

QK1919976



生态学报 ACTA ECOLOGICA SINICA

第39卷 第8期 Vol. 39 No. 8 2019

ISSN 1000-0933 CN 11-2031/Q



中国生态学学会
中国科学院生态环境研究中心
万方数据

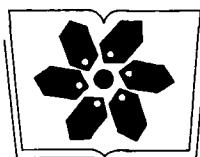
主办



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8期 2019年4月 (半月刊)

目 次

专论与综述

- 景观多功能性:概念辨析、近今进展与前沿议题 刘焱序,傅伯杰 (2645)
生物多样性与生态系统服务——关系、权衡与管理 李奇,朱建华,肖文发 (2655)
面源污染最佳管理措施多目标协同优化配置研究进展 耿润哲,梁璇静,殷培红,等 (2667)

土壤生态专栏

- 不同海拔对福建戴云山黄山松林土壤微生物生物量和土壤酶活性的影响
..... 赵盼盼,周嘉聪,林开森,等 (2676)
漓江河岸带不同水文环境土壤微生物与土壤养分的耦合关系 王静,王冬梅,任远,等 (2687)
不同坡向凋落物分解对土壤微生物群落的影响 龙健,赵畅,张明江,等 (2696)
银北盐渍化土壤中6种耐盐植物根际细菌群落结构及其多样性 代金霞,田平雅,张莹,等 (2705)
典型农田退耕后土壤真菌与细菌群落的演替 张露琪,张志明,张丽梅,等 (2715)
桉树种植对林地土壤丛枝菌根真菌群落结构及多样性的影响 李佳雨,林家怡,裴晨羽,等 (2723)
模拟降雨下麻栎林地表径流和壤中流及氮素流失特征 王荣嘉,高鹏,李成,等 (2732)
宁南山区典型植物根系分解特征及其对土壤养分的影响 杨轩,李娅芸,安韶山,等 (2741)
漓江水陆交错带土壤理化性质及其分布特征 梁士楚,苑晓霞,卢晓明,等 (2752)
大兴安岭北部天然针叶林土壤氮矿化特征 肖瑞晗,满秀玲,丁令智 (2762)

- 纳木错湖水体固碳微生物数量、群落结构及其驱动因子 刘金波,孔维栋,王君波,等 (2772)
莱州湾金城海域网采浮游植物年际变化及与环境因子的关系 宋秀凯,程玲,付萍,等 (2784)
夏、秋季渤海小型底栖动物类群组成及分布特征 何蕾,华尔,刘晓收,等 (2794)
黄土丘陵区土地覆盖和生物多样性功能演化及预测 马永强,石云,郝姗姗,等 (2806)
双花木属植物潜在分布区模拟与分析 孟艺宏,徐璋,姜小龙,等 (2816)
外生菌根菌对油松幼苗抗氧化酶活性及根系构型的影响 祁金玉,邓继峰,尹大川,等 (2826)
干旱胁迫下外源H₂O₂对裸燕麦幼苗叶绿素荧光参数和光合碳同化酶活性的影响
..... 刘建新,欧晓彬,王金成 (2833)
基于结构方程模型分析森林生态安全的影响因素 白江迪,刘俊昌,陈文汇 (2842)
宁夏六盘山4种典型森林伴随降水的无机氮通量变化特征 杨丽丽,邢元军,王彦辉,等 (2851)
柴达木盆地东部荒漠植物生态位特征 牛慧慧,陈辉,付阳,等 (2862)
外源氮持续输入对相应氮梯度下碱蓬残体分解及硫养分释放的影响 陈冰冰,孙志高,孙文广,等 (2872)
低温胁迫下6种木兰科植物的生理响应及抗寒相关基因差异表达 李瑞雪,金晓玲,胡希军,等 (2883)
干旱荒漠区植物生态位对水盐的响应 郭亚栋,滕德雄,吕光辉 (2899)

