

# Science



ADVANCE SCIENCE, ENGINEERING, AND INNOVATION

# 目录

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- Science出版社与期刊
- Science数据库介绍
- 使用Science数据库
- 个性化服务
- 投稿指南



1

Science出版社与期刊

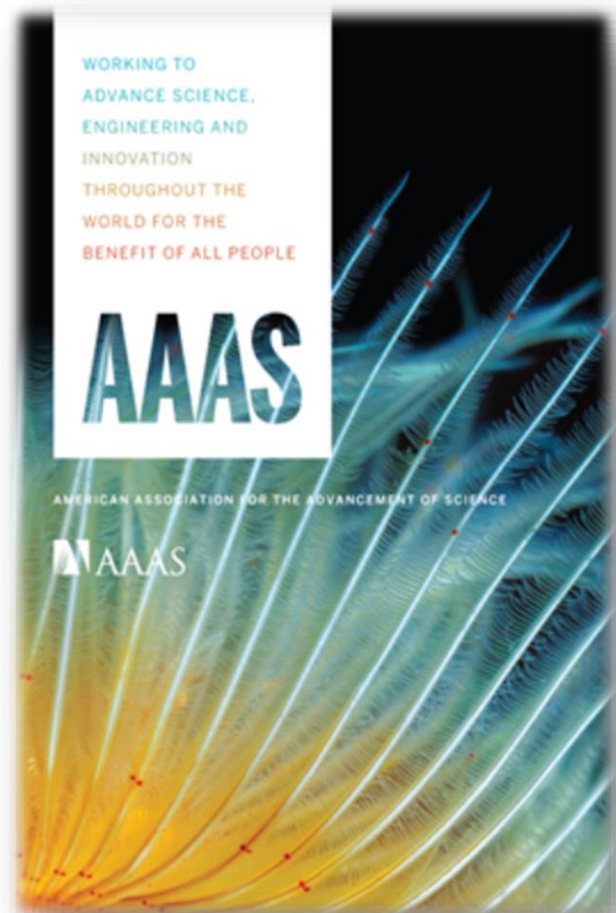
# AAAS

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AAAS：美国科学促进会创于1848年，位于美国华盛顿。是全球最大的科学协会，其代表多是科学界名人，美国政府许多科技政策的出台都事先经过该会的充分论证。

宗旨：促进科学，服务社会

265个分支机构，服务于1000多万科学家



# AAAS

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## AAAS Journal publisher and so much more

