

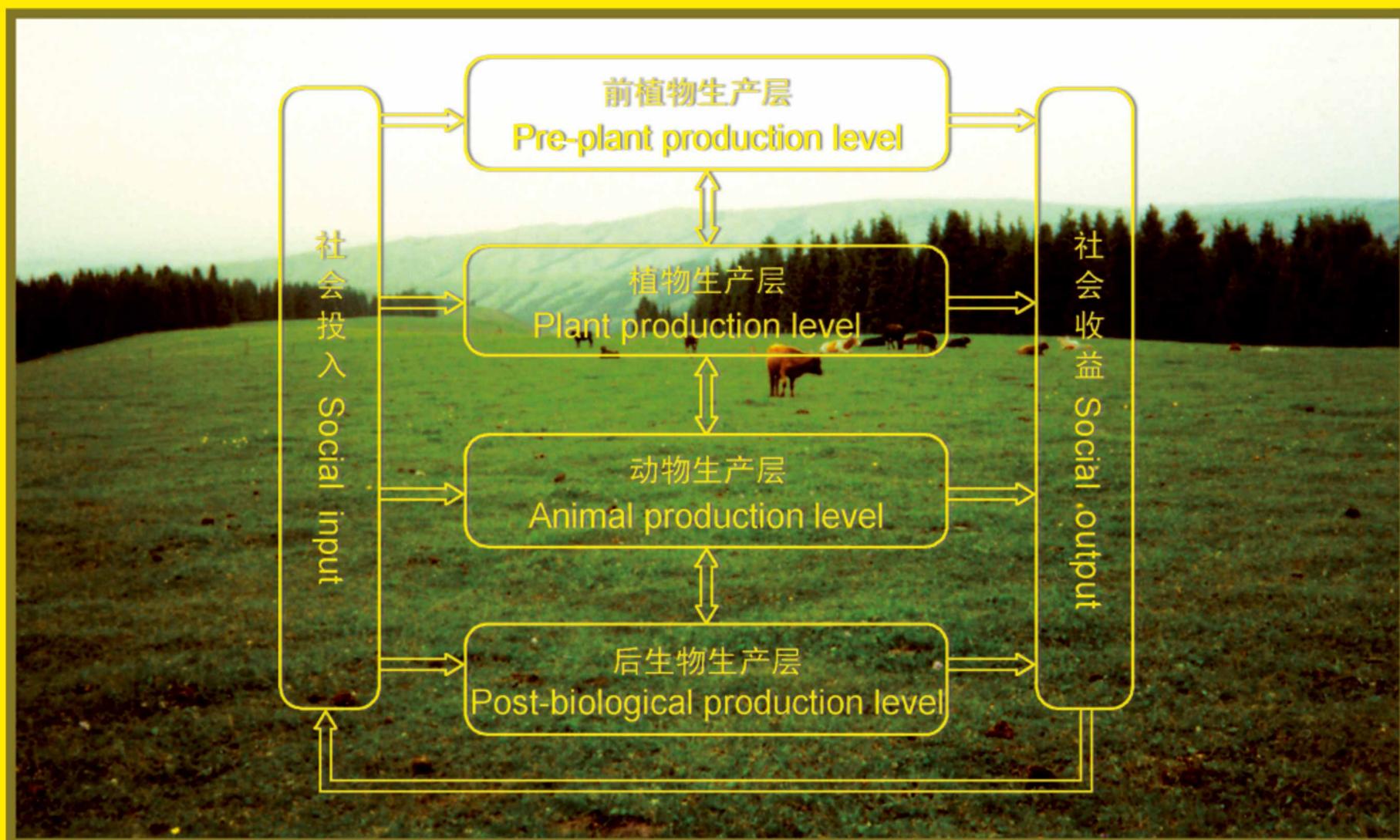
百种中国杰出学术期刊  
中国科学引文数据库 (CSCD) 核心期刊  
英国CABI文献数据库来源期刊  
中国科技论文统计源期刊 (中国科技核心期刊)



