

**Sand as a relevant fraction in geochemical studies in intertidal environments**

X.L. Otero · M.A. Huerta-Díaz · S. De La Peña · T.O. Ferreira 7945

**Spatial and temporal trace metal distribution of a Peruvian basin: recognizing trace metal sources and assessing the potential risk**

C. Yacoub · N. Blazquez · A. Pérez-Foguet · N. Miralles 7961

**Speciation of As(III) and As(V) in water and sediment using reverse-phase ion-pair high-performance liquid chromatography-neutron activation analysis (HPLC-NAA)**

D. Tulasi · D. Adotey · A. Affum · D. Carboo · Y. Serfor-Armah 7979

**Assessment of potential impacts of municipal solid waste treatment alternatives by using life cycle approach: a case study in Vietnam**

N.P. Thanh · Y. Matsui 7993

**Benzo(a)pyrene induced structural and functional modifications in lung cystatin**

M.S. Khan · M. Priyadarshini · A. Shah · S. Tabrez · H. Jagirdar · A.M. Alsenaidy · B. Bano 8005

**Assessing the soil quality of alpine grasslands in the Qinghai-Tibetan Plateau using a modified soil quality index**

Y. Li · S. Dong · L. Wen · X. Wang · Y. Wu 8011

**Simulation of the migration and transformation of petroleum pollutants in the soils of the Loess plateau: a case study in the Maling oil field of northwestern China**

F. Pan · J. Ma · Y. Wang · Y. Zhang · L. Chen · W.M. Edmunds 8023

**Optimizing booster chlorination in water distribution networks: a water quality index approach**

N. Islam · R. Sadiq · M.J. Rodriguez 8035

**The effects of biotic and abiotic factors on the spatial heterogeneity of alpine grassland vegetation at a small scale on the Qinghai-Tibet Plateau (QTP), China**

L. Wen · S.K. Dong · Y.Y. Li · R. Sherman · J.J. Shi · D.M. Liu · Y.L. Wang · Y.S. Ma · L. Zhu 8051

**Source discrimination of heavy metals in sediment and water of To Lich River in Hanoi City using multivariate statistical approaches**

N.T. Thuong · M. Yoneda · M. Ikegami · M. Takakura 8065

**Diurnal variations in bacterial and viral production in Cochin estuary, India**

A. Parvathi · V. Jasna · K.C. Haridevi · S. Jina · M. Greeshma · J. Breezy · M. Nair 8077

**Monitoring effects of remediation on natural sediment recovery in Sydney Harbour, Nova Scotia**

T.R. Walker · D. MacAskill · T. Rushton · A. Thalheimer · P. Weaver 8089

**Comparison of linuron degradation in the presence of pesticide mixtures in soil under laboratory conditions**

M. Swarcewicz · A. Gregorczyk · J. Sobczak 8109

**Nitrogen multitemporal monitoring through mosses in urban areas affected by mud volcanoes around Mt. Etna, Italy**

G. Bonanno 8115

**Biofilm thickness measurement using an ultrasound method in a liquid phase**

R. Mauricio · C.J. Dias · N. Jubilado · F. Santana 8125

**Status and effect of pesticide residues in soils under different land uses of Andaman Islands, India**

A.V. Murugan · T.P. Swarnam · S. Gnanasambandan 8135

**Use of *Pseudomonas* spp. for the bioremediation of environmental pollutants: a review**

S. Wasi · S. Tabrez · M. Ahmad 8147

**Characteristics and distribution of analyzed metals in soil profiles in the vicinity of a postflotation waste site in the Bukowno region, Poland**

A.M. Gruszecka · M. Wdowin 8157

**The influences of weir construction on salt water intrusion and water quality in a tidal estuary—assessment with modeling study**

W.-B. Chen · W.-C. Liu · L.-T. Huang 8169

**Polycyclic aromatic hydrocarbons in soils along the coastal and estuarine areas of the northern Bohai and Yellow Seas, China**

W. Jiao · T. Wang · J.S. Khim · W. Luo · W. Hu · J.E. Naile · J.P. Giesy · Y. Lu 8185

**Trace metal fractionation in the Pichavaram mangrove-estuarine sediments in southeast India after the tsunami of 2004**

R.K. Ranjan · G. Singh · J. Routh · A. Ramanathan 8197

**Determination of seventeen endocrine disruptor compounds and their spatial and seasonal distribution in Ria Formosa Lagoon (Portugal)**