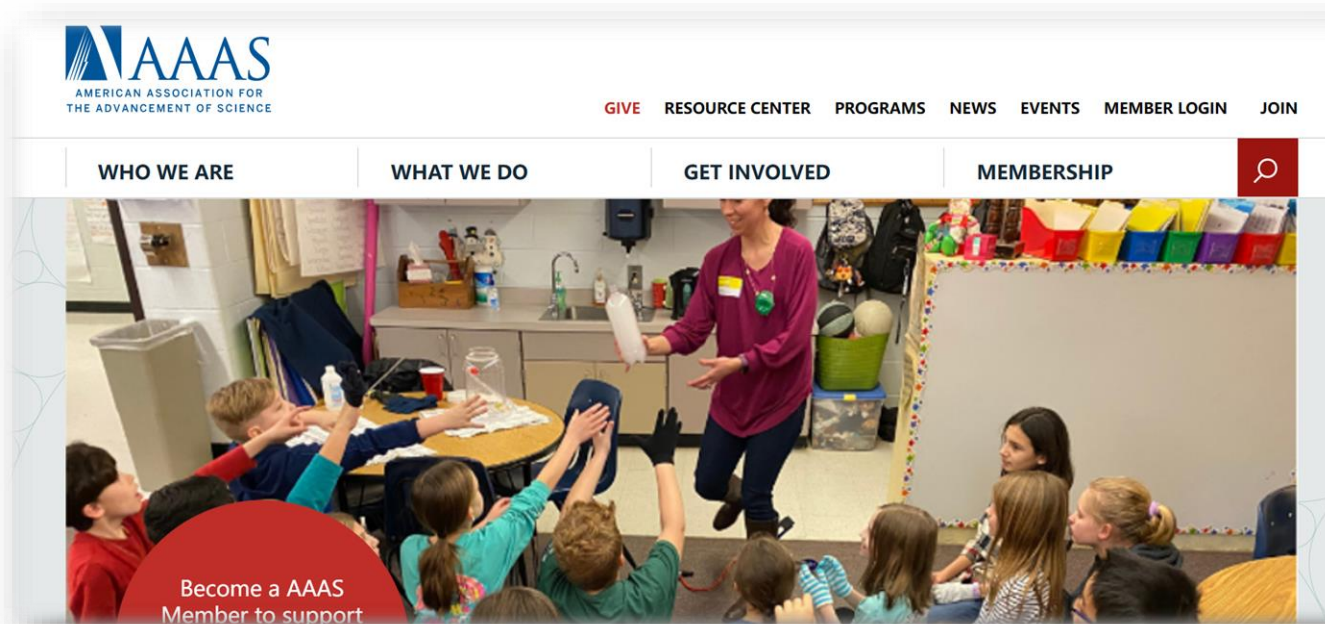
ENHANCING  
EDUCATION

GLOBAL  
OUTREACH

POLICY &  
ADVOCACY

PUBLIC  
ENGAGEMENT

SUPPORTING  
CAREERS



# Science

- 由Thomas Edison创办于1880年，1900年起成为美国科学促进会（AAAS）的官方刊物。
- 全世界发行量最大的同行评审综合科学刊物，各国科学家公认的世界一流科技学术期刊，被誉为“**诺贝尔奖获得者的摇篮**”。
- 涵盖多种学科
  - LIFE SCIENCES (50%)
  - PHYSICAL SCIENCES (35%)
  - OTHER SUBJECTS (15%, 社会, 政治, 人类, 宗教)



# Science和中国

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2008年9月30日，中国国务院总理温家宝在中南海紫光阁会见了到访的美国《科学》杂志主编布鲁斯·艾伯茨。

2008年10月31日出版的《科学》周刊刊登了一篇社论，即温总理的《科学与中国现代化》。<http://www.sciencemag.org/cgi/content/summary/322/5902/649>



2014年1月13日下午，美国《科学》杂志主编麦克纳特女士拜访了国务院总理李克强。《Li and Me》<http://news.sina.com.cn/c/2014-04-05/202229873367.shtml>



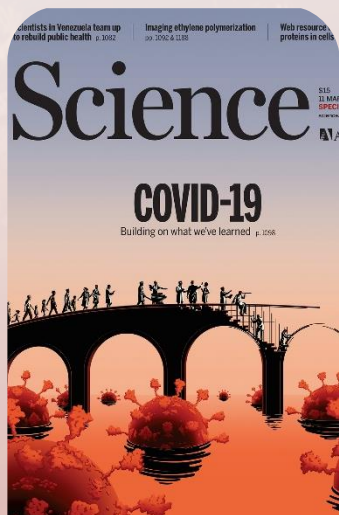
2017年4月17日，Science杂志主编Jeremy Berg博士到访清华大学，参观访问了结构生物学高精尖创新中心，并与生命学院、医学院、药学院的部分师生开展了讨论会议。此次访华推动了Science与中国地区的合作。

NEWS CAREERS COMMENTARY JOURNALS | COVID-19 GET OUR E

# science

Family of Journals

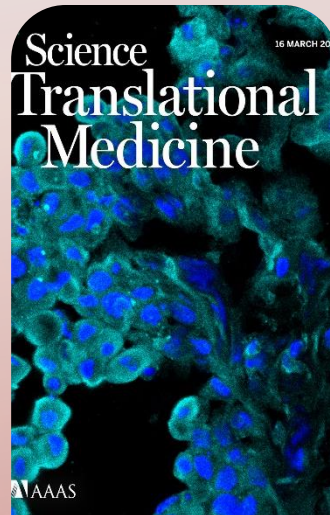
# 系列期刊



1880



1999



2009



2015



2016



2016

# 学科资源

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## 资源内容

- 《科学》 **周刊** (Science)
- 《科学转化医学》 (Science Translational Medicine)
- 《科学信号》 (Science Signaling)
- 《科学免疫学》 (Science Immunology)
- 《科学机器人》 (Science Robotics)
- 《科学进展》 (Science Advances)

## 涵盖学科

**综合期刊**，生命科学，自然科学，其他学科。

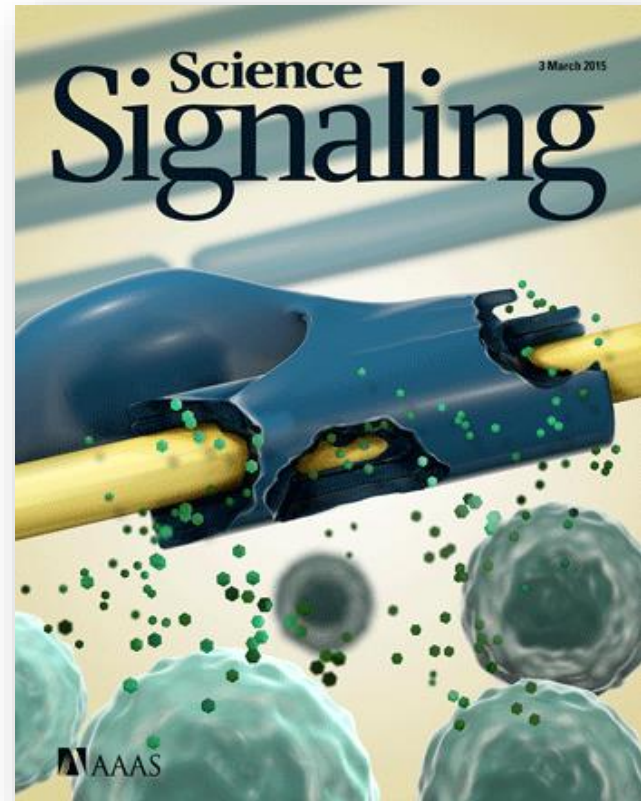
# 系列期刊-*Science* 《科学》

- 具有科学新闻杂志和学术期刊**双重特点**
  - 新闻&社论（49%）
  - 专家评审的研究论文（51%）
- **高品质、高影响力**
  - 编辑团队由25位具有博士学位的编辑，及超过120名来自各学科领域的顶尖专家组成；
  - 来稿要经过**严格的同行评审**，稿件接收率不到7%；



