

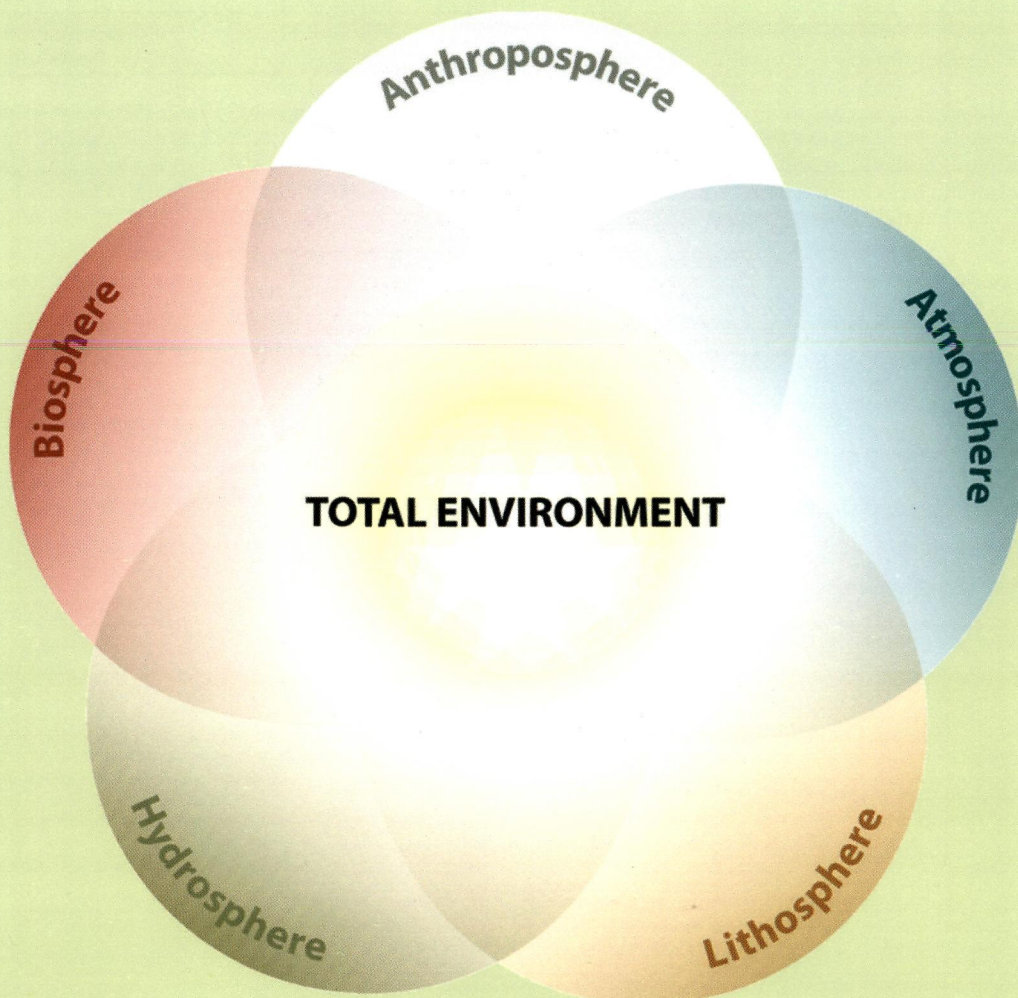
711
S40/te

Volumes 456-457 • 1 July 2013 • ISSN 0048-9697
Published in 28 issues each year



Science of the Total Environment

An International Journal for Scientific Research into
the Environment and its Relationship with Humankind

