

QK1942289



生态学报

ACTA ECOLOGICA SINICA

第39卷 第18期 Vol. 39 No. 18 2019

ISSN 1000-0933 CN 11-2031/Q



中国生态学会
中国科学院生态环境研究中心
万方数据

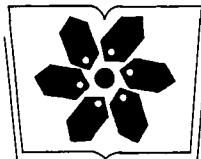
主办



科学出版社
Science Press

出版

万方知库
Eco-Environmental
Knowledge Web



中国科学院科学出版基金资助出版

生态学报

(SHENTAI XUEBAO)

第39卷 第18期 2019年9月 (半月刊)

目 次

专论与综述

- 中国喀斯特生态保护与修复研究进展 何霄嘉, 王磊, 柯兵, 等 (6577)
干旱区包气带土壤水分运移能量关系及驱动力研究评述 周宏 (6586)

研究论文

- 黄土丘陵区植被恢复的土壤碳水效应 冯棋, 杨磊, 王晶, 等 (6598)
青藏高原东北缘黄土区典型立地人工林分土壤水分特性研究 林莎, 王莉, 李远航, 等 (6610)
长期氮添加对亚热带森林土壤微生物碳源代谢多样性的影响 刁婵, 鲁显楷, 田静, 等 (6622)
基于大型底栖无脊椎动物完整性指数的鄱阳湖湿地生态健康评价 游清徽, 刘玲玲, 方娜, 等 (6631)
氢氧同位素示踪法探测新疆地区防护林和棉花体系水分来源与竞争 郭辉, 赵英, 蔡东旭, 等 (6642)
高山森林林窗和粗木质残体对木生苔藓生物量和多样性的影响 汪沁, 杨万勤, 吴福忠, 等 (6651)
小兴安岭天然针阔混交林主要树种空间格局及其关联性 兰航宇, 段文标, 陈立新, 等 (6660)
高寒草甸植物物候对温度变化的响应 李晓婷, 郭伟, 倪向南, 等 (6670)
永定河流域官厅水库南岸典型林分土壤饱和导水率研究 张一璇, 史常青, 杨浩, 等 (6681)
湖南省阳明山山顶苔藓矮林优势种空间分布格局 陈艳华, 龙岳林, 彭重华 (6690)
川西平原灌区不同水旱轮作模式周年土壤呼吸特征 傅勇, 王淘, 杨志平, 等 (6701)
不同土地利用方式下酚酸物质与土壤微生物群落的关系 及利, 杨雨春, 王君, 等 (6710)
黄淮海平原农业景观非农生境植物功能群特征分析 卢训令, 刘俊玲, 汤茜, 等 (6721)
冀北山区滦平县4种新造林地水源涵养能力研究 杨建伟, 杨建英, 何会宾, 等 (6731)
不同密度樟树(*Cinnamomum camphora*)幼苗生长和叶片性状对氮磷添加的响应
..... 林婉奇, 蔡金桓, 薛立 (6738)
干旱区不同地理种群骆驼刺元素组成及表面结构特征的对比研究 尹辉, 张波, 荆瑞雪, 等 (6745)
施氮和减水对中亚热带壳斗科三种幼树生物量及其分配的影响 常宏, 杨洪国, 赵广东, 等 (6753)
毛白杨树干呼吸及其温度敏感性季节变化特征 刘亮, 李菲, 郭丽丽, 等 (6762)
辽宁省地表温度时空变化及影响因素 张威, 纪然 (6772)
陕西黄土台塬近三十年耕地动态变化的表层土壤有机碳效应 张萌萌, 刘梦云, 常庆瑞, 等 (6785)
微尺度下城市公园人造绿地土壤水分的时空分异格局及其驱动机制 刘雅莉, 杜剑卿, 李峰, 等 (6794)
北京城市与西北远郊地表臭氧浓度梯度移动监测研究 张红星, 韩立建, 任玉芬, 等 (6803)
能源对北京市城市碳循环的影响 邱莎, 曹飞飞, 唐明方, 等 (6816)
建设项目引发的区域生态变化的遥感评估——以敖江流域为例 施婷婷, 徐涵秋, 孙凤琴, 等 (6826)
陕北安塞县生态与经济系统耦合协调发展 马亚亚, 刘国彬, 张超, 等 (6840)

