Научные публикации по сельскому хозяйству из КНР в Национальной инфраструктуре знаний Китая (CNKI)

Липенский А. В.
Эксперт по электронным ресурсам
ООО «Датаграмм»

Федеральное государственное бюджетное научное учреждение
«ЦЕНТРАЛЬНАЯ НАУЧНАЯ СЕЛЬСКОХОЗЯЙСТВЕННАЯ БИБЛИОТЕКА»

Clarivate

2025 Research Fronts Report

Annual report identifies 110 hot and 18 emerging Research Fronts

Clarivate and the Chinese Academy of Sciences (CAS) released the 2025 Research Fronts, an annual report that identifies key areas of research to watch. This report marks the 12th annual collaboration between the two organizations and was launched at a ceremony held in Beijing.

Complete the form to download the report.

First Name*

https://discover.clarivate.com/Research_Fronts_2025_EN

DECEMBER 8, 2025

New Clarivate Report Reveals Mainland China as Emerging Global Biopharma Innovation Leader

Out-Licensing Deals Reach $50 Billion as Chinese Biopharma Innovators Drive Breakthrough Science

LONDON, U.K. December 8, 2025 Clarivate Plc (NYSE: CLVT), a leading global provider of transformative intelligence, in partnership with Healthcare Executive (E 药经理人), one of the most influential information and resources platforms of the Chinese pharmaceutical industry, today released its latest report, Mainland China Biopharma Innovation 2.0: from rapid growth to quality driven development. The report reveals Mainland China has reached a historic milestone in global pharmaceutical innovation, emerging as the world's second-largest market for first launches of new molecular entities (NMEs), capturing an 18% share in 2024. Now in its seventh year, the report highlights a fundamental transformation of Mainland China's biopharmaceutical sector, from the Innovation 1.0 Great Leap Forward era of rapid expansion to an Innovation 2.0 phase defined by sustainable, quality-focused growth and global recognition.

https://clarivate.com/news/new-clarivate-report-reveals-mainland-china-as-emerging-global-biopharma-innovation-leader/

A landmark insight from Clarivate.

Mainland China is now **the second-largest market for new drug launches**, driving global biopharma transformation. Our latest report, **China Biopharma Innovation 2.0**, reveals how supportive policies, cutting-edge technologies, and strategic partnerships are shaping the future of healthcare.

18%

of global first launches of NMEs

450%

growth in patents since 2020

$50B

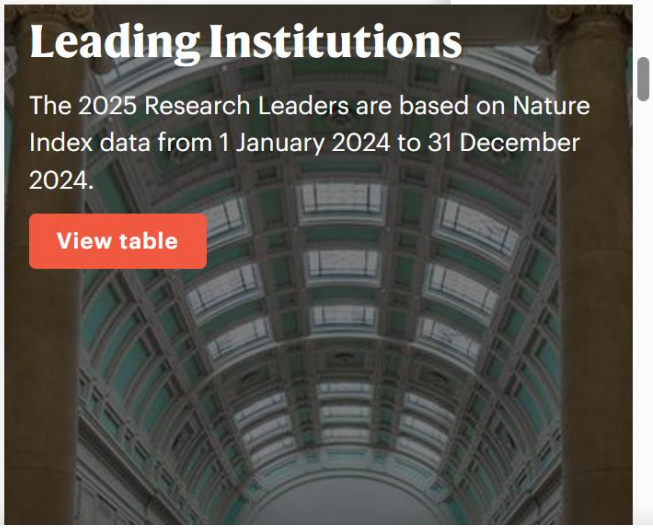
in out-licensing deals

38%

share of global TPD publications

nature index | Tables | Feature and comment | Nature Index 2025 Research Leaders: United States losing ground a

Position	Institution	Share 2023	Share 2024	Count 2024
1 ★	Chinese Academy of Sciences (CAS), China	2253.62	2776.90	9445
2	Harvard University, United States of America (USA)	1206.87	1155.19	3915
3 ★	University of Science and Technology of China (USTC), China	651.48	850.60	2609
4 ★	Zhejiang University (ZJU), China	598.53		
5 ★	Peking University (PKU), China	622.03		



Country/territory rankings

Time frame: 1 September 2024 - 31 August 2025

Using the drop-down menus, choose the region of interest, and filter by subject area or journal group.

Region: Global | Subject or journal group: All | Apply | Reset

Showing 50 from 1 to 50 of 192 results | Export table

Position	Country/territory	Count	Share
1 ★	China	43370	37986.66
2	United States of America (USA)	32455	22202.39
3	Germany	10838	5015.05
4	United Kingdom (UK)	9852	3995.15
5	Japan	5973	3399.18

https://www.nature.com/nature-index/

Nature Research Intelligence Topics

Time frame: 1 September 2024 - 31 August 2025

The Nature Research Intelligence Topics are created from networks of articles that cite each other, or articles that are very similar to each other, and we have over 30,000 topics at the most granular level, grouped into a 4-level hierarchy. On the Nature Index we show topics from the 2nd level of the hierarchy that have enough articles to provide insights on the topic.

All | Applied sciences | Biological sciences | Chemistry | Earth & environmental sciences | Health sciences | Physical sciences | Social sciences

Bar | Bubble

Applied sciences Biological sciences Chemistry Health sciences Physical sciences

5-year topic growth

Position		Topic	% increase	Count
1	★	Organic Chemistry	+138%	+3271
2	★	Physical Chemistry	+41%	+2138
3	★	Chemical Engineering	+97%	+2092
4		Quantum Physics	+102%	+1792
5		Clinical Sciences	+50%	+1742
6	★	Electrical Engineering	+2607%	+1434
7		Bioinformatics and Computational Biology	+195%	+1425
8		Immunology	+269%	+1003
9	★	Macromolecular and Materials Chemistry	+18%	+952
10	★	Pharmacology and Pharmaceutical Sciences	+158%	+927

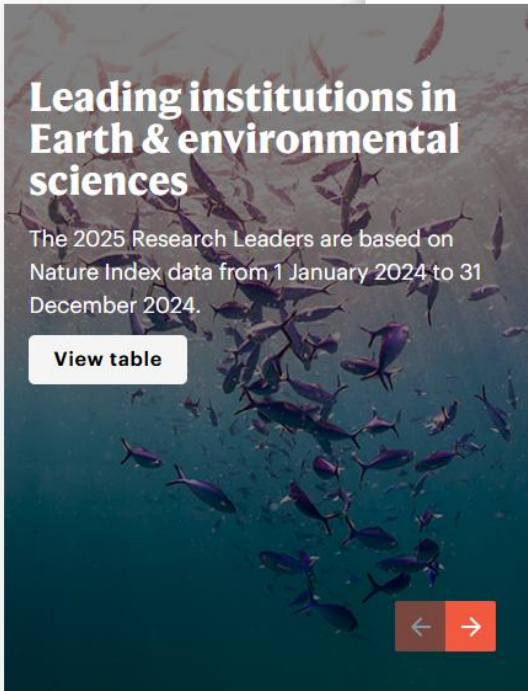
Position	Institution	Share 2023	Share 2024	Count 2024
1	Harvard University, United States of America (USA)	530.01	530.58	1672
★ 2	Chinese Academy of Sciences (CAS), China	307.69	376.55	1449
3	Max Planck Society, Germany	245.15	284.97	1018
4	National Institutes of Health (NIH), United States of America (USA)	278.37	276.88	735
5	Stanford University, United States of America (USA)	188.37	222.57	752

View full table >

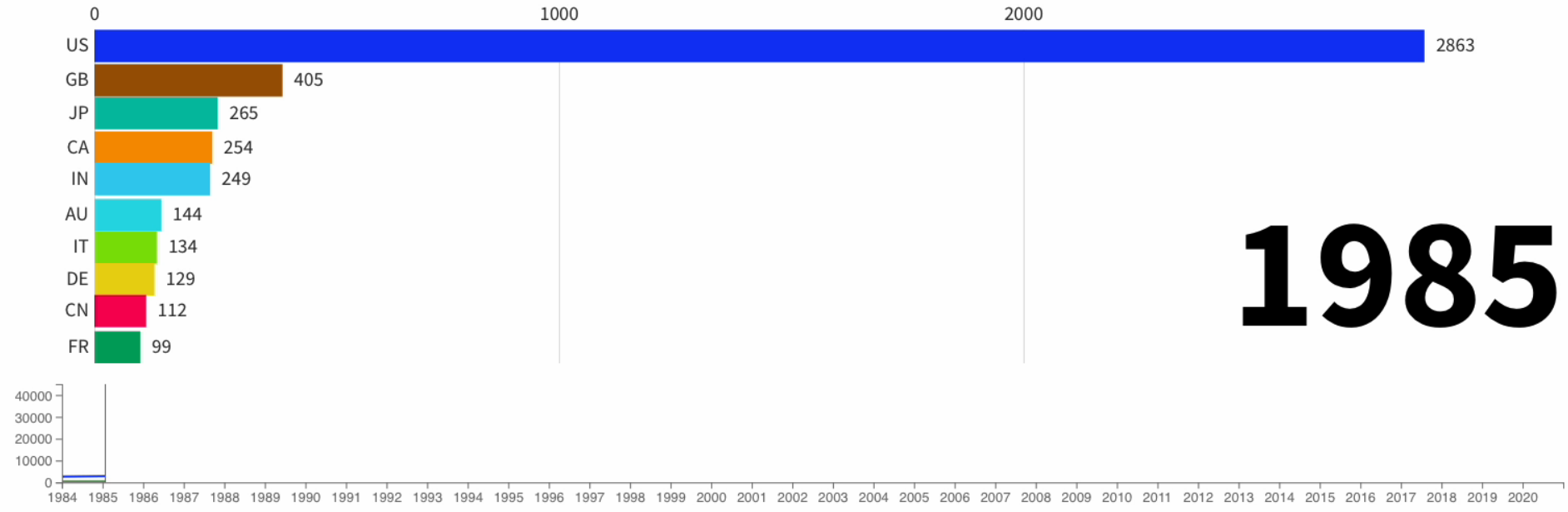
nature index | Tables | Feature and comment | Nature Index 2025 Research Leaders: United States losing ground as China's

Position	Institution	Share 2023	Share 2024	Count 2024
★ 1	Chinese Academy of Sciences (CAS), China	420.35	529.57	1729
2	Nanjing University (NJU), China	128.55	150.91	479
3	Helmholtz Association of German Research Centres, Germany	123.56	141.15	502
4	University of Chinese Academy of Sciences (UCAS), China	92.01	130.38	682
5	Peking University (PKU), China	107.56	128.34	512

View full table >



RENEWABLE ENERGY



From Scinapse.io

scinapse

南京農業大學
Nanjing Agricultural University

南京理工大学
NANJING UNIVERSITY OF SCIENCE & TECHNOLOGY

Файлы

основной

Перейти к файлу

- изображения
- README.md
- README_EN.md

Синонг / README_EN.md ↑ Вершина

Предварительный просмотр | Код | Обвинять | Сырой

Вертикальная крупномасштабная модель для общего сельскохозяйственного сектора

Сбор данных и обучение модели

Опираясь на дисциплинарные особенности Нанкинского с
обширные данные по конкретным поддисциплинам, таким

Тип данных	Объем
Книги	8863 тома
Документы	243 897 статей
Политики, стандарты, патенты и т. д.	196 748 документов

https://github.com/njauzzx/Sinong/tree/main


cnki.net

China National Knowledge Infrastructure (CNKI)

- Ключевой проект национальной информационной структуры Китая
- Ведущее национальное научно-исследовательское и информационно-издательское учреждение Китая
- В 1995 г. проект инициирован Университетом Цинхуа и Цинхуа Тунфан Холдинг Групп
- Поддерживается правительством КНР, ЦК КПК, Министерством образования, Министерством Науки и Технологий, Главным управлением по печати и публикациям и Национальным управлением по авторскому праву.
- Продвижение крупномасштабной оцифровки знаний Китая и создание ресурсов и платформы для глобального распространения контента и дополнительных сервисов
- Китайские цифровые библиотечные технологии собственной разработки и онлайн-платформа обмена ресурсами CNKI на передовом международном уровне

Эволюция CNKI

1995 Цифровое издательство China Academic Journals (CD-ROM). Революция в издательской отрасли КНР

1999 China Journal Net – официальный запуск первого ресурса из проекта China National Knowledge Infrastructure (CNKI)

2003 Сотрудничество с Гонконгским университетом, послужившее началом международной экспансии: представительства в Германии, Японии, Южной Корее и на Тайване.