# 系列期刊-Science Signaling 《科学信号》

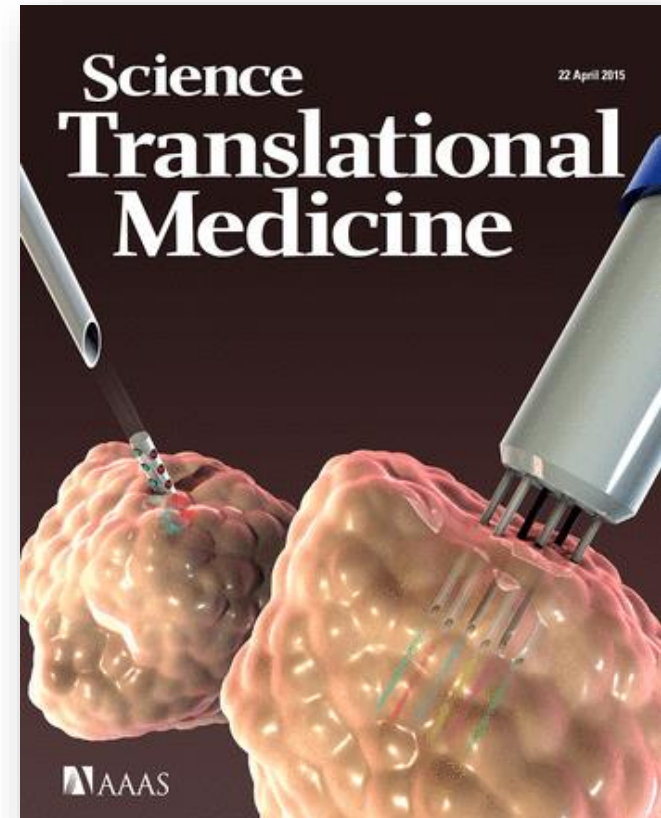
- 创刊于1999年，原Science STKE — 《细胞信号转导》，是美国科学促进会（AAAS）旗下研究细胞信号转导的官方刊物。
- **研究范围：**生物化学、生物信息学、细胞生物学、分子生物学、微生物学、系统生物学、免疫学、神经科学、药理学、生理学。
- **期刊品质：**在生物化学、分子生物学及细胞生物学领域名列前茅。



# 系列期刊-Science Translational Medicine

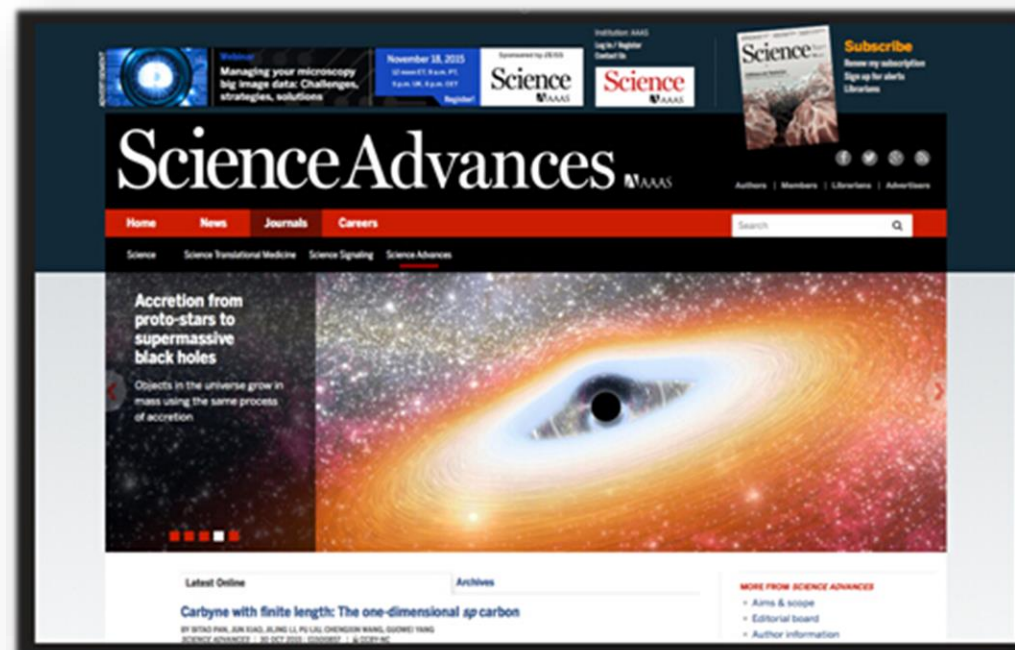
## 《科学转化医学》

- 2009年美国科学促进会（AAAS）推出的最新官方刊物，为所有相关学科的基础研究、转化研究和临床研究的专业人员提供思想沟通和交流的论坛。
- 宗旨：将基础科学和临床研究联系起来，以改善全球患者的护理。
- 研究范围：癌症学、基因组科学、分子生物学、神经科学、生物工程学、生物信息学，细胞学、心血管疾病、卫生政策等。
- 期刊品质：《科学转化医学》是在科学、工程和医学等交叉学科领先的线上周刊。2020年影响因子为17.956。



