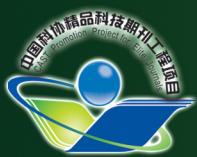


中国科学引文数据库（CSCD）核心期刊  
英国 CABI 文摘数据库来源期刊  
中国科技核心期刊  
中国精品科技期刊

ISSN 1001-0629  
CN 62-1069/S



# 草业科学

PRATACULTURAL SCIENCE

第36卷第4期 2019年4月



中国草学会主办  
兰州大学草地农业科技学院

# 草业科学

## CAOYE KEXUE

第 36 卷第 4 期 ( 总第 309 期 )

2019 年 4 月

### 青藏高原高寒草地生态系统适应性管理专辑

#### 目 次

0933 青藏高原高寒草地生态系统的适应性管理	孙 建 张振超 董世魁
<b>前植物生产层</b>	
0939 若尔盖地区沙化草地土壤酶协同和抑制效应	王 毅 刘碧颖 刘 苗 孙 建 曾 涛
0952 青藏高原北麓河流域不同退化程度高寒草甸土壤呼吸特征	赖炽敏 薛 娜 赖日文 李成阳 尤金刚 张文娟 刘斐耀 彭 飞
0960 藏北高寒草地土壤有机质化学组成对土壤 CO <sub>2</sub> 排放的影响	马书琴 鲁旭阳
0970 人工干预对黄河源区沙化草地土壤微生物群落的影响	张文娟 薛 娜 彭 飞 尤金刚 潘 晶 李成阳 赖炽敏
0980 藏北高寒草地土壤冻融过程水热变化特征	冉洪伍 范继辉 黄 菁
0991 冻融过程土壤水热力耦合作用及其模型研究进展	冉洪伍 范继辉 黄 菁
1000 围栏封育高寒草地植物地上生物量和物种多样性对关键调控因子的响应	陈智勇 谢迎新 刘 苗
1010 青藏高原不同退化梯度高寒草地植被与土壤属性分异特征	詹天宇 侯 阁 刘 苗 孙 建 付 顺
1022 牦牛放牧强度对青藏高原东缘高寒草甸群落结构与土壤理化性质的影响	周国利 程云湘 马青青 申 波 曲 久 田 富 常生华
1032 青藏高原高寒草地植被物候时空变化特征	黄文洁 曾桐瑶 黄晓东
1044 青藏高原北麓河流域不同退化程度高寒草甸生产力和群落结构特征	李成阳 赖炽敏 彭 飞 薛 娜 尤金刚 张文娟 刘斐耀
1053 气候要素和土壤质地对青藏高原草地净初级生产力和降水利用率的影响	何楷迪 孙 建 陈秋计
1066 藏北高寒草原典型物种凋落物分解与养分动态	陈有超 马书琴 鲁旭阳
1074 基于 BIOMOD 的黄河源区高原鼠兔潜在分布及其影响因子	杜嘉星 孙 义 向 波 陈建军 秦 或 侯秀敏 于红妍 宜树华

- 1084 高山草原鼠兔 (*Ochotona curzoniae*) 洞口密度  
与植被物种和土壤性质的关系：以申扎县  
为例 侯 阁 詹天宇 刘 苗
- 1094 高原鼠兔洞穴密度与高寒草甸植物群落结  
构以及土壤因子的关系 田 富 程云湘 周国利 马青青 申 波 曲 久  
常生华
- 1105 三江源草地植被群落与土壤性质对不同鼠  
兔密度的响应 刘碧颖 王 毅 刘 苗 曾 涛

#### 植物生产层

- 1117 西藏日喀则地区 8 个引进燕麦品种的生产  
性能和营养品质比较 张光雨 王江伟 张豪睿 付 刚 沈振西
- 1126 不同积雪厚度下的高山草地植物个体与功  
能群水平的性状 王金牛 周天阳 高 景 周海燕 杜文涛
- 1137 青藏高原东南缘沙地 3 种治沙草本根系形  
态格局特征 陈有军 苟小林 孙 建 董全民 周青平

#### 后生物生产层

- 1148 2010 – 2017 年藏北高寒退化草地禁牧恢复  
效果评价 冯云飞 李 猛 李少伟 邸迎伟 沈振西 张宪洲  
余成群 严 俊 席永士 武建双
- 1163 近 35 年青藏高原植被带变化对气候变化及  
人类活动的响应 魏彦强 芦海燕 王金牛 孙 建 王旭峰
- 1177 农户对气候变化的适应能力评价及限制因  
子：基于青藏高原典型农业区调查数据 张 亮 魏彦强 周 强 刘峰贵 陈 琼 杨登兴  
赵 佩 侯志瑞

#### 业界信息

(951, 1125, I, II )

封面照片：高寒草地生态系统的适应性管理应以生态学理论为基础，实现草地资源的可持续利用和草地生态系统的保护与恢复。本专辑收录了关于青藏高原草地退化和恢复关键生态过程和机制等方面的研究成果，以期为高寒草地生态系统的保护和管理提供科学依据。封面照片由本期作者武建双拍摄于西藏 - 阿里措勤县磁石乡。

期刊基本参数：CN 62-1069/S \* 1984 \* m \* A4 \* 256 \* zh \* P \* 20.00 \* ¥ 4000 \* 24 \* 2019-04 \* n

