

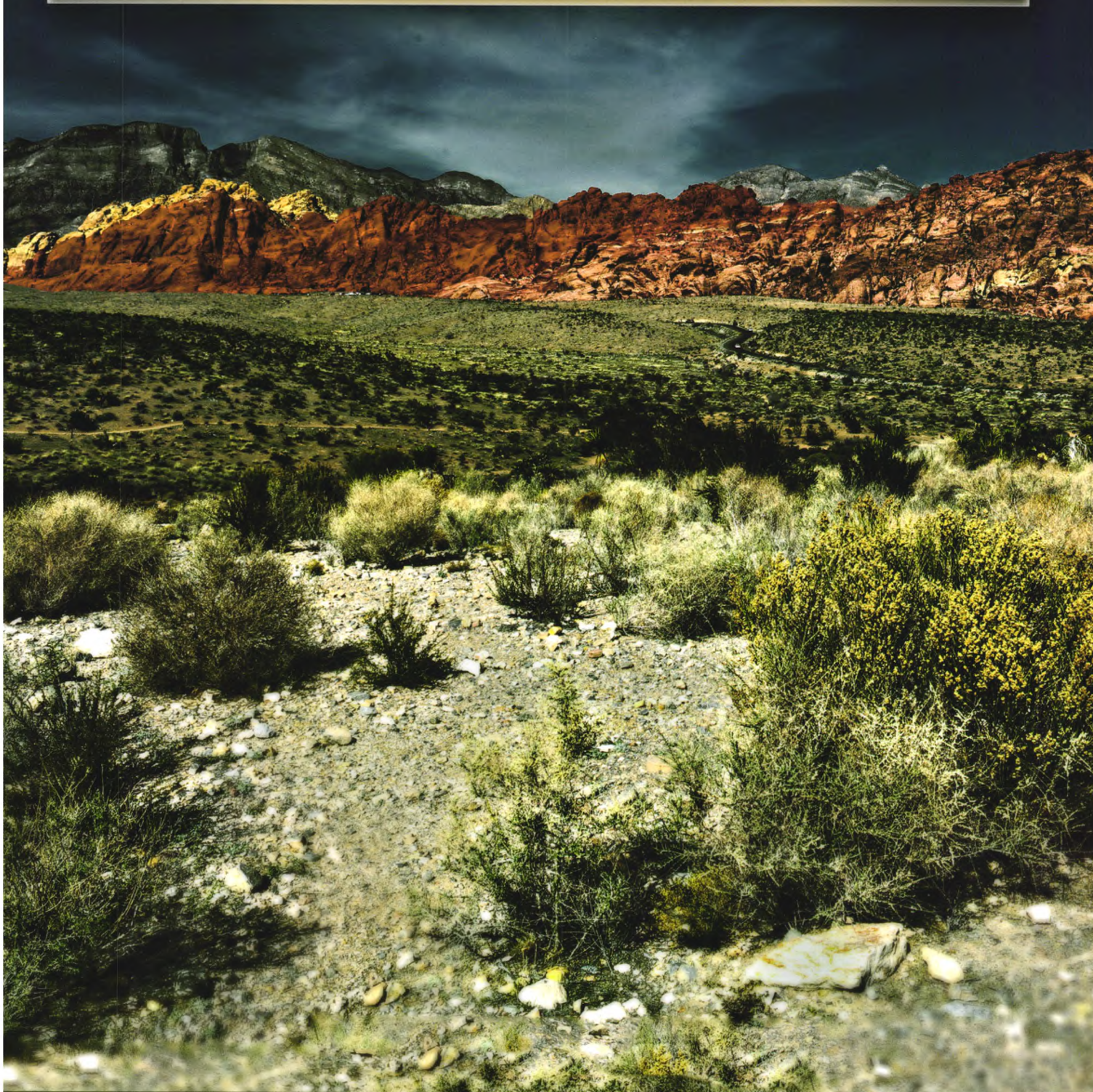


生态学报

ACTA ECOLOGICA SINICA

第36卷 第23期 Vol. 36 No. 23 2016

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

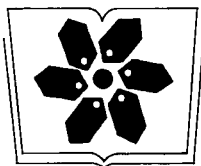
万方数据

主办



科学出版社
Science Press

出版



中国科学院科学出版基金资助出版

生态学报

(SHENGTAI XUEBAO)

