Water Science and Technology

Volume 63, Number 4

Contents

583 A nine-point pH titration method to determine low-concentration VFA in municipal wastewater
Hainan Ai, Daijun Zhang, Peili Lu and Qiang He

590 Application of gas chromatography-mass spectrometry preceded by solvent extraction to determine volatile fatty acids in wastewater of municipal, animal farm and landfill origin
Anna Banel and Bogdan Zygmun
t

598 Triclosan: its occurrence, fate and effects in the Australian environment
R. S. Kookana, G-G. Ying and N. J. Waller

605 Occurrence of N-nitrosodimethylamine precursors in wastewater treatment plant effluent and their fate during ultrafiltration-reverse osmosis membrane treatment
M. J. Farré, J. Keller, N. Holling, Y. Poussade and W. Gernjak

613 Photoelectrolytic system applied to Remazol Red Brilliant degradation
Mariana Lopes Sousa, Peterson Bueno Moraes and Ederio Dino Bidoia

618 Response surface analysis and modelling of n-alkanes removal through bioremediation of weathered crude oil
Leila Mohajeri, Hamidi Abdul Aziz, Mohammad Ali Zahed, Soraya Mohajeri, Shamsul Rahman Mohamed Kutty and Mohamed Hasnain Isa

627 The relationship between BOD:N ratio and wastewater treatability in a nitrogen-fixing wastewater treatment system
A. H. Slade, G. J. S. Thorn and M. A. Dennis

633 Research of trace metals as markers of entry pathways in combined sewers
C. Gounou, G. Varraut, K. Amedzro, J. Gasperi, R. Moilleron, S. Gamaud and G. Chebbo

641 Reclaimed wastewater quality enhancement by oxygen injection during transportation
L. E. Rodríguez-Gómez, M. Álvarez, J. Rodriguez-Sevilla, M. C. Marrero and A. Hernández

649 Stimulation of phosphate uptake and polyphosphate accumulation by activated sludge microorganisms in response to sulphite addition
M. W-Y. Lai, A. N. Kulakova, J. P. Quinn and J. W. McGrath

654 Seeking away to promote the use of constructed wetlands for domestic wastewater treatment in developing countries
F. Zurita, M. A. Belmont, J. De Anda and J. R. White

660 Algal biofuels from wastewater treatment high rate algal ponds
R. J. Craggs, S. Heubeck, T. J. Lundquist and J. R. Benemann

666 The removal of ammonia from sanitary landfill leachate using a series of shallow waste stabilization ponds
V. D. Leite, H. W. Pearson, J. T. de Sousa, W. S. Lopes and M. L. D. de Luna
Alkylphenols in atmospheric depositions and urban runoff
A. Bressy, M.-C. Gromaire, C. Lorgeoux and G. Chebbo

Performance of UASB based sewage treatment plant in India: polishing by diffusers an alternative
R. Walia, P. Kumar and I. Mehrotra

Evaluation of extracellular biopolymer and its impact on bioflocculation inactivated sludge bioreactors
G. A. C. Ehlers and S. J. Turner

Explaining differential sources of zoonotic pathogens in intensively-farmed catchments using kinematic waves
Graham B. McBride

Luxury uptake of phosphorus by microalgae in full-scale waste stabilisation ponds
N. Powell, A. Shilton, S. Pratt and Y. Chisti

Performance and inhibition recovery of anammox reactors seeded with different types of sludge
S. Q. Ni and J. Meng

Application of a risk management framework to a drinking water supply augmented by stormwater recharge
J. L. Vanderzalm, D. W. Page and P. J. Dillon

Evaluating the success of sewer reconstruction by using carbamazepine as anthropogenic marker in groundwater
Katerina Ruzicka, Matthias Zessner, Alfred P. Blaschke, Robert Fenz, Manfred Clara and Helmut Kroiss

Comparison of two treatments for the removal of selected organic micropollutants and bulk organic matter: conventional activated sludge followed by ultrafiltration versus membrane bioreactor

A built-in zero valent iron anaerobic reactor to enhance treatment of azo dye wastewater
Yaobin Zhang, Yanwen Jing, Xie Quan, Yiwen Liu and Pascal Onu

Elimination of NH$_3$ and odor from composting by biotrickling filter and preliminary exploration on molecular biology
Niantao Xue, Qunhui Wang, Chuanfu Wu, Peng Zhao and Weimin Xie

Effect of triclosan on protozoa in wastewater treating bioreactors
B. Krishnakumar, V. N. Anupama, S. Anju and M. Rugminisukumar

Biological decolorization of industrial dyes by Candida tropicalis and Bacillus firmus
Sucharita Arora, Harvinder Singh Saini and Kamaljit Singh

A time-course analysis of four full-scale anaerobic digesters in relation to the dynamics of change of their microbial communities
B. F. G. Pycke, C. Etchebehere, P. Van de Caveye, A. Negroni, W. Verstraete and N. Boon

Rural domestic wastewater treatment in Norway and Poland: experiences, cooperation and concepts on the improvement of constructed wetland technology
A. M. Paruch, T. Mæhlum, H. Obarska-Pempkowiak, M. Gajewska, E. Wojciechowska and A. Ostojić

Practical automatic control of a sequencing batch reactor for toxic wastewater treatment
A. M. Pat, A. Vargas and G. Buitron
Evaluation of on-site wastewater system Escherichia coli contributions to shallow groundwater in coastal North Carolina
C. P. Humphrey Jr, M. A. O’Driscoll and M. A. Zarate

DSC: software tool for simulation-based design of control strategies applied to wastewater treatment plants
M. V. Ruano, J. Ribes, A. Seco and J. Ferrer

Treatability and fate of various phosphorus fractions in different wastewater treatment processes
A. Z. Gu, L. Liu, J. B. Neethling, H. D. Stensel and S. Murthy

Nitrogen recovery from source-separated human urine using clinoptilolite and preliminary results of its use as fertilizer
B. Beler-Baykal, A. D. Allar and S. Bayram

Adsorption of hexavalent chromium on dunite
Antri Demetriou and Ioannis Pashalidis

Demographic projections of future pharmaceutical consumption in the Netherlands
N. G. F. M. van der Aa, G. J. Kommer, J. E. van Montfoort and J. F. M. Versteegh