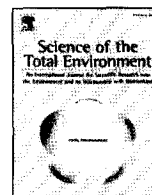




ELSEVIER

Contents lists available at SciVerse ScienceDirect

Science of the Total Environment

journal homepage: www.elsevier.com/locate/scitotenv

Contents

A comparison study on airborne particles during haze days and non-haze days in Beijing Z. Sun, Y. Mu, Y. Liu and L. Shao (China)	1
Effects of calcium oxide on the surface properties of municipal wastewater sludge and its co-slurrying ability with coal R. Wang, J. Liu, Y. Yu, J. Zhou and K. Cen (China)	9
Urinary levels of <i>N</i> -acetyl- <i>S</i> -(2-carbamoylethyl)-cysteine (AAMA), an acrylamide metabolite, in Korean children and their association with food consumption K. Ji, S. Kang, G. Lee, S. Lee, A. Jo, K. Kwak, D. Kim, D. Kho, S. Lee, S. Kim, Y.-F. Hiuang, K.-Y. Wu and K. Choi (Republic of Korea, Canada, Taiwan)	17
Combined impacts of freeze–thaw processes on paddy land and dry land in Northeast China S. Chen, W. Ouyang, F. Hao and X. Zhao (China)	24
Detection of herbicides in the urine of pet dogs following home lawn chemical application D.W. Knapp, W.A. Peer, A. Conteh, A.R. Diggs, B.R. Cooper, N.W. Glickman, P.L. Bonney, J.C. Stewart, L.T. Glickman and A.S. Murphy (USA)	34
Required ozone doses for removing pharmaceuticals from wastewater effluents M.G. Antoniou, G. Hey, S. Rodríguez Vega, A. Spiliotopoulou, J. Fick, M. Tysklind, J. la Cour Jansen and H.R. Andersen (Denmark, Cyprus, Sweden, Spain)	42
Role of highway traffic on spatial and temporal distributions of air pollutants in a Swiss Alpine valley R.E. Ducret-Stich, M.-Y. Tsai, M.S. Ragetti, A. Ineichen, N. Kuenzli and H.C. Phuleria (Switzerland, USA)	50
Evaluation of nitrogen and phosphorus transport with runoff from fairway turf managed with hollow tine core cultivation and verticutting P.J. Rice and B.P. Horgan (USA)	61
Issues related to aircraft take-off plumes in a mesoscale photochemical model E. Bossioli, M. Tombrou, C. Helmis, R. Kurtenbach, P. Wiesen, K. Schäfer, A. Dandou and K.V. Varotsos (Greece, Germany)	69
Soil management of copper mine tailing soils – Sludge amendment and tree vegetation could improve biological soil quality V. Asensio, E.F. Covelo and E. Kandeler (Spain, Germany)	82
Enhanced electricity generation by using algae biomass and activated sludge in microbial fuel cell N. Rashid, Y.-F. Cui, M. Saif Ur Rehman and J.-I. Han (Republic of Korea, Pakistan)	91
Geochemistry of ultra-fine and nano-compounds in coal gasification ashes: A synoptic view M.A. Kronbauer, M. Izquierdo, S. Dai, F.B. Waanders, N.J. Wagner, M. Mastalerz, J.C. Hower, M.L.S. Oliveira, S.R. Taffarel, D. Bizani and L.F.O. Silva (Brazil, UK, China, South Africa, United States)	95
Atmospheric deposition of N, P and Fe to the Northern Indian Ocean: Implications to C- and N-fixation B. Srinivas and M.M. Sarin (India)	104
Detection of antibiotic resistant enterococci and <i>Escherichia coli</i> in free range Iberian Lynx (<i>Lynx pardinus</i>) A. Gonçalves, G. Igrejas, H. Radhouani, T. Santos, R. Monteiro, R. Pacheco, E. Alcaide, I. Zorrilla, R. Serra, C. Torres and P. Poeta (Portugal, Spain)	115
Effects of <i>in vivo</i> exposure to UV filters (4-MBC, OMC, BP-3, 4-HB, OC, OD-PABA) on endocrine signaling genes in the insect <i>Chironomus riparius</i> I. Ozáez, J.L. Martínez-Guitarte and G. Morcillo (Spain)	120
Industrial sector-based volatile organic compound (VOC) source profiles measured in manufacturing facilities in the Pearl River Delta, China J. Zheng, Y. Yu, Z. Mo, Z. Zhang, X. Wang, S. Yin, K. Peng, Y. Yang, X. Feng and H. Cai (PR China)	127
Environmental impact assessment of structural flood mitigation measures by a rapid impact assessment matrix (RIAM) technique: A case study in Metro Manila, Philippines R. Gilbuena Jr., A. Kawamura, R. Medina, H. Amaguchi, N. Nakagawa and D.D Bui (Japan, Philippines, Singapore)	137
Determination of arsenic species in edible periwinkles (<i>Littorina littorea</i>) by HPLC–ICPMS and XAS along a contamination gradient K.J. Whaley-Martin, I. Koch and K.J. Reimer (Canada)	148
Predicting the contribution of nanoparticles (Zn, Ti, Ag) to the annual metal load in the Dutch reaches of the Rhine and Meuse A.A. Markus, J.R. Parsons, E.W.M. Roex, G.C.M. Kenter and R.W.P.M. Laane (The Netherlands)	154
Exploring the links between antibiotic occurrence, antibiotic resistance, and bacterial communities in water supply reservoirs B. Huerta, E. Marti, M. Gros, P. López, M. Pompêo, J. Armengol, D. Barceló, J.L. Balcázar, S. Rodríguez-Mozaz and R. Marcé (Spain, Brazil)	161
Adsorption of Pb ²⁺ , Cd ²⁺ , Cu ²⁺ and Cr ³⁺ onto titanate nanotubes: Competition and effect of inorganic ions W. Liu, T. Wang, A.G.L. Borthwick, Y. Wang, X. Yin, Xuezhao Li and J. Ni (China, Ireland)	171

