



生态学报

ACTA ECOLOGICA SINICA

第37卷 第4期 Vol. 37 No. 4 2017

ISSN 1000-0933 CN 11-2031/Q

第十五届中国生态学大会专辑

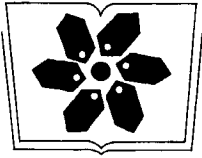
中国生态学学会
中国科学院生态环境研究中心

主办



科学出版社
Science Press

出版



中国科学院科学出版基金资助出版

生态学报

(SHENGTAI XUEBAO)

第 37 卷 第 4 期 2017 年 2 月 (半月刊)

目 次

第十五届中国生态学大会专辑

研究论文

- 感染内生真菌的羽茅对大针茅的化感作用..... 高 远,李隔萍,施 宏,等 (1063)
- 川西亚高山不同森林生态系统碳氮储量及其分配格局..... 刘 顺,罗 达,刘千里,等 (1074)
- 新疆赛里木湖流域过去 373 年降水变化的树轮记录..... 秦 莉,袁玉江,喻树龙,等 (1084)
- 山西文峪河上中游森林群落多样性 赵小娜,秦 浩,张 峰 (1093)
- 庞泉沟自然保护区常见禾本科植物内生真菌分布及其影响因素..... 贾 彤,曹苗文,周永娜,等 (1103)
- 不同水淹下狗牙根-牛鞭草混作对植株生物量的影响 陈锦平,曾成城,魏 虹,等 (1111)
- 土壤增温、隔离降水及其交互作用对杉木幼苗细根生产的影响 冯建新,熊德成,邓 飞,等 (1119)
- 水位变化对三峡库区消落带落羽杉营养特征的影响..... 马文超,刘 媛,周 翠,等 (1128)
- 2008 特大冰冻灾害后大明山常绿阔叶林林冠结构动态 周晓果,温远光,朱宏光,等 (1137)
- 模拟 N 沉降下不同林龄马尾松林凋落叶分解-土壤 C、N 化学计量特征
..... 葛晓改,曾立雄,肖文发,等 (1147)
- 希拉穆仁草原近自然恢复状态下植被-土壤响应特征 王 琴,蒙仲举,汪 季,等 (1159)
- 天山北坡雪岭云杉林地开垦的土壤有机碳损失估算 常亚鹏,李 路,许仲林 (1168)
- 自然风化过程对赤泥团聚体有机碳组分的影响..... 朱 锋,李 萌,薛生国,等 (1174)
- 松嫩平原苏打盐渍化旱田土壤表观电导率空间变异..... 杨 帆,安丰华,马红媛,等 (1184)
- 华西雨屏区天然常绿阔叶林土壤可培养微生物数量对模拟氮沉降的响应.....
..... 周世兴,向元彬,肖永翔,等 (1191)
- 蚯蚓吞食过程中土壤理化性质与放线菌多样性的变化特征..... 袁向华,周艳玲,宋清姿,等 (1199)
- 长春城市森林绿地土壤肥力评价..... 周 伟,王文杰,张 波,等 (1211)
- 皆伐火烧对亚热带森林不同深度土壤 CO₂ 通量的影响..... 郑 蔚,李 超,元晓春,等 (1221)
- 杉木幼苗和伴生植物细根对土壤增温的生理生态响应..... 许辰森,熊德成,邓 飞,等 (1232)
- 萌芽菊芋块茎对盐碱土壤胁迫的生理响应..... 韩东谔,张喜洋,庞秋颖,等 (1244)
- 气候与土地利用变化下宁夏清水河流域径流模拟..... 李 帅,魏 虹,刘 媛,等 (1252)
- 1985—2015 年向海沼泽湿地斑块稳定性的空间变化 刘吉平,马长迪 (1261)

庙岛群岛北五岛景观格局特征及其生态效应.....	池 源,石洪华,王恩康,等 (1270)
土地利用及景观格局演变对生态系统服务价值的影响.....	王 航,秦 奋,朱 筠,等 (1286)
基于选择实验的三江平原湿地生态系统服务功能价值评价及偏好异质性研究	
.....	毛碧琦,敖长林,焦 扬,等 (1297)
环境因子对海月水母螅状体存活与繁殖的影响.....	孙 明,柴 雨,董 婧,等 (1309)
烟台四十里湾浮游动物群落特征及与环境因子的关系.....	姜会超,刘 宁,高继庆,等 (1318)
流溪河水库敞水区轮虫多样性与群落的动态特征.....	温展明,徐健荣,林秋奇,等 (1328)
有害甲藻 <i>Stoeckeria algicida</i> 在辽东湾的时空分布	宋 伦,刘卫东,吴 景,等 (1339)