2008 Релиз Academic Misconduct Literature Check System – системы обнаружения нарушений в академической литературе

2020 Более 1000 партнеров по всему миру, завершение работы над World Knowledge Big Data Platform. Количество метаданных на иностранных языках достигло 100 миллионов записей.

2023 Запущена многоязыковая платформа CNKI International Platform, поддерживающая китайский, английский, японский, корейский, русский и арабский языки.

2023 Релиз Huazhi Large Language Model и CNKI AI

2025 Представлены революционные решения интегрированных информационных ИИ сервисов 'AI for Library,' 'AI for Knowledge‘, 'ThesisWize.'

Цифровые ресурсы CNKI: локальные и международные

200+

Стран

Международные сервисы

35 тыс.

Организаций

100% охват научно-исследовательских организаций в КНР

150 млн.

Пользователей

2,3 млрд.

Загрузок ежегодно

TOP3

По трафику пользователей

AI Service Matrix

CNKI AI, AIGC Detection, AI Data, AI Pat+……

Technology Foundation

Huazhi LLM, MaaS Platform, AI KBase…

Цифровые ресурсы: World Knowledge Big Data, Ultra-large-scale Cross-industry LLM Corpus...

Самый полный источник: Охватывает более 95% академических публикаций КНР

Высокие академические стандарты: Разработано для университетов, широко используется в процессах академической интеграции.

Глубокая связь со знанием: От поиска литературы до новых открытий.

CNKI дисциплины и коллекции

	Естественные, технические науки, медицина					Социальные и гуманитарные науки				
10 Series	Mathematics/ Physics/ Mechanics/ Astronomy	Chemistry/ Metallurgy/ Environment/ Mine Industry	Architecture/ Energy/ Traffic/ Electromechanics, etc	Agriculture	Medicine & Public Health	Literature/ History/ Philosophy	Politics/ Military Affairs/ Law	Education & Social Sciences	Electronic Technology & Information Science	Economics & Management
168 Subject (Subdisciplin)	13	14	15	10	28	24	17	13	10	24

Journals

- 64 million+ Full-text Articles
- 8,630+ Academic Journals
- 3,700+ Titles Back to Founding Years

Dissertations

- 500+ Doctoral & 780+ Master Degree-granting Units
- 7.5M+ Dissertations & Theses

Books

- 18,486 Volumes Books
- 5,400+ Types of Yearbooks
- 12,000+ Reference Works

Proceedings

- 45,000+ Domestic Conferences and International Conferences
- 3 million+ Articles

Newspapers

- 709 Major Newspapers
- 17.85 million+ Articles

Patents

- 57.4 million+ Chinese patent records
- since 1985

Standards

- 610,000+ Standards

Achievements

- 1.2 million+ Achievements

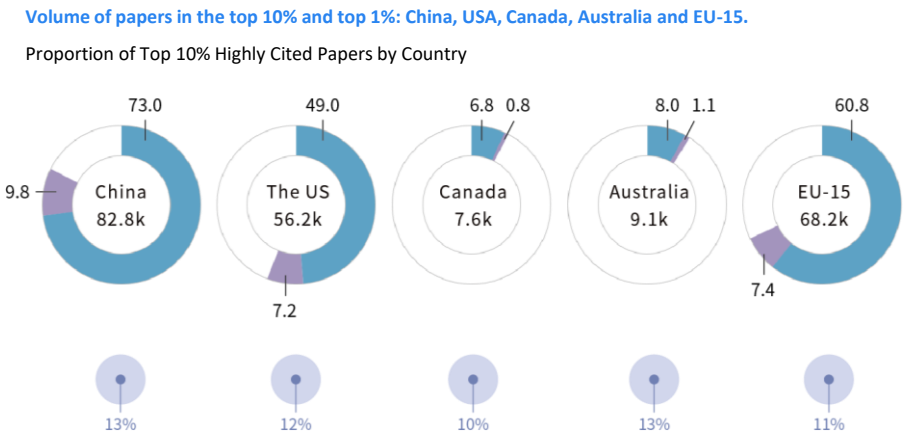
Statistics

- 2918 Types
- 34660 Volumes of Statistical Data
- 1251076 Indicators

Почему CNKI?

Высокие показатели цитирования – признание

13% научных работ Китая входят в число 10% самых цитируемых в мире, что сопоставимо с показателями США и Европейского союза. По доле в 1% самых цитируемых статей Китай занимает первое место в мире· (Digest of Japanese Science and Technology Indicators 2022, NISTEP)

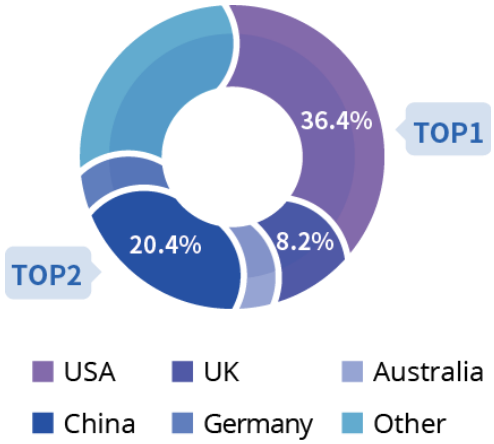


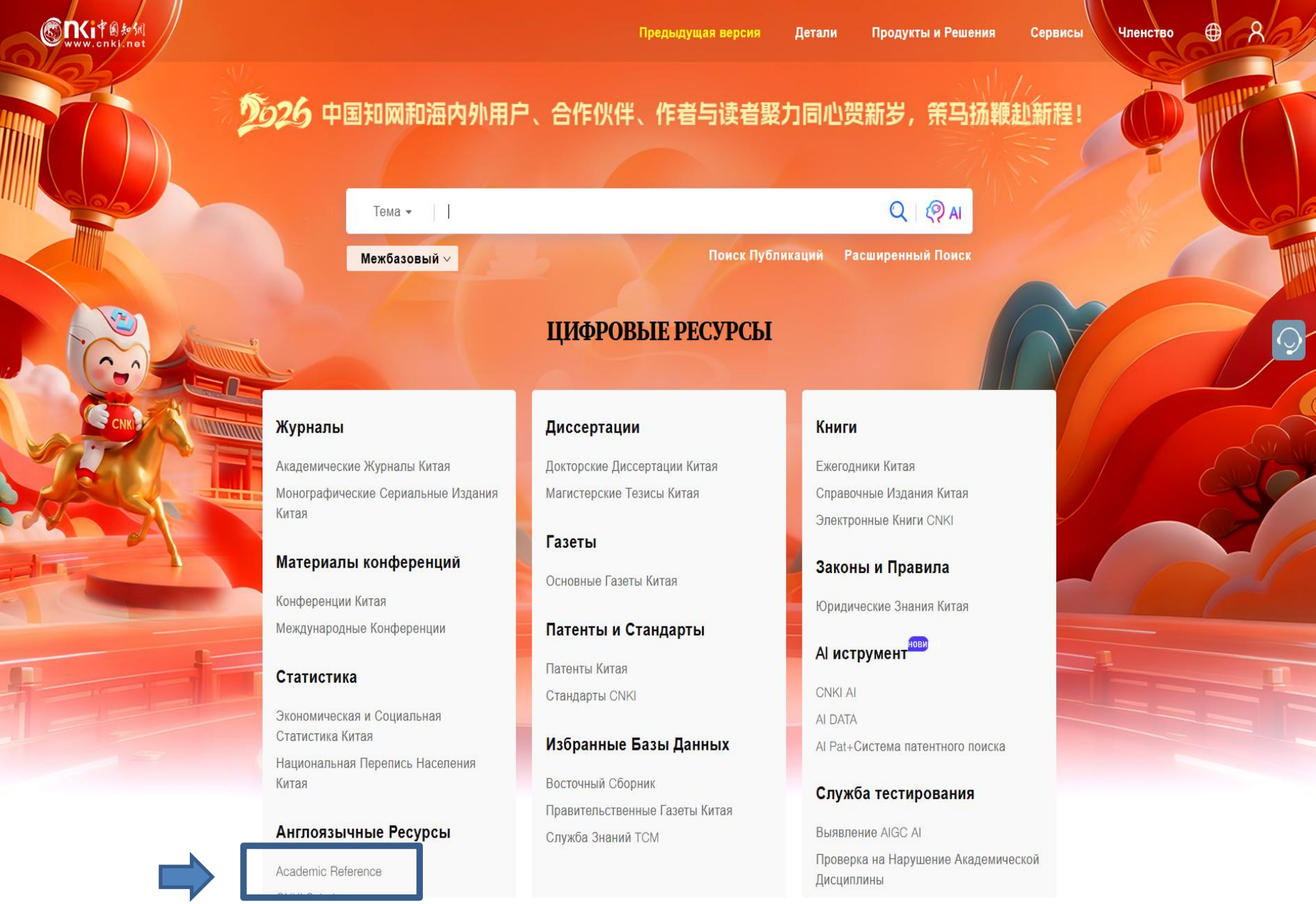
Качество публикаций НИИ КНР

7 китайских исследовательских институтов входят в десятку лучших в мире по объему научных работ. (Nature Index 2024 Research Leaders)

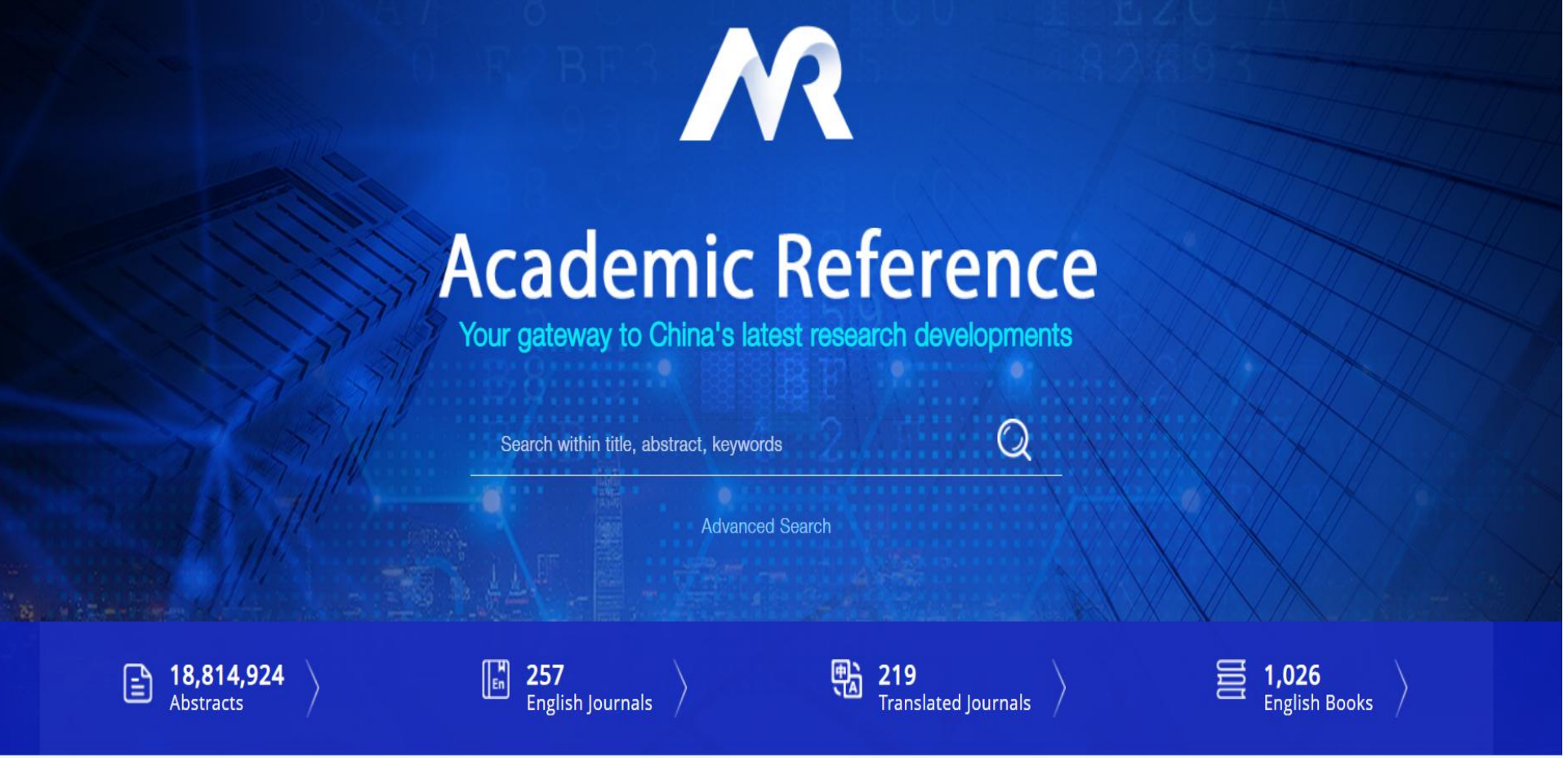
Стремительный рост количества высокоцитируемых авторов