Catchment source contributions to the sediment-bound organic matter degrading salmonid spawning gravels in a lowland river, southern England A.L. Collins, L.J. Williams, Y.S. Zhang, M. Marius, J.A.J. Dungait, D.J. Smallman, E.R. Dixon, A. Stringfellow, D.A. Sear, J.I. Jones and P.S. Naden (UK)	181
Uptake of human pharmaceuticals in bull sharks (<i>Carcharhinus leucas</i>) inhabiting a wastewater-impacted river J. Gelsleichter and N.J. Szabo (USA)	196
Hydrochemical and isotopic investigation of atmospheric precipitation in Beijing, China Y. Zhai, J. Wang, Y. Zhang, Y. Teng, R. Zuo and H. Huan (China)	202
Chemical speciation and human health risk of trace metals in urban street dusts from a metropolitan city, Nanjing, SE China H. Li, X. Qian, W. Hu, Y. Wang and H. Gao (PR China)	212
Land use impacts on trace metal concentrations of suburban stream sediments in the Helsinki region, Finland P. Kuusisto-Hjort and J. Hjort (Finland)	222
Cyanobacteria enhance methylmercury production: A hypothesis tested in the periphyton of two lakes in the Pantanal floodplain, Brazil W.L. Lázaro, J.R.D. Guimarães, A.R.A. Ignácio, C.J. Da Silva and S. Diez (Brazil, Spain)	231
Carbon dioxide at an unpolluted site analysed with the smoothing kernel method and skewed distributions I.A. Pérez, M.L. Sánchez, M.Á. García and N. Pardo (Spain)	239
Potential water quality impacts originating from land burial of cattle carcasses Q. Yuan, D.D. Snow and S.L. Bartelt-Hunt (United States)	246
Evaluation of the impact of SO ₂ and NO ₂ emissions on the ambient air-quality in the Çan-Bayramiç region of northwest Turkey during 2007–2008 N. Ozkurt, D. Sari, N. Akalin and B. Hilmioglu (Turkey)	254
PMPM ₁₀ and PM _{2.5} sources at an insular location in the western Mediterranean by using source apportionment techniques J. Pey, A. Alastuey and X. Querol (Spain, France, Italy)	267
Mercury distribution and speciation in different brain regions of beluga whales (<i>Delphinapterus leucas</i>) S.K. Ostertag, G.A. Stern, F. Wang, M. Lemes and H.M. Chan (Canada)	278
Phosphorus as a limiting factor on sustainable greywater irrigation R.D.R. Turner, G.D. Will, L.A. Dawes, E.A. Gardner and D.J. Lyons (Australia)	287
Estimation of net greenhouse gas balance using crop- and soil-based approaches: Two case studies J. Huang, Y. Chen, P. Sui and W. Gao (China)	299
Perspectives for integrating human and environmental risk assessment and synergies with socio-economic analysis A.R.R. Péry, G. Schüürmann, P. Ciffroy, M. Faust, T. Backhaus, L. Aicher, E. Mombelli, C. Tebby, M.T.D. Cronin, S. Tissot, S. Andres, J.M. Brignon, L. Frewer, S. Georgiou, K. Mattas, J.C. Vergnaud, W. Peijnenburg, E. Capri, A. Marchis and M.F. Wilks (France, Germany, Switzerland, England, United Kingdom, Greece, The Netherlands, Italy)	307
Organochlorine pesticides in soil, moss and tree-bark from North-Eastern Romania D. Tarcau, S. Cucu-Man, J. Boruvkova, J. Klanova and A. Covaci (Romania, Czech Republic, Belgium)	317
Integration of QSAR models for bioconcentration suitable for REACH A. Gissi, O. Nicolotti, A. Carotti, D. Gadaleta, A. Lombardo and E. Benfenati (Italy)	325
Annoyance, detection and recognition of wind turbine noise T. Van Renterghem, A. Bockstael, V. De Weirt and D. Botteldooren (Belgium)	333
Contrast and correlations between coarse and fine particulate matter in the United States R. Li, C. Wiedinmyer and M.P. Hannigan (USA)	346
Performance of UK wastewater treatment works with respect to trace contaminants M. Gardner, V. Jones, S. Comber, M.D. Scrimshaw, T. Coello - Garcia, E. Cartmell, J. Lester and B. Ellor (UK)	359
The association between diurnal temperature range and emergency room admissions for cardiovascular, respiratory, digestive and genitourinary disease among the elderly: A time series study M.-z. Wang, S. Zheng, S.-l. He, B. Li, H.-j. Teng, S.-g. Wang, L. Yin, K.-z. Shang and T.-s. Li (China)	370
Impact of temperature and storage duration on the chemical and odor quality of military packaged water in polyethylene terephthalate bottles M. Greifenstein, D.W. White, A. Stubner, J. Hout and A.J. Whelton (USA)	376
Export of dissolved organic carbon and nitrate from grassland in winter using high temporal resolution, in situ UV sensing R.C. Sandford, J.M.B. Hawkins, R. Bol and P.J. Worsfold (UK, Germany)	384
Bulk deposition close to a Municipal Solid Waste incinerator: One source among many E. Venturini, I. Vassura, L. Ferroni, S. Raffo, F. Passarini, D.C.S. Beddows and R.M. Harrison (Italy, United Kingdom)	392