M.J. Rocha · C. Cruzeiro · M. Reis · E. Rocha · M. Pardal 8215

- Ozone facilitated dechlorination of 2-chloroethanol and impact of organic solvents and activated charcoal**  
A.N. Gounden · S.B. Jonnalagadda 8227
- Heat wave hazard classification and risk assessment using artificial intelligence fuzzy logic**  
I. Keramitsoglou · C.T. Kiranoudis · B. Maiheu · K. De Ridder · I.A. Daglis · P. Manunta · M. Paganini 8239
- Assessment of geochemical processes occurring in groundwaters in the coastal alluvial aquifer**  
V.V.S. Gurunadha Rao · G. Tamma Rao · L. Surinaidu · J. Mahesh · S.T. Mallikharjuna Rao · B. Mangaraja Rao 8259
- Habitat monitoring and genotoxicity in *Ucides cordatus* (Crustacea: Ucididae), as tools to manage a mangrove reserve in southeastern Brazil**  
M.A.A. Pinheiro · L.F.A. Duarte · T.R. Toledo · M.L. Adam · R.A. Torres 8273
- Natural regeneration of the herbaceous community in a semiarid region in Northeastern Brazil**  
J.M.F.F. Santos · D.M. Santos · C.G.R. Lopes · K.A. Silva · E.V.S.B. Sampaio · E.L. Araújo 8287
- Remote-sensing-based analysis of landscape change in the desiccated seabed of the Aral Sea—a potential tool for assessing the hazard degree of dust and salt storms**  
F. Löw · P. Navratil · K. Kotte · H.F. Schöler · O. Bubenzer 8303
- Storm runoff quality and pollutant loading from commercial, residential, and industrial catchments in the tropic**  
M.F. Chow · Z. Yusop · S.M. Shirazi 8321
- Arsenic and other trace elements in two catfish species from Paranaguá Estuarine Complex, Paraná, Brazil**  
J.L.F. Angeli · T.H. Trevizani · A. Ribeiro · E.C. Machado · R.C.L. Figueira · B. Markert · S. Fraenzle · S. Wuenschmann 8333
- Changes in forest biomass carbon stock in Northern Turkey between 1973 and 2006**  
M. Misir 8343
- Plankton diversity and water quality assessment of three freshwater lakes of Mandi (Himachal Pradesh, India) with special reference to planktonic indicators**  
R.K. Thakur · R. Jindal · U.B. Singh · A.S. Ahluwalia 8355
- Distribution and sources of polycyclic aromatic hydrocarbons in the surface water of Taizi River, Northeast of China**  
X. Song · X. Hu · M. He · R. Liang · Y. Li · F. Li 8375
- Concentrations of toxic heavy metals and trace elements in raw milk of Simmental and Holstein-Friesian cows from organic farm**  
R. Pilarczyk · J. Wójcik · P. Czerniak · P. Sablik · B. Pilarczyk · A. Tomza-Marciniak 8383
- Heavy metals intake by cultured mushrooms growing in model system**  
M.M. Özcan · N. Dursun · F.Y. AL Juhaimi 8393
- Polycyclic aromatic hydrocarbons in water, sediment and soil of the Songhua River Basin, China**  
W.-L. Ma · L.-Y. Liu · H. Qi · Z.-F. Zhang · W.-W. Song · J.-M. Shen · Z.-L. Chen · N.-Q. Ren · J. Grabuski · Y.-F. Li 8399
- Hydrographic and sediment characteristics of seagrass meadows of the Gulf of Mannar Marine Biosphere Reserve, South India**  
R. Arumugam · R.R.R. Kannan · K.R. Saravanan · T. Thangaradjou · P. Anantharaman 8411
- Biocomplementation of SVE to achieve clean-up goals in soils contaminated with toluene and xylene**  
A.A. Soares · M.T. Pinho · J.T. Albergaria · V. Domingues · M. da Conceição Alvim-Ferraz · C. Delerue-Matos 8429
- Native plant restoration combats environmental change: development of carbon and nitrogen sequestration capacity using small cordgrass in European salt marshes**  
G. Curado · A.E. Rubio-Casal · E. Figueroa · B.J. Grewell · J.M. Castillo 8439
- Simultaneous analysis of endosulfan, chlorpyrifos, and their metabolites in natural soil and water samples using gas chromatography-tandem mass spectrometry**  
M.K. Tiwari · S. Guha 8451
- Major and trace element contents in apples from a cultivated area of central Greece**  
K. Skordas · G. Papastergios · A. Filippidis 8465
- A monitoring of environmental effects from household greywater reuse for garden irrigation**  
R.M.S.R. Mohamed · A.H.M. Kassim · M. Anda · S. Dallas 8473
- Distribution of phthalate esters in topsoil: a case study in the Yellow River Delta, China**  
Y. Hongjun · X. Wenjun · L. Qing · L. Jingtao · Y. Hongwen · L. Zhaohua 8489
- Assessment of private economic benefits and positive environmental externalities of tea plantation in China**  
H. Xue · X. Ren · S. Li · X. Wu · H. Cheng · B. Xu · B. Gu · G. Yang · C. Peng · Y. Ge · J. Chang 8501