В 2024 году в Китае насчитывалось 1405 высокоцитируемых исследователей, что составляет 20,4% от общего числа в мире. (Clarivate 2024 Highly Cited Researchers)





https://oversea.cnki.net/rus/



Resources

15,227,623 articles
Journal article

703,181 articles
Doctoral dissertation

4,683,813 articles
Master's thesis

1,400,151 articles
Conference paper

37,977 chapters
Book chapter

988,945 items
Bilingual Glossary

1,349,983 articles
Yearbook entry

Тематические серии

Subjects

Mathematics/ Physics/ Mechanics/ Astronomy

Chemistry/ Metallurgy/ Environment/ Mine Industry

Architecture/ Energy/ Traffic/ Electromechanics, etc

Literature/ History/ Philosophy

Electronic Technology & Information Science

Agriculture

Politics/ Military Affairs/ Law

Education & Social Sciences

Medicine & Public Health

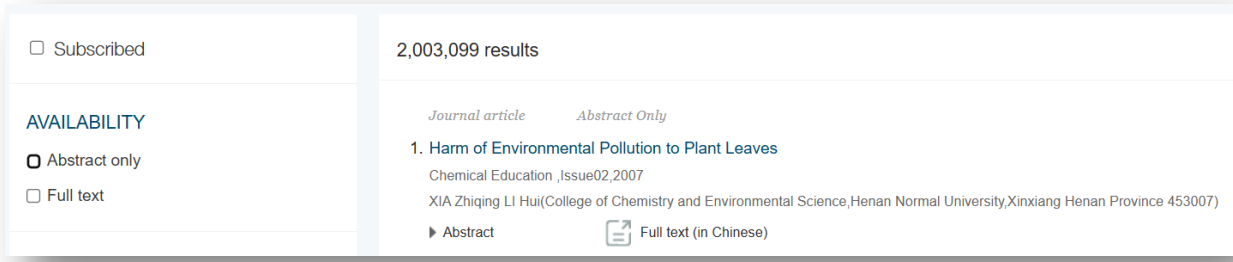
Economics & Management

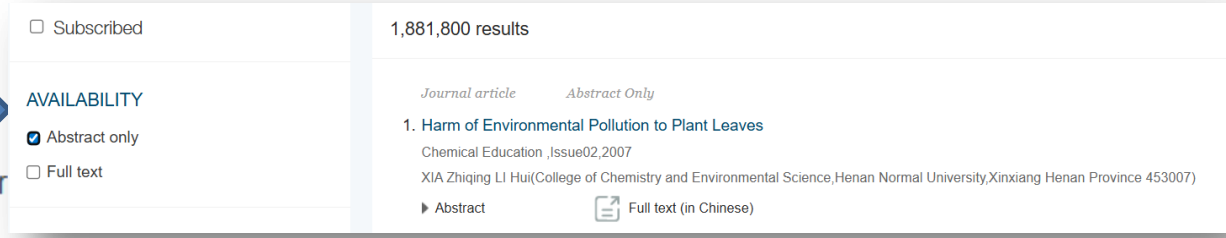
Academic Reference

Search within title, abstract, keywords

Advanced Search

- [x] Agriculture
  - [ ] Crop
  - [ ] Horticulture
  - [ ] Forestry
  - [ ] Animal Husbandry and Veterinary
  - [ ] Plant Protection
  - [ ] Fundamental Science of Agriculture
  - [ ] Agronomy
  - [ ] Aquaculture and Fishery
  - [ ] Agricultural Engineering
  - [ ] Silkworm and Honeybee, Wild Animal Pr





English Journals

Agricultural Science & T…

Comprehensive IF:0.344

Combined IF:0.484

Animal Diseases

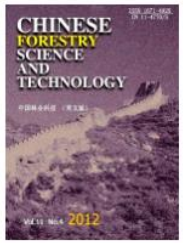
Comprehensive IF:0.056

Combined IF:0.169

Animal Nutrition

Comprehensive IF:1.753

Combined IF:2.797



Chinese Forestry Scienc…

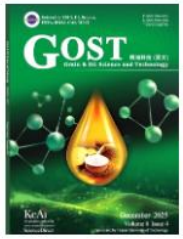
Chinese Rice Research …

Forest Ecosystems

Comprehensive IF:0.795

Combined IF:1.199

Forestry and Society Ne…



Grain & Oil Science and …

Comprehensive IF:0.675

Combined IF:1.175

Journal of Animal Scienc…

Comprehensive IF:1.616

Combined IF:2.669

Journal of Cotton Resea…

Comprehensive IF:0.608

Combined IF:0.824

Journal of Forestry Rese…

Comprehensive IF:0.640

Combined IF:1.120

Journal of Integrative Ag…

Comprehensive IF:1.116

Combined IF:2.024

Академические издательства КНР

中国科技出版传媒股份有限公司
China Science Publishing & Media Ltd.(CSPM)
科学出版社

TSINGHUA UNIVERSITY PRESS

高等教育出版社
HIGHER EDUCATION PRESS

北京科学技术出版社有限公司
Beijing Science and Technology Publishing Co.,Ltd.

Chinese Academy of Social Sciences (CASS)
中国社会科学院

西安工程大学
XI'AN POLYTECHNIC UNIVERSITY

THE CHINESE ECONOMISTS SOCIETY

湖南人文科技学院
Hunan University of Humanities, Science and Technology

北京理工大学
BEIJING INSTITUTE OF TECHNOLOGY

JINGDEZHEN CERAMIC INSTITUTE

人民音乐出版社
PEOPLE'S MUSIC PUBLISHING HOUSE

Journal article *Full text access*

1. Investigation on the action mechanisms of taurine on rumen microbial crude protein synthesis and nitrogen metabolism in beef steers using sodi

动物营养(英文) ,Issue03,2025

Manman Fan;Jinming Hu;Cheng Liu;Shuo Zhang;Yufeng Liu;Guangyong Zhao;State Key Laboratory of Animal Nutrition and Feeding, College of Animal Science and T…

▸ Abstract  PDF

Journal article *Full text access*

2. Vitamin E inhibits inflammation and improves immune response of mud crabs(Scylla paramamosain) by activating an antioxidant enzyme systen

动物营养(英文) ,Issue03,2025

Xiangkai Li;Shichao Xie;Yuhang Yang;Zheng Tang;Yinqiu Tian;Haiqing Cao;Tingting Zhu;Min Jin;Peng Sun;Qicun Zhou;Laboratory of Fish and Shellfish Nutrition, Scho…

▸ Abstract  PDF

Journal article *Full text access*

3. β-Alanine decreases plasma taurine but improves nitrogen utilization efficiency in beef steers

动物营养(英文) ,Issue03,2025

Shuo Zhang;Yufeng Liu;Jinming Hu;Cheng Liu;Mengmeng Li;Guangyong Zhao;State Key Laboratory of Animal Nutrition and Feeding, College of Animal Science and T…

▸ Abstract  PDF

Translated Journals

Acta Entomologica Sinica

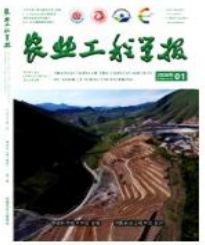
Comprehensive IF:0.958

Combined IF:1.145

Acta Agronomica Sinica

Comprehensive IF:2.425

Combined IF:3.190



Transactions of the Chin…

Comprehensive IF:2.615

Combined IF:3.446

Chinese Journal of Pesti…

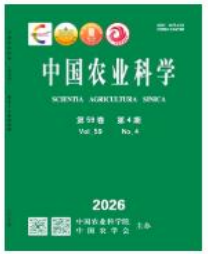
Comprehensive IF:1.690

Combined IF:1.971

Plant Protection

Comprehensive IF:3.225

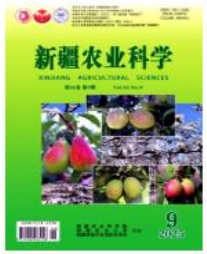
Combined IF:3.563



Scientia Agricultura Sinica

Comprehensive IF:2.487

Combined IF:3.191



Xinjiang Agricultural Scie…

Comprehensive IF:0.732

Combined IF:1.000

Journal of Tea Science

Comprehensive IF:1.782

Combined IF:2.156

Journal of Fruit Science

Comprehensive IF:1.737

Combined IF:2.170

Acta Agriculturae Univer…

Comprehensive IF:1.010

Combined IF:1.349

Chinese Journal of Radi…

Comprehensive IF:1.115

Combined IF:1.148

Journal of Northern Agric…

Comprehensive IF:0.859

Combined IF:1.17

Journal article *Full text access*

1. Study on the Correlation between the Activities of Key Enzymes Involved in Anthocyanin Synthesis and the Content of Important Polyphenols in

Journal of Tea Science ,Issue06,2020

CAO Bingbing;WANG Qiushuang;QIN Dandan;FU Donghe;FANG Kaixing;JIANG Xiaohui;LI Hongjian;WANG Qing;PAN Chendong;LI Bo;WU Hualing

▸ Abstract  PDF  Bilingual

Journal article *Full text access*

2. Research Progress of Tea Rhizosphere Microorganisms

Journal of Tea Science ,Issue06,2020

HUANG Fangfang;LI Qin;HUANG Jian'an

▸ Abstract  PDF  Bilingual

Journal article *Full text access*

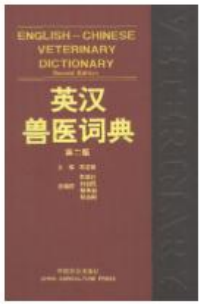
3. Quality Analysis of Tencha Made from Different Tea Cultivars

Journal of Tea Science ,Issue06,2020

MAO Yalin;WANG Fang;YIN Junfeng;XU Yongquan

▸ Abstract  PDF  Bilingual

English Books



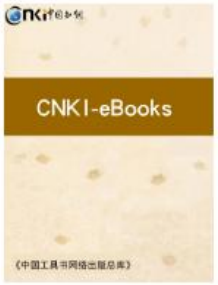
英汉兽医词典

English-Chinese Veterinary D...

陈凌风（主编）

中国农业出版社

2005



汉英中兽医辞典

蒋次,NFDBF（主编）

中国农业出版社

2003

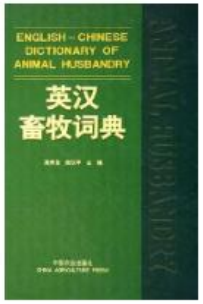
英汉兽医学词汇

English-Chinese Dictionary o...

张宝文;黄世寿（主编;副主编）

陕西人民出版社

1989



英汉畜牧词典

吴常信,阎汉平（主编）

中国农业出版社

2006

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TaSnRK2.1-2D Contributes to Drought Tolerance by Modulating ROS Production in Wheat

Nadeem Bhanbhro

10712

DOI: CNKI:CDMD:1.1025.435484

Keywords

MQTL;TaSnRK2.1-2D;Drought tolerance;ROS;Wheat(Triticum aestivum L.)

