Water Science and Technology

Volume 73, Number 2

Contents

223 The application of multi-objective optimization method for activated sludge process: a review
   Hongliang Dai, Wenliang Chen and Xiwu Lu

236 Contaminants of emerging concern in reverse osmosis brine concentrate from indirect/direct water reuse applications
   Travis R. Romeyn, Wesley Harijanto, Sofia Sandoval, Saied Delagah and Mohamadali Sharbatmaleki

251 Drivers for and against municipal wastewater recycling: a review
   Nadja C. Kunz, Manuel Fischer, Karin Ingold and Janet G. Hering

260 Integration of US/Fe\(^{2+}\) and photo-Fenton in sequencing for degradation of landfill leachate
   F. G. Zha, D. X. Yao, Y. B. Hu, L. M. Gao and X. M. Wang

267 Biodegradation of microcystin [Dha\(^{7}\)MC-LR by a novel microcystin-degrading bacterium in an internal airlift loop bioreactor
   Yupin Phujomjai, Anchana Somdee and Theerasak Somdee

275 Kinetic model of water disinfection using peracetic acid including synergistic effects
   Marina J. Flores, Rodolfo J. Brandi, Alberto E. Cassano and Marisol D. Labas

283 Prioritizing sewer rehabilitation projects using AHP-PROMETHEE II ranking method
   Abdelhak Kessili and Saadia Benmamar

292 Investigation of furfural biodegradation in a continuous inflow cyclic biological reactor
   Gholamreza Moussavi, Mostafa Leili and Kazem Nadafi

302 Mass balance and mass loading of polybrominated diphenyl ethers (PBDEs) in a tertiary wastewater treatment plant using
   SBSE-TD-GC/MS
   Beatriz A. Rocha-Gutiérrez, Wen-Yee Lee and W. Shane Walker

309 Poultry slaughterhouse wastewater treatment plant for high quality effluent
   V. Del Nery, M. H. Z. Damianovic, R. B. Moura, E. Pozzi, E. C. Pires and E. Foresti

317 Biotic and abiotic bisphenol-A removal from wastewater by activated sludge: effects of temperature, biomass, and bisphenol-A
   concentrations
   Olcayto Keskinkan and Behzat Balci

329 Boron nitride nanoplates supported zero-valent iron nanocomposites for enhanced decolorization of methyl orange with the
   assistance of ultrasonic irradiation
   Yiming Zha and Tianlin Wang

337 Impact of fine mesh sieve primary treatment on nitrogen removal in moving bed biofilm reactors
   B. Rusten, V. A. Razafimanantsoa, M. A. Andriamiarinjaka, C. L. Otis, A. K. Sahu and T. Bilstad
345 Relationships between sources of acid mine drainage and the hydrochemistry of acid effluents during rainy season in the Iberian Pyrite Belt
   E. Pérez-Ostalé, J. A. Grande, T. Valente, M. L. de la Torre, M. Santisteban, P. Fernández and J. Diaz-Curiel

355 Recovering biomethane and nutrients from anaerobic digestion of water hyacinth (Eichhornia crassipes) and its co-digestion with fruit and vegetable waste
   M. A. Hernández-Shek, L. S. Cadavid-Rodríguez, I. V. Bolaños and A. C. Agudelo-Henao

362 Impacts of urbanization on the prevalence of antibiotic-resistant Escherichia coli in the Chaophraya River and its tributaries
   Ryo Honda, Toru Watanabe, Variga Sawattayotin, Yoshifumi Masago, Rungapa Chulasak, Kulchaya Tanong, G. Tushara Chaminda, Krison Wongsila, Chawala Sienglum, Varisara Sunthonwatthanaphong, Anupong Poonnotok, Wilai Chiemchaisri, Chart Chiemchaisri, Hiroaki Furumai and Kazuo Yamamoto

375 Chemical pretreatment of combined sewer overflows for improved UV disinfection
   J. Gibson, R. Farnood and P. Seto

382 Effects of metal ions on biomass and 5-aminolevulinic acid production in Rhodopseudomonas palustris wastewater treatment
   Shuli Liu, Guangming Zhang, Jianzheng Li, Xiangkun Li and Jie Zhang

389 Ibuprofen removal from aqueous solution by in situ electrochemically generated ferrate(VI): proof-of-principle
   Ljiljana Nikolić-Bujanović, Milan Čekerevac, Milena Tomic and Mladen Zdravković

396 Recycling agriculture wastes of ramie stalk as bioadsorbents for Cd\(^{2+}\) removal: a kinetic and thermodynamic study
   S. Xu, X. F. Gong, H. L. Zou, C. Y. Liu, C. L. Chen and X. X. Zeng

405 Tropical stormwater nutrient degradation using nano-TiO\(_2\) in photocatalytic reactor detention pond
   Saeed Rad, Supiah Shamsudin, Mohd Raihan Taha and Shamsuddin Shahid

414 Control of Microthrix parvicella by aluminium salts addition
   N. Durban, L. Juzan, J. Krier and S. Gillot

423 Comparative studies on adsorptive removal of heavy metal ions by biosorbent, bio-char and activated carbon obtained from low cost agro-residue
   Çisem Kirbıyık, Ayşe Eren Pütün and Ersan Pütün

437 Measuring total mercury due to small-scale gold mining activities to determine community vulnerability in Cihonje, Central Java, Indonesia
   Mega M. Sari, Takanobu Inoue, Yoshitaka Matsumoto and Kuriko Yokota

445 Tylosin effect on methanogenesis in an anaerobic biomass from swine wastewater treatment
   Liliana García-Sánchez, Marco Antonio Garzón-Zúñiga, Gerardo Buelna and Edison Baltazar Estrada-Arriaga