# 系列期刊-Science Advances 《科学进展》

- 创刊于2015年，美国科学促进会（AAAS）旗下**第一本纯OA期刊**
- 特点：**交叉学科**；快速出版
- 研究范围：计算机、工程、环境、生命、数学、物理、社会科学等
- 期刊品质：秉承严格的收录标准、审稿流程；一经出版便被SCI收录。



# 系列期刊-*Science Robotics* 《科学机器人》

- 创刊于2016年
- 特点：交叉学科，内容涵盖广泛
- 研究范围：基础科学，计算机科学，工程，医学，既包含了机器人学的传统法则也包含很多新兴的发展动态和趋势，例如先进材料和仿生设计，涉及微米/纳米机器人，陆地/海底机器人，人工智能，机器人生物材料等
- 期刊品质：机器人学的传统学科  
先进材料和仿生设计等新兴趋势



# 系列期刊 – *Science Immunology*

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## 《科学免疫学》

- 创刊于2016年
- **使命：**通过展现在免疫学扩展领域内的革新与进步，来使读者加深对免疫系统的了解与理解
- **研究范围：**细胞和临床免疫学的交叉学科，涉及大量关于人类的生物有机体的研究；所有文献经由同行评审，全部为以科学研究为基础的原创性文献，涉及免疫学相关的重要研究进展、新的医疗工具和新技术的应用等。
- **期刊品质：**在免疫学中名列前茅。



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## Science数据库介绍

# SCIENCE.ORG

## 新平台—满足研究界和出版方不断变化的需求

- 内容视图更**集中**
- 功能模块显著**提升**：增强搜索、作者工具和以读者体验为中心的重新设计
- 内部**效率和灵活性的**变化

The screenshot shows the Science.org homepage layout. At the top is the 'Science' logo and a navigation bar with links for NEWS, CAREERS, COMMENTARY, JOURNALS, and a COVID-19 button. The main content area features a large featured article with a green protein ribbon structure. Below it are three smaller article cards for 'Human T-independent B cell responses are pre-diversified', 'Microbubbles disrupt infective bacterial biofilms', and 'High-speed legged locomotion on deformable terrain'. To the right is a 'LATEST NEWS' section with several news items. At the bottom, there is an advertisement for a ranking of universities and a 'PODCAST' section for 'colliderscope: Stories of scientific collisions'.

Science Home Page

# SCIENCE.ORG

数据库内容板块入口

NEWS

CAREERS

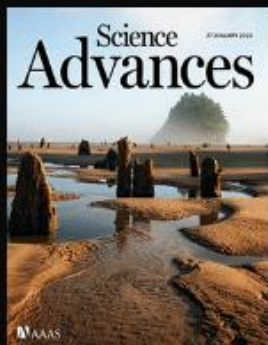
COMMENTARY

JOURNALS ^

COVID-19



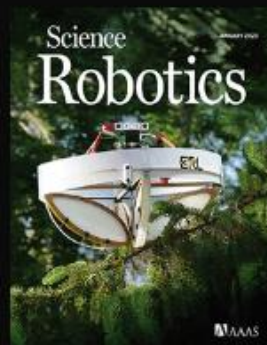
SCIENCE



SCIENCE ADVANCES



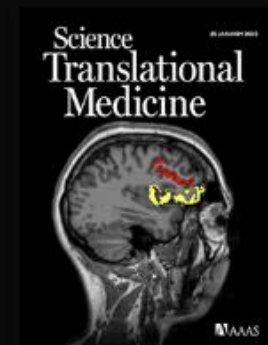
SCIENCE IMMUNOLOGY



SCIENCE ROBOTICS



SCIENCE SIGNALING



SCIENCE TRANSLATIONAL  
MEDICINE



SCIENCE PARTNER  
JOURNALS

点击封面可直接进入对应期刊数据库

# 特色版块

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- ***Science News***

- *Science*新闻组每天都会为在线用户提供几篇关于科研成果或科学政策的最新消息；也会提供每周出版的*Science Magazine*中收录的新闻类文章。以简洁扼要的内容，使读者花费少量时间就能及时了解世界各地各科研领域的最新进展。

- ***Science Careers***

- 为科学家们谋职、寻找基金支助项目或科研合作项目提供信息；提供与之相关的文献和议题，并设讨论区供科学家们交流经验。

- ***Science First Release***

- 提供精选文章快速在线发表，可先于印刷媒体四到六周，自发布日起即为发表，并可以被引用。

# Science News

[News Home](#) [All News](#) [ScienceInsider](#) [News Features](#)

