



QK1942265

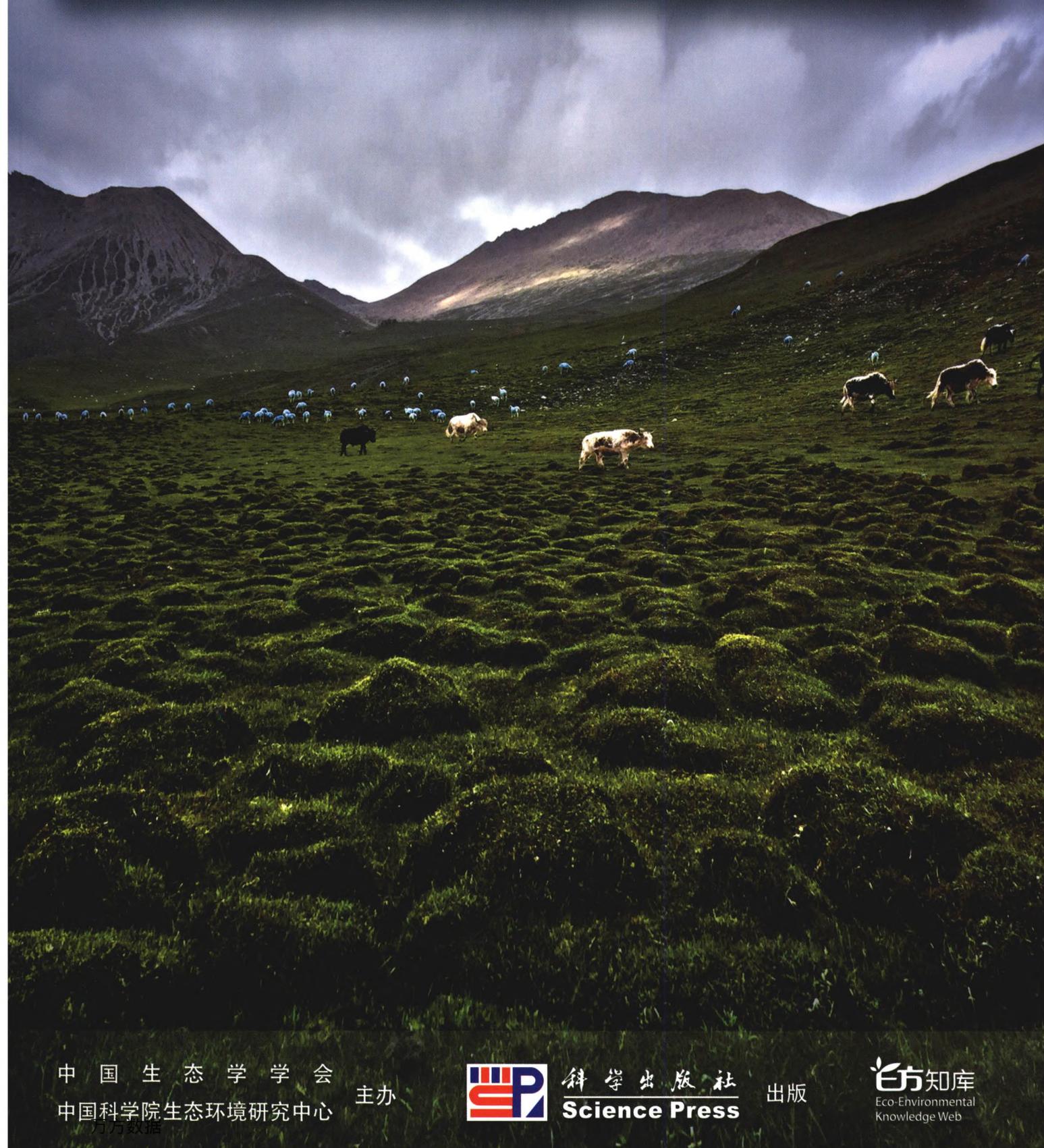


生态学报

ACTA ECOLOGICA SINICA

第39卷 第17期 Vol. 39 No. 17 2019

ISSN 1000-0933 CN 11-2031/Q



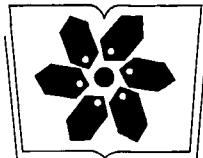
中国生态学会
主办
中国科学院生态环境研究中心
万方数据



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17期 2019年9月 (半月刊)