Abstract

Common wheat(Triticum aestivum L.)is one of the most widely consumed cereal crops globally,serving as a fundamental component of the daily diet for billions of people.As a staple food,wheat plays a pivotal role in global food security,providing a significant portion of the worlds caloric intake and serving as a primary source of protein,vitamins,and minerals.Beyond its nutritional value,wheat is a cornerstone of agricultural economies,contributing substantially to both domestic consumption and international trade.However,the productivity and sustainability of wheat cultivation are increasingly threatened by abiotic stresses,with drought being one of the most detrimental.Drought stress severely impacts wheat growth and development,leading to reductions in grain yield,plant height,and biomass production.These losses not only affect food supply but also have cascading effects on livestock feed production and agricultural economies.As global climate change exacerbates the frequency,intensity,and duration of drought conditions,understanding the molecular and genetic mechanisms underlying drought tolerance in wheat has become a critical priority for ensuring food security and agricultural resilience. (1)To address the challenges of drought stress in wheat,this study conducted a systematic review and meta-analysis of research published between 2000 and 2020,identifying 759quantitative trait loci(QTL)from 68 studies.These QTL were statistically integrated into 75meta-QTL(MQTL),revealing genomic regions with consistent effects on drought tolerance.A consensus genetic and physical map was constructed to pinpoint markers associated with these MQTL,providing a valuable resource for marker-assisted breeding.Additionally,113previously characterized drought-responsive genes were mapped,elucidating their allelic variations and potential roles in drought resilience.By consolidating fragmented genetic data,this study establishes a robust framework for molecular breeding,offering insights into the genetic architecture of drought tolerance in wheat.These findings not only advance the development of drought-resistant cultivars but also contribute to sustainable agricultural strategies under water-limited conditions.These MQTL collectively provide a comprehensive genetic map of drought tolerance hotspots in the wheat genome. (2)Among the candidate genes mapped to these regions,the Sn RK2 gene family emerged as a key player in drought stress signaling and response.Specifically,TaSnRK2.1-2D,a member of this gene family,was found to be strongly associated with drought tolerance through transcriptional profiling,under drought stress and functional validation studies.Further expression analysis of TaSnRK2.1-2D in 30 wheat accessions drought-

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博士学位论文

TaSnRK2.1-2D 通过调控活性氧（ROS）的产生增强小麦的耐旱性

培养单位 生命科学学院

学科专业 植物学

论文作者 Nadeem Bhanbhro

指导教师 陈坤明 教授

2025 年 5 月

ABSTRACT

Common wheat (*Triticum aestivum* L.) is one of the most widely consumed cereal crops globally, serving as a fundamental component of the daily diet for billions of people. As a staple food, wheat plays a pivotal role in global food security, providing a significant portion of the worlds caloric intake and serving as a primary source of protein, vitamins, and minerals. Beyond its nutritional value, wheat is a cornerstone of agricultural economies, contributing substantially to both domestic consumption and international trade. However, the productivity and sustainability of wheat cultivation are increasingly threatened by abiotic stresses, with drought being one of the most detrimental. Drought stress severely impacts wheat growth and development, leading to reductions in grain yield, plant height, and biomass production. These losses not only affect food supply but also have cascading effects on livestock feed production and agricultural economies. As global climate change exacerbates the frequency, intensity, and duration of drought conditions, understanding the molecular and genetic mechanisms underlying drought tolerance in wheat has become a critical priority for ensuring food security and agricultural resilience.

(1) To address the challenges of drought stress in wheat, this study conducted a systematic review and meta-analysis of research published between 2000 and 2020, identifying 759 quantitative trait loci (QTL) from 68 studies. These QTL were statistically integrated into 75 meta-QTL (MQTL), revealing genomic regions with consistent effects on drought tolerance. A consensus genetic and physical map was constructed to pinpoint markers associated with these MQTL, providing a valuable resource for marker-assisted breeding. Additionally, 113 previously characterized drought-responsive genes were mapped, elucidating their allelic variations and potential roles in drought resilience. By consolidating fragmented genetic data, this study establishes a robust framework for molecular breeding, offering insights into the genetic architecture of drought tolerance in wheat. These findings not only advance the development of drought-resistant cultivars but also contribute to sustainable agricultural strategies under water-limited conditions. These MQTL collectively provide a comprehensive genetic map of drought tolerance hotspots in the wheat genome.

(2) Among the candidate genes mapped to these regions, the SnRK2 gene family emerged as a key player in drought stress signaling and response. Specifically, *TaSnRK2.1-2D*, a member of this gene family, was found to be strongly associated with drought tolerance through transcriptional profiling, under drought stress and functional validation studies. Further expression analysis of *TaSnRK2.1-2D* in 30 wheat accessions drought-tolerant and drought-sensitive varieties, *TaSnRK2.1-2D* demonstrated significantly improve drought

signaling, reactive oxygen species (ROS), nitric oxide (NO)-mediated regulation, and microRNA-related mechanisms. The insights presented herein offer valuable resources for improving global wheat production and agricultural sustainability through molecular breeding strategies. Provide references.

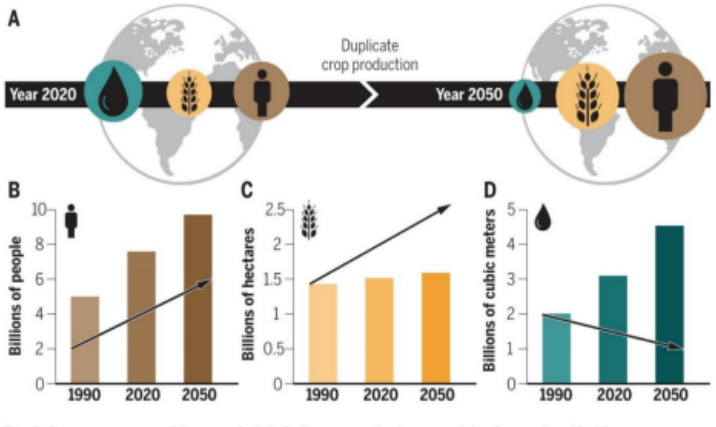

Figure 1-1. The past, present, and future of global climate, agriculture, and food security are of paramount concern. (A) Most projections indicate an increase in water scarcity in the forthcoming years. As the global population continues to expand, it is imperative that crop production also rises to meet the fundamental needs of society. To achieve this, plants must be optimized for greater water efficiency. (B) The estimated global population for the period 1990–2050 is depicted, with an arrow indicating the projected number of individuals residing in regions experiencing water scarcity. (C) The availability of global arable land for agriculture during the 1990–2050 period is illustrated, with an arrow denoting the anticipated demand for arable land necessary to ensure food security, given the current crop production rates per hectare. (D) The global demand for freshwater in agriculture for the 1990–2050 period is presented, with an arrow indicating the predicted reduction in freshwater availability for agricultural purposes, considering the prevailing trends in climate change and precipitation (Gupta et al., 2020).

1. 1 Effect of drought stress on common wheat (*Triticum aestivum* L.)

Drought stress is detrimental to wheat plant growth and development, with major effects including reduced plant size, leaf area, grain number, tiller number, and plant biomass, as well as early maturity, limited leaf extension, reduced photosynthesis, deactivation of photosynthetic enzymes, and diminished quality of protein, vitamins (notably B vitamins),

lateral root formation, improving root water absorption capacity and drought resistance in wheat (Figure 1-2).

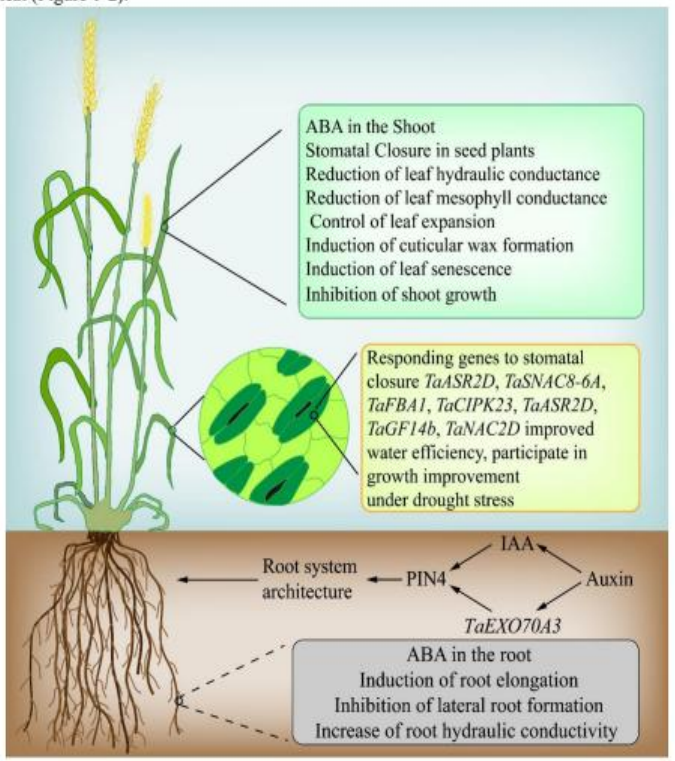

Figure 1-2. Schematic overview of the current understanding of how ABA content in wheat leaves and roots regulates stomatal movement, influencing plant form and function during drought. Root architecture, including structure and depth, can be modulated by *TaEXO70A3* and PIN4 independently of canonical auxin signaling, enhancing soil water uptake and drought tolerance (Bhanbhro et al., 2023).

1.2.2 Physiological response for drought stress

Developing drought-resistant wheat varieties is a critical objective in modern agriculture, particularly in the face of increasing water scarcity due to climate change. A key step in achieving this goal is the identification of orthologs of plant drought-resistant genes, which can serve as genetic resources for improving drought tolerance (Cheuk et al., 2020). Advances

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Adaptive Large Neighborhood Search Algorithm for Smart Farm Picking and Distribution Integration Problem

Yiran Pan;Zhonghua Miao;Nan Li;Shanghai University;

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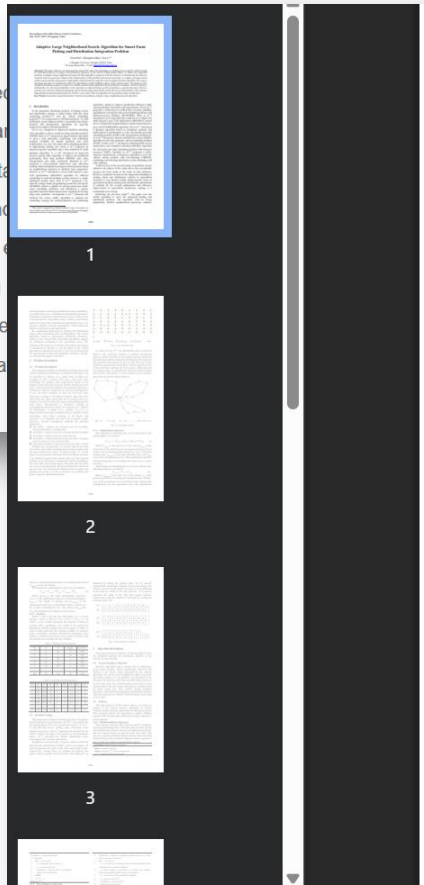
Keywords

Smart farm;;Agricultural robot;;Vehicle route planning;;Adaptive large neighborhood search algorithm

Abstract

This paper addresses an integration dec
production efficiency in the context of fa
with the objectives of minimizing the tota
integer-based solution representation and
are introduced to allow the algorithm to
global search capabilities by permitting
performance,ensuring that more effective
solutions.Experimental results demonstra



Proceedings of the 44th Chinese Control Conference
July 28-30, 2025, Chongqing, China

Adaptive Large Neighborhood Search Algorithm for Smart Farm Picking and Distribution Integration Problem

Yiran Pan[1], Zhonghua Miao[1], Nan Li[1]*

1. Shanghai University, Shanghai 200444, China
*Corresponding author . E-mail: linan2019@shu.edu.cn

Abstract: This paper addresses an integration decision of the robot task scheduling in a picking process and the vehicle routing in a distribution process to improve the production efficiency in the context of farm-to-door mode. To address the integrated problem, an adaptive large neighborhood search (ALNS) algorithm is proposed with the objectives of minimizing the total cost occurred in the two processes. Based on the characteristics of the problem and our previous study, we employ an integer-based solution representation and generate a high-quality initial solution by using the nearest neighbor heuristic algorithm. The remove and repair operators are introduced to allow the algorithm to explore different regions of the solution space. The purpose of the simulated annealing acceptance criterion is to enhance global search capabilities by permitting the acceptance of worse solutions. Additionally, the selection probabilities of the operators are adjusted based on their performance, ensuring that more effective operators are used more frequently during the search, thereby improving both the search efficiency and the quality of the solutions. Experimental results demonstrate that the ALNS is a new state-of-the-art algorithm for the problem under consideration.

