Water Science and Technology: Water Supply

Volume 17, Number 3

Contents

621 Urban planning and water management in Ancient Aetolian Makyneia, Western Greece
K. Kollyropoulos, F. Georma, F. Saranti, N. Mamassis and I. K. Kalavrouziotis

632 Application of set pair analysis based on the improved five-element connectivity in the evaluation of groundwater quality in XuChang, Henan Province, China
Furong Yu, Jihong Qu, Zhiping Li and Zhipeng Gao

643 Modelling particle growth of calcium carbonate in a pilot-scale pellet fluidized bed reactor
Rui-zhu Hu, Ting-lin Huang, Gang Wen and Shang-ye Yang

652 Quality assessment of rainwater and harvested rainwater stored in different types of cisterns
Lina Wu, Jianen Gao, Wenjun Zhao, Xiuquan Xu, Yan Yin and Lei Wu

665 Enhanced degradation of trichloroethene by sodium percarbonate activated with Fe(III) in the presence of citric acid
Xueke Zang, Xiaogang Gu, Shuguang Lu, Zhouwei Miao, Xiang Zhang, Xiaori Fu, George Y. Fu, Zhaofu Qiu and Qian Sui

674 Water efficiency evaluation of a regional water scheme – Zhengzhou, China, using a water ecological–economic system (WEES) and based on emergy theory
Zening Wu, Xi Guo, Xinjian Guan, Cuimei Lv and Huiliang Wang

688 Effects of calcination temperature and solution pH on the defluoridation potential of Al/Fe oxide-modified diatomaceous earth: metal leaching and sorbent reuse
Anthony A. Izuagie, Wilson M. Gitari and Jabulani R. Gumbo

698 Arsenic adsorption using Fe(III)-loaded porous amidoximated acrylonitrile/itaconic copolymers
Chunnuan Ji, Suwen Sun, Shenghua Chi, Rongjun Qu, Changmei Sun and Peng Yin

707 In-stream detection of waterborne priority pollutants, and applications in drinking water contaminant warning systems
Andrea G. Capodaglio

726 Experimental assessment of pressure–leakage relationship in a water distribution network
Nicola Fontana, Maurizio Giugni and Gustavo Marini

733 Removal of aluminium and iron from surface water by conventional water treatment
S. Arendze and M. S. Sibiya

745 Freeze–melting process significantly decreases phthalate ester plasticizer levels in drinking water stored in polyethylene terephthalate (PET) bottles
Hamidreza Pourzamani, Majid Falahati, Forouz Rastegari and Karim Ebrahim
752 Cause of rapid monochloramine decay observed in treated water
Sam Hancock, Martin Harris and David Cook

759 Water distribution network quality model calibration: a case study – Ahar
M. Dini and M. Tabesh

771 Nitrate removal from natural water by coupling adsorption and Donnan dialysis
Thouraya Turki and Mohamed Ben Amor

780 Spatial distribution of heavy metals in groundwaters and health risks associated in the Ntem watershed, Yaoundé, Cameroon
Célestin Defo, Yerima Bernard Palmer Kfuban, Ravinder Kaur and Nestor Bemmo

792 Isolation and characterization of algicidal bacteria and its effect on a musty odor-producing cyanobacterium Dolichospermum crassum in a reservoir
Taketoshi Shimizu, Takuya Oda, Hiroyuki Ito and Ichiro Imai

799 Combating water scarcity through roof water harvesting: planning and design with stakeholders’ perception in Sikkim (India)
Bharat Chandra Kusre, P. K. Bora, Deependra Rai, Singam Suranjoy Singh, Aphiya Tana and Soshna Subba

811 Framework for water quality monitoring system in water distribution networks based on vulnerability and population sensitivity risks
Amin Abo-Monasar and Muhammad Al-Zahrani

825 Numerical routing of tracer concentrations in rivers with stagnant zones
Abbas Parsaie and Amir Hamzeh Haghiabi

835 Water budgets for freshwater fish ponds of Andhra Pradesh, Orissa and West Bengal, India
Subhendu Adhikari, Kishore Chandra Pani, R. N. Mandal, P. P. Chakrabarti, B. S. Giri and P. Jayasankar

842 Identification of the bacterial population in manganese removal filters
Jantinus H. Bruins, Branislav Petrusevski, Yness M. Slokar, Gerhard H. Wübbels, Koen Huysman, Bart A. Wullings, Koen Joris, Joop C. Kruithof and Maria D. Kennedy

851 Prediction of the permeability-reducing effect of cement infiltration into sandy soils
Jinlan Ji and Guisheng Fan

859 The effects of input materials on ceramic water filter efficacy for household drinking water treatment
Justine Rayner, Xia Luo, Jesse Schubert, Pat Lennon, Kristen Jellison and Daniele Lantagne

870 Assessment of the value of NOM treatment processes based on a matter-element model
Yue Zhang, Sen Peng and Xin-hua Zhao

879 A methodological system for hydraulic heritage assessment: a management tool
J. Hermosilla Pla and S. Mayordomo Maya

889 Extended performance analysis of polyurethane–iron oxide nanocomposite for efficient removal of arsenic species from water
Faten B. Hussein and Nidal H. Abu-Zahra

897 Uncertainty analysis and prediction of river runoff with multi-time scales
Jinping Zhang, Yong Zhao and Xiaomin Lin