目 次

研究论文

- 异质生境对荒漠草原植物群落组成和种群生态位的影响 陈林, 辛佳宁, 苏莹, 等 (6187)
2001—2015年天山北坡植被覆盖对干旱的响应——基于土地利用/土地覆盖分析 李艳菊, 丁建丽, 张钧泳, 等 (6206)
三种判定落叶阔叶混交林土壤损害基线的方法研究——以吉林省抚松县为例 李嘉珣, 曹飞飞, 吴钢 (6218)
热带珊瑚岛植物种植对土壤改良及其微生物群落形成的影响 黄峰, 王玮韧, 饶鑫, 等 (6227)
潮汐作用对黄河三角洲盐沼湿地甲烷排放的影响 贺文君, 韩广轩, 宋维民, 等 (6238)
乌兰布和沙漠典型灌木群落土壤化学计量特征 董雪, 辛智鸣, 黄雅茹, 等 (6247)
土壤易氧化有机碳对西双版纳热带森林群落演替的响应 张哲, 王邵军, 李霁航, 等 (6257)
凋落物多样性及组成对凋落物分解和土壤微生物群落的影响 王小平, 杨雪, 杨楠, 等 (6264)
荒漠草原不同土壤条件下猪毛蒿幼苗种群的点格局分析 李月飞, 陈林, 李学斌, 等 (6273)
荒漠草原区4种植物群落土壤种子库特征及其土壤理化性质 李国旗, 邵文山, 赵盼盼, 等 (6282)
基于CERES-Rice模型的湖南省一季稻极端高温损失评估及适应性措施 张亮亮, 张朝, 张静, 等 (6293)
柳杉种植对黔西南喀斯特山区金发藓沼泽植物群落和储水功能的影响 张勇, 崔海军, 张银烽, 等 (6304)
基于云模型的鄱阳湖秋季周边湿地水体富营养化评价 方娜, 游清徽, 刘玲玲, 等 (6314)
流域水文变化对胡杨荒漠河岸林林窗及形成木特征的影响 阿依加马力·克然木, 玉米提·哈力克, 塔依尔江·艾山, 等 (6322)
昌岭山两个优势树种径向生长对气候变化的响应 贾飞飞, 孙翠洋, 孙红月, 等 (6332)
红松种子园种群表型多样性研究 童跃伟, 唐杨, 陈红, 等 (6341)
垂丝海棠应对盐碱复合胁迫的生理响应 贾旭梅, 朱燕芳, 王海, 等 (6349)
1992—2015年鼎湖山季风常绿阔叶林群落种间关联动态 邹顺, 周国逸, 张倩媚, 等 (6362)
辽西低山丘陵区不同年龄荆条冠层截留降雨模拟实验研究 吕刚, 王磊, 张卓, 等 (6372)
宁夏沙坡头干旱沙漠自然保护区生态系统稳定性评估 高翔, 黄婷婷, 王可 (6381)
粤港澳大湾区生态系统服务识别、分类及制图 李婧贤, 王钧 (6393)
鄱阳湖地区多尺度流域水体重金属输送特征及其污染风险评价 马明真, 高扬, 宋贤威, 等 (6404)
初夏渤海湾初级生产力分布特征及影响因素 张海波, 裴绍峰, 祝雅轩, 等 (6416)
高体鳑鲏化学预警响应与“个性”行为的关联 夏继刚, 刘香, 黄艳 (6425)