Key Words: Smart farm; Agricultural robot; Vehicle route planning; Adaptive large neighborhood search algorithm

1 Introduction

In the integrated scheduling problem of picking robots and distribution vehicles in smart farms, both the robot scheduling problem[1][2] and the vehicle scheduling problem[3][4] are categorized as NP-hard problems. To find sufficiently good solutions within a reasonable time frame, heuristic and metaheuristic algorithms are typically employed to address NP-hard problems.

Liu et al.[5] designed an improved simulated annealing (SA) algorithm to solve a multi-traveling salesman problem (MTSP). Hari et al.[6] proposed an approximation algorithm to solve a task allocation, sequencing, and scheduling problem (TASSP) for human operators and robot collaboration. To solve the multi-robot scheduling problem operations, aiming to improve production efficiency while meeting multiple constraints and requirements. Wu et al.[13] proposed a multi-objective differential evolution (MODE) algorithm for solving the robot cell scheduling problem with batch-processing machines (RCSP-BMs). Zhou et al.[14] introduced a novel algorithm that combines Levy flight with multi-objective grey wolf optimization (MOGWO), named the Levy flight and weighted distance update multi-objective grey wolf (LWMOGWO) algorithm. Xu et al.[15] developed a dynamic algorithm based on simulation methods and multi-objective optimization to solve the flexible job shop scheduling problem (FJSP) with transportation distribution. Li et al.[16] proposed a discrete artificial bee colony (DABC) algorithm to solve the stochastic vehicle scheduling problem (SVSP). Fontes et al.[17] developed a hybrid particle swarm

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排泥设备	soil discharging facility	China National Committee for Terms in Sciences and Technologies
吸头	soil receiver suction end	China National Committee for Terms in Sciences and Technologies
喷嘴	soil discharging nozzle	China National Committee for Terms in Sciences and Technologies
分泥板	soil valve, tumbling door	China National Committee for Terms in Sciences and Technologies
裸地	bare soil	China National Committee for Terms in Sciences and Technologies
冻土器	frozen soil apparatus	China National Committee for Terms in Sciences and Technologies
土壤水分平衡	soil water balance	China National Committee for Terms in Sciences and Technologies
土壤含水量	soil water content	China National Committee for Terms in Sciences and Technologies

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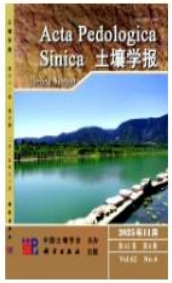

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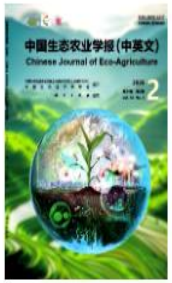

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Chinese Journal of Eco-Agriculture . 2026 ,34 (01)

How can modern intensive agriculture utilize species diversity? Insights from the important agricultural heritage rice-fish system

CHEN Xin YE Junlong TANG Jianjun College of Life Sciences, Zhejiang University

浙江大学生命科学学院

Abstract: Species coexistence is a fundamental paradigm for the survival of organisms in nature. Throughout the long development of agriculture, humans have utilized the wisdom of species coexistence to establish agricultural systems that leverage biodiversity,such as intercropping, rice-fish coculture, and agroforestry systems. The rice-fish coculture system, which involves cultivating cyprinid fish in the shallow-water environments of paddy fields, has a long history and is widely distributed in souther... More

Keywords: species coexistence; rice-fish system; facilitative effect between coexisting species; functional trait compatibility; artificial intelligence;

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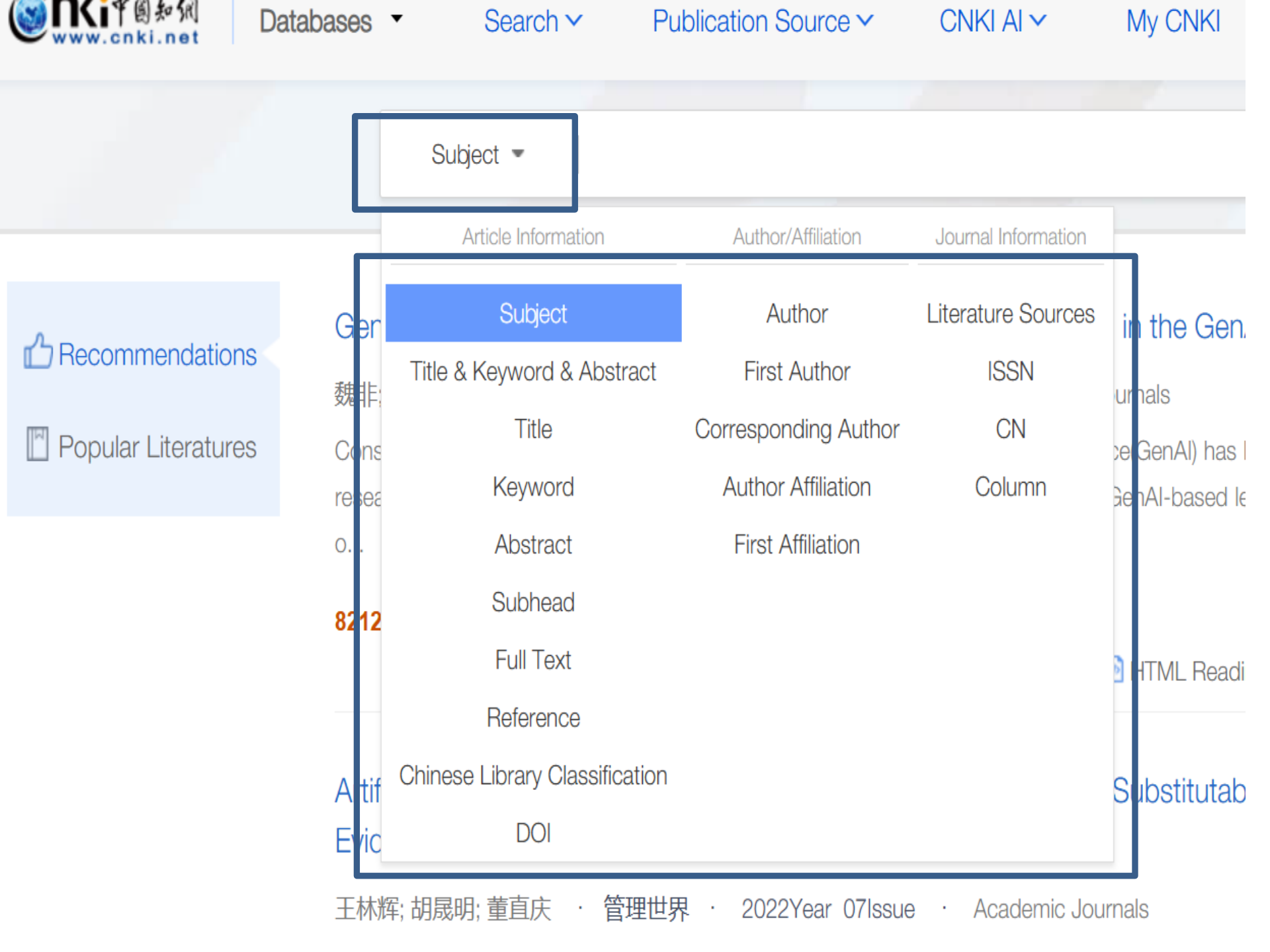
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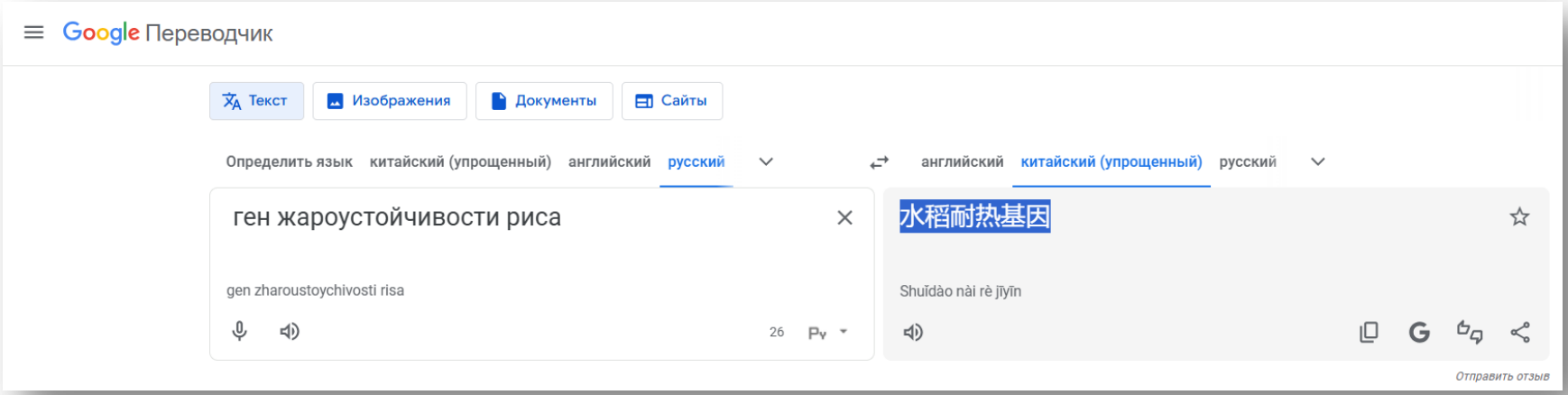
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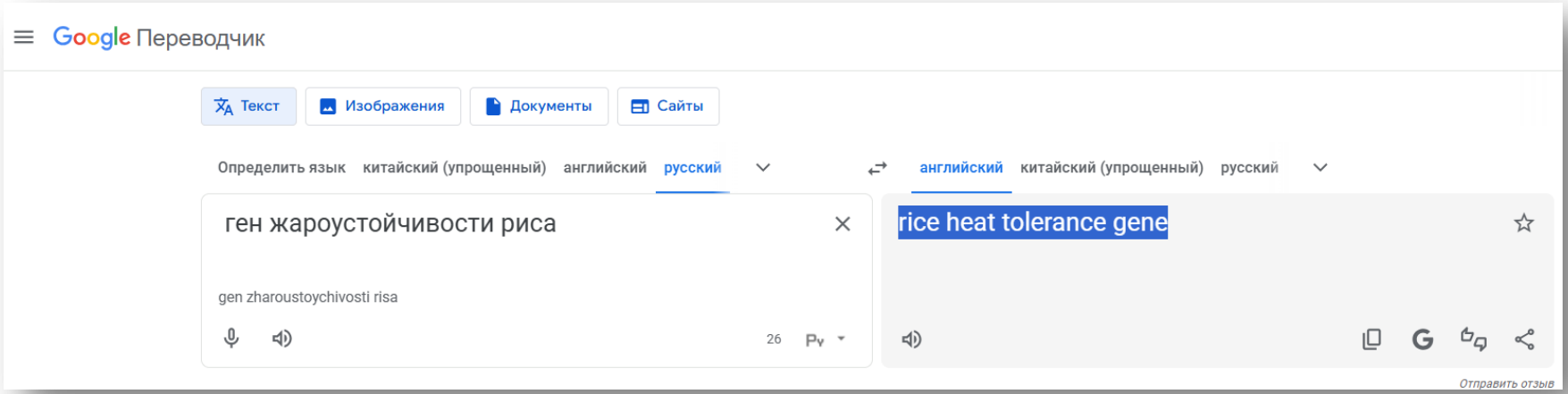
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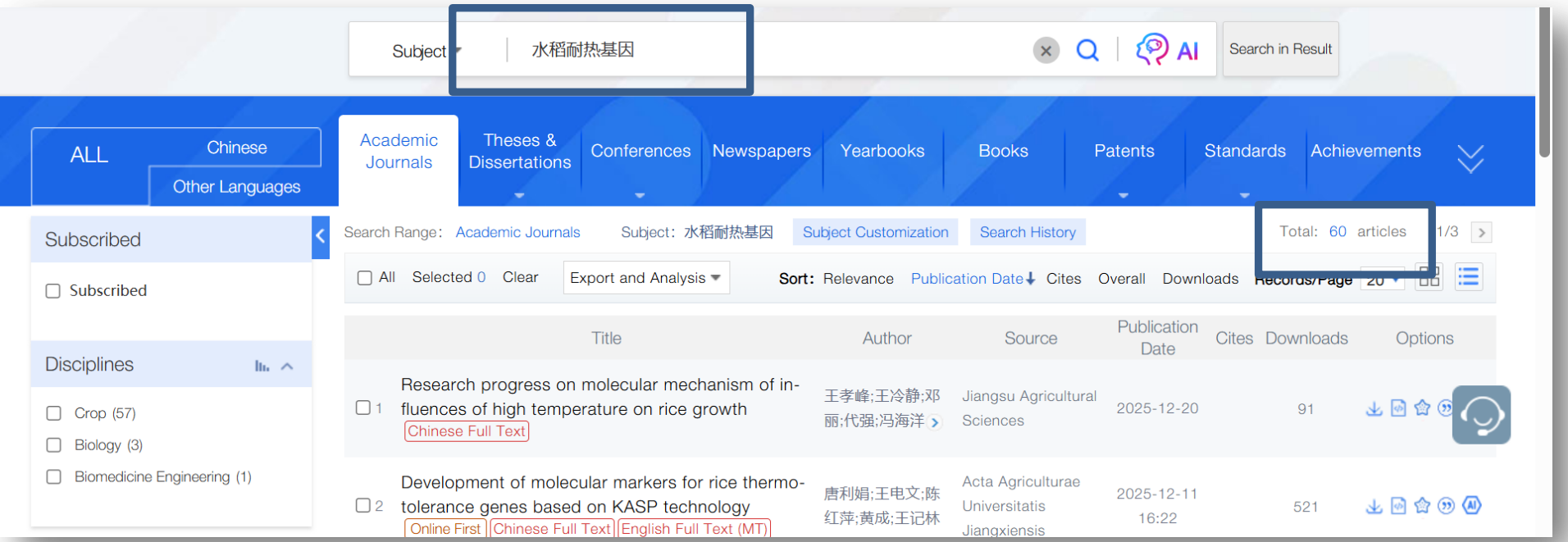
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Research progress on molecular mechanism of influences of high temperature on rice growth
Chinese Full Text
王孝峰;王冷静;邓丽;代强;冯海洋
Jiangsu Agricultural Sciences
2025-12-20
91
2
Development of molecular markers for rice thermotolerance genes based on KASP technology
Online First
Chinese Full Text
English Full Text (MT)
唐利娟;王电文;陈红萍;黄成;王记林
Acta Agriculturae Universitatis Jiangxiensis
2025-12-11 16:22
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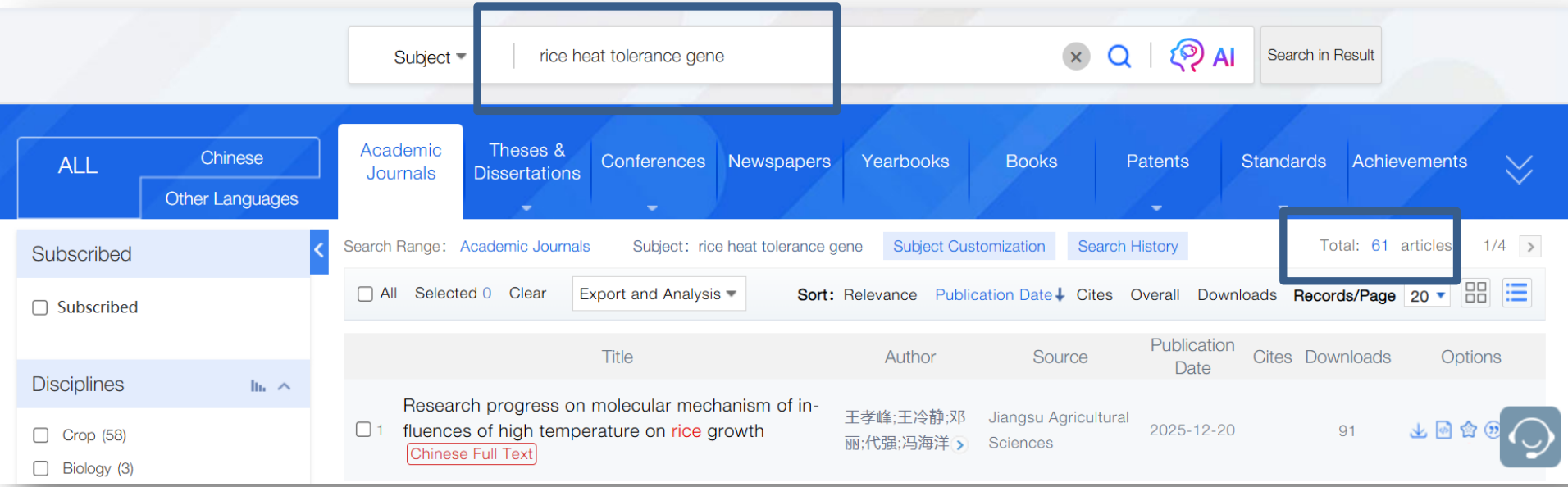
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Research progress on molecular mechanism of influences of high temperature on rice growth
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3	葡译中文学翻译项目的“甄选”——以维埃拉《六旬节》布道文为例	沈友友	Culture Journal	2024-11-20		63	
4	企业人力资源管理中员工甄选探究	李蕾	商场现代化	2024-11-14		474	
5	Human Resource Management Research Review in the Age of Artificial Intelligence Chinese Full Text	贺伟;汪林;吴小玥	Bulletin of National Natural Science Foundation of China	2024-11-04 09:08	29	8912	
6	基于人才战略下的招募甄选工作六大控制点	邢志娟	河北企业	2023-06-10		183	
7	探讨集团化国有企业人员招聘甄选的可靠性与有效性	罗艳	人才资源开发	2023-05-20	7	691	
8	Research on the Selection Mechanism of the Key and Core Technologics Chinese Full Text	张治河;苗欣苑	Journal of Shaanxi Normal University(Philosophy and Social Sciences Edition)	2020-06-20 11:54	127	3954	

