Contents

Sustainable eco-technologies for water and wastewater treatment

617 Editorial: Sustainable eco-technologies for water and wastewater treatment
   Eldon R. Rene, Li Shu and Veeriah Jegatheesan

623 Technogenic metallic elements in biomass and their effects on biomass product properties
   Edita Baltrénaitė, Pranas Baltrėnas and Donald Huisingh

645 Bacterial community analysis of sulfate-reducing granular sludge exposed to high concentrations of uranium
   Taotao Zeng, Shiqi Zhang, Wei Liao, Hualong Ma, Piet N. L. Lens and Shuibo Xie

655 Removal of cyanotoxins in drinking water using ozone and ozone-hydrogen peroxide (peroxone)
   Guhankumar Ponnusamy, Lijo Francis, Kavithaa Loganathan, Oluwaseun O. Ogunbiyi, Saad Jasim and Jayaprakash Satthasivam

666 Photocatalytic degradation of Irgalite violet dye using nickel ferrite nanoparticles
   Shiljashree Vijay, Raj Mohan Balakrishnan, Eldon R. Rene and Uddandarao Priyanka

675 Decolorization of Reactive Blue 220 aqueous solution using fungal synthesized Co3O4 nanoparticles
   Riya Sidhikku Kandath Valappil, Ajuy Sundar Vijayanandan and Raj Mohan Balakrishnan

687 Anthropogenic markers for source tracking of fecal contamination in Bayou Lafourche: a major drinking water source in Southeast Louisiana, USA
   Stacy Martinez, Marilyn Kilgen, Angie Corbin, Rajkumar Nathaniel, Balaji Ramachandran and Raj Boopathy

708 Assessment of drinking water quality in regional New South Wales, Australia
   S. T. M. L. D. Seneviratha, Andrea M. Goncher and Aaron Hollier

718 Stress response and toxicity studies on zebrafish exposed to endosulfan and imidacloprid present in water
   Barzah Muazzam, Kashif Munawar, Imtiaz Ahmad Khan, Sarwat Jahan, Mazhar Iqbal, Muhammad Rafique Asi, Abida Farooqi, Adila Nazli, Ijaz Hussain and Mazhar Iqbal Zafar
731 Phytoremediation of nitrate contaminated water using ornamental plants
S. Shyamala, N. Arul Manikandan, Kannan Pakshirajan, Van Tai Tang, Eldon R. Rene,
Hung-Suck Park and Shishir Kumar Behera

744 Design and operation of submerged layer in bioretention for enhanced nitrate removal
Junyu Zhang, Rajendra Prasad Singh, Yunzhe Liu and Dafang Fu

757 Experimental study on filter media using locally available materials in bioretention
Feikai Yang, Rajendra Prasad Singh and Dafang Fu

769 Nitrogen removal performance of microbial fuel cell enhanced bioretention system
Yajun Wang, Rajendra Prasad Singh, Junyu Zhang, Yan Xu and Dafang Fu

782 Removal of low-concentration phosphorus by efficient phosphorus removal composite-based ecological floating beds
Yan Liu, Juanjuan Lv and Rajendra Prasad Singh

793 Endogenous respiration process analysis between aMBR and UV/O3-aMBR for polluted surface water treatment
Lu Li, Kang Song and Chettiyappan Visvanathan

803 Optimization method for joint operation of a double-reservoir-and-double-pumping-station system: a case study of Nanjing, China
Zhihao Gong, Xiaohong Jiang, Jilin Cheng, Yi Gong, Xing Chen and Haomiao Cheng

816 Economic and environmental impact analysis of ammoniacal nitrogen removal from landfill leachate using sequencing batch reactor: a case study from Czech Republic
R. Badri Narayan, B. I. Zargham, Audrey Ngambia and Arlieza R. Riyanto

829 Remediation of groundwater contamination from an old, non-functional landfill in Hořkovec open cast mine, Czech Republic
Adyl Anvarov, Adelaida Pelaez Angel, Beatriz Felices Rando and Jimena Lazaro Gil