- 海州湾秋季小眼绿鳍鱼摄食习性的空间异质性 王荣夫, 刘淑德, 任一平, 等 (6433)
猫儿山小鲵(*Hynobius maoershanensis*)繁殖期生境选择 黄华苑, 卜荣平, 谢海, 等 (6443)
坡向尺度差异对大理苍山捕食线虫真菌分布格局的影响 邓巍, 王家亮, 刘李蕾, 等 (6452)
城市生态空间多元综合识别研究——以杭州市为例 张亮, 岳文泽 (6460)
城市生态环境损害鉴定评估监测体系研究 李欢欢, 张雪琦, 张永霖, 等 (6469)
济南市森林生态系统服务功能空间格局研究 黄龙生, 王兵, 牛香, 等 (6477)
基于能值分析的环太湖城市群生态经济系统可持续发展研究 贾小乐, 周源, 延建林, 等 (6487)
基于光纤测温技术的城市地表温度精细化分析 张雪琦, 贾天下, 董仁才 (6500)
高寒草甸草原景观格局动态演变及其驱动机制 张起鹏, 王建, 张志刚, 等 (6510)
南方丘陵区耕地景观生态安全影响因素及其空间差异 韩逸, 郭熙, 江叶枫, 等 (6522)
天津滨海新区湿地景观连接度距离阈值研究 杜志博, 李洪远, 孟伟庆 (6534)
砾石对红壤工程堆积体边坡径流产沙的影响 陈卓鑫, 王文龙, 康宏亮, 等 (6545)
石化基地生态环境系统脆弱性演化机理——以连云港为例 万里洋, 吴和成 (6557)

专论与综述

- 土地退化过程、机制与影响——以土地退化与恢复专题评估报告为基础
..... 郭晓娜, 陈睿山, 李强, 等 (6567)

期刊基本参数: CN 11-2031/Q * 1981 * m * 16 * 390 * zh * P * ¥ 90.00 * 1510 * 38 * 2019-09



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

ACTA ECOLOGICA SINICA Vol.39, No.17 September, 2019 (Semimonthly)

CONTENTS

Research Paper

- Effects of heterogeneous habitats on community composition and niche characteristics of different plant populations in the desert steppe of China CHEN Lin, XIN Jianing, SU Ying, et al (6187)
- Response of vegetation cover to drought in the northern slope of the Tianshan Mountains during 2001—2015 based on the land-use and land-cover change LI Yanju, DING Jianli, ZHANG Junyong, et al (6206)
- Study on three methods to determine the soil damage baseline of deciduous broad-leaved mixed forests: A case of Fusong County in Jilin Province LI Jiaxun, CAO Feifei, WU Gang (6218)
- Soil improvements and microbial community development following establishment of plant communities in a tropical coral island HUANG Feng, WANG Weireng, RAO Xin, et al (6227)
- Effects of tidal action on methane emissions over a salt marsh in the Yellow River Delta, China HE Wenjun, HAN Guangxuan, SONG Weimin, et al (6238)
- Soil stoichiometry in typical shrub communities in the Ulan Buh Desert DONG Xue, XIN Zhiming, HUANG Yaru, et al (6247)
- Response of soil readily oxidizable carbon to community succession of Xishuangbanna tropical forests ZHANG Zhe, WANG Shaojun, LI Jihang, et al (6257)
- Effects of litter diversity and composition on litter decomposition characteristics and soil microbial community WANG Xiaoping, YANG Xue, YANG Nan, et al (6264)
- Point pattern analysis of an *Artemisia scoparia* seedling population under different soil conditions in a desert steppe LI Yuefei, CHEN Lin, LI Xuebin, et al (6273)
- Analysis of soil seed bank characteristics and soil physical and chemical properties of four plant communities in a desert steppe region LI Guoqi, SHAO Wenshan, ZHAO Panpan, et al (6282)
- Yield losses caused by extreme high-temperature events and potential adaptive measures for single rice in Hunan Province based on the CERES-Rice model ZHANG Liangliang, ZHANG Zhao, ZHANG Jing, et al (6293)
- Effects of artificial *Cryptomeria fortunei* forests on the plant community and water content of a *Polytrichum commune* bog in a karst region in southwestern Guizhou Province, China ZHANG Yong, CUI Haijun, ZHANG Yinfeng, et al (6304)
- Evaluation of eutrophication in Poyang Lake wetland during autumn based on the cloud model FANG Na, YOU Qinghui, LIU Lingling, et al (6314)
- Influence of river hydrological change on the characteristics of canopy gaps and gap makers of *Populus euphratica* desert riparian forest Ayjamal Keram, Ümüt Halik, Tayierjiang Aishan, et al (6322)
- Responses of radial growth of two dominant tree species to climate change on Changling Mountain JIA Feifei, SUN Cuiyang, SUN Hongyue, et al (6332)
- Phenotypic diversity of *Pinus koraiensis* populations in a seed orchard TONG Yuewei, TANG Yang, CHEN Hong, et al (6341)
- Study on Physiological Response of *Malus halliana* to Saline-alkali Stress JIA Xumei, ZHU Yanfang, WANG Hai, et al (6349)
- Long-term (1992—2015) dynamics of interspecific associations among tree species in a monsoon evergreen broad-leaved forest in Dinghushan Biosphere Reserve ZOU Shun, ZHOU Guoyi, ZHANG Qianmei, et al (6362)
- Simulated and experimental study on rainfall interception of different aged *Vitex negundo* var. *heterophylla* canopies in the low mountains and hills of western Liaoning LÜ Gang, WANG Lei, ZHANG Zhuo, et al (6372)
- Assessment of the ecosystem stability of Shapotou Arid Desert Nature Reserve in Ningxia, China GAO Xiang, HUANG Pingting, WANG Ke (6381)
- Identification, classification, and mapping of coastal ecosystem services of the Guangdong, Hong Kong, and Macao Great Bay Area LI Jingxian, WANG Jun (6393)
- Transport characteristics and risk assessment of heavy metals in multi-scale watersheds in the Poyang Lake area, China MA Mingzhen, GAO Yang, SONG Xianwei, et al (6404)
- Study on the distribution characteristic of primary productivity and its controlling factors in Bohai Bay in the early summer ZHANG Haibo, PEI Shaofeng, ZHU Yaxuan, et al (6416)