Research on the key points of recruitment and selection of human resource management in public institutions

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梁宏

灵石县能源事务服务中心

Abstract: 新时期，事业单位需要重视人力资源管理。在招聘甄选人才的过程中，文章建议采取完善试用期管理制度及时高效地做好人岗匹配、制定好分析工作和甄选要求、甄选培训人员、优化招聘人才途径、创新多元开发招聘渠道等措施，以期选拔高水平的人才进入单位开展工作，不断提高事业单位的竞争力。

Keywords: 事业单位; 人力资源;

Series: (J) Economics & Management;(G) Politics/ Military Affairs/ Law

Subject: Administration Science and National Administration

Classification Code: D630.3

Online Release Time: 2025-09-01 17:44 (The online publication date of CNKI does not represent the print publication date of the article.)

Application Effect of Different Fertilizers and Fertilizer Ratio in Head Cabbage

English Full Text (MT) Chinese Full Text

HAN Yu-ping HU Miao SHANG Miao Yichang Agricultural Science Research Institute

Yichang Agricultural Technology Extension Center

宜昌市农业科学研究院 宜昌市农业技术推广中心 西藏山南市农业技术推广中心

Abstract: [Objective]To study application effect of new type of fertilizer in head cabbage.[Method] The plant traits,yield and economic benefit were compared after application of different fertilizer and fertilizer ratio(N-P-K),and the effects of fertilizer reducing and efficiency increasing in head cabbage cultivation was studied. [Result]Fertilization of 300 kg/hm2 Shengmingyuan fulvic acid chelate(10-10-10) +150 kg/hm2 Xiashilande soil conditioner + 375 kg/hm2 Shikefeng stable fertilizer(16-8-18) ha... More

Keywords: Head cabbage; Fertilizer ratio; Fertilizer reducing and efficiency increasing; Application effect;

DOI: 10.13989/j.cnki.0517-6611.2018.36.031

Series: (D) Agriculture

Subject: Horticulture

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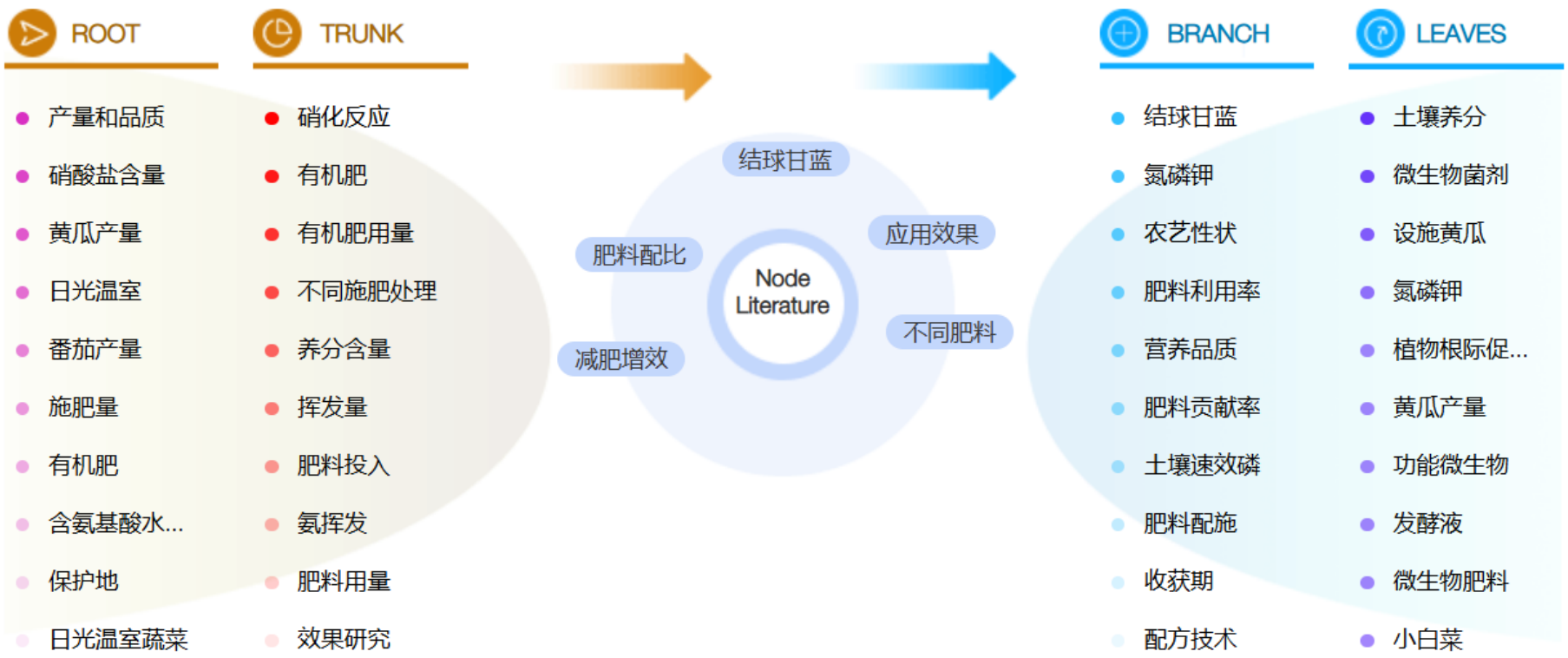
Online Release Time: 2019-01-10 15:10 (The online publication date of CNKI does not represent the print publication date of the article.)

