Journal of Arid Land

干旱区科学

Vol. 14 No. 4 April 2022 (Monthly)



Sponsored by

- (S) Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences
- Science Press
- China Society of Natural Resources

Contents

Volume 14, Number 4, 30 April 2022

Research article

359 Impact of rainfed and irrigated agriculture systems on soil carbon stock under different climate scenarios in the semi-arid region of Brazil

Andr éL CARVALHO, Renato A ARAÚJO-NETO, Guilherme B LYRA, Carlos E P CERRI, Sto écio M F MAIA

374 Effects of mixed-based biochar on water infiltration and evaporation in aeolian sand soil

ZOU Yiping, ZHANG Shuyue, SHI Ziyue, ZHOU Huixin, ZHENG Haowei, HU Jiahui, MEI Jing, BAI Lu, JIA Jianli

390 Scenario simulation of water retention services under land use/cover and climate changes: a case study of the Loess Plateau, China

SUN Dingzhao, LIANG Youjia, PENG Shouzhang

411 Study of the intensity and driving factors of land use/cover change in the Yarlung Zangbo River, Nyang Qu River, and Lhasa River region, Qinghai-Tibet Plateau of China

LUO Jing, XIN Liangjie, LIU Fenggui, CHEN Qiong, ZHOU Qiang, ZHANG Yili

426 Application of the InVEST model for assessing water yield and its response to precipitation and land use in the Weihe River Basin, China

WU Changxue, QIU Dexun, GAO Peng, MU Xingmin, ZHAO Guangju

441 Spatial variability between glacier mass balance and environmental factors in the High Mountain Asia

ZHANG Zhen, GU Zhengnan, Hu Kehong, XU Yangyang, ZHAO Jinbiao

455 Glacier mass balance and its impacts on streamflow in a typical inland river basin in the Tianshan Mountains, northwestern China

PENG Jiajia, LI Zhongqin, XU Liping, MA Yuqing, LI Hongliang, ZHAO Weibo, FAN Shuang

The cover photo was taken by Mr. YANG Jun.

Abstracted/indexed by: Science Citation Index Expanded, Current Contents/Agriculture, Biology & Environmental Sciences, Scopus, Cambridge Science Abstract, VINITI Abstracts Journal, Centre for Agriculture and Bioscience Abstracts, Index Copernicus, Ulrich's Periodicals Directory, Japan Science and Technology Agency, GeoRef, Chinese Science Citation Database, Chinese Scientific and Technical Papers and Citation Database, and China Academic Journals Integrated Online Database.