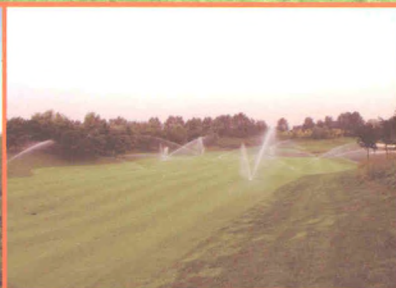


ISSN 1007-0435  
CN 11-3362/S



# 草地学报

## ACTA AGRESTIA SINICA



中文核心期刊  
中国科技核心期刊  
《中国科学引文数据库》(C库)源期刊  
美国《化学文摘》(CA)收录期刊  
美国汤姆森·路透数据库(Thomson Reuters)源期刊  
英国《国际农业与生物科学中心文摘》(CABI)收录期刊  
英国《动物学记录》(ZR)收录期刊  
波兰《哥白尼索引》(IC)收录期刊

4  
Vol.26  
2018



中文核心期刊  
 中国科技核心期刊  
 中国农业核心期刊  
 RCCSE 中国权威学术期刊  
 《中国科学引文数据库》C 库期刊  
 《CAJ-CD 规范》执行优秀期刊  
 中国科协精品科技期刊工程项目

**草地学报**  
 CAODI XUEBAO  
 ACTA AGRESTIA SINICA

第 4 期  
 第 26 卷  
 2018 年 7 月  
 1991 年创刊(双月刊)

主管:中国科学技术协会  
 主办:中国草学会  
 承办:中国农业大学

主 编:王 堃  
 编辑部主任:周 禾  
 责任编辑:郭建鑫,贾 婉  
 英文编辑:刘克思,张万军,  
 王克华  
 编 务:葛慧荣

编辑出版:《草地学报》编辑部  
 地址:北京海淀区圆明园西路 2 号  
 中国农业大学动科大楼 152 室  
 邮编:100193  
 电话/传真:(010)62733894  
 E-mail:cdxb@cau.edu.cn  
 http://www.cdxb.org

印刷:北京科信印刷有限公司  
 国内总发行:北京报刊发行局  
 订阅:全国各地邮局(所)  
 国内邮发代号:80-135  
 国内每期定价:25.00 元  
 国外总发行:中国国际图书贸易  
 总公司  
 国外发行代号:1949(BM)

刊号:ISSN 1007-0435  
 CN 11-3362/S

基本参数:  
 CN11-3362/S \* 1991 \* b \* A<sub>1</sub>  
 \* 252 \* zh \* P \* 25.00 \* 500  
 \* 34 \* 2018-07

**目 次**

**专论与进展**

草原火研究综述 ..... 姜 莉,玉山,乌兰图雅,都瓦拉(791)  
 内蒙古草原蝗虫区划及其绿色防控配套技术研究 ..... 马崇勇,杜桂林,张卓然,等(804)

**研究论文**

松嫩平原根茎冰草同生群无性系构件的生长可塑性及分配规律 ..... 袁继红,凌 巧,李海燕,等(811)  
 铁杆蒿枯落物对四种豆科牧草的化感作用 ..... 雷威肖,李 伟,郭 梁,等(818)  
 羊草有性生殖数量性状对不同外源植物激素喷施时间和浓度的响应 ..... 李晓宇,王 彪,张继涛,等(826)  
 温带典型草原土壤理化性质及微生物量对放牧强度的响应 ..... 郭嘉华,王立新,张景慧,等(832)  
 不同刈割强度对封育沙地植被生长状况的影响 ..... 张 亮,马维伟,田 青,等(841)  
 河南黄背草群落碳、氮密度空间变化及其驱动因素分析 ..... 赵 威,王 馨,王艳杰,等(846)  
 基于光谱指数的伊犁绢蒿荒漠草地恢复状况的判定 ..... 武红旗,范燕敏,靳瑰丽,等(853)  
 2000-2016 年新疆伊犁河谷草地 NDVI 变化趋势分析 ..... 闫俊杰,张 静,雷 雨,等(859)  
 香豆素和咖啡酸对紫花苜蓿根尖和根缘细胞发育的影响 ..... 陶 茸,尹国丽,师尚礼(869)  
 甘南州临潭县青稞根际土壤养分含量、酶活性和微生物数量与根腐病的关系研究 ..... 漆永红,曹素芳,李雪萍,等(877)  
 补贴政策实施、肉羊价格波动对牧户收入的影响研究——基于内蒙古锡林郭勒盟 111 户牧户实地调查数据 ..... 祁晓慧,刘贺贺,张 宝,等(885)  
 不同覆土厚度对伊犁地区公路护坡植被质量的影响 ..... 李宏钧,张晓峰,刘 涛(893)  
 气候变化背景下我国扁蓿豆潜在适生区预测 ..... 武自念,侯向阳,任卫波,等(898)  
 人工调控对三江源区多年生禾草混播草地生产性能的影响 ..... 施建军,马玉寿,董全民,等(907)