第 36 卷 第 23 期 2016 年 12 月 (半月刊)

目 次

专论与综述

- 滨海湿地生态系统服务及其价值评估研究进展..... 程 敏,张丽云,崔丽娟,等 (7509)
- 人类福祉研究进展——基于可持续科学视角..... 黄甘霖,姜亚琼,刘志锋,等 (7519)
- 野生大熊猫种群数量调查方法研究进展 史雪威,张晋东,欧阳志云 (7528)
- 国内工业生态安全研究述评..... 彭新沙,田大伦 (7538)

研究论文

- 中国富士苹果种植气候适宜区的年代际变化..... 屈振江,周广胜 (7551)
- 水体溶氧影响陆生植物喜旱莲子草(*Alternanthera philoxeroides*)和牛鞭草(*Hemarthria altissima*)对完全
水淹的耐受力 杜 琿,张小萍,曾 波 (7562)
- 不同放牧强度季节调控下荒漠草原主要植物种群点格局及空间关联性.....
..... 孙世贤,卫智军,吴新宏,等 (7570)
- 基于图论的景观连接度量化方法应用研究——以福建省闽清县自然森林为例..... 齐 珂,樊正球 (7580)
- 黄土高原近 10 年植被覆盖的动态变化及驱动力..... 肖 强,陶建平,肖 洋 (7594)
- 树轮记录的青海过去 300 年 5—6 月平均最高气温时空变化 张瑞波,袁玉江,喻树龙,等 (7603)
- 会同杉木器官间 C、N、P 化学计量比的季节动态与异速生长关系 陈 婵,王光军,赵 月,等 (7614)
- 雷竹克隆系统出笋期有机碳分布变化规律..... 冀琳珂,谢锦忠,张 玮,等 (7624)
- 鄂西南亚热带常绿落叶阔叶混交林土壤空间异质性..... 冯 广,姚 兰,艾训儒,等 (7635)
- 吉林蛟河不同演替阶段针阔混交林木本植物幼苗空间分布与年际动态.....
..... 闫 琰,姚 杰,张新娜,等 (7644)
- 新疆玛纳斯流域非农业种植地盐碱性空间变异特征..... 魏 阳,丁建丽,王 飞,等 (7655)
- 汉江流域植被净初级生产力时空格局及成因..... 张 静,任志远 (7667)
- 人为干扰对碧峰峡栲树次生林群落物种多样性及其优势种群生态位的影响.....
..... 郝建锋,李 艳,齐锦秋,等 (7678)
- 内蒙古主要草原类型植物物候对气候波动的响应..... 苗百岭,梁存柱,韩 芳,等 (7689)
- 基于随机森林模型的国家重点保护陆生脊椎动物物种优先保护区的识别.....
..... 金 宇,周可新,高吉喜,等 (7702)
- 基于语谱图特征信息分割提取的声景观中鸟类生物多样性分析..... 蒋锦刚,邵小云,万海波,等 (7713)
- 秦岭大坪峪川金丝猴(*Rhinopithecus roxellana*)种群生存力分析 王程亮,王晓卫,赵海涛,等 (7724)
- 中国蚂蚁丰富度地理分布格局及其与环境因子的关系..... 沈梦伟,陈圣宾,毕孟杰,等 (7732)
- 中国东北黑土土壤剖面微生物群落碳源代谢特征..... 王 梓,韩晓增,张志明,等 (7740)
- 江苏海门蛎岬山牡蛎礁生态现状评价..... 全为民,周为峰,马春艳,等 (7749)

洋山港海域细菌群落多样性的季节变化..... 薛俊增,肖南燕,王 琼,等 (7758)

海岛生态系统服务价值评估及其时空变化——以浙江舟山金塘岛为例.....

