. Sogbanmu · A.A. Otitoloju 2189
- A data-mining approach to predict influent quality**  
A. Kusiak · A. Verma · X. Wei 2197
- The residues and environmental risks of multiple veterinary antibiotics in animal faeces**  
Y.-x. Li · X.-l. Zhang · W. Li · X.-f. Lu · B. Liu · J. Wang 2211
- Heavy metal contamination and metallothionein mRNA in blood and feathers of Black-tailed gulls (*Larus crassirostris*) from South Korea**  
M. Kim · K. Park · J.Y. Park · I.-S. Kwak 2221
- Composition, sources, and potential toxicology of polycyclic aromatic hydrocarbons (PAHs) in agricultural soils in Liaoning, People's Republic of China**  
X.F. Cao · M. Liu · Y.F. Song · M.L. Ackland 2231
- An improved algorithm for retrieving chlorophyll-a from the Yellow River Estuary using MODIS imagery**  
J. Chen · W. Quan 2243
- Reducing health risk assigned to organic emissions from a chemical weapons incinerator**  
D.M. Laman · B.D. Weiler · R.S. Skeen 2257
- Environmental assessment of trace element bioaccumulation in sipunculan from seagrass and wetland sediments**  
I.-T. Hsieh · H.-K. Mok · F.-C. Ko · S. Açık 2269
- Benthic macrofaunal assemblages of the San Francisco Estuary and Delta, USA**  
B. Thompson · J.A. Ranasinghe · S. Lowe · A. Melwani · S.B. Weisberg 2281
- Simultaneous spectrophotometric determination of trace amount of polycyclic aromatic hydrocarbons in water samples after magnetic solid-phase extraction by using projection pursuit regression**  
J.B. Ghasemi · E. Zolfonoun 2297
- Shift in apparent contrast of disc at Secchi disc depth in coastal sea areas**  
H. Arakawa · M. Inada · S. Choi · M. Narita 2307
- The effect of mixtures of organophosphate and carbamate pesticides on acetylcholinesterase and application of chemometrics to identify pesticides in mixtures**  
K. Mwila · M.H. Burton · J.S. Van Dyk · B.I. Pletschke 2315
- Assessment of the impact of the meteorological meso-scale circulation on air quality in arid subtropical region**  
Y. Charabi · A. Al-Bulooshi · S. Al-Yahyai 2329
- Urinary fluoride as a monitoring tool for assessing successful intervention in the provision of safe drinking water supply in five fluoride-affected villages in Dhar district, Madhya Pradesh, India**  
R. Srikanth · A. Gautam · S.C. Jaiswal · P. Singh 2343

- Are the *Salinelle* mud volcanoes threatening human health or are anthropogenic activities threatening the *Salinelle* mud volcanoes? A comment on “Trace element biomonitoring using mosses in urban areas affected by mud volcanoes around Mt. Etna. The case of the *Salinelle*, Italy” by Bonanno et al. (DOI 10.1007/s10661-011-2332-z)**  
W. D’Alessandro · S. Bellomo · L. Brusca · S. Calabrese 2351
- Hydrometeorological variables predict fecal indicator bacteria densities in freshwater: data-driven methods for variable selection**  
R.M. Jones · L. Liu · S. Dorevitch 2355
- Monitoring of aminophenol isomers in surface water samples using a new HPLC method**  
I.A. Badea · L. Axinte · L. Vladescu 2367
- Identification of heavy metal origins related to chemical and morphological soil properties using several non-destructive X-ray analytical methods**  
S. Akbulut · R. Grieken · M.A. Kılıç · U. Cevik · G.G. Rotondo 2377
- Evaluation of surface water quality in aquatic bodies under the influence of uranium mining (MG, Brazil)**  
S. Rodgher · H. de Azevedo · C.R. Ferrari · C.V. Roque · L.B. Ronqui · M.B. de Campos · M.R.L. Nascimento 2395
- Hydrostratigraphy and hydrogeology of the western part of Maira area, Khyber Pakhtunkhwa, Pakistan: a case study by using electrical resistivity**  
A. Farid · K. Jadoon · G. Akhter · M.A. Iqbal 2407
- Inputs of heavy metals due to agrochemical use in tobacco fields in Brazil’s Southern Region**  
H.J.O. Zoffoli · N.M.B. do Amaral-Sobrinho · E. Zonta · M.V. Luisi · G. Marcon · A. Tolón-Becerra 2423
- Application of multivariate statistical techniques in the assessment of groundwater quality in seawater intrusion area in Bafra Plain, Turkey**  
H. Arslan 2439
- Sensitivity analysis of TOPSIS method in water quality assessment: I. Sensitivity to the parameter weights**  
P. Li · H. Qian · J. Wu · J. Chen 2453
- Sensitivity analysis of TOPSIS method in water quality assessment II: sensitivity to the index input data**  
P. Li · J. Wu · H. Qian · J. Chen 2463
- Investigation of organic pollutants in wastewater-irrigated soil and its DNA damage and oxidative damage on mice**  
H. Gao · Y. Dong · C. Meng · W. Guan · Y. Liu · G. Xing 2475
- Optimal water and waste-load allocations in rivers using a fuzzy transformation technique: a case study**  
M.R. Nikoo · R. Kerachian · A. Karimi · A.A. Azadnia 2483
- Assessment of physicochemical parameters of wastewater samples**  
S. Iram · S. Kanwal · I. Ahmad · T. Tabassam · V. Suthar · M. Mahmood-ul-Hassan 2503
- Spatial and temporal trends in water quality in a Mediterranean temporary river impacted by sewage effluents**  
A. David · M.-G. Tournoud · J.-L. Perrin · D. Rosain · C. Rodier · C. Salles · C. Bancon-Montigny · B. Picot 2517