ISSN 1004-5759  
CN 62-1105/S

# 草业学报

ACTA PRATACULTURAE SINICA



第30卷 Vol.30

10/2021

中国草学会

CAOYE XUEBAO

# 草业学报

(CAO YE XUE BAO)

2021年10月 第30卷 第10期 (月刊)

## 目次

### 研究论文

- 基于多源遥感数据提高山地森林识别精度——以祁连山国家公园肃南县段为例 ..... 宋洁, 刘学录(1)
- 呼伦贝尔草甸草原区主要植物种群生态位特征与物种多样性对封育年限响应  
..... 聂莹莹, 陈金强, 辛晓平, 等(15)
- 践踏对草垫式人造-天然混合草坪质量的影响 ..... 张桐瑞, 李富翠, 韩烈保, 等(26)
- 新疆阿勒泰地区荒漠草地土壤有机碳特征及其环境影响因素分析 ..... 刘慧霞, 董乙强, 崔雨萱, 等(41)
- 磷对铝胁迫紫花苜蓿幼苗根系生长和生理特征的影响 ..... 王如月, 袁世力, 文武武, 等(53)
- 箭筈豌豆种植密度对土壤微生物养分代谢的影响 ..... 周诗晶, 罗佳宁, 刘仲森, 等(63)
- 不同燕麦品种在尼泊尔北部山区的生长特性及其营养品质的研究  
..... 旦增塔庆, Purna Bhadra Chapagain, Shankar Raj Pant, 等(73)
- 瑞香狼毒根提取物对3种作物种子萌发和幼苗生长的化感作用 ..... 高玉莲, 常静, 王贻卉, 等(83)
- 白三叶草叶片感染白粉病的细胞生理变化及其病原鉴定 ..... 杨凯, 史娟, 袁玉涛, 等(92)
- 羊草 *LcCBF6* 基因的表达特性和功能研究 ..... 李倩, 李晓霞, 程丽琴, 等(105)
- 盐处理下旱生植物沙芥蛋白激酶相关基因的差异表达分析 ..... 汪芳珍, 杨成行, 何子华, 等(116)
- 盐胁迫下施加氮素对饲用油菜有机渗透调节物质积累的影响 ..... 田甜, 王海江, 王金刚, 等(125)
- 红壤旱地上4种冬绿肥适宜播种量研究 ..... 陈晓芬, 张路平, 秦文婧, 等(137)
- 玉米秸秆与番茄皮渣裹包混贮发酵品质及瘤胃降解特征研究 ..... 付东青, 贾春英, 连晓春, 等(147)
- 岩藻多糖对肉兔生长性能、血清生化指标及养分表观消化率的影响 ..... 张磊, 韩雪林, 张娟, 等(159)
- 不同添加剂对构树青贮饲料发酵品质和蛋白质降解的影响 ..... 吴长荣, 代胜, 梁龙飞, 等(169)
- 基于 Web of Science 数据库禾草内生真菌生物碱论文计量统计分析 ..... 张若晨, 李涛, 姚祥, 等(180)

### 综合评述

- 植物非叶绿体器官光合特征研究进展 ..... 汪辉, 田浩琦, 毛培胜, 等(191)
- 草地综合顺序分类法研究新热点:2008-2020年回顾与展望 ..... 林慧龙, 范迪, 冯琦胜, 等(201)

### 相关信息

- 《草业学报》投稿须知 ..... (214)

---

封面图片:框图引自任继周主编《草地农业生态系统通论》 背景为新疆天山牧场(张自和摄) 封面设计为张雪邛,史春燕

期刊基本参数:CN62-1105/S \* 1990 \* m \* A4 \* 214 \* zh \* P \* ¥25.00 \* 2000 \* 19 \* 2021-10 \* n