Subject Tree



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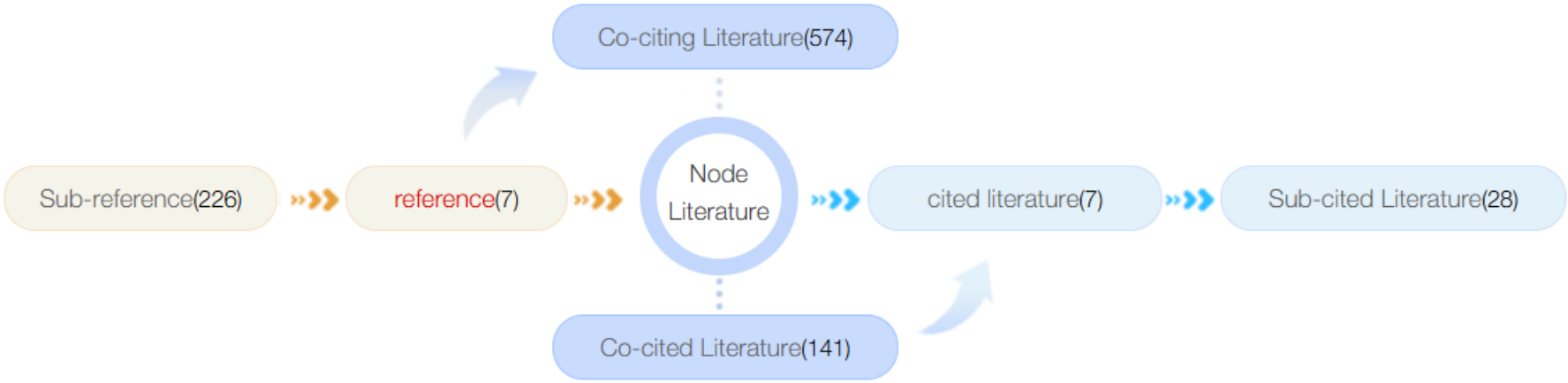

Journal Total: 6

[1] Effects of Soluble Fertilizer Containing Amino Acids on Yield and Economic Benefit of Vegetables[J]. LIU Cui-ling;LIANG Zhi-jie;TENG Fang-chao;Yantai Agricultural Sci & Tech Institute;Sinochem Yantai Crop Nutrition Co.,Ltd;Shandong Zhaoyuan Agricultural Technology Extension Center.Journal of Anhui Agricultural Sciences,2015(30)

[2] 稳定性长效复合肥恩泰克在西兰花上的应用效果[J]. 曾祥明;肖焱波;段惠明.Journal of Changjiang Vegetables,2015(13)

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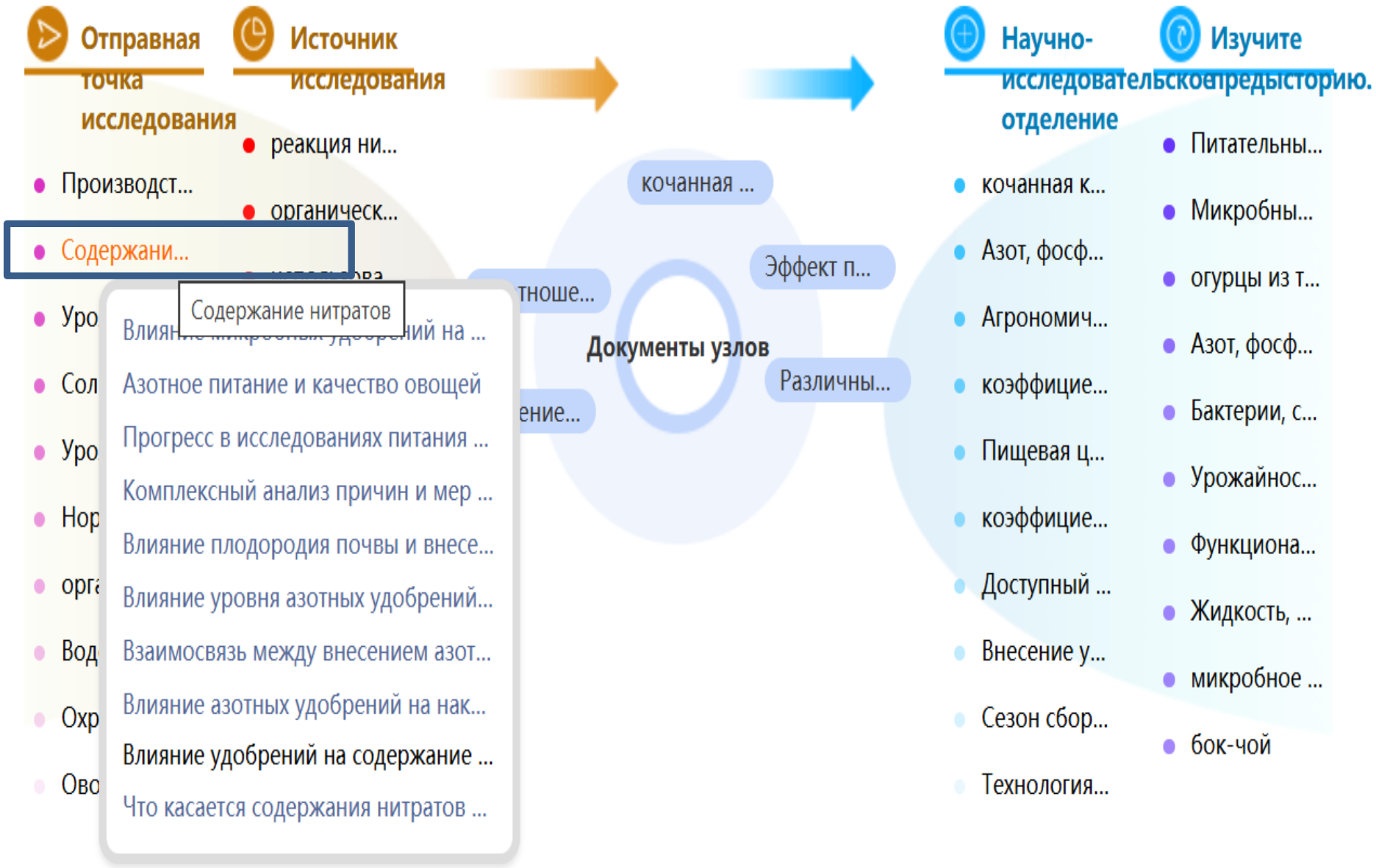

文献知网节

中国农学通报 . 2023 ,39 (25)

云南莴笋高产养分临界值施肥模型研究

陈检锋 尹梅 陈华 王志远 王伟 王应学 杨艳鲜 付利波

云南省农业科学院农业环境资源研究所

摘要： 为明确云南莴笋科学施肥量，在嵩明、祥云、通海布置田间试验，研究耕层土壤养分、当季施肥量与莴笋产量、净产值的关

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Китайский бюллетень сельскохозяйственной науки. 2023,...

Исследование модели внесения удобрений с учетом критической питательной ценности для высокоурожайного салата в провинции Юньнань.

Чэнь Цзяньфэн Инь Мэй Чэнь Хуа Ван Чжиюань Ван Вэй Ван Инсюэ Ян Яньсянь Фу Либо

Институт сельскохозяйственной среды и ресурсов, Юньнаньская академия сельскохозяйственных наук

краткое содержание: Для уточнения научно обоснованной нормы внесения удобрений для салата в провинции Юньнань были проведены полевые эксперименты в уездах Сунмин, Сянъюнь и Тунхай с целью изучения взаимосвязи между содержанием питательных веществ в верхнем слое почвы, сезонным количеством удобрений и урожайностью салата, а также его чистой стоимостью. Результаты показали, что обработка N2P2K2 обеспечила самую высокую урожайность и чистую стоимость на каждом экспериментальном участке. Урожайность


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Identification of Resistance to Acidovoraxavenae subsp.Citrulli among 17 Cantaloupe Cultivars at the Seedling Stage
Chinese Full Text
韩宏伟;刘会芳;韩盛;庄红梅;佘建华
Xinjiang Agricultural Sciences
2019-02-03 19:34
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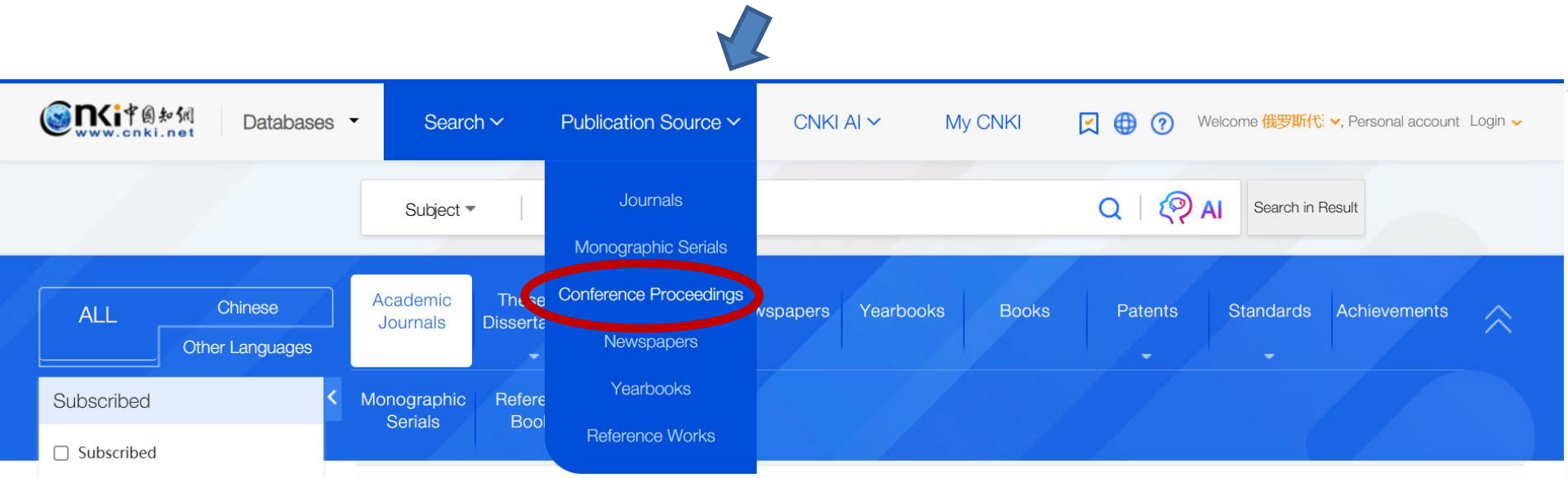
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1 Картофельная промышленность и возрождение сельских районов 2025 (Китай)

Название конференции: 26-я Китайская картофельная конференция Дата встречи: 19.05.2025

Организатор: Профессиональный комитет по картофелю Китайского общества растениеводства.

Количество цитирований: 4 Загрузки: 6244

2 Материалы 4-го Симпозиума по развитию высококачественного и высокотехнологичного сельского хозяйства (отечественного) 2025 года

Название конференции: Симпозиум 2025 года (4-й) по развитию высококачественного и стандартного сельского хозяйства.

Дата встречи: 20.12.2025

Организатор: Научно-исследовательский центр современного сельского хозяйства, Шаньсийская академия сельскохозяйственных наук.