- Phosphorous speciation in surface sediments of the Cochin estuary**  
T.R. Gireeshkumar · P.M. Deepulal · N. Chandramohanakumar 2535
- Assessment of heavy metals and their interrelationships with some physicochemical parameters in eco-efficient rivers of Himalayan region**  
A. Kansal · N.A. Siddiqui · A. Gautam 2553
- Evaluation of concentration efficiency of the *Pseudomonas aeruginosa* phage PP7 in various water matrixes by different methods**  
H.R. Poma · V.B. Rajal · M.D. Blanco Fernández · P.A. Barril · M.O. Giordano · G. Masachessi · L.C. Martínez · M.B. Isa · M.C. Freire · G. López Riviello · D. Cisterna · S.V. Nates · V.A. Mbayed 2565
- Heavy metal contents of organically produced, harvested, and dried fruit samples from Kayseri, Turkey**  
M. Soylak · Z. Cihan · E. Yilmaz 2577
- Toxicological effects of major environmental pollutants: an overview**  
S. Wasi · S. Tabrez · M. Ahmad 2585
- A new catalytic-spectrophotometric method for quantification of trace amounts of nitrite in fruit juice samples**  
S. Sobhanardakani · A. Farmany · S. Abbasi · J. Cheraghi · R. Hushmandfar 2595
- Multielement analysis in the fish hepatic cytosol as a screening tool in the monitoring of natural waters**  
Z. Dragun · Ž. Fiket · M. Vuković · B. Raspor 2603
- Applying parcel-specific land-use data for improved monitoring of semi-natural grassland in Denmark**  
G. Levin 2615
- Seasonal dynamics of phytoplankton and its relationship with the environmental factors in Dongping Lake, China**  
C. Tian · X. Lu · H. Pei · W. Hu · J. Xie 2627
- An assessment of fecal indicator and other bacteria from an urbanized coastal lagoon in the City of Los Angeles, California, USA**  
J.H. Dorsey · V.D. Carmona-Galindo · C. Leary · J. Huh · J. Valdez 2647
- Geochemical survey of an illegal waste disposal site under a waste emergency scenario (Northwest Naples, Italy)**  
L. Ferrara · M. Iannace · A.M. Patelli · M. Arienzo 2671
- Appraisal of heavy metal concentration in selected vegetables exposed to different degrees of pollution in Agra, India**  
S. Kumar 2683

- Preconcentration of metal ions through chelation on a synthesized resin containing O, O donor atoms for quantitative analysis of environmental and biological samples**  
A. Islam · M.A. Laskar · A. Ahmad 2691
- Combining a road pollution dispersion model with GIS to determine carbon monoxide concentration in Tennessee**  
E. Pantaleoni 2705
- Impacts of climate-induced changes on the distribution of pesticides residues in water and sediment of Lake Naivasha, Kenya**  
P.O. Otieno · P.O. Owuor · J.O. Lalah · G. Pfister · K.-W. Schramm 2723
- Airborne load of *Cassia* pollen in West Bengal, eastern India: its atmospheric variation and health impact**  
M.M. Hussain · J. Mandal · K. Bhattacharya 2735
- Solid-phase extraction and separation procedure for trace aluminum in water samples and its determination by high-resolution continuum source flame atomic absorption spectrometry (HR-CS FAAS)**  
H. Ciftci · C. Er 2745
- Indirect prediction of surface ozone concentration by plant growth responses in East Asia using mini-open top chambers**  
Y. Kohno · H. Matsumura · M. Miwa · T. Yonekura · K. Aihara · C. Umponstira · V.T. Le · N.T. Ngoc · P.H. Viet · M. Wei 2755
- Microbiological and physical–chemical water quality of the rice fields in Sinos River's basin, Southern Brazil**  
J.P. Panizzon · V.R.M. Macedo · V. Machado · L.M. Fiuza 2767
- Assessment of anthropogenic influences on surface water quality in urban estuary, northern New Jersey: multivariate approach**  
J.Y. Shin · F. Artigas · C. Hobbie · Y.-S. Lee 2777
- Factors and sources influencing ionic composition of atmospheric condensate during winter season in lower troposphere over Delhi, India**  
P. Kumar · S. Yadav 2795
- Evaluation of environmental fate of acetamiprid in the laboratory**  
S. Pitam · I. Mukherjee · A. Kumar 2807
- Stormflow hydrochemistry of a river draining an abandoned metal mine: the Afon Twymyn, central Wales**  
P. Byrne · I. Reid · P.J. Wood 2817
- Impact of anthropogenic activities on physico-chemical parameters of water and mineral uptake in *Catla catla* from river Ravi, Pakistan**  
A. Shakir · A.S. Chaudhry · J.I. Qazi 2833
- Use of Sediment Quality Guidelines and pollution indicators for the assessment of heavy metal and PAH contamination in Greek surficial sea and lake sediments**  
J. Hahladakis · E. Smaragdaki · G. Vasilaki · E. Gidaracos 2843
- Some considerations on the use of simple box models of contaminant fate in soils**  
A. Pistocchi 2855
- Geochemical evaluation of present-day Tuul River sediments, Ulaanbaatar basin, Mongolia**  
B. Dalai · H. Ishiga 2869
- Erratum to: Sensitivity analysis of TOPSIS method in water quality assessment: I. Sensitivity to the parameter weights**  
P. Li · H. Qian · J. Wu · J. Chen 2883
- Erratum to: Investigation of organic pollutants in wastewater-irrigated soil and its DNA damage and oxidative damage on mice**  
H. Gao · Y. Dong · C. Meng · W. Guan · Y. Liu · G. Xing 2885