专论与综述

基于 GIS 的产业生态学研究述评.....	王 雪,施晓清 (1346)
西南喀斯特石漠化生态系统土壤有机碳分布特征及其影响因素.....	王霖娇,盛茂银,杜家颖,等 (1358)

期刊基本参数:CN 11-2031/Q * 1981 * m * 16 * 304 * zh * P * ¥90.00 * 1510 * 31 * 2017-02



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

ACTA ECOLOGICA SINICA Vol.37, No.4 February, 2017 (Semimonthly)
CONTENTS

Research Paper

- Allelopathic effect of endophyte-infected *Achnatherum sibiricum* on *Stipa grandis* GAO Yuan, LI Geping, SHI Hong, et al (1063)
- Carbon and nitrogen storage and distribution in different forest ecosystems in the subalpine of western Sichuan LIU Shun, LUO Da, LIU Qianli, et al (1074)
- Tree-ring-based precipitation variability over the past 373 years in the Sayram Lake Basin, Tianshan Mountains QIN Li, YUAN Yujiang, YU Shulong, et al (1084)
- Diversity of forest communities in the upstream and middle reaches of the Wenyu River watershed, Shanxi ZHAO Xiaona, QIN Hao, ZHANG Feng (1093)
- Distribution of endophyte fungi associated with common plants and preliminary assessment of impact factors in Pangquangou Nature Reserve JIA Tong, CAO Miaowen, ZHOU Yongna, et al (1103)
- Effects of mixed intercropping of *Cynodon dactylon* and *Hemarthria alissima* on their biomass under different flooding conditions CHEN Jinping, ZENG Chengcheng, WEI Hong, et al (1111)
- Effects of soil warming and precipitation exclusion and their interaction on fine roots production of Chinese fir (*Cunninghamia lanceolata*) seedlings FENG Jianxin, XIONG Decheng, DENG Fei, et al (1119)
- Effect of water-level change on nutritional characteristics of *Taxodium distichum* in the hydro-fluctuation belt of the Three Gorges Reservoir MA Wenchao, LIU Yuan, ZHOU Cui, et al (1128)
- Short-term dynamics of canopy structure of evergreen broadleaved forest after a freezing disaster in 2008 in Damingshan, Southern China ZHOU Xiaoguo, WEN Yuanguang, ZHU Hongguang, et al (1137)
- Relationship between leaf litter decomposition and soil C, N stoichiometry in different-aged *Pinus massoniana* stands exposed to simulated nitrogen deposition GE Xiaogai, ZENG Lixiong, XIAO Wenfa, et al (1147)
- Response of the vegetation soil under almost-natural restoration in the Xilamuren grassland WANG Qin, MENG Zhongju, WANG Ji, et al (1159)
- Estimation of soil organic carbon loss from *Picea schrenkiana* forest to farmland in the northern Tianshan Mountains CHANG Yapeng, LI Lu, XU Zhonglin (1168)
- Effects of natural weathering processes on the distribution characteristics of organic carbon and its composition in bauxite residue aggregates ZHU Feng, LI Meng, XUE Shengguo, et al (1174)
- Spatial variations of apparent soil electrical conductivity in the saline-sodic upland soil of the Songnen Plain YANG Fan, AN Fenghua, MA Hongyuan, et al (1184)
- Response of culturable soil microorganisms to simulated nitrogen deposition in a natural evergreen broadleaf forest in the Rainy Area of Western China ZHOU Shixing, XIANG Yuanbin, XIAO Yongxiang, et al (1191)
- Variations of soil physical-chemical properties and the diversity of actinomycetes during the process of swallowing of earthworms YUAN Xianghua, ZHOU Yanling, SONG Qingzi, et al (1199)
- Soil fertility evaluation for urban forests and green spaces in Changchun City ZHOU Wei, WANG Wenjie, ZHANG Bo, et al (1211)
- The impact of clear-cutting and slash burning on soil CO₂ flux at different soil depths in a subtropical forest ZHENG Wei, LI Chao, YUAN Xiaochun, et al (1221)
- The ecophysiological responses of fine-roots of Chinese fir (*Cunninghamia lanceolata*) seedlings and the associated plants to soil warming XU Chensen, XIONG Decheng, DENG Fei, et al (1232)