青藏高原高寒区 I-D 燕麦品系饲草生产性能及品质评价 ..... 梁国玲,秦 燕,魏小星,等(917)  
 扦插部位、时间和 IBA 浓度对“紫光”狼尾草(*Pennisetum alopecuroides* ‘Ziguang’) 茎秆扦插成活的影响 ..... 胡耀芳,范希峰,滕 珂,等(928)  
 硒锌和富啡酸配施对紫花苜蓿叶片抗氧化酶活性及产量的影响 ..... 田春丽,李 斌,刘 芳,等(935)  
 添加剂对温湿生境青贮玉米发酵品质及有氧稳定性的影响 ..... 袁仕改,陈 超,张明均,等(942)

河北地区 22 个紫花苜蓿品种的生产性能比较研究 ..... 吕会刚,康俊梅,龙瑞才,等(948)  
 羊粪浸提液对燕麦种子萌发特性的影响 ..... 史威威,张 佩,张 涛(959)  
 施氮对晋北燕麦饲草主要农艺性状及干物质产量的影响 ..... 孙建平,薛竹慧,杨国义,等(964)  
 修剪高度对季节性温度变化下早熟禾生理生态特性的影响 ..... 宋娅丽,王克勤(971)  
 高尔夫球场湖水中毒死蜱和溴氧菊酯的残留分析 ..... 唐少霞,陈 艳,贾桂云,等(978)  
 25 份鸢尾属植物基因组 DNA C 值的流式测定 ..... 林 峰,肖月娥,周翔宇,等(985)

**技术研发**

高寒草甸家庭牧场管理模型的初步开发 ..... 王贵珍,花立民,杨思维,等(991)  
 燕麦镰孢菌环介导等温扩增(LAMP) 检测方法的建立与应用 ..... 漆永红,曹素芳,李雪萍,等(1004)  
 饲料油菜与玉米秸秆混合青贮品质研究 ..... 阴法庭,张玉龙,石 婧,等(1011)  
 阿勒泰富蕴县春秋牧场生产能力的研究 ..... 赵芸君,哈尔·阿力,锥诚龙,等(1020)

**研究转包**

糖蜜和乳酸菌对去穗玉米秸秆青贮发酵品质的影响 ..... 李龙兴,龚正发,黎 俊,等(1026)  
 沙打旺早熟新品系“东农”的品比试验 ..... 马晓春,秦立刚,崔国文,等(1030)  
 桑园种草养鸡对土壤养分含量变化的影响 ..... 王介平,杨金龙,吕金凤,等(1035)  
 24 个紫花苜蓿品种在阿鲁科尔沁旗的生产性能评价 ..... 杨秀芳,梁庆伟,娜日苏,等(1038)

**欢迎投稿 欢迎订阅**

《草地学报》是中国科协主管、中国草学会主办、中国农业大学承办的学术刊物,是了解草地科学前沿科技、创新成果和草业发展的重要窗口。刊登国内外草地科学研究及相关领域的新成果、新理论、新进展,以研究论文为主,兼发少量专稿、综述、简报和博士论文摘要,主要面向从事草地科学、草地生态、草地畜牧业和草坪业及相关领域的高校师生和科研院、所、站的科研人员。稿件要求详见本刊《投稿须知》。

《草地学报》被国内外多家重要检索机构收录,入编北京大学图书馆和北京高校图书馆期刊工作研究会主持完成的《中文核心期刊要目总览》(2011 年版),2012 年影响因子为 1.202(据中信所 2013 版《中国科技期刊引证报告(核心版)》)。

本刊逢单月月末出版,国内外公开发行人。国内邮发代号:80-135;国外代号:Q1949。每期定价 25 元,全年 150 元。若错过邮订时间,可直接向本刊编辑部订购(中国草学会会员订阅可优惠 30%)。

