Water Science and Technology: Water Supply

Volume 17, Number 2

Contents

311 Investigation and control of seawater intrusion in the Eastern Nile Delta aquifer considering climate change
   Hany F. Abd-Elhamid

324 Analysis of the spatio-temporal variability of terrestrial water storage in the Great Artesian Basin, Australia
   Jiabao Yan, Shaofeng Jia, Aifeng Lv, Rashid Mahmood and Wenbin Zhu

342 Application of response surface methodology for modeling and optimization of Bacillus subtilis spores inactivation by the UV/persulfate process
   Zahra Sabeti, Mahmood Alimohammadi, Samira Yousefzadeh, Hassan Aslani, Maryam Ghani and Ramin Nabizadeh

352 A non-phosphorus water treatment agent in water injection system: inhibiting strontium sulfate and dispersing ferric oxide

362 Using nanometer TiO₂ modified with cetyl trimethyl ammonium bromide for separation and preconcentration of Parathion in water sample
   Haghighe Fathi, Robab Soltani-Jigheh and Saeed Hemmati

372 Assessment of sustainability of rural water supply services in Tanzania: the case study of Dodoma region
   Lightness Eliamringi and Shija Kazumba

381 Implementing tactical plans to improve water-energy loss management
   D. Loureiro, H. Alegre, M. S. Silva, R. Ribeiro, A. Mamade and A. Poças

389 Spatial and seasonal variability of water quality in the Mopanshan Reservoir (Harbin, Northern China)
   Fangyuan Li, Jingyao Wang, Tingting Cao and Chongwei Cui

399 Effect of feed type and other factors on soluble microbial product production and its disinfection byproduct formation during biological treatment of wastewater organics
   Jinlin Liu, Xiaoyan Li and Anjie Li

407 Performance and productivity measurement of urban water supply services in India
   Sai Amulya Nyathikala and Mukul Kulshrestha

422 Influence of nutrient supplementation on DOC removal in drinking water biofilters
   Sahil Dhawan, Onita D. Basu and Bahman Banihashemi

433 Hydrological and environment tritium investigation to evaluate groundwater in capital territory of Pakistan
   Abdul Ghaffar, Tehmina Tariq, Azhar Mashiatullah and Syeda Maria Ali

452 Design and management of rainwater harvesting systems to control water quality for potable purposes in Cu Khe, Vietnam
   Yonghwan Kim, Anh Dzung Dao, Mikiyong Kim, Viet-Anh Nguyen and Mooyoung Han
461 Impact of natural organic matter on bromate removal in the sulfite/UV-L advanced reduction process
Bahngmi Jung, Aya Safan, Venkata Sai Vamsi Botlaguduru, Bill Batchelor and Ahmed Abdel-Wahab

472 Water footprint of Xiamen city from production and consumption perspectives (2001–2012)
Jiefeng Kang, Jianyi Lin, Shenghui Cui and Xiangyang Li

480 Defluoridation of groundwater using mixed Mukondeni clay soils
T. Ngulube, M. W. Gitari and H. Tutu

493 Study on the nucleation aspects and morphology of reverse osmosis desalination scales with and without scale inhibitor at different supersaturation ratios
H. M. Abdel-Ghafar, E. A. Abdel-Aal and B. E. El Anadouli

500 Nutrient enrichment and vertical mixing mediate 2-methylisoborneol and geosmin concentrations in a drinking water reservoir
Brianna K. Olsen, Michael F. Chislock, Anja Rebelein and Alan E. Wilson

508 Optimization of UV/H₂O₂ processes for the removal of organic micropolllutants from drinking water: effect of reactor geometry and water pretreatment on EEO values

519 Groundwater discharge downstream of an arid inland river in Northwestern China
Bo Kang, Weihong Dong, Wei Xu and Fengtian Yang

526 Pilot-scale electrochemical disinfection of surface water: assessing disinfection by-product and free chlorine formation
Charles E. Schaefer, Graig M. Lavorgna, Todd S. Webster, Marc A. Deshusses, Christina Andaya and Ana Urtiaga

537 Prediction of non-cohesive sediment transport in circular channels in deposition and limit of deposition states using SVM
Klyoumars Roushangar and Roghayeh Ghasempour

552 Exploring the effects of domestic water management measures to water conservation attitudes using agent based modelling
Ifigeneia Koutiva and Christos Makropoulos

561 Modeling the impact of nitrate fertilizers on groundwater quality in the southern part of the Nile Delta, Egypt
Mohamed Galal Eltarabily, Abdelazim M. Negm, Chihiro Yoshimura and Oliver C. Saavedra

571 Evaluation of yield, quality and crop water stress index of sugar beet under different irrigation regimes
Omid Bahmani, Ali Akbar Sabziparvar and Rezvan Khosravi

579 Experimental evaluation of a low pressure desalination system (NF-PV), without battery support, for application in sustainable agriculture in rural areas
U. Dehesa-Carrasco, J. J. Ramírez-Luna, C. Calderón-Mólgora, R. S. Villalobos-Hernández and J. J. Flores-Prieto

588 Transfer of phthalates from c-polyvinyl chloride and cross-linked polyethylene pipe (PEX-b) into drinking water
Derek R. Faust, Kimberly J. Wooten and Philip N. Smith

597 Does the recycling of waste streams from drinking water treatment plants worsen the quality of finished water? A case assessment in China
Zhiquan Liu, Yongpeng Xu, Xuewei Yang, Rui Huang, Qihao Zhou and Fuyi Cui

606 Discrete entropy theory for optimal redesigning of salinity monitoring network in San Francisco bay
Amir Boroumand and Taher Rajaee

613 Promoted ozonation for the decomposition of 1,4-dioxane by activated carbon
Gui-Peng Tian, Qian-Yuan Wu, Ang Li, Wen-Long Wang and Hong-Ying Hu