Water Science and Technology

Volume 60, Number 4

Contents

833 Optimization of the solution parameters during the degradation of Orange II in a photo-reactor mediated by Fe-Nafion membranes
M. A. Manzano, A. Riaza, J. M. Quiroga and J. Kiwi

841 An effective multi-objective approach to prioritisation of sewer pipe inspection
L. Berardi, O. Giustolisi, D. A. Savic and Z. Kapelan

851 Enhanced effectiveness of medium-pressure ultraviolet lamps on human adenovirus 2 and its possible mechanism
Gwy-Am Shin, Jung-Keun Lee and Karl G. Linden

859 Options and limits of quantitative and qualitative online-monitoring of industrial discharges into municipal sewage systems
H. Hoppe, S. Messmann, A. Giga and H. Grüning

869 Predictive optimal control of sewer networks using CORAL tool: application to Riera Blanca catchment in Barcelona
V. Puig, G. Cembrano, J. Romera, J. Quevedo, B. Aznar, G. Ramón and J. Cabot

879 Model-based evaluation of control strategies for phosphorus removal in a full-scale advanced phase isolation ditch process
H. Kim, Y. Kim, J. Cha, K. Min, J. Gee and C. Kim

889 Biodegradation of anthraquinone dyes by Shewanella sp. NTOU1 under anaerobic conditions
Wei-Chiung Chi, Chih-Hung Chen and Shiu-Mei Liu

901 Design of self-cleansing sanitary sewer systems with the use of flushing devices
T. Goormans, D. Engelen, R. Bouteligier, P. Willems and J. Berlamont

909 Fault tree analysis for data-loss in long-term monitoring networks
J. Dirksen, J. A. E. ten Veldhuis and R. P. S. Schilperoort

917 Preparation of nano-sized mixed crystal TiO$_2$-coated Er$^{3+}$:YAlO$_3$ by sol–gel method for photocatalytic degradation of organic dyes under visible light irradiation
Jun Wang, Jia Li, Bin Liu, Yingpeng Xie, Guangxi Han, Ying Li, Liqun Zhang and Xiangdong Zhang

927 One-dimensional modelling of the interactions between heavy rainfall-runoff in an urban area and flooding flows from sewer networks and rivers
G. Lipeme Kouyi, D. Fraisse, N. Rivière, V. Guinot and B. Chocat

935 Application of two low-cost adsorption media for removal of toxic metals from contaminated water
R. Somerville and A. C. Norrström

943 Analytical limits of three β-glucosidase-based commercial culture methods used in environmental microbiology, to detect enterococci
Andrée F. Maheux, François J. Picard, Maurice Boissinot, Vicky Huppé, Luc Bissonnette, Jean-Luc T. Bernier, Philippe Cantin, Ann Huletsky and Michel G. Bergeron
957 Operation control of anaerobic digesters on the basis of enzyme activity tests  
Levente Kardos, György Palkó, József Oláh, Katalin Barkács and Gyula Záray

965 Xanthan and gellan degradation by bacteria of activated sludge  
M. Muchová, J. Růžička, M. Jullinová, M. Dolžalová, J. Houser, M. Koutný and L. Buňková

975 Contamination of perfluorinated compounds (PFCs) in Chao Phraya River and Bangpakong River, Thailand  
Chinagarn Kunacheva, Suwanna Kitpati Boontanon, Shigeo Fujii, Shuhei Tanaka, Chanatip Musirat,  
Chattakarn Artsalee and Thana Wongwattana

983 Assessment on activated sludge models for acetate biodegradation under aerobic conditions  
M. A. Hoque, V. Aravinthan and N. M. Pradhan

995 Inspection of deteriorating asbestos cement force mains with georadar technique  
S. Smolders, L. Verhoest, G. De Gueldre and B. Van De Steene

1003 Balancing the budget of environmental estrogen exposure: the contribution of recycled water  
Frederic D. L. Leusch, Michael R. Moore and Heather F. Chapman

1013 Factors influencing release of phosphorus from sediments in a high productive polymictic lake system  
S. U. Solim and A. Wanganeo

1025 Quali-quantitative characterization and wastewater treatment of a winery located in the mid-west of  
Santa Catarina state, South of Brazil  
A. R. C. Ortigara, P. H. Sezerino, A. P. Bento and D. Scaratti

1033 Inhibitory effects of non-ionic surfactants on the microbial activity of activated sludge system  
M. A. Coello Oviedo, D. Sales Marquez, R. Rodriguez-Barroso and J. M. Quiroga Alonso

1041 From conventional activated sludge to alternate oxic/anoxic process: the optimisation of winery wastewater treatment  
A. L. Eusebi, P. Nardelli, G. Gatti, P. Battistoni and F. Cecchi

1049 Start-up of an aerobic granular sequencing batch reactor for the treatment of winery wastewater  
S. López-Palau, J. Dosta and J. Mata-Alvarez

1055 An eco-compatible process for the depuration of wastewater from olive mill industry  
A. Ena, C. Pintucci, C. Faraloni and G. Torzillo

1065 Bio-drying of grape marc and other biomass: a comparison  
E. C. Rada, M. Ragazzi, L. Fiori and D. Antolini

1071 Monitoring the startup of a wet detention pond equipped with sand filters and sorption filters  
J. Vollertsen, K. H. Lange, J. Pedersen, P. Hallager, A. Bruus, A. Laustsen, V. W. Bundesen, H. Brix, A. H. Nielsen,  
N. H. Nielsen, T. Wium-Andersen and T. Hvitved-Jacobsen

1081 Use of Ca–alginate as a novel support for TiO₂ immobilization in methylene blue decolorisation  
Juliana Q. Albarelli, Diego T. Santos, Sharon Murphy and Michael Oelgemöller

1089 Winery wastewater treatment by a combined process: long term aerated storage and Fenton’s reagent  
Marco S. Lucas, Maria Mouta, António Pirra and José A. Peres

1097 Removal of radiocobalt from EDTA-complexes using oxidation and selective ion exchange  
L. K. Malinen, R. Koivula and R. Harjula