资源导航栏，选择感兴趣的新闻

HOME > NEWS

## NEWS FROM SCIENCE



NEWS FEATURE | 25 JAN 2023

### Ready, set, share: Researchers brace for new data-sharing rules

BY JOCELYN KAISER, JEFFREY BRAINARD

NEWS | 27 JAN. 2023

### When alpha mice are trounced by weaklings, they spiral into depression

BY EMILY UNDERWOOD

SCIENCEINSIDER | 26 JAN 2023

### Iranian researchers fear for science after hardline cleric takes important post

BY POURIA NAZEMI

NEWS | 26 JAN 2023

### Protein decoys for viruses may battle COVID-19 and more

BY ROBERT F. SERVICE

NEWS | 26 JAN 2023

### News at a glance: HIV vaccine failure, AI meteorite detective, and the Doomsday Clock

BY SCIENCE NEWS STAFF



NEWS | 31 JAN. 2023

### Want to avoid a heated argument? This trick could help

BY CLAUDIA LOPEZ LLOREDA



NEWS | 31 JAN 2023

### Postdocs need raises. But who will foot the bill?

BY KATIE LANGIN



SCIENCEINSIDER | 30 JAN. 2023

### U.S. scientists brace for tighter scrutiny of potentially risky research

BY JOCELYN KAISER



NEWS | 30 JAN 2023

### Dolphins and humans team up to catch fish in Brazil

BY VIRGINIA MORELL

# Science Careers

Careers Home

Careers Articles

Find a Job

Employer Profiles

Post A Job

可以在上面发布  
或寻找科研工作

HOME > CAREERS ●

## SCIENCE CAREERS

**SEARCH JOBS** [SEE LATEST JOBS >](#)

Enter keywords, locations or job types to start searching for your new science career



13 JAN 2023

**NSF still won't track sexual orientation among scientific workforce, prompting frustration**

BY KATIF I ANGIN

**WORKING LIFE** | 5 JAN 2023

**I'm a Black scientist, tired of facing racism and exclusion from academia**

BY KEISHA HARDEMAN



20 JAN 2023

**Teaching evaluations reflect—and may perpetuate—academia's gender...**

BY  
LUIS MELECIO-ZAMBRANO



**WORKING LIFE**

19 JAN 2023

**How I learned to talk about climate science with skeptical audiences**

BY SYLVIA DEE

**EXPERIMENTAL ERROR**

3 JAN 2023

**New science jargon for the new year**

BY ADAM RUBEN

19 DEC 2022

**Grad student unions strike controversial deal with University of California**

BY KATIF I ANGIN

# Commentary

[Commentary Home](#)

[Opinion](#)

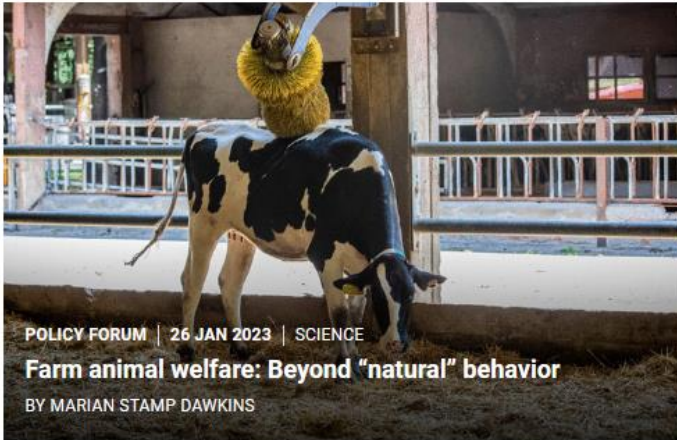
[Analysis](#)

[Blogs](#)

按观点，分析和博客分类的评论文章

HOME > COMMENTARY

## COMMENTARY



PERSPECTIVES | 26 JAN 2023  
SCIENCE

### Neurons share an intense load

BY PAUL R. MARTIN

EDITORIAL | 26 JAN 2023  
SCIENCE

### ChatGPT is fun, but not an author

BY H. HOLDEN THORP

FOCUS | 25 JAN 2023  
SCIENCE ROBOTICS

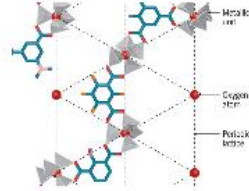
### Robotic probes at the cell scale

BY JOSÉ A. PLAZA

EDITORIAL | 25 JAN 2023  
SCIENCE TRANSLATIONAL MEDICINE

### Biological therapies need definitive randomized controlled clinical trials

BY ROBERT M. CALIFF, PETER W. MARKS



PERSPECTIVES | 26 JAN 2023 | SCIENCE

### Decoding complex order in reticular frameworks

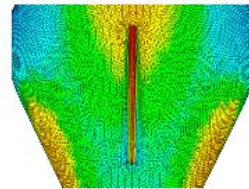
BY OMAR M. YAGHI,  
ZICHAO RONG



PERSPECTIVES | 26 JAN 2023 | SCIENCE

### Earth's persistent thermostat

BY ROBERT G. HILTON



FOCUS | 25 JAN 2023  
SCIENCE ADVANCES

### Engineering is pregnant with possibilities

BY MICHELLE L. OYEN



FOCUS | 25 JAN 2023  
SCIENCE ROBOTICS

### A retrospective of Isaac Asimov at 102 and his Three Laws

BY ROBIN R. MURPHY

# First Release

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- 提供精选文章的快速在线发表。
- 文章可能会先于印刷媒体四到六周发布。
- 首次发表论文被视为在发布之日发表，并且自该日起即可被引用。

