

Contents

- 219 The costs of small drinking water systems removing arsenic from groundwater
Thomas J. Sorg, Lili Wang and Abraham S. C. Chen
- 235 Multi-objective optimisation of the operation of a water distribution network
Michael Mulholland, M. Abderrazak Latifi, Andrew Purdon, Christopher Buckley and Christopher Brouckaert
- 250 Effects of physical disturbances on media and performance of household-scale slow sand (BioSand) filters
Naomi C. Mahaffy, Sarah Dickson, Raymond E. Cantwell, Kayla Lucier and Corinne J. Schuster-Wallace
- 260 Risk-based approach to manage aging urban water main infrastructure
Thewodros G. Mamo
- 270 Flocs' re-growth characteristics in circulation coagulation–membrane filtration process
Jie Wang, Lulu Liu, Hongwei Zhang, Wen Jin Liu and Hui Jia
- 278 NOM removal: evaluating five process alternatives to alum coagulation
Félix Plourde-Lescelleur, Isabelle Papineau, Annie Carrière, Alain Gadbois and Benoit Barbeau
- 290 The Bullwhip effect in water demand management: taming it through an artificial neural networks-based system
Borja Ponte, Laura Ruano, Raúl Pino and David de la Fuente
- 302 Fluid–structure interaction with different coupled models to analyse an accident occurring in a water supply system
Mariana Simão, Jesus Mora and Helena M. Ramos
- 316 Preparation and characterization of nanoporous resin for heavy metal removal from aqueous solution
Imed Ghiloufi, Lotfi Khezami and Lassaad El Mir
- 326 A holistic decision-making framework for selecting domestic piping materials
Juneseok Lee
- 333 Evaluation of activated starch as an alternative to polyacrylamide polymers for drinking water flocculation
Mathieu Lapointe and Benoit Barbeau



- 344 Adsorption kinetics and diffusion of Saxitoxins on granular-activated carbon: influence of pore size distribution
Neuma Maria Silva Buarque, Hugo Leonardo de Brito Buarque and Jose Capelo-Neto
- 354 Generation of daily naturalized flow at ungaged control points
Tae Jin Kim
- 365 Tracer study to verify hydraulic limits and determine water residence times in a distribution system: Part I
François-Julien Delisle, Simon Rochette, Geneviève Pelletier and Manuel J. Rodriguez
- 378 Minimizing water residence time in Quebec City's main distribution network using hybrid discrete dynamically dimensioned search (HD-DDS): Part II
François-Julien Delisle, Simon Rochette, Geneviève Pelletier, Masoud Asadzadeh, Bryan A. Tolson and Manuel J. Rodriguez