# ACTA PRATA CULTURAE SINICA

Volume 30, Number 10. October 20th, 2021

---

## CONTENTS

- Improving the accuracy of forest identification in mountainous areas from multi-source remote sensing data——  
the Sunan County section of Qilian Mountains National Park as an example ..... SONG Jie, LIU Xue-lu (1)
- Responses of niche characteristics and species diversity of main plant populations to duration of enclosure in  
the Hulun Buir meadow steppe ..... NIE Ying-ying, CHEN Jin-qiang, XIN Xiao-ping, *et al* (15)
- Effects of trampling intensity on the quality of artificial carpet hybrid turf ..... ZHANG Tong-rui, LI Fu-cui, HAN Lie-bao, *et al* (26)
- Environmental factors influencing soil organic carbon and its characteristics in desert grassland in Altay, Xinjiang  
..... LIU Hui-xia, DONG Yi-qiang, CUI Yu-xuan, *et al* (41)
- Effects of phosphorus on root growth and photosynthetic physiology of alfalfa seedlings under aluminum stress  
..... WANG Ru-yue, YUAN Shi-li, WEN Wu-wu, *et al* (53)
- The effects of *Vicia sativa* planting density on soil microbial nutrient metabolism  
..... ZHOU Shi-jing, LUO Jia-ning, LIU Zhong-miao, *et al* (63)
- Growth characteristics and nutritive value of multiple oat varieties in mountainous Northern Nepal  
..... Tenzin Tarchen<sup>1</sup>, Purna Bhadra Chapagain<sup>2</sup>, Shankar Raj Pant<sup>2</sup>, Jiebu<sup>3\*</sup>, Gesang Dunzhu<sup>4</sup>, CHEN Shao-feng<sup>1</sup> (73)
- Allelopathic effects of *Stellera chamaejasme* on seed germination and growth of three crops  
..... GAO Yu-lian, CHANG Jing, WANG Yi-hui, *et al* (83)
- Pathogen identification and cell physiological changes of *Trifolium repens* leaves infected with powdery mildew  
..... YANG Kai, SHI Juan, YUAN Yu-tao, *et al* (92)
- Expression characteristics and functional analysis of the *LcCBF6* gene from *Leymus chinensis*  
..... LI Qian, LI Xiao-xia, CHENG Li-qin, *et al* (105)
- Analysis of differentially expressed protein kinase related genes in the xerophyte *Pugionium cornutum* under salt treatment  
..... WANG Fang-zhen, YANG Cheng-hang, HE Zi-hua, *et al* (116)
- Effects of nitrogen application on accumulation of organic osmotic regulating substances in forage rapeseed  
(*Brassica napus*) under salt stress ..... TIAN Tian, WANG Hai-jiang, WANG Jin-gang, *et al* (125)
- A study of the appropriate seeding rates for four winter green manure crops in an upland red soil of Southern China  
..... CHEN Xiao-fen, ZHANG Lu-ping, QIN Wen-jing, *et al* (137)
- Fermentation quality and *in rumen* degradability of mixed silage from maize stalk and tomato pomace in varying proportions  
..... FU Dong-qing, JIA Chun-ying, LIAN Xiao-chun, *et al* (147)
- Effects of fucoidan on the growth performance, serum biochemical indexes, and nutrient apparent digestibility of meat rabbits  
..... ZHANG Lei, HAN Xue-lin, ZHANG Juan, *et al* (159)
- Effects of different additives on fermentation quality and protein degradation of *Broussonetia papyrifera* silage  
..... WU Chang-rong, DAI Sheng, LIANG Long-fei, *et al* (169)
- A bibliometric analysis of research on the role of alkaloids produced by grass endophytic fungi based on the Web of  
Science database ..... ZHANG Ruo-chen, LI Tao, YAO Xiang, *et al* (180)
- Progress in research on the photosynthetic characteristics of green non-leaf organs in plants  
..... WANG Hui, TIAN Hao-qi, MAO Pei-sheng, *et al* (191)
- New focus for the study of the Comprehensive Sequential Classification System for grassland: A review from 2008 to  
2020 and prospects for future research ..... LIN Hui-long, FAN Di, FENG Qi-sheng, *et al* (201)