- The link between chemical alarm cue-induced behavioral responses and personality in *Rhodeus ocellatus* XIA Jigang, LIU Xiang, HUANG Yan (6425)
- Study on spatial heterogeneity in feeding habits of *Chelidonichthys spinosus* in Haizhou Bay during autumn WANG Rongfu, LIU Shude, REN Yiping, et al (6433)
- Habitat selection by *Hynobius maoershanensis* during its breeding period HUANG Huayuan, BU Rongping, XIE Hai, et al (6443)
- Slope's scale effect on the distribution patterns of nematode trapping fungi from Cangshan Mountain, Dali DENG Wei, WANG Jialiang, LIU Lilei, et al (6452)
- Integrated recognition of urban ecological space: A case study on Hangzhou ZHANG Liang, YUE Wenze (6460)
- A monitoring system for identification and assessment of urban eco-environmental damage LI Huanhuan, ZHANG Xueqi, ZHANG Yonglin, et al (6469)
- Spatial pattern of the ecosystem service function of forests in Jinan City HUANG Longsheng, WANG Bing, NIU Xiang, et al (6477)
- Sustainable development of an ecological-economic system in the Taihu Lake city cluster based on emergy analysis JIA Xiaole, ZHOU Yuan, YAN Jianlin, et al (6487)
- Refined analysis of urban surface temperature based on optical fiber temperature measurement technology ZHANG Xueqi, JIA Tianxia, DONG Rencai (6500)
- Dynamic change of landscape patterns and its driving mechanism in the Qinghai-Tibetan alpine meadow ZHANG Qipeng, WANG Jian, ZHANG Zhigang, et al (6510)
- Cultivated land landscape ecological security: Influencing factors and spatial differences in the hilly region of South China HAN Yi, GUO Xi, JIANG Yefeng, RAO Lei, et al (6522)
- Distance thresholds of wetland landscape connectivity in Tianjin Binhai New Area DU Zhibo, LI Hongyuan, MENG Weiqing (6534)
- Effects of gravel on runoff and sediment yield of red soil engineering accumulation slopes CHEN Zhuoxin, WANG Wenlong, KANG Hongliang, et al (6545)
- The evolutionary mechanism of eco-environmental system vulnerability in the petrochemical base: A case study of Lianyungang WAN Liyang, WU Hecheng (6557)
- Review and Monograph**
- Processes, mechanisms, and impacts of land degradation in the IPBES Thematic Assessment GUO Xiaona, CHEN Ruishan, LI Qiang, et al (6567)

《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
(SHENTAI XUEBAO)
(半月刊 1981年3月创刊)
第39卷 第17期 (2019年9月)

ACTA ECOLOGICA SINICA
(Semimonthly, Started in 1981)
Vol. 39 No. 17 (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 M670
Corporation
Add: P.O.Box 399 Beijing 100044, China

ISSN 1000-0933
17
9 771000 093194



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