# PRATACULTURAL SCIENCE

Monthly Vol.36 No.4 April 2019

## CONTENTS

- 0933 Adaptive management of alpine grassland ecosystems over Tibetan Plateau SUN Jian, ZHANG Zhenchao, DONG Shikui
- 0939 Synergistic and inhibitory effects of soil enzymes along desertified gradients of the Zoige alpine meadow WANG Yi, LIU Biying, LIU Miao, SUN Jian, ZENG Tao
- 0952 Alpine meadows at different levels of degradation in the Beiluhe Basin of Tibetan Plateau: Characteristics of soil respiration LAI Chimin, XUE Xian, LAI Riwen, LI Chengyang, YOU Quangang, ZHANG Wenjuan, LIU Feiyao, PENG Fei
- 0960 Effects of soil organic matter chemical quantity on carbon dioxide emissions in alpine grassland soils in Northern Tibet MA Shuqin, LU Xuyang
- 0970 Effect of human intervention on soil microbial community in desertification grassland of the Yellow River Source Region ZHANG Wenjuan, XUE Xian, PENG Fei, YOU Quangang, PAN Jing, LI Chengyang, LAI Chimin
- 0980 Characteristics of water and heat change during the freezing-thawing process of soil profiles in the alpine cold steppe, Northern Tibetan Plateau RAN Hongwu, FAN Jihui, HUANG Jing
- 0991 Review of the coupling of water and heat in the freeze-thaw process and its model of frozen soil RAN Hongwu, FAN Jihui, HUANG Jing
- 1000 Responses of aboveground biomass and species richness to environmental factors in a fenced alpine grassland CHEN Zhiyong, XIE Yingxin, LIU Miao
- 1010 Different characteristics of vegetation and soil properties along degraded gradients of alpine grasslands in the Qinghai-Tibet Plateau ZHAN Tianyu, HOU Ge, LIU Miao, SUN Jian, FU Shun
- 1022 Effects of grazing intensity on community structure and the soil's physical and chemical properties in an alpine meadow on the eastern Qinghai-Tibet Plateau ZHOU Guoli, CHENG Yunxiang, MA Qingqing, SHEN Bo, QU Jiu, TIAN Fu, CHANG Shenghua
- 1032 Spatiotemporal dynamics of alpine grassland phenology on the Tibetan Plateau HUANG Wenjie, ZENG Tongyao, HUANG Xiaodong
- 1044 Alpine meadows at different stages of degradation in the Beiluhe Basin of the Qinghai-Tibet Plateau: Productivity and community structure characteristics LI Chengyang, LAI Chimin, PENG Fei, XUE Xian, YOU Quangang, ZHANG Wenjuan, LIU Feiyao
- 1053 Response of climate and soil texture to net primary productivity and precipitation-use efficiency in the Tibetan Plateau HE Kaidi, SUN Jian, CHEN Qiuji
- 1066 Litter decomposition and nutrient dynamics of typical plant species in an alpine steppe ecosystem in Northern Tibet CHEN Youchao, MA Shuqin, LU Xuyang

- 1074 Potential distribution of plateau pika and its influence factors in the source region of the Yellow River Basin using BIOMOD  
DU Jiaxing, SUN Yi, XIANG Bo,  
CHEN Jianjun, QIN Yu, HOU Xumin,  
YU Hongyan, YI Shuhua
- 1084 Relationship between plateau pika (*Ochotona curzoniae*) burrow entrance densities and the density of different plant species and soil properties in alpine steppe: A case study of Shenza County  
HOU Ge, ZHAN Tianyu, LIU Miao
- 1094 Relations of density of pika borrow with plant community structure and soil in alpine meadows on the eastern Qinghai-Tibetan Plateau  
TIAN Fu, CHENG Yunxiang, ZHOU Guoli,  
MA Qingqing, SHEN Bo, QU Jiu,  
CHANG Shenghua
- 1105 Response of vegetation community and soil properties of grassland to different density gradients of *Ochotona curzoniae* in the Sanjiangyuan Region  
LIU Biying, WANG Yi, LIU Miao, ZENG Tao
- 1117 Comparative study on production performance and nutritional quality of eight imported oat varieties in the Shigatse region of Tibet, China  
ZHANG Guangyu, WANG Jiangwei,  
ZHANG Haorui, FU Gang, SHEN Zhenxi
- 1126 Effect of different snow depths on plant traits at individual and functional group levels in an alpine meadow  
WANG Jinniu, ZHOU Tianyang, GAO Jing,  
ZHOU Haiyan, DU Wentao
- 1137 Root morphology patterns of three grasses used to restore the desert on the Southeast Tibetan Plateau  
CHEN Youjun, GOU Xiaolin, SUN Jian,  
DONG Quanmin, ZHOU Qingping
- 1148 Effectiveness of grazing exclusion on the restoration of degraded alpine grasslands on the Northern Tibetan Plateau from 2010 to 2017  
FENG Yunfei, LI Meng, LI Shaowei,  
DI Yingwei, SHEN Zhenxi, ZHANG Xianzhou,  
YU Chengqun, YAN Jun, XI Yongshi,  
WU Jianshuang
- 1163 Responses of vegetation zones, in the Qinghai-Tibetan Plateau, to climate change and anthropogenic influences over the last 35 years  
WEI Yanqiang, LU Haiyan, WANG Jinniu,  
SUN Jian, WANG Xufeng
- 1177 Assessment of the adaptation capacity of famers to climate change and limiting factor analysis: A survey in a typical agricultural area on the Qinghai-Tibet Plateau  
ZHANG Liang, WEI Yanqiang, ZHOU Qiang,  
LIU Fenggui, CHEN Qiong, YANG Dengxing,  
ZHAO Pei, HOU Zhirui