

Improving yield and nitrogen use efficiency simultaneously for maize and wheat in China: A review MENG Qingfeng, YUE Shanchao, HOU Peng, CUI Zhenling and CHEN Xinping .....	137
Factors affecting phytoextraction: A review Vimla SHEORAN, Attar Singh SHEORAN and Poonam POONIA .....	148
Reconstruction of soil particle composition during freeze-thaw cycling: A review ZHANG Ze, MA Wei, FENG Wenjie, XIAO Donghui and HOU Xin .....	167
Surface amendments can ameliorate subsoil acidity in tea garden soils of high-rainfall environments WANG Lei, Clayton R. BUTTERLY, CHEN Qihui, MU Zhibo, WANG Xia, XI Yunguan, ZHANG Jibing and XIAO Xingji .....	180
Cover crop and irrigation effects on soil microbial communities and enzymes in semiarid agroecosystems of the Central Great Plains of North America Francisco J. CALDERÓN, David NIELSEN, Veronica ACOSTA-MARTÍNEZ, Merle F. VIGIL and Drew LYON .....	192
Can nonexchangeable potassium be differentiated from structural potassium in soils? WANG Huoyan, CHENG Wei, LI Ting, ZHOU Jianmin and CHEN Xiaoqin .....	206
Soil microbial community-level physiological profiling as related to carbon and nitrogen availability under different land uses María Celina ZABALOY, Jay L. GARLAND, Marco ALLEGRIANI and Elena del Valle GOMEZ .....	216
Effects of slope aspects on soil bacterial and arbuscular fungal communities in a boreal forest in China CHU Haiyan, XIANG Xingjia, YANG Jian, Jonathan M. ADAMS, ZHANG Kaoping, LI Yuntao and SHI Yu .....	226
Effects of elevated CO <sub>2</sub> on the growth and macronutrient (N, P and K) uptake of annual wormwood ( <i>Artemisia annua</i> L.) ZHU Chunwu, ZENG Qilong, YU Hongyan, LIU Shengjin, DONG Gangqiang and ZHU Jianguo .....	235
Effects of different land-use types on soil erosion under natural rainfall in the Loess Plateau, China FENG Qiang, ZHAO Wenwu, WANG Jun, ZHANG Xiao, ZHAO Mingyue, ZHONG Lina, LIU Yuanxin and FANG Xuening .....	243
Microbial biomass dynamics in a tropical agroecosystem: Influence of herbicide and soil amendments Alka SINGH, Mahesh Kumar SINGH and Nandita GHOSHAL .....	257
Biochar effect on water evaporation and hydraulic conductivity in sandy soil ZHANG Jun, CHEN Qun and YOU Changfu .....	265