..... 赵 江,沈 刚,严力蛟,等 (7768)

长江中游城市群生态文明水平测度及时空演变..... 马 勇,黄智洵 (7778)

普陀山岛旅游生态安全发展趋势预测..... 周 彬,虞 虎,钟林生,等 (7792)

山水型城市生态安全格局构建与建设用地开发策略..... 储金龙,王 佩,顾康康,等 (7804)

京津冀地区污染物排放与城市化过程的耦合关系..... 陈 向,周伟奇,韩立建,等 (7814)

祁连山不同植被类型的物候变化及其对气候的响应..... 贾文雄,赵 珍,俎佳星,等 (7826)

湛江高桥红树林湿地有机碳分布及埋藏特征..... 朱耀军,赵 峰,郭菊兰,等 (7841)

鄱阳湖流域土地利用生态风险格局..... 徐 羽,钟业喜,冯兴华,等 (7850)

20 世纪 90 年代以来中国西南地区土地覆被变化 郑朝菊,曾 源,赵玉金,等 (7858)

好文译登

远程耦合世界的可持续性框架 刘建国, Vanessa Hull, Mateus Batistella, 等 (7870)

学术信息与动态

1981—2015 年我国大陆地区景观生态学研究文献分析 赵文武,王亚萍 (7886)

期刊基本参数:CN 11-2031/Q * 1981 * m * 16 * 388 * zh * P * ¥90.00 * 1510 * 36 * 2016-12



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.36, No.23 December, 2016(Semimonthly)
CONTENTS

Review and Monograph

Progress in ecosystem services value valuation of coastal wetlands CHENG Min, ZHANG Liyun, CUI Lijuan, et al (7509)

Advances in human well-being research: a sustainability science perspective
..... HUANG Ganlin, JIANG Yaqiong, LIU Zhifeng, et al (7519)

Research progress on population investigation methods for wild giant panda
..... SHI Xuwei, ZHANG Jindong, OUYANG Zhiyun (7528)

Review of domestic industrial ecological security research PENG Xinsha, TIAN Dalun (7538)

Research Paper

Dynamics of decadal changes in the distribution of cultivation regions with climate suitable for the Fuji apple in China
..... QU Zhenjiang, ZHOU Guangsheng (7551)

Dissolved oxygen in water affects the tolerance of two terrestrial plants, *Alternanthera philoxeroides* and *Hemarthria altissima*, to
complete submergence DU Hui, ZHANG Xiaoping, ZENG Bo (7562)

Point pattern and spatial association of primary plant populations in the seasonal regulation of grazing intensity in desert grassland ...
..... SUN Shixian, WEI Zhijun, WU Xinhong, et al (7570)

Evaluation method for landscape connectivity based on graph theory: a case study of natural forests in Minqing County, Fujian
Province QI Ke, FAN Zhengqiu (7580)

Dynamic vegetation cover change over the past 10 years on the Loess Plateau, China
..... XIAO Qiang, TAO Jianping, XIAO Yang (7594)

The spatiotemporal variability of May—June maximum temperature in past 300 years on the Qinghai Plateau, according to tree
ring records ZHANG Ruibo, YUAN Yujiang, YU Shulong, et al (7603)

Seasonal dynamics and allometric growth relationships of C, N, and P stoichiometry in the organs of *Cunninghamia lanceolata*
from Huitong CHEN Chan, WANG Guangjun, ZHAO Yue, et al (7614)

Organic carbon allocation pattern and changes regulation in various organs of *Phyllostachys violascens* clone system in shooting
period JI Linke, XIE Jinzhong, ZHANG Wei, et al (7624)

Analysis of soil spatial variability in a subtropical evergreen and deciduous broad-leaved mixed forest in southwest Hubei Province ...
..... FENG Guang, YAO Lan, AI Xunru, et al (7635)

Spatial distribution and interannual dynamics of tree seedlings at different successional stages in a conifer and broad-leaved mixed
forest in Jiaohe, Jilin Province, China YAN Yan, YAO Jie, Zhang Xinna, et al (7644)