- 东江流域景观格局演变分析及变化预测 吕乐婷, 张杰, 彭秋志, 等 (6850)
热环境视角下的最小生态安全距离——以大连北三市为例 杨俊, 白世豪, 金翠, 等 (6860)
喀斯特生态脆弱区贫困化时空动态特征与影响因素——以贵州省为例
..... 夏四友, 赵媛, 文琦, 等 (6869)
中国碳排放权交易政策对地区清洁生产意愿的影响 陆文聪, 谢昌财 (6880)
内蒙古贺兰山国家级自然保护区荒漠沙蜥春秋季生境选择 谭孟雨, 隋璐璐, 张尚明玉, 等 (6889)
岛屿生境下黄毛鼠种群的遗传变异 刘小丽, 孙佼, 韩金巧, 等 (6898)
广西弄岗黑叶猴栖息地选择与利用 陈婷, 黄中豪, 黄乘明, 等 (6908)
黄喉拟水龟对冬眠期间急性高温胁迫的氧化应激响应 陈威, 胡小瑜, 蒋柳阳, 等 (6916)
小黑山岛人工鱼礁区许氏平鲉和大泷六线鱼的营养生态位研究 盖珊珊, 赵文溪, 宋静静, 等 (6923)
茶园卵形短须螨的优势种天敌研究 周夏芝, 张书平, 余燕, 等 (6932)
- 学术信息与动态**
- 自然衰退“史无前例”, 物种灭绝率“加速”——IPBES 全球评估报告简述 ... 侯焱臻, 赵文武, 刘焱序 (6943)
基于文献计量分析的区域生态安全研究热点与趋势 王耕, 周腾禹 (6950)

期刊基本参数: CN 11-2031/Q * 1981 * m * 16 * 382 * zh * P * ￥90.00 * 1510 * 39 * 2019-09



封面彩图提供: 徐卫华 中国科学院生态环境研究中心 E-mail: xuweihua@rcees.ac.cn

ACTA ECOLOGICA SINICA Vol.39, No.18 September, 2019 (Semimonthly)
CONTENTS

Review and Monograph

- Progress on ecological conservation and restoration for China Karst HE Xiaojia, WANG Lei, KE Bing, et al (6577)
Review of studies on the relationship between soil water movement and energy and their driving forces in the vadose zone of arid regions ZHOU Hong (6586)