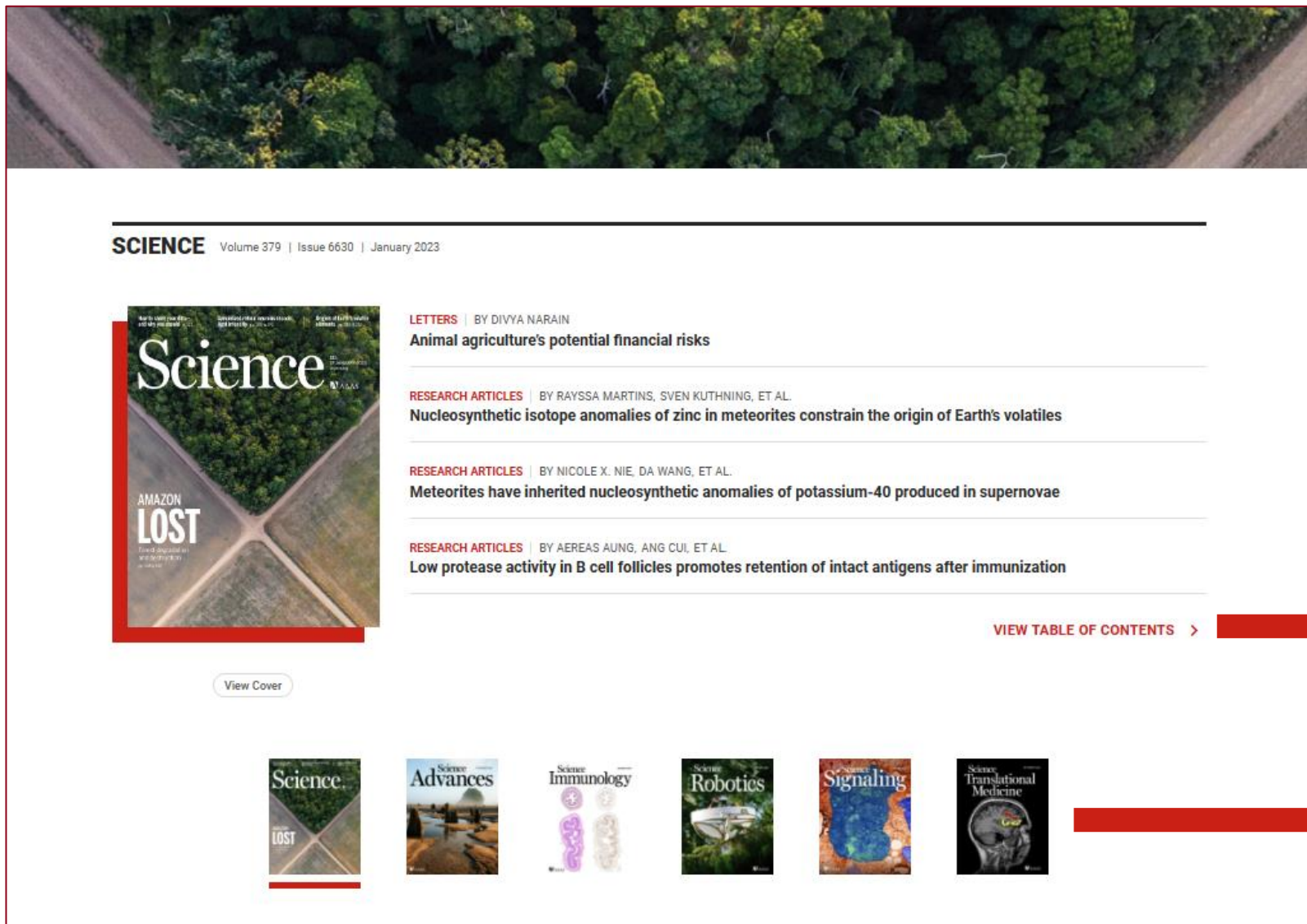
## FIRST RELEASE ⓘ

<b>SCIENCE</b>   27 JAN 2023 Exon architecture controls mRNA m <sup>6</sup> A suppression and gene expression	<b>SCIENCE</b>   27 JAN 2023 Mitochondria metabolism sets the species-specific tempo of neuronal development	<b>SCIENCE</b>   27 JAN 2023 Revolt against educational rankings
<b>SCIENCE IMMUNOLOGY</b>   26 JAN 2023 Human neutralizing antibodies to cold linear epitopes and subdomain 1 of the SARS-CoV-2 spike glycoprotein	<b>SCIENCE</b>   19 JAN 2023 Asymmetric counteranion-directed photoredox catalysis	<b>SCIENCE</b>   22 DEC 2022 The magmatic web beneath Hawai'i