Загрузки: 570

3 Труды 28-го академического симпозиума отделения ветеринарной патологии Китайской ассоциации животноводства и ветеринарной медицины, 27-го академического симпозиума Комитета по патофизиологии животных Китайского общества патофизиологии, 7-го академического симпозиума Комитета по экспериментальной патологии Китайской ассоциации лабораторных животных и 6-го академического симпозиума отделения ветеринарных патологов Китайской ассоциации ветеринарной медицины (

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Организатор :Профессиональный комитет по картофелю Китайского общества растениеводства

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Название специальной темы :

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2	Анализ ситуации с производством и сбытом картофеля в Китае в 2024 году.	Гао Минцзе; У Хань; Ван Аосюэ; Ло Цию; Лю Цзысюань;	16-19		186

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引证文献

序　言

习近平总书记2024年4月23日在新时代推动西部大开发座谈会讲话中强调“深入实施乡村振兴战略”“打造具有地域特色的乡村建设模式”。实施乡村振兴战略是党的十九大作出的重大决策部署，党的二十大对全面推进乡村振兴作出了重要部署，党的二十届三中全会《决定》强调“必须统筹新型工业化、新型城镇化和乡村全面振兴”。推进乡村全面振兴是新时代新征程“三农”工作的总抓手。2025年的中央一号文件中明确要求“持续增强粮食等重要农产品供给保障能力”，深入推进粮油作物大面积单产提升行动。通过优良品种和农业技术的应用来提高作物生产效率，同时持续提升农产品品质，是未来一段时期内作物生产的重心。

马铃薯是全球大约三分之二人口的主食，也是我国重要的粮菜和加工原

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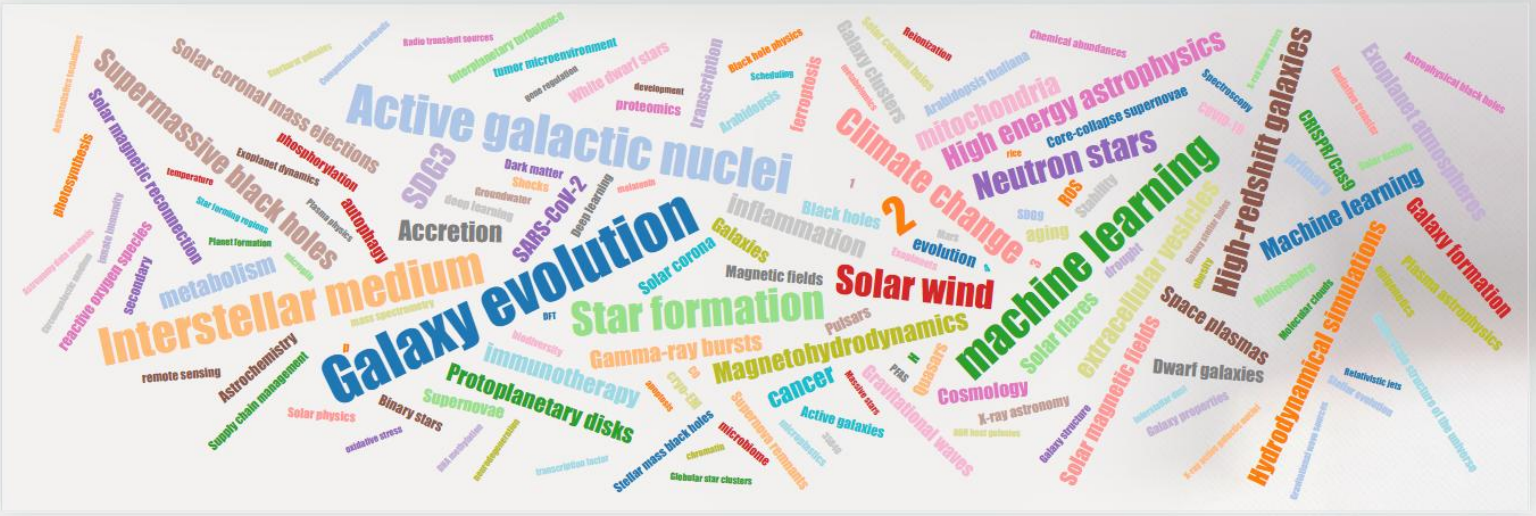

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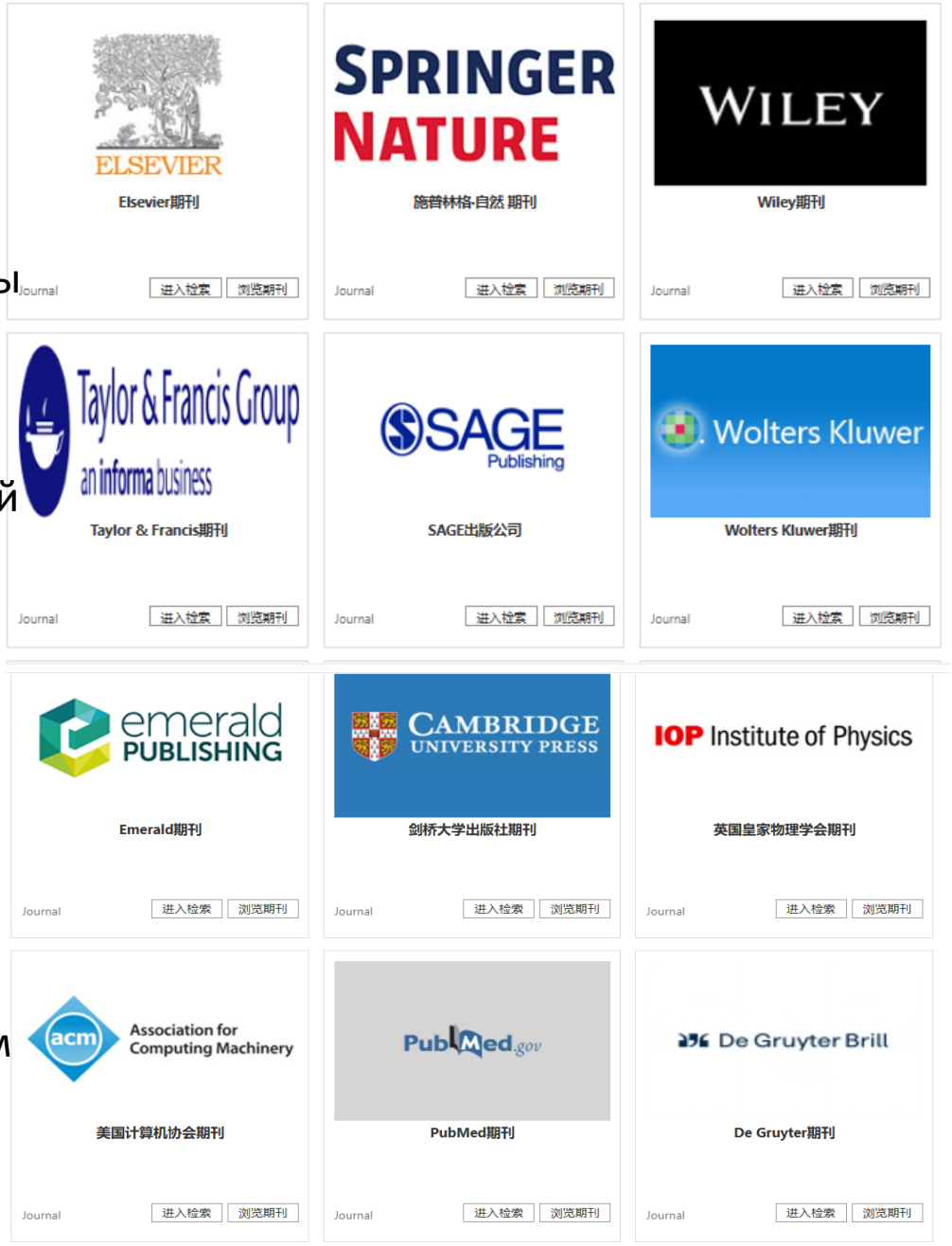

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- heat tolerance 10
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HS1 Enhances Rice Heat Tolerance Through Maintenance of Chloroplast Function and Reactive Oxygen Species Homeostasis

An Wang;Zhengji Shao;Ying Liu;Guangheng Zhang;Li Zhu;Jiang Hu;Qian Qian;Deyong Ren

Rice Science Volume 32, Issue 6, 2025, PP 751-755

Journal

OsLAC12, a Laccase-Encoding Gene, Contributes to Rice Heat Tolerance Through Regulation of Antioxidant Defense and Secondary Metabolism.

Shuangcheng Ding;Zihui Gao;Yuhang Chen;Jiaxin Liu;Yuxin Xue;Yulu Teng;Simin Qin;Xiaohai Tian;Hongwei Wang

Plants (Basel, Switzerland) Volume 14, Issue 18, 2025, PP 2846-2846

摘要: Heat stress (HT) exerts significant negative impacts on plant growth, development, and productivity. In this study, we identified OsLAC12, a heat-induced laccase-encoding gene, as a key regulator of heat tolerance in rice. Functional validation confirmed that OsLAC12 encodes an active laccase, with supporting evidence showing that roots of OsLAC12 overexpression lines exhibited ~1.5-fold higher laccase activity and nearly three times the lignin content compared to the wild type (WT). Under HT, o...

关键词: ROS;heat stress;laccase activity;lignin biosynthesis;thermotolerance

Journal

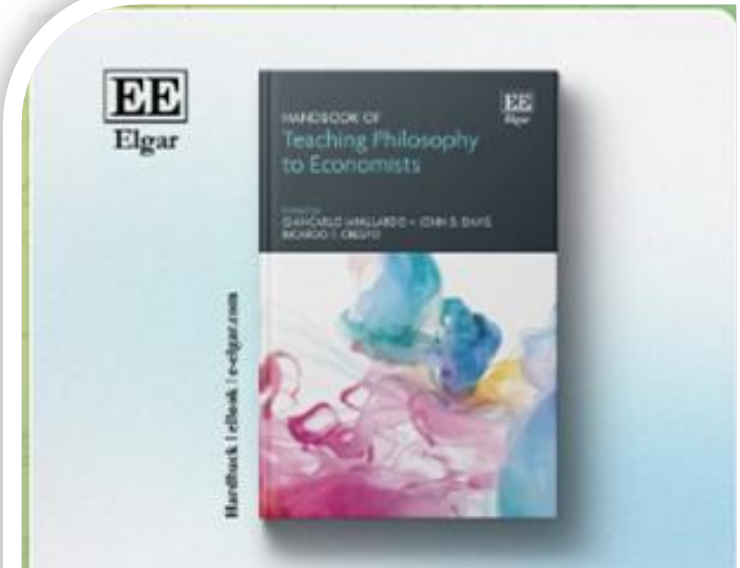
Rice NADP-dependent malate dehydrogenase gene OsMDH8.2 is involved in heat tolerance

Min Jiang;Zhang Chen;Ebenezer Ottopah Ansah;Wangmenghan Peng;Lifeng Huang;Fei Xiong;Peng Li;Gynheung An;Wenfei Wang;Y...

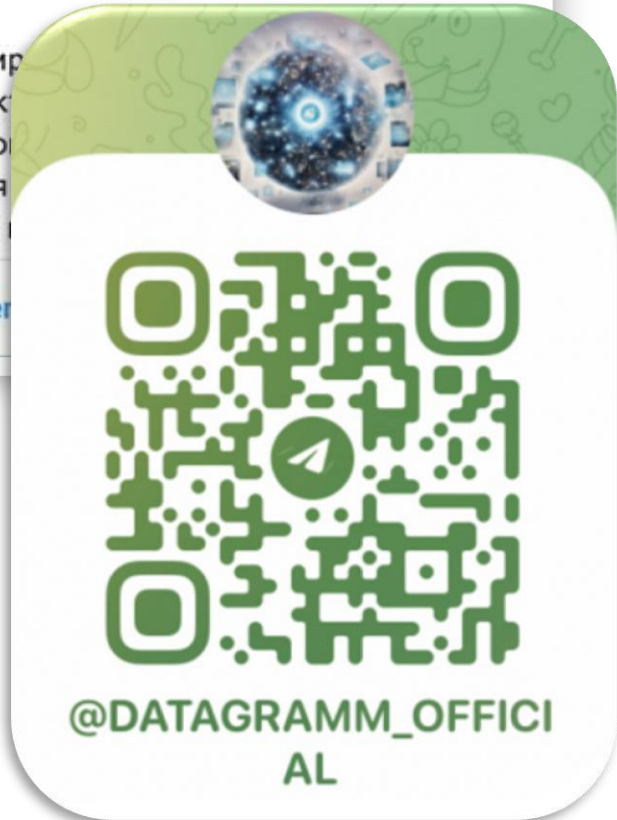
Fundamental Research Volume 5, Issue 5, 2025, PP 2037-2044

摘要: Convergent and divergent evolution lead to plants with stronger adaptability to higher temperatures, thus averting crop biomass yield reductions. NADP-dependent malate dehydrogenase (NADP-MDH) is a redox-regulated enzyme that catalyzes the reversible reduction of oxaloacetate to malate. The

ДАТАГРАММ



Издательство Edward Elgar представляет «Руководство по преподаванию философии экономистам» экономическому сообществу. Эта работа уникальна в своей области, поскольку в ней впервые обосновывается важность философии в экономическом образовании. Экономика как дисциплина, возникшая на основе философии, не может без неё обойтись. Поэтому Edward Elgar взялись за этот увлекательный проект, объединив усилия с многочисленными учёными со всего мира, которые являются



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Спасибо за внимание!

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