- 地表反照率不同计算方法对干旱区流域蒸散反演结果的影响——以新疆三工河流域为例.....
..... 张振宇,李小玉,孙 浩 (2911)
- 不同抗旱性冬小麦根系时空分布与产量的关系 方 燕,闵东红,高 欣,等 (2922)
- 人为干扰对神农架川金丝猴连通性及遗传多样性的影响 张 宇,李 丽,张于光,等 (2935)
- 杭州市西湖景区春季空气细菌多样性特征 楼秀芹,郭卫俊,姚文冲,等 (2946)
- 2000—2015 年中国 $PM_{2.5}$ 浓度时空分布特征及其城乡差异 韩 婧,李元征,李 锋 (2954)
- 基于遥感生态指数的新疆玛纳斯湖湿地生态变化评价 王丽春,焦 黎,来风兵,等 (2963)
- 近 30 年淀山湖地区生态系统服务价值对土地利用变化的响应 丁丽莲,王 奇,陈 欣,等 (2973)
- 中国城市空间形态的环境效应 贾玉秋,唐立娜 (2986)
- 中国西北部干旱区 NPP 驱动力分析——以新疆伊犁河谷和天山山脉部分区域为例
..... 姬盼盼,高敏华,杨晓东 (2995)

学术信息与动态

- 社会-生态系统恢复力研究进展——基于 CiteSpace 的文献计量分析 黄晓军,王 博,刘萌萌,等 (3007)

期刊基本参数:CN 11-2031/Q * 1981 * m * 16 * 374 * zh * P * ¥ 90.00 * 1510 * 36 * 2019-04



封面彩图提供: 杜瑞兵 柳州市工业和信息化委员会 E-mail: imdu88@163.com

ACTA ECOLOGICA SINICA Vol.39, No.8 April, 2019(Semimonthly)
CONTENTS

Review and Monograph

- Landscape multifunctionality: concept clarification, recent progress, and frontier issues LIU Yanxu, FU Bojie (2645)
Relationships and trade-offs between, and management of biodiversity and ecosystem services
..... LI Qi, ZHU Jianhua, XIAO Wenfa (2655)
A review: multi-objective collaborative optimization of best management practices for non-point sources pollution control
..... GENG Runzhe, LIANG Xuanjing, YIN Peihong, et al (2667)

Soil Ecology Special Column

- Effects of different altitudes on soil microbial biomass and enzyme activities in *Pinus taiwanensis* forests on Daiyun Mountain, Fujian Province ZHAO Panpan, ZHOU Jiacong, LIN Kaimiao, et al (2676)
Coupling relationships between soil microbes and soil nutrients under different hydrologic conditions in the riparian zone of the Lijiang River WANG Jing, WANG Dongmei, REN Yuan, et al (2687)
Effect of litter decomposition on soil microbes on different slopes LONG Jian, ZHAO Chang, ZHANG Mingjiang, et al (2696)
Rhizobacteria community structure and diversity of six salt-tolerant plants in Yinbei saline soil DAI Jinxia, TIAN Pingya, ZHANG Ying, et al (2705)
Succession of soil fungal and bacterial communities in a typical chronosequence of abandoned agricultural lands ZHANG Luqi, ZHANG Zhiming, ZHANG Limei, et al (2715)
Diversity and structure of the soil arbuscular mycorrhizal fungal community are altered by *Eucalyptus* plantations LI Jiayu, LIN Jiayi, PEI Chenyu, et al (2723)
Characteristics of surface flow and interflow and nitrogen loss in *Quercus acutissima* forest land under simulated rainfall WANG Rongjia, GAO Peng, LI Cheng, et al (2732)
Effects of typical plant root decomposition on soil nutrients in southern Ningxia YANG Xuan, LI Yayun, AN Shaoshan, et al (2741)
Soil physico-chemical properties and distribution characteristics in an aquatic-terrestrial ecotone of the Lijiang River, southwest China LIAO Shichu, YUAN Xiaoxia, LU Xiaoming, et al (2752)
Soil nitrogen mineralization characteristics of the natural coniferous forest in Northern Daxing'an Mountains, Northeast China XIAO Ruihan, MAN Xiuling, DING Lingzhi (2762)

