Contents

513 Social tariffs for water and waste services in mainland Portugal: an impact analysis
Inês Gonçalves, David Alves and Gisela Robalo

522 Feasibility assessment of surface water disinfection by ultrafiltration
R. Iannelli, S. Ripari, B. Casini, A. Buzzigoli, G. Privitera, M. Verani and A. Carducci

532 Comparison of sand and membrane filtration as non-chemical pre-treatment strategies for pesticide removal with nanofiltration/low pressure reverse osmosis membranes
Krzysztof P. Kowalski, Henrik T. Madsen and Erik G. Søgaard

540 The formation kinetics of haloacetonitriles and halonitromethanes during chloramination
Yi-Hsueh Chuang and Hsin-hsin Tung

547 Molecular characterization of dissolved organic matter in various urban water resources using Orbitrap Fourier transform mass spectrometry
M. Urai, I. Kasuga, F. Kurisu and H. Furumai

554 Photocatalytic removal of nitrate using TiO$_2$/polyacrylonitrile nanofiber membrane synthesized by co-electrospinning process
S. P. Suriyaraj, M. Benasir Begam, S. G. Deepika, P. Biji and R. Selvakumar

561 What does rebounding water use look like? An examination of post-drought and post-flood water end-use demand in Queensland, Australia
C. D. Beal, A. Makki and R. A. Stewart

569 Rainwater harvesting in urban areas: how can foreign experiences enhance the French approach?
B. de Gouvello, A. Gerolin and N. Le Nouveau

577 Comparison of anion exchange resins and aluminum-based coagulants for natural organic matter (NOM) removal and disinfection by-product (DBP) formation
Elizabeth A. Crafton, Danyang Wu and Stephen E. Duirk

585 Performance of a permeable reactive barrier for in situ removal of ammonium in groundwater
Guohua Hou, Fei Liu, Mingzhu Liu, Xiangke Kong, Shengpin Li, Liang Chen, Patricia J. S. Colberg, Song Jin and Honghan Chen

593 A simple forecast technique for estimating the statistical characteristics of water consumption
József Bene, Dávid Bóka, Csaba Hős and Varga Roxána

601 Long-term effects of hydrometeorological and water quality conditions on algal dynamics in the Paldang dam watershed, Korea
D.-W. Kim, J.-H. Min, M. Yoo, M. Kang and K. Kim
609   Flocculation performance of magnetic particles with high-turbidity surface water
J. Lohwacharin, A. Phetrak, K. Oguma and S. Takizawa

618   A new approach to improve water loss control using smart metering data
D. Loureiro, H. Alegre, S. T. Coelho, A. Martins and A. Mamade

626   A compact reactor system for processing grey water and its reutilization for flushing toilet bowls
Janez Vrtovšek, Magda Cotman and Albin Pintar

634   Applying reliability analysis to evaluate water treatment plants

643   Influence of operating parameters on the performance of a household slow sand filter
Abhilash T. Nair, M. Mansoor Ahammed and Komal Davra

650   Control of trichloramine formation by two-step chlorination in water purification processes
K. Kosaka, N. Kobashigawa, R. Nakamura, M. Asami, S. Echigo and M. Akiba

657   A bio-thermic seawater desalination system using halophytes
Christian Finck

664   Assessing the viability of microhydropower generation from the stormwater flow of the detention outlet in an urban area
Norashikin Ahmad Kamal, Heekyung Park and Sangmin Shin

672   Biodegradation of the cyanobacterial hepatotoxin [Dha7] microcystin-LR within a biologically active sand filter
Theerasak Somdee, Jindawan Wibuloutai, Thidarat Somdee and Anchana Somdee

681   Organic matter removal and disinfection byproduct management in South East Queensland’s drinking water

690   Riverbank filtration and managed aquifer recharge as alternative water supply technologies for India: strengths–weaknesses–opportunities–threats analysis
L. Essl, M. Starkl, P. C. Kimothi, C. Sandhu and T. Grischek

698   Tools to improve the management of transboundary river basins for disaster risk reduction
Anna Rubert and Philip Beetlestone

708   Energy efficiency in water distribution systems – a path to an ideal network: AGS experience
J. Feliciano, R. Almeida, A. Santos, A. Ganhão, D. Covas and H. Alegre