- Physiological response of sprouting Jerusalem artichoke tubers to saline-alkali stress HAN Dongming, ZHANG Xiyang, PANG Qiuying, et al (1244)
- Runoff prediction for Ningxia Qingshui River Basin under scenarios of climate and land use changes LI Shuai, WEI Hong, LIU Yuan, et al (1252)
- The spatial variation in the patch stability of marshes in Xianghai between 1985 and 2015 LIU Jiping, MA Changdi (1261)
- Landscape pattern characteristics and ecological effects on five northern islands of Miaodao Archipelago CHI Yuan, SHI Honghua, WANG Enkang, et al (1270)
- The effects of land use structure and landscape pattern change on ecosystem service values WANG Hang, QIN Fun, ZHU Jun, et al (1286)
- Evaluation of preference heterogeneity of ecosystem services in the Sanjiang Plain Wetlands based on choice experiments MAO Biqi, AO Changlin, JIAO Yang, et al (1297)
- Effects of environmental factors on polyp survival and reproduction of *Aurelia* sp. 1 SUN Ming, CHAI Yu, DONG Jing, et al (1309)
- Zooplankton community structure in Sishili Bay and its relationship with environmental factors JIANG Huichao, LIU Ning, GAO Jiqing, et al (1318)
- Rotifer species diversity and community structure in the pelagic zone of the Liuxihe Reservoir WEN Zhanming, XU Jianrong, LIN Qiuqi, et al (1328)
- Distribution of the toxic dinoflagellate *Stoeckeria algicida* in Liaodong Bay SONG Lun, LIU Weidong, WU Jing, et al (1339)
- Review and Monograph**
- A review of industrial ecology based on GIS WANG Xue, SHI Xiaoqing (1346)
- Distribution characteristics of soil organic carbon and its influence factors in the karst rocky desertification ecosystem of Southwest China WANG Linjiao, SHENG Maoyin, DU Jiaying, et al (1358)

《生态学报》2017 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,促进生态学研究深入发展,为我国培养和造就生态学科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》主要报道生态学及各分支学科的重要基础理论和应用研究的原始创新性科研成果。特别欢迎能反映现代生态学发展方向的优秀综述性文章;研究简报;生态学新理论、新方法、新技术介绍;新书评价和学术、科研动态及开放实验室介绍等。

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

国内邮发代号:82-7,国外邮发代号:M670

标准刊号:ISSN 1000-0933 CN 11-2031/Q

全国各地邮局均可订阅,也可直接与编辑部联系购买。欢迎广大科技工作者、科研单位、高等院校、图书馆等订阅。

通讯地址:100085 北京海淀区双清路 18 号 电 话:(010)62941099; 62843362

E-mail: shengtaixuebao@rcees.ac.cn 网 址: www.ecologica.cn

执行副主编 孔红梅 责任编辑 段靖 刘昕 全元

生态学报

(SHENGTAI XUEBAO)

(半月刊 1981 年 3 月创刊)

第 37 卷 第 4 期 (2017 年 2 月)

ACTA ECOLOGICA SINICA

(Semimonthly, Started in 1981)

Vol. 37 No. 4 (February, 2017)

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	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
主 编	傅伯杰	Editor-in-chief	FU Bojie
主 管	中国科学技术协会	Supervised by	China Association for Science and Technology
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	Sponsored by	Ecological Society of China Research Center for Eco-environmental Sciences, CAS Add: 18, Shuangqing Street, Haidian, Beijing 100085, China
出 版	科 学 出 版 社 地址:北京东黄城根北街 16 号 邮政编码:100717	Published by	Science Press Add: 16 Donghuangchenggen North Street, Beijing 100717, China
印 刷	北京宝昌彩色印刷有限公司	Printed by	Beijing Baochang Color Printing Co., Ltd, Beijing 100094, China
发 行	科 学 出 版 社 地址:东黄城根北街 16 号 邮政编码:100717 电话:(010)64034563 E-mail: journal@ cspg.net	Distributed by	Science Press Add: 16 Donghuangchenggen North Street, Beijing 100717, China Tel: (010) 64034563 E-mail: journal@ cspg.net
订 购	全国各地邮局	Domestic	All Local Post Offices in China
国外发行	中国国际图书贸易总公司 地址:北京 399 信箱 邮政编码:100044	Foreign	China International Book Trading Corporation Add: P.O.Box 399 Beijing 100044, China
广告经营 许可证	京海工商广字第 8013 号		



ISSN 1000-0933
CN 11-2031/Q

国内外公开发行

国内邮发代号 82-7

国外发行代号 M670

定价 90.00 元