

Water Science and Technology

Volume 58, Number 1

Contents

- 1 Field performance assessment of onsite individual wastewater treatment systems
N. Moelants, G. Janssen, I. Smets and J. Van Impe
- 7 Development of an ecologically sustainable wastewater treatment system
Lokendra Kumar, Rajiv Ranjan and P. C. Sabumon
- 13 PHA-accumulating microorganisms in full-scale wastewater treatment plants
Mamoru Oshiki, Motoharu Onuki, Hiroyasu Satoh and Takashi Mino
- 21 Challenges with up-scaling dry sanitation technologies
J. N. Bhagwan, D. Still, C. Buckley and K. Foxon
- 29 Comparison of bioreactors with different kinds of submerged packed beds for domestic wastewater treatment
P. Mijaylova Nacheva, G. Moeller Chávez, C. Bustos, M. A. Garzón Zúñiga and Y. Hornelas Orozco
- 37 Simultaneous sewage treatment and electricity generation in membrane-less microbial fuel cell
M. M. Ghangrekar and V. B. Shinde
- 45 Relevant approach to assess performances of wastewater biosolids composting in terms of micropollutants removal
D. Patureau, G. Hernandez-Raquet, P. Balaguer, N. Delgenes, M. Muller, S. Dagnino and J. P. Delgenes
- 53 Four years of development and field-testing of IHE arsenic removal family filter in rural Bangladesh
B. Petrusovski, S. Sharma, W. G. vander Meer, F. Kruis, M. Khan, M. Barua and J. C. Schippers
- 59 Emissions of perfluorinated alkylated substances (PFAS) from point sources—identification of relevant branches
M. Clara, C. Scheffknecht, S. Scharf, S. Weiss and O. Gans
- 67 Investigations and mathematical simulation on decentralized anaerobic treatment of agricultural substrate from livestock farming
M. Wichern, M. Lübken, M. Schlattmann, A. Gronauer and H. Horn
- 73 Rejection of pharmaceuticals and personal care products (PPCPs) and endocrine disrupting chemicals (EDCs) by low pressure reverse osmosis membranes
H. Ozaki, N. Ikejima, Y. Shimizu, K. Fukami, S. Taniguchi, R. Takanami, R. R. Giri and S. Matsui
- 83 A membrane biofilm reactor achieves aerobic methane oxidation coupled to denitrification (AME-D) with high efficiency
O. Modin, K. Fukushi, F. Nakajima and K. Yamamoto
- 89 Odour monitoring of small wastewater treatment plant located in sensitive environment
T. Zarra, V. Naddeo, V. Belgiorno, M. Reiser and M. Kranert

- 95 Efficient nutrient removal from swine manure in a tubular biofilm photo-bioreactor using algae-bacteria consortia
C. González, J. Marciniak, S. Villaverde, C. León, P. A. García and R. Muñoz
- 103 Linking trading ratio with TMDL (total maximum daily load) allocation matrix and uncertainty analysis
H. X. Zhang
- 109 Experimental and modeling investigations of a hybrid upflow anaerobic sludge-filter bed (UASFB) reactor
R. Rajinikanth, I. Ramirez, J. P. Steyer, I. Mehrotra, P. Kumar, R. Escudie and M. Torrijos
- 119 Study of the biological N removal over nitrite in a physico-chemical-biological treatment of digested pig manure in a SBR
J. Dosta, S. López-Palau and J. Mata-Álvarez
- 127 Investigating public health impacts of deer in a protected drinking water supply watershed
K. Cinque, M. A. Stevens, S. R. Haydon, A. R. Jex, R. B. Gasser and B. E. Campbell
- 133 Combined anaerobic digestion and biological nitrogen removal for piggery wastewater treatment: a modelling approach
P. Rousseau, J.-P. Steyer, E. I. P. Volcke, N. Bernet and F. Béline
- 143 Picogram determination of *N*-nitrosodimethylamine in water
Ruikang Hu, Lifeng Zhang and Zhaoguang Yang
- 153 Towards indirect potable reuse in South East Queensland
W. H. Traves, E. A. Gardner, B. Dennien and D. Spiller
- 163 Influence of organic and colloidal fouling on the removal of sulphamethoxazole by nanofiltration membranes
Long Duc Nghiem, Christiane Espendiller and Gerd Braun
- 171 A novel solution for hydroxylated PAHs removal by oxidative coupling reaction using Mn oxide
Ki-Hoon Kang, Dong-Min Lim and Hyun-Sang Shin
- 179 Adsorption kinetics of *Escherichia coli* and *Staphylococcus aureus* on single-walled carbon nanotube aggregates
Venkata K. K. Upadhyayula, Shuguang Deng, Martha C. Mitchell, Geoffrey B. Smith, Vinod K. Nair and Soumitra Ghoshroy
- 185 Optimization of the performance of an integrated anaerobic-aerobic system for domestic wastewater treatment
A. Tawfik, F. El-Gohary, A. Ohashi and H. Harada
- 195 Adsorption of Cd(II), Zn(II) by extracellular polymeric substances extracted from waste activated sludge
Zheng Lei, Tian Yu, Ding Ai-zhong and Wang Jin-sheng
- 201 Enhanced heavy metals removal without phosphorus loss from anaerobically digested sewage sludge
A. Ito, K. Takahashi, J. Aizawa and T. Umita
- 207 Heterogeneous photocatalytic ozonation of 2,4-D in dilute aqueous solution with TiO₂ fiber
R. R. Giri, H. Ozaki, R. Takanami and S. Taniguchi
- 217 Experimental study on municipal and industrial reclaimed wastewater refinement for agricultural reuse
R. Gori and C. Caretti
- 225 Comparing the performance of UASB and GRABBR treating low strength wastewaters
A. S. Shanmugam and J. C. Akunna
- 233 Characterizing denitrification kinetics at cold temperature using various carbon sources in lab-scale sequencing batch reactors
Yalda Mokhayeri, Rumana Riffat, Imre Takacs, Peter Dold, Charles Bott, Jeneva Hinojosa, Walter Bailey and Sudhir Murthy

- 239 Application of excess activated sludge ozonation in an SBR Plant. Effects on substrate fractioning and solids production
M. Naso, A. Chiavola and E. Rolle
- 247 Photocatalytic inactivation of *Flavobacterium* and *E. coli* in water by a continuous stirred tank reactor (CSTR) fed with suspended/immobilised TiO₂ medium
Vered Cohen-Yaniv, Nava Narkis and Robert Armon
- 253 Solar-powered aeration and disinfection, anaerobic co-digestion, biological CO₂ scrubbing and biofuel production: the energy and carbon management opportunities of waste stabilisation ponds
A. N. Shilton, D. D. Mara, R. Craggs and N. Powell
- 259 Effect of temperature on Imidacloprid oxidation by homogeneous photo-Fenton processes
C. Zaror, C. Segura, H. Mansilla, M. A. Mondaca and P. González