开户名:中国草学会 开户行:北京农商银行海淀新区支行农大分理处  
 账 号:040703010300000056

# ACTA AGRESTIA SINICA

No. 4, 2018

Vol. 26

Started in 1991(Bimonthly)

## Administration Agency

China Association for Science  
and Technology

## Sponsored by

Chinese Grassland Society  
China Agricultural University,  
Beijing 100193

## Editor-in-Chief

WANG Kun

## Responsible Editor

GUO Jian-xin

JIA Wan

## Edited by

Editorial Board of A. A. S.

Tel. / Fax: 010-62733894

E-mail: cdxh@cau.edu.cn

http://www.cdxh.org

## Printed by

Beijing Kexin

Printing Co., Ltd.

## Distributed by

Beijing Bureau for Distribution  
of Newspapers and Journals

## Domestic

All Local Post Offices in China  
(Periodical No. 80-135)

## Foreign

China International Book Trading  
Corporation(P. O. Box 399, Beijing,  
China)(Code:1949BM)

# CONTENTS

Summary of Grassland Fire Research .....	JIANG Li, YU Shan, Wulantuya, <i>et al</i> (791)
Research of Grassland Locust Regionalization and Its Green Prevention-Control Matching Technology in Inner Mongolia .....	MA Chong-yong, DU Gui-lin, ZHANG Zhuo-ran, <i>et al</i> (804)
Growth Plasticity and Trade-offs of Clonal Modules on <i>Agropyron michnoi</i> Cohort Clones in the Songnen Plain .....	YUAN Ji-hong, LING Qiao, LI Hai-yan, <i>et al</i> (811)
Allelopathy of <i>Artemisia gmelinii</i> Litter on Four Legume Forages .....	LEI Wei-xiao, LI Wei, GUO Liang, <i>et al</i> (818)
Quantitative Traits of Sexual Reproduction of <i>Leymus chinensis</i> Responding to Different Exogenous Plant Hormones Concentration and Spraying Time .....	LI Xiao-yu, WANG Biao, ZHANG Ji-tao, <i>et al</i> (826)
Response of Soil Properties and Microbial Biomass to Different Grazing Intensities in Temperate Typical Steppe .....	WU Jia-hua, WANG Li-xin, ZHANG Jing-hui, <i>et al</i> (832)
The Effects of Different Cutting Intensities on the Growth of Vegetation in the Fencing Sandy Land .....	ZHANG Liang, MA Wei-wei, TIAN Qing, <i>et al</i> (841)
Spatial Variation and Driving Factors of Carbon and Nitrogen Density of <i>Themeda japonica</i> Community in Henan Province .....	ZHAO Wei, WANG Xin, WANG Yan-jie, <i>et al</i> (846)
Estimation of the Restoration Status of <i>Seriphidium transiliense</i> Desert Grassland Based on Spectral Index .....	WU Hong-qi, FAN Yan-min, JIN Gui-li, <i>et al</i> (853)
Analysis of the Changing Trend of Grassland NDVI in the Ili Valley of Xinjiang during 2000-2016 .....	YAN Jun-jie, ZHANG Jing, LEI Yu, <i>et al</i> (859)
Effects of Coumarin and Caffeic Acid on the Root Growth and Root Border Cells of Alfalfa .....	TAO Rong, YIN Guo-li, SHI Shang-li (869)
Study on the Relationship between Root Rot Disease and Nutrient Content, Enzyme Activity and Microbial Quantity in Rhizosphere Soil of Naked Barley in Lintan County, Gannan State .....	QI Yong-hong, CAO Su-fang, LI Xue-ping, <i>et al</i> (877)
Study on the influence of the Implementation of the Award Premium Policy and the Fluctuation of Mutton Price on Herdsmen's Income—Based on Survey Data of 111 Herdsmen in Xilingol League of Inner Mongolia .....	QI Xiao-hui, LIU He-he, ZHANG Bao, <i>et al</i> (885)
The Effect of Different Soil Thickness on Slope-protection Vegetation Quality in Ili Highway .....	LI Hong-jun, ZHANG Xiao-feng, LIU Tao (893)