[+ MORE FIRST RELEASE PAPERS](#)

紧接着是期刊目录，只需单击期刊封面即可查看当前一期内容。

# 最新期刊目录



The screenshot displays the Science journal website for Volume 379, Issue 6630, dated January 2023. The main cover image features an aerial view of a dense green forest with a dirt road cutting through it, and the text "AMAZON LOST". Below the cover is a "View Cover" button. To the right of the cover, a list of articles is shown, including a "LETTERS" section by Divya Narain and three "RESEARCH ARTICLES" sections by Rayssa Martins, Nicole X. Nie, and Aereas Aung. A "VIEW TABLE OF CONTENTS" link is located at the bottom right of the article list. At the bottom of the page, a row of six journal covers is displayed: Science, Science Advances, Science Immunology, Science Robotics, Science Signaling, and Science Translational Medicine. A red arrow points from the "VIEW TABLE OF CONTENTS" link to the right, and another red arrow points from the row of journal covers to the right.

**SCIENCE** Volume 379 | Issue 6630 | January 2023

**Science**  
AMAZON LOST

[View Cover](#)

**LETTERS** | BY DIVYA NARAIN  
**Animal agriculture's potential financial risks**

**RESEARCH ARTICLES** | BY RAYSSA MARTINS, SVEN KUTHNING, ET AL.  
**Nucleosynthetic isotope anomalies of zinc in meteorites constrain the origin of Earth's volatiles**

**RESEARCH ARTICLES** | BY NICOLE X. NIE, DA WANG, ET AL.  
**Meteorites have inherited nucleosynthetic anomalies of potassium-40 produced in supernovae**

**RESEARCH ARTICLES** | BY AEREAS AUNG, ANG CUI, ET AL.  
**Low protease activity in B cell follicles promotes retention of intact antigens after immunization**

[VIEW TABLE OF CONTENTS >](#)

**Science**  
**Advances**  
**Science Immunology**  
**Science Robotics**  
**Science Signaling**  
**Science Translational Medicine**

期刊目录，点击查看  
当前一期内容


直接点击切换期刊

# 多媒体

**视频文件：**单独或与文章中，内容涉及广泛，可用来展示实验原理、某项运作机理或实践记录等。

**音频文件：**每周科学播客的主持人莎拉·克雷斯皮，会与来自世界各地的研究人员、新闻记者等一起探讨最新的科学发现。

**FEATURED VIDEOS**



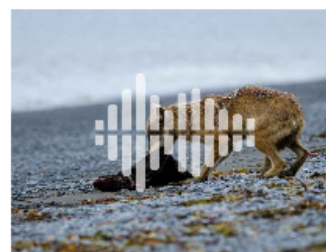
9 DEC 2022  
Light shows by these tiny crustaceans reveal rich biodiversity on Caribbean reefs

Supercomputer re-creates one of the most famous pictures of Earth

This ancient giraffe relative head-butted rivals with an 'amazing sexual weapon'

[VIEW MORE >](#)

## PODCASTS



26 JAN 2023 | BY SARAH CRESPI, KEVIN MCLEAN, JACK TAMISIEA

**Wolves hunting otters, and chemical weathering in a warming world**



[Full Transcript](#)



00:00 | 23:16

[+ SUBSCRIBE](#)