Abundance, community structure, and the driving factors of Carbon fixing microorganisms in the Nam Co Lake LIU Jinbo, KONG Weidong, WANG Junbo, et al (2772)
Changes of net-collected phytoplankton community in Jincheng area of Laizhou Bay and its relationship with environmental factors SONG Xiukai, CHENG Ling, FU Ping, et al (2784)
Meiofauna assemblage composition and distribution in the Bohai Sea during summer and autumn HE Lei, HUA Er, LIU Xiaoshou, et al (2794)
Evolution and prediction of land cover and biodiversity function in Loess Hilly Region MA Yongqiang, SHI Yun, HAO Shanshan, et al (2806)
Potential distribution modeling and analysis of *Disanthus Maxim.* MENG Yihong, XU Xun, JIANG Xiaolong, et al (2816)
Effects of inoculation of exogenous mycorrhizal fungi on the antioxidant and root configuration enzyme activity of *Pinus tabulaeformis* seedlings QI Jinyu, DENG Jifeng, YIN Dachuan, et al (2826)
Effects of exogenous hydrogen peroxide on chlorophyll fluorescence parameters and photosynthetic carbon assimilation enzymes activities in naked oat seedlings under lanthanum stress LIU Jianxin, OU Xiaobin, WANG Jincheng (2833)
Influence on forest ecological security based on a structural equation model BAI Jiangdi, LIU Junchang, CHEN Wenhui (2842)
The spatial variability of inorganic nitrogen (NH_4^+ -N, NO_3^- -N) flux with precipitation for four typical forests of the Liupan Mountain of Ningxia, China YANG Lili, XING Yuanjun, WANG Yanhui, et al (2851)

- Ecological niche characteristics of desert plants in the eastern Qaidam Basin NIU Huihui, CHEN Hui, FU Yang, YANG Yi, et al (2862)
- Effect of continuous import of exogenous nitrogen on decomposition and sulfur release of *Suaeda salsa* litters in the corresponding nitrogen gradient CHEN Bingbing, SUN Zhigao, SUN Wenguang, et al (2872)
- Physiological responses and differential expression of cold resistance-related genes of six varieties of Magnoliaceae under low temperature stress LI Ruixue, JIN Xiaoling, HU Xijun, et al (2883)
- Response of plant niche to soil moisture and salinity in an arid desert area of Xinjiang, China QIE Yadong, TENG Dexiong, LÜ Guanghui (2899)
- Influence of different surface albedo calculation methods on the simulation of evapotranspiration from the Sangong River Basin in the arid region of Xinjiang ZHANG Zhenyu, LI Xiaoyu, SUN Hao (2911)
- Relationship between spatiotemporal distribution of roots and grain yield of winter wheat varieties with differing drought tolerance FANG Yan, MIN Donghong, GAO Xin, et al (2922)
- Study on the effect of human disturbance on the connectivity and genetic diversity of Sichuan snub-nosed monkey (*Rhinopithecus roxellana*) in Shennongjia National Park ZHANG Yu, LI Li, ZHANG Yuguang, et al (2935)
- Diversity of airborne bacterial community in spring in the West Lake scenic areas of Hangzhou, China LOU Xiuqin, GUO Weijun, YAO Wenchong, et al (2946)
- Spatio-temporal distribution characteristic of PM_{2.5} concentration and the difference of PM_{2.5} concentration between urban areas and rural areas in China from 2000 to 2015 HAN Jing, LI Yuanzheng, LI Feng (2954)
- Evaluation of ecological changes based on a remote sensing ecological index in a Manas Lake wetland, Xinjiang WANG Lichun, JIAO Li, LAI Fengbing, et al (2963)
- The responses of ecosystem services to land-use change in Dianshan Lake area from 1984 to 2014 DING Lilian, WANG Qi, CHEN Xin, et al (2973)
- Environmental effects of the urban spatial form of Chinese cities JIA Yuqiu, TANG Lina (2986)
- Analysis of NPP driving force in an arid region of Northwest China; A case study in Yili Valley and parts of Tianshan Mountains, Xinjiang, China JI Panpan, GAO Minhua, YANG Xiaodong (2995)

《生态学报》2019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 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8期 (2019年4月)

ACTA ECOLOGICA SINICA
(Semimonthly, Started in 1981)
Vol. 39 No. 8 (April, 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
9 771000-093194



ISSN 1000-0933

CN 11-2031/Q

定价 90.00 元