Water Science and Technology

Volume 84, Number 7

Contents

1557 The importance of organic carbon as a coadjutant in the transport of pollutants
Juliana Pisa Grudzien Iubel, Sérgio Michelotto Braga and Maria Cristina Borba Braga

1566 Modelling the effect of rainfall patterns on the runoff control performance of permeable pavements
Shuo Chen, Daming Li, Shilong Bu and Yanqing Li

1579 Whole cell microalg-cyanobacterial array biosensor for monitoring Cd, Cr and Zn in aquatic systems
I. V. N. Rathnayake, Thilini Munagamage, A. Pathirathne and Mallavarapu Megharaj

1594 Removal of multiple metal ions from wastewater by a multifunctional metal-organic-framework based trap
Rong Nie, Cailing Yang, Jing Zhang, Kun Dong and Guohu Zhao

1608 Effect of fouling resistance in heat exchanger and the crystal form of CaCO₃ in hard circulating cooling water with electrostatic field and alternating current electric field
Jing Xu, Ju-Dong Zhao, Yun Jia, Ting Li, Shuai-Bing Yang and Zhi-Hao Zhang

1623 Chronic toxicity and environmental risk assessment of antivirals in Ceriodaphnia dubia and Raphidocelis subcapitata
L. C. Almeida, A. C. Mattos, C. P. G. Dinamarco, N. G. Figueiredo and D. M. Bila

1635 Adsorption modeling of organic compounds (OCs) by carbon nanotubes (CNTs): role of OC and CNT properties on the linear solvation energy relationship
Gamze Ersan

1648 Removal of microplastics from wastewater through electrocoagulation-electroflotation and membrane filtration processes
Ceyhun Akarsu, Halil Kumbur and Ahmet Erkan Kideys

1663 Investigating the role of the morphology of the Zn-Al LDH on the adsorption of humic acid from aqueous solutions
Hamid Khoshalhan Davoudli, Solmaz Saadat, Mansour Rahsepar and Fatemeh Azadi

1678 Production and modification of hydrochar from anaerobically digested cattail for adsorbing ammonium and phosphorous in wastewater
Sanjaya Ghimire, Lijun Wang, Bo Zhang, Xin Li and Abolghasem Shahbazi

1693 Effect of biochar particles applied in bedding course of the innovative permeable pavement on enhancing nitrogen removal
Yue Qi, Yong Liu, Duan-yang Qiu and Tian Li

1704 Assessment of the performance of intermittent planted filters in treating urban wastewater under arid climate
Hiba Tliili, Mahmoud Balli and Rachid Boukchina
1715 Urban stormwater nutrient and metal removal in small-scale green infrastructure: exploring engineered plant biofilter media optimisation
D. M. Jacklin, I. C. Brink and S. M. Jacobs

1732 Quantitative detection of human- and canine-associated Bacteroides genetic markers from an urban coastal lagoon
Serhat A. Yasar, Toby J. T. Mills, Zehra I. Uluturk, Jason M. S. Ruszczyk, Rebecca J. LeBard and Brett A. Neilan

1745 Study on pollution characteristics of urban pavement runoff
Guoping Qian, Jingyu Zhang, Xi Li, Huanan Yu, Xiangbing Gong and Juyong Chen

1757 Selective adsorption of phosphate by carboxyl-modified activated carbon electrodes for capacitive deionization
Luwei Miao, Wenyang Deng, Xiaohong Chen, Ming Gao, Wenqing Chen and Tianqi Ao

1774 Mechanistic insights into the adsorption of methylene blue by particulate durian peel waste in water
Hanggara Sudrajat, Ari Susanti, Ditta Kharisma Yolanda Putri and Sri Hartuti

1793 Submerged membrane filtration process coupled with powdered activated carbon for nonylphenol ethoxylates removal
Phuoc-Dan Nguyen, Thi-Minh-Tam Le, Thi-Kim-Quyen Vo, Phuong-Thao Nguyen, Thi-Dieu-Hien Vo, Bao-Trong Dang, Nguyen-Thanh Son, Dinh Duc Nguyen and Xuan-Thanh Bui

1804 Determination of kinetic coefficients for treating synthetic oily wastewater in suspended growth batch fed reactor
P. Sanghamitra, Debabrata Mazumder and Somnath Mukherjee

1813 Comparison of photocatalytic activity of ZnO, Ag-ZnO, Cu-ZnO, Ag, Cu-ZnO and TPPS/ZnO for the degradation of methylene blue under UV and visible light irradiation
Mahboubeh Rabbani, Javad Shokraiyan, Rahmatollah Rahimi and Rezvaneh Amrollahi