

## Environmental Chemistry

- 1 **Biwu CHU, Jiming HAO, Junhua LI, Hideto TAKEKAWA, Kun WANG, Jingkun JIANG**  
Effects of two transition metal sulfate salts on secondary organic aerosol formation in toluene/NO<sub>x</sub> photooxidation
- 10 **Qiang WANG, Lijuan ZHAO, Xuekun FANG, Jianhua XU, Yifan LI, Yehong SHI, Jianxin HU**  
Gridded usage inventories of chlordane in China
- 19 **Jingui WANG, Jialong LV, Yaolong FU**  
Effects of organic acids on Cd adsorption and desorption by two anthropic soils
- 31 **Tingting MA, Ying TENG, Peter CHRISTIE, Yongming LUO, Yongshan CHEN, Mao YE, Yujuan HUANG**  
A new procedure combining GC-MS with accelerated solvent extraction for the analysis of phthalic acid esters in contaminated soils

## Environmental Biology

- 43 **Hongyan LI, Yu ZHANG, Min YANG, Yoichi KAMAGATA**  
Effects of hydraulic retention time on nitrification activities and population dynamics of a conventional activated sludge system
- 49 **Huining ZHANG, Xiaohu Zhang, Shuting ZHANG, Bo WEI, Qipei JIANG, Xin YU**  
Detecting *Cryptosporidium parvum* and *Giardia lamblia* by coagulation concentration and real-time PCR quantification

## Environmental Monitoring

- 55 **Can DONG, Lingxiao YANG, Chao YAN, Qi YUAN, Yangchun YU, Wenxing WANG**  
Particle size distributions, PM<sub>2.5</sub> concentrations and water-soluble inorganic ions in different public indoor environments: a case study in Jinan, China

(contents continued on inside back cover)

(contents continued from outside back cover)

- 66 **Qin WANG, Chunmei GENG, Sihua LU, Wentai CHEN, Min SHAO**  
Emission factors of gaseous carbonaceous species from residential combustion of coal and crop residue briquettes

### **Environmental Toxicity**

- 77 **Nannan LIU, Mei MA, Yiping XU, Jinmiao ZHA, Kaifeng RAO, Zijian WANG**  
Susceptibility of male and female Japanese medaka (*Oryzias latipes*) to 2,4,6-trichlorophenol-induced micronuclei in peripheral erythrocytes
- 85 **Kun ZHANG, Jianbing WANG, Zhongyi YANG, Guorong XIN, Jiangang YUAN, Junliang XIN, Charlie HUANG**  
Genotype variations in accumulation of cadmium and lead in celery (*Apium graveolens* L.) and screening for low Cd and Pb accumulative cultivars

### **Environmental Policy and Management**

- 97 **Sai LIANG, Tianzhu ZHANG, Xiaoping JIA**  
Clustering economic sectors in China on a life cycle basis to achieve environmental sustainability
- 109 **Ganga Ram Maharjan, Youn Shik Park, Nam Won Kim, Dong Seok Shin, Jae Wan Choi, Geun Woo Hyun, Ji-Hong Jeon, Yong Sik Ok, Kyoung Jae Lim**  
Evaluation of SWAT sub-daily runoff estimation at small agricultural watershed in Korea
- 120 **Ken USHIJIMA, Mitsuteru IRIE, Neni SINTAWARDANI, Jovita TRIASTUTI, Umi HAMIDAH, Tadaharu ISHIKAWA, Naoyuki FUNAMIZU**  
Sustainable design of sanitation system based on material and value flow analysis for urban slum in Indonesia

### **Environmental Pollution Control**

- 127 **Dandan ZHOU, Shuangshi DONG, Keyu LI, Huizhong JIANG, Dandan SHANG**  
Suspended solid abatement in a conical fluidized bed flocculator
- 135 **Shijian GE, Yongzhen PENG, Congcong LU, Shuying WANG**  
Practical consideration for design and optimization of the step feed process
- 143 **Gefu ZHU, Chaoxiang LIU, Jianzheng LI, Nanqi REN, Lin LIU, Xu HUANG**  
Fermentative hydrogen production from beet sugar factory wastewater treatment in a continuous stirred tank reactor using anaerobic mixed consortia