

## NEWS & FOCUS

- 17** China's Ministry of Environmental Protection  
Adopted Draft Amendment to the Law on  
Prevention and Control of Water Pollution  
**Fu Sun, Yi Liu**

## FEATURE ARTICLE

- 1** Life cycle assessment of low impact development  
technologies combined with conventional  
centralized water systems for the City of Atlanta,  
Georgia

**Hyunju Jeong, Osvaldo A. Broesicke,  
Bob Drew, Duo Li, John C. Crittenden**

- 6** Engineering practice of mechanical soil aeration  
for the remediation of volatile organic compound-  
contaminated sites in China: advantages and  
challenges

**Yan Ma, Xiaoming Du, Yi Shi,  
Deyi Hou, Binbin Dong, Zhu Xu,  
Huiying Li, Yunfeng Xie, Jidun Fang,  
Zheng Li, Yunzhe Cao, Qingbao Gu,  
Fasheng Li**

## REVIEW

- 2** Recent advances in pharmaceuticals and personal  
care products in the surface water and sediments in  
China

**Wentao Zhao, Ying Guo, Shuguang Lu,  
Pingping Yan, Qian Sui**

**9** Improved blending strategy for membrane modification by virtue of surface segregation using surface-tailored amphiphilic nanoparticles

**Shuai Liang, Peng Gao, Xiaoqi Gao, Kang Xiao, Xia Huang**

**8** Functional magnetic nanoparticles for facile viable but nonculturable bacteria separation and purification

**Chunming Wang, Huirong Lin, Chengsong Ye**

**7** Assessment of pollution of potentially harmful elements in soils surrounding a municipal solid waste incinerator, China

**Ying Han, Huiting Xie, Wenbin Liu, Haifeng Li, Mengjing Wang, Xuebin Chen, Xiao Liao, Nan Yan**

**5** Catalytic hydrolysis of gaseous HCN over Cu–Ni/ $\gamma$ - $\text{Al}_2\text{O}_3$  catalyst: parameters and conditions

**Linxia YAN, Senlin TIAN, Jian ZHOU, Xin YUAN**

**4** Impact of roxarsone on the UASB reactor performance and its degradation

**Mengchuan Shui, Feng Ji, Rui Tang, Shoujun Yuan, Xinmin Zhan, Wei Wang, Zhenhu Hu**

**3** Removing ammonia from air with a constant pH, slightly acidic water spray wet scrubber using recycled scrubbing solution

**Ahmad Kalbasi Ashtari, Amir M. Samani Majd, Gerald L. Riskowski, Saqib Mukhtar, Lingying Zhao**

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## RESEARCH ARTICLE

- 16** Effect of salinity on community structure and naphthalene dioxygenase gene diversity of a halophilic bacterial consortium  
**Tingting Fang, Ruisong Pan, Jing Jiang, Fen He, Hui Wang**
- 15** Photochemical indicators of ozone sensitivity: application in the Pearl River Delta, China  
**Lyumeng Ye, Xuemei Wang, Shaofeng Fan, Weihua Chen, Ming Chang, Shengzhen Zhou, Zhiyong Wu, Qi Fan**
- 14** Red soil for sediment capping to control the internal nutrient release under flow conditions  
**Lei Xia, Guo Liu, Chunmei Chen, Meiyang Wen, Yangyang Gao**
- 13** Ambient photolysis frequency of NO<sub>2</sub> determined using chemical actinometer and spectroradiometer at an urban site in Beijing  
**Qi Zou, Keding Lu, Yusheng Wu, Yudong Yang, Zhuofei Du, Min Hu**
- 12** Flow cytometric assessment of the effects of chlorine, chloramine, and UV on bacteria by using nucleic acid stains and 5-cyano-2,3-ditolytetrazolium chloride  
**Xuebiao Nie, Wenjun Liu, Mo Chen, Minmin Liu, Lu Ao**
- 11** U-shaped microRNA expression pattern could be a new concept biomarker for environmental estrogen  
**Rui Duan, Yun Lu, Lingyan Hou, Lina Du, Lequn Sun, Xingfan Tang**
- 10** Benzene degradation in waste gas by photolysis and photolysis-ozonation: experiments and modeling  
**Fariba Mahmoudkhani, Maryam Rezaei, Vahid Asili, Mahasadat Atyabi, Elena Vaisman, Cooper H. Langford, Alex De Visscher**