Research Paper

- Response of soil moisture and soil organic carbon to vegetation restoration in deep soil profiles in Loess Hilly Region FENG Qi, YANG Lei, WANG Jing, et al (6598)
Soil moisture characteristics of typical standing artificial forests in loess area of the northeastern Tibetan Plateau LIN Sha, WANG Li, LI Yuanhang, et al (6610)
Effects of long-term nitrogen addition on the metabolic diversity of microbial carbon sources in subtropical forest soils DIAO Chan, LU Xiankai, TIAN Jing, et al (6622)
Assessing ecological health of Poyang Lake wetland, using benthic macroinvertebrate-based index of biotic integrity (B-IBI) YOU Qinghui, LIU Lingling, FANG Na, et al (6631)
Application of hydrogen and oxygen isotopes to study the source of water and competition in shelter-forest-cotton systems in the Xinjiang Oasis GUO Hui, ZHAO Ying, CAI Dongxu, et al (6642)
Effects of forest gap and coarse woody debris on biomass and diversity of epixyloous moss in an alpine forest WANG Qin, Yang Wanqin, WU Fuzhong, et al (6651)
Spatial point patterns and associations of populations in the coniferous and deciduous broadleaved mixed forest in Xiaoxing'an Mountain LAN Hangyu, DUAN Wenbiao, CHEN Lixin, et al (6660)
Plant phenological responses to temperature variation in an alpine meadow LI Xiaoting, GUO Wei, NI Xiangnan, et al (6670)
Saturated hydraulic conductivity of soils of typical forests of the south coast of guanting reservoir in Yongding River Watershed ZHANG Yixuan, SHI Changqing, YANG Hao, et al (6681)
Distribution patterns of dominant populations in a mountaintop mossy dwarf forest in the Yangming Mountains in Hunan Province, China CHEN Yanhua, LONG Yuelin, PENG Zhonghua (6690)
Annual soil respiration characteristics of different paddy-upland rotations in irrigation areas of the Western Sichuan Plain FU Yong, WANG Tao, YANG Zhiping, et al (6701)
Relationship between soil phenolic acids and the soil microbial community under different land uses JI Li, YANG Yuchun, WANG Jun, et al (6710)
Characteristics of non-agricultural habitat plant functional groups in agricultural landscape of Huanghuaihai Plain LU Xunling, LIU Junling, Tang Qian, et al (6721)
Study of water conservation capacity of four new woodlands in the northern Hebei Mountainous Area of Lu'anping County YANG Jianwei, YANG Jianying, HE Huibin, et al (6731)
Responses of *Cinnamomum camphora* seedling growth and leaf traits to additions of nitrogen and phosphorous under different planting densities LIN Wanqi, CAI Jinhuan, XUE Li (6738)
Elemental compositions and surface structures of *Alhagi sparsifolia* Shap. in different geographical populations in arid zone YIN Hui, ZHANG Bo, JING Ruixue, et al (6745)
Effects of nitrogen application and rainfall exclusion on biomass and biomass allocation in saplings from three species of the Fagaceae family in the mid-subtropical region of China CHANG Hong, YANG Hongguo, ZHAO Guangdong, et al (6753)
Seasonal variations in stem respiration and temperature sensitivity of *Populus tomentosa* LIU Liang, LI Fei, GUO Lili, et al (6762)
Analysis of spatio-temporal variation and factors influencing surface temperature in Liaoning Province ZHANG Wei, JI Ran (6772)

- Effects of topsoil organic carbon on the dynamic change in cultivated land in the Loess Plateau in Shaanxi over the last thirty years ZHANG Mengmeng, LIU Mengyun, CHANG Qingrui, et al (6785)
- Pattern and mechanism of microscale spatial-temporal variation in soil moisture at an artificial grassland in an urban park LIU Yali, DU Jianqing, LI Feng, et al (6794)
- Monitoring ozone concentrations along an urban to rural gradient of Beijing with a mobile vehicle ZHANG Hongxing, HAN Lijian, REN Yufen, et al (6803)
- Impact of energy on the urban carbon cycle of Beijing QIU Sha, CAO Feifei, TANG Mingfang, et al (6816)
- Remote-sensing-based assessment of regional ecological changes triggered by a construction project: a case study of Aojiang River Watershed SHI Tingting, XU Hanqiu, SUN Fengqin, et al (6826)
- Research on the coordinated development of ecological and economic systems in Ansai County, Northern Shaanxi Province MA Yaya, LIU Guobin, ZHANG Chao, et al (6840)
- Landscape pattern analysis and prediction in the Dongjiang River Basin LÜ Leting, ZHANG Jie, PENG Qiuzhi, et al (6850)
- The minimum distance for ecological security from perspective of the thermal environment: the case of three northern districts of Dalian YANG Jun, BAI Shihao, JIN Cui, et al (6860)
- Spatiotemporal dynamics and influencing factors of poverty in ecologically fragile areas of a karst region: A case study of Guizhou Province XIA Siyou, ZHAO Yuan, WEN Qi, et al (6869)
- The effect of carbon emissions trading market on the clean production in various regions in China LU Wencong, XIE Changcai (6880)
- Habitat selection of desert lizard (*Phrynocephalus przewalskii*) in spring and autumn in Inner Mongolia Helan Mountain National Nature Reserve, China TAN Mengyu, SUI Lulu, ZHANG Shangmingyu, et al (6889)
- Genetic variation of *Rattus losea* populations in island habitats LIU Xiaoli, SUN Jiao, HAN Jinqiao, et al (6898)
- Habitat selection and patterns of habitat use in a group of François' langurs (*Trachypithecus francoisi*) in Nonggang, Guangxi, China CHEN Ting, HUANG Zhonghao, HUANG Chengming, et al (6908)
- Oxidative responses to acute heat stress during hibernation of Asian yellow pond turtle (*Mauremys mutica*) CHEN Wei, HU Xiaoyu, JIANG Liuyang, et al (6916)
- Study on Trophic Niches of *Sebastes schlegelii* and *Hexagrammos otakii* in the artificial reef area of Xiaoheishan Island GE Shanshan, ZHAO Wenxi, SONG Jingjing, et al (6923)
- Dominant natural enemies of *Brevipalpus obovatus* Donnadeieu in “Wuniuzao” and “Baihaozao” tea gardens ZHOU Xiaohui, ZHANG Shuping, YU Yan, et al (6932)

