

# Water Science and Technology

Volume 79, Number 8

## Contents

- 1437 Optimized anti-biofouling performance of bactericides/cellulose nanocrystals composites modified PVDF ultrafiltration membrane for micro-polluted source water purification  
**Guoquan Zhang, Jinling Lv and Fenglin Yang**
- 1447 Removal of metals from water using a novel high-rate algal pond and submerged macrophyte pond treatment reactor  
**Yuhui Wang, Xinshan Song, Hongwei Li and Yi Ding**
- 1458 Adsorption behaviors of methylene blue on sunflower stem pith  
**Xiangyao Liu, Baohui Wang, Guolin Jing and Ya'nan Sun**
- 1467 Microbial ecological processes in MBBR biofilms for biological phosphorus removal from wastewater  
**Knut Rudi, Inger Andrea Goa, Torgeir Saltnes, Gjermund Sørensen, Inga Leena Angell and Sondre Eikås**
- 1474 Analysis of carbon sink effects for saline constructed wetlands vegetated with mangroves to treat mariculture wastewater and sewage  
**Lei Yang and Chung-Shin Yuan**
- 1484 Preparation and characterization of Ca(II) cross-linking modified pectin microspheres for Pb(II) adsorption  
**Fen Li, Zhao Xu, Xiaoyan Wen, Xiaoyong Li, Yanhong Bai and Jianjun Li**
- 1494 A facile one-pot preparation of Bi<sub>2</sub>O<sub>2</sub>CO<sub>3</sub>/g-C<sub>3</sub>N<sub>4</sub> composites with enhanced photocatalytic activity  
**Yongzheng Duan, Haibo Yao, Jing Li, Xili Shang, Dongmei Jia and Changhai Li**
- 1503 How to avoid evaporation during rheological measurements of dewatered pasty sludge at high temperature  
**M. Mouzaoui, J. C. Baudez, M. Sauceau and P. Arlabosse**
- 1511 Two physical processes enhanced the performance of *Auricularia auricula* dreg in Cd(II) adsorption: composting and pyrolysis  
**Yue Li, Siqi Huang, Yingnan Wei, Xuesheng Liu, Meng Zhang, Zonghui Jin, Hongmei Wang and Juanjuan Qu**
- 1527 Variation of wastewater contaminants in China and source identification using hierarchical clustering based on weighted factor scores  
**Haoxiang Liao, Xiqian Huang, Jingjing Feng, Deming Han, Yong Zhou, Xiaojia Chen and Jinping Cheng**
- 1534 Modelling biofilm anaerobic reactor with effluent from hydrolytic/acidogenic reactor as substrate  
**Marisol Vergara Mendoza and Rodrigo Torres Sáez**
- 1541 Adsorption and desorption of crystal violet and basic red 9 by multi-walled carbon nanotubes  
**Xian Chen and Ching-Ju Monica Chin**



- 1550 Fate of two strains of extended-spectrum beta-lactamase producing *Escherichia coli* in constructed wetland microcosm sediments: survival and change in antibiotic resistance profiles  
**Anne-Laure Vivant, Catherine Boutin, Stéphanie Prost-Boucle, Sandrine Papias, Christine Ziebal and Anne-Marie Pourcher**
- 1561 Insights into the mechanism of methylene blue removed by novel and classic biochars  
**Wei Chen, Fengting Chen, Bin Ji, Lin Zhu and Hongjiao Song**
- 1571 The equilibrium and fixed-bed study of malachite green adsorption on chitosan hydrogels  
**X. H. Song, K. L. Goh and K. Wang**
- 1580 Electrodialysis-based zero liquid discharge in industrial wastewater treatment  
**Jan Havelka, Hana Fárová, Tomáš Jiříček, Tomáš Kotala and Jan Kroupa**
- 1587 Immobilization of cesium-resistant bacterial cells by radiation polymerization and their bioremoval efficiency  
**Rita Singh, Kirti Shitiz and Antaryami Singh**
- 1597 Impact of biotic interactions on the survival of emerging pathogen *Acinetobacter baumannii* in aquatic media  
**Svjetlana Dekić, Jasna Hrenović, Holger Herlyn, Maria Špoljar and Tomislav Ivanković**
- 1605 How does greywater separation impact the operation of conventional wastewater treatment plants?  
**Carlo Morandi and Heidrun Steinmetz**
- 1616 Full-scale comparison of N<sub>2</sub>O emissions from SBR N/DN operation versus one-stage deammonification MBBR treating reject water – and optimization with pH set-point  
**L. Kanders, J-J. Yang, C. Baresel and J. Zambrano**