Prediction of the Potential Distribution of <i>Medicago ruthenica</i> in China under Climate Change .....	WU Zi-nian, HOU Xiang-yang, REN Wei-bo, <i>et al</i> (898)
Effects of Artificial Regulation on Production Performance of Perennial Grass Mixtures in the Region of Three Rivers Sources .....	SHI Jian-jun, MA Yu-shou, DONG Quan-min, <i>et al</i> (907)
Evaluation on Productivity and Quality of Oat Strain I-D in the Alpine Regions of the Qinghai-Tibetan Plateau .....	LIANG Guo-Ling, QIN Yan, WEI Xiao-Xing, <i>et al</i> (917)
Effects of Cutting Position, Time and IBA Concentrate on Shoot Cuttings Propagation Survival of Chinese Fountaingrass ( <i>Pennisetum alopecuroides</i> 'Ziguang') .....	HU Yao-fang, FAN Xi-feng, TENG Ke, <i>et al</i> (928)
Effect of Se-Zn and Fulvic Acid Combined Application on the Antioxidant Enzyme Activity of Alfalfa Leaves and Hay Yield .....	TIAN Chun-li, LI Bin, LIU Fang, <i>et al</i> (935)
Effects of Additives on the Fermentation Quality and Aerobic Stability of Silage Corn under Warm and Wet Climate .....	YUAN Shi-gai, CHEN Chao, ZHANG Ming-jun, <i>et al</i> (942)
Yield Evaluation of 22 Alfalfa Cultivars in Hebei Area .....	LV Hui-gang, KANG Jun-mei, LONG Rui-cai, <i>et al</i> (948)
Effect of Dung Extracts of Sheep on Oat Seed Germination .....	SHI Wei-wei, ZHANG Pei, ZHANG Tao (959)
Effects of Nitrogen Addition on the Yield and Quality of Oat in Northern Shanxi .....	SUN Jian-ping, XUE Zhu-hui, YANG Guo-yi, <i>et al</i> (964)
Effects of Different Mowing Heights on Physiological and Ecological Characteristics of Kentucky Bluegrass in Response to Seasonal Temperature Changes .....	SONG Ya-li, WANG Ke-qin (971)
Analysis of Residue of Chlorpyrifos and Deltamethrin in Lake Water of Golf Courses .....	TANG Shao-xia, CHENG Yan, JIA Gui-yun, <i>et al</i> (978)
Estimation of Genomic C Value of 25 Samples of Iris Plants by Flow Cytometry .....	LIN Feng, XIAO Yue-e, ZHOU Xiang-yu, <i>et al</i> (985)
The Preliminary Development of Alpine Meadow Family Pasture Management Model .....	WANG Gui-zhen, HUA Li-min, YANG Si-wei, <i>et al</i> (991)
Development of a Loop-mediated Isothermal Amplification Assay for Detection of <i>Fusarium avenaceum</i> .....	QI Yong-hong, CAO Su-fang, LI Xue-ping, <i>et al</i> (1004)
Quality of Silage Made with Different Ratios of Feed Rape and Corn Stalk .....	YIN Fa-ting, ZHANG Yu-long, SHI Jing, <i>et al</i> (1011)
Study on the Production of Spring and Autumn Pasture in Fuyun County, Aletai Region .....	ZHAO Yun-jun, HA Er, LUO Chen-long, <i>et al</i> (1020)
The Effects of Molasses and Lactic Acid Bacteria on the Fermentation Quality of Ear-removed Corn Straws Silage .....	LI Long-xing, GONG Zheng-fa, LI Jun, <i>et al</i> (1026)
The Comparison Test of Early Maturing Cultivars of 'DongNong' <i>Astragalus adsurgens</i> .....	MA Xiao-chun, QIN Li-gang, CUI Guo-wen, <i>et al</i> (1030)
Effects of Raising Chickens by Planting Grass on Soil Nutrient Content in Mulberry Field .....	WANG Jie-ping, YANG Jin-long, LV Jing-feng, <i>et al</i> (1035)
Evaluation of Production Performance of 24 Introduced Varieties of Alfalfa in Aituke'rqin County .....	YANG Xiu-fang, LIANG Qing-wei, NA Ri-su, <i>et al</i> (1038)

刊号:  $\frac{\text{ISSN } 1007-0435}{\text{CN } 11-3362/S}$

定价:  $\frac{25.00 \text{ 元/册}}{150.00 \text{ 元/年}}$

ISSN 1007-0435