《生态学报》2020年征订启事

《生态学报》是由中国科学技术协会主管,中国生态学学会、中国科学院生态环境研究中心共同主办的生态学高级专业学术期刊,创刊于1981年,报道生态学领域前沿理论和原始创新性研究成果。坚持“百花齐放,百家争鸣”的方针,依靠和团结广大生态学科研工作者,探索生态学奥秘,为生态学基础理论研究搭建交流平台,促进生态学研究发展,为我国培养和造就生态学科研人才和知识创新服务、为国民经济建设和发展服务。

《生态学报》主要报道生态学重要基础理论和应用研究的原始创新性科研成果。主要刊载文章类型有:研究综述;研究论文;学术信息与动态,生态学新理论、新方法、新技术介绍;新书评介及开放实验室介绍等。欢迎广大科技工作者、科研单位、高等院校、图书馆等订阅。

《生态学报》半月刊,大16开本,280页,国内定价90元/册,全年定价2160元。

办公电话:010-62941099, 010-62843362 E-mail: shengtaixuebao@rcees.ac.cn

投稿网址: www.ecologica.cn

执行副主编 孔红梅 责任编辑 刘昕 全元 编辑 谢武双 朱晶莹 宗静 彭小琼

生 态 学 报
(SHENGTAI XUEBAO)
(半月刊 1981年3月创刊)
第39卷 第18期 (2019年9月)

ACTA ECOLOGICA SINICA
(Semimonthly, Started in 1981)
Vol. 39 No. 18 (September, 2019)

编 辑 《生态学报》编辑部
地址:北京海淀区双清路18号
邮政编码:100085
电话:(010)62941099
www.ecologica.cn
shengtaixuebao@rcees.ac.cn

主 编 傅伯杰
主 管 中国科学技术协会
主 办 中国生态学学会
中国科学院生态环境研究中心
地址:北京海淀区双清路18号
邮政编码:100085

出 版 科 学 出 版 社
印 刷 北京宝昌彩色印刷有限公司
国内发行 全国各地邮局
发行代号 82-7
国外发行 中国国际图书贸易总公司
发行代号 M670
订 阅 科学出版社期刊发行部
010-64017032, 010-64017539
或扫描封底二维码
广告经营 京海工商广字第8013号

Edited by Editorial board of
ACTA ECOLOGICA SINICA
Add: 18, Shuangqing Street, Haidian, Beijing 100085, China
Tel: (010) 62941099
www.ecologica.cn
shengtaixuebao@rcees.ac.cn

Editor-in-chief FU Bojie
Supervised by China Association for Science and Technology
Sponsored by Ecological Society of China
Research Center for Eco-environmental Sciences, CAS
Add: 18, Shuangqing Street, Haidian, Beijing 100085, China

Published by Science Press
Add: 16 Donghuangchenggen North Street,
Beijing 100717, China

Printed by Beijing Baochang Color Printing Co., Ltd,
Beijing 100094, China

Subscribe by Science Press
Tel: 010-64017032, 010-64017539
E-mail: journal@cspg.net

Domestic issue All Local Post Offices in China 82-7
Foreign issue China International Book Trading Corporation
Add: P.O.Box 399 Beijing 100044, China

ISSN 1000-0933 18
9 771000093194



ISSN 1000-0933 CN 11-2031/Q 定价 90.00 元