Analysis of the spatial variational characteristics of saline-alkaline soil types in non-agriculture land in Manas River Basin,
Xinjiang, China WEI Yang, DING Jianli, WANG Fei, et al (7655)

Spatiotemporal pattern of net primary productivity in the Hanjiang River Basin ZHANG Jing, REN Zhiyuan (7667)

Effects of anthropogenic disturbances on the species diversity and niche of the dominant populations in a *Castanopsis fargesii*
secondary forest community in Bifengxia, Sichuan HAO Jianfeng, LI Yan, QI Jinqiu, et al (7678)

Responses of phenology to climate change over the major grassland types
..... MIAO bailing, LIANG Cunzhu, HAN Fang, et al (7689)

Identifying the priority conservation areas for key national protected terrestrial vertebrate species based on a random forest model
in China JIN Yu, ZHOU Kexin, GAO Jixi, et al (7702)

Bird diversity research using audio record files and the spectrogram segmentation method JIANG Jingang, SHAO Xiaoyun, WAN Haibo, et al (7713)

Population viability analysis of Sichuan snub-nosed monkeys (*Rhinopithecus roxellana*) in the Dapingyu region of the Qinling Mountains, China WANG Chengliang, WANG Xiaowei, ZHAO Haitao, et al (7724)

Relationships between geographic patterns of ant species richness and environmental factors in China SHEN Mengwei, CHEN Shengbin, BI Mengjie, et al (7732)

Metabolic characteristics of the microbial community on the basis of carbon source in black soil profiles in northeastern China WANG Zi, HAN Xiaozeng, ZHANG Zhiming, et al (7740)

Ecological status of a natural intertidal oyster reef in Haimen County, Jiangsu Province QUAN Weimin, ZHOU Weifeng, MA Chunyan, et al (7749)

Seasonal variation of bacterial community diversity in Yangshan Port XUE Junzeng, XIAO Nanyan, WANG Qiong, et al (7758)

Assessment and spatiotemporal analysis of the ecosystem services value of island: a case study of Jintang Island ZHAO Jiang, SHEN Gang, YAN Lijiao, et al (7768)

Research on the state and spatiotemporal evolution of ecological civilization in the urban agglomeration on the middle reaches of the Yangtze River MA Yong, HUANG Zhixun (7778)

Developmental trend forecasting of tourism ecological security trends: the case of Mount Putuo Island ZHOU Bin, YU Hu, ZHONG Linsheng, et al (7792)

Ecological security pattern establishment & strategies for developing construction land in landscape-type city CHU Jinlong, WANG Pei, GU Kangkang, et al (7804)

Spatiotemporal variations of pollutant emissions and their relationship with the urbanization of the Beijing-Tianjin-Hebei agglomeration CHEN Xiang, ZHOU Weiqi, HAN Lijian, et al (7814)

Phenological variation in different vegetation types and their response to climate change in the Qilian Mountains, China, 1982—2014 JIA Wenxiong, ZHAO Zhen, ZU Jiaxing, et al (7826)

Below-ground organic carbon distribution and burial characteristics of the Gaoqiao mangrove area in Zhanjiang, Guangdong, Southern China ZHU Yaojun, ZHAO Feng, GUO Julian, et al (7841)

Ecological risk pattern of Poyang Lake basin based on land use XU Yu, ZHONG Yexi, FENG Xinghua, et al (7850)

Analysis of land cover changes in southwestern China since the 1990s ... ZHENG Zhaoju, ZENG Yuan, ZHAO Yujin, et al (7858)

《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		ACTA ECOLOGICA SINICA	
(SHENGTAI XUEBAO)		(Semimonthly, Started in 1981)	
(半月刊 1981 年 3 月创刊)		Vol. 36 No. 23 (December, 2016)	
第 36 卷 第 23 期 (2016 年 12 月)			
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	北京北林印刷厂	Printed by	Beijing Bei Lin Printing House, Beijing 100083, 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 国内外公开发行人 国内邮发代号 82-7 国外发行代号 M670 定价 90.00 元
CN 11-2031/Q