- Perfluorooctane sulfonate (PFOS) distribution and effect factors in the water and sediment of the Yellow River Estuary, China**  
S. Wang · H. Wang · W. Deng 8517
- Distribution, speciation, and risk assessment of selected metals in the gold and iron mine soils of the catchment area of Miyun Reservoir, Beijing, China**  
X. Huang · Y. Zhu · H. Ji 8525
- Using discriminant analysis to assess polycyclic aromatic hydrocarbons contamination in Yongding New River**  
X. Wang · Z. Zou · H. Zou 8547
- Soil phosphorus forms and their variations in selected paddy soils of Iran**  
M. Jalali · N.H. Matin 8557
- Management of hospitals solid waste in Khartoum State**  
S.A.G. Saad 8567
- Application of thresholds of potential concern and limits of acceptable change in the condition assessment of a significant wetland**  
K. Rogers · N. Saintilan · M.J. Colloff · L. Wen 8583
- Assessment of flood-induced changes of phytoplankton along a river–floodplain system using the morpho-functional approach**  
M. Mihaljević · D. Špoljarić · F. Stević · T. Žuna Pfeiffer 8601
- Top-down and bottom-up inventory approach for above ground forest biomass and carbon monitoring in REDD framework using multi-resolution satellite data**  
L.K. Sharma · M.S. Nathawat · S. Sinha 8621
- The threshold between natural recovery and the need for artificial restoration in degraded lands in Fujian Province, China**  
H. Ma · Y. Wang · H. Yue · B. Zhong 8639
- Multivariate statistical techniques for the assessment of seasonal variations in surface water quality of pasture ecosystems**  
M. Ajorlo · R.B. Abdullah · M.K. Yusoff · R.A. Halim · A.H.M. Hanif · W.D. Willms · M. Ebrahimian 8649
- Influence of elevated carbon dioxide and temperature on belowground carbon allocation and enzyme activities in tropical flooded soil planted with rice**  
P. Bhattacharyya · K.S. Roy · S. Neogi · M.C. Manna · T.K. Adhya · K.S. Rao · A.K. Nayak 8659
- Comparative study of the microstructural and magnetic properties of fly ashes obtained from different thermal power plants in West Bengal, India**  
A. Bhattacharjee · H. Mandal · M. Roy · J. Kusz · W. Hofmeister 8673
- Effect of land use activities on PAH contamination in urban soils of Rawalpindi and Islamabad, Pakistan**  
I. ud Din · A. Rashid · T. Mahmood · A. Khalid 8685
- Major ion chemistry and weathering processes in the Midyan Basin, northwestern Saudi Arabia**  
H.A. Ghrefat · A. Batayneh · H. Zaman · T. Zumlot · E. Elawadi · Y. Nazzal 8695
- Ecotoxicity and genotoxicity assessment of exhaust particulates from diesel-powered buses**  
N. Kováts · A. Ács · Á. Ferincz · A. Kovács · E. Horváth · B. Kakasi · B. Jancsek-Turóczi · A. Gelencsér 8707
- Assessment and monitoring of nutrient loading in the sediments of tidal creeks receiving shrimp farm effluent in Quang Ninh, Vietnam**  
T.D. Bui · J. Luong-Van · S.W. Maier · C.M. Austin 8715
- Variations in the physicochemical characteristics of the Buffalo River in the Eastern Cape Province of South Africa**  
V.N. Chigor · T. Sibanda · A.I. Okoh 8733
- Research on the drought index of irrigation district with multi-time scales**  
J. Zhang · B. Guo · Z. Ding 8749
- Measuring radon exhalation rate in two cycles avoiding the effects of back-diffusion and chamber leakage**  
Y. Tan · D. Xiao 8759
- Seasonal variation in the acute effects of ozone on premature mortality among elderly Japanese**  
C.F.S. Ng · K. Ueda · H. Nitta · A. Takeuchi 8767
- Benthic foraminiferal response to trace element pollution—the case study of the Gulf of Milazzo, NE Sicily (Central Mediterranean Sea)**  
C. Cosentino · F. Pepe · G. Scopelliti · M. Calabrò · A. Caruso 8777