19 JAN 2023 | BY SARAH CRESPI, CATHLEEN O'GRADY, KEVIN MCLEAN

**Bad stats overturn 'medical murders,' and linking allergies with climate change**

12 JAN 2023 | BY SARAH CRESPI, KEVIN MCLEAN, JENNIFER SILLS, ZACK SAVITSKY

**Peering beyond the haze of alien worlds, and how failures help us make new discoveries**

5 JAN 2023 | BY SARAH CRESPI, KEVIN MCLEAN, SOFIA MOUTINHO

**A controversial dam unites Indigenous people and scientists, and transplanting mitochondria to treat rare diseases**

22 DEC 2022 | BY SARAH CRESPI, DAVID GRIMM

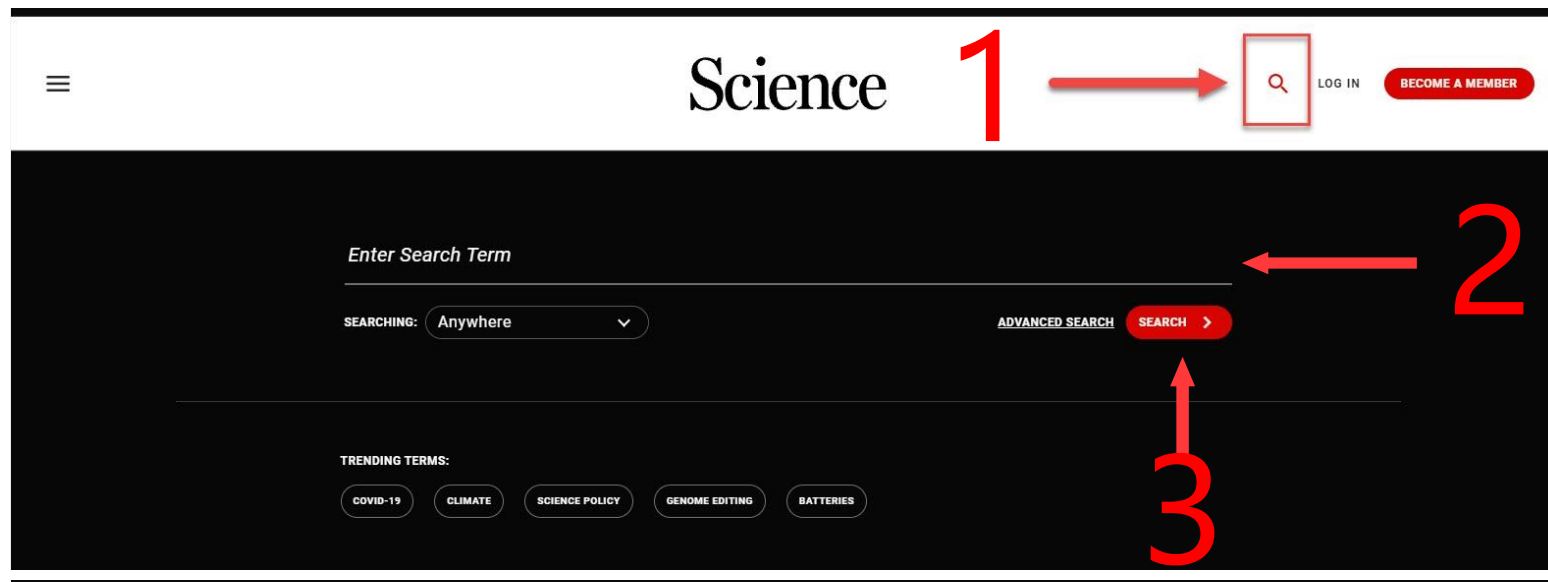
**Year in review: Best of online news, and podcast highlights**

[VIEW MORE >](#)

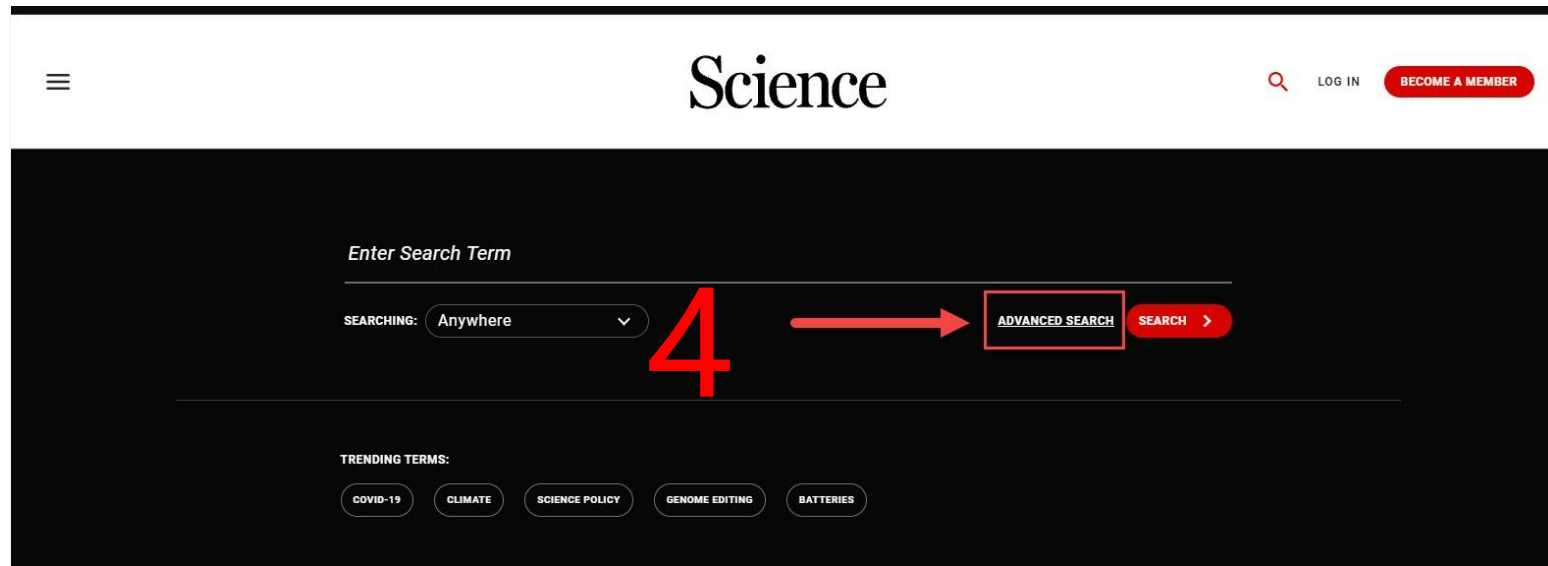
3

使用Science数据库

# Search



快速检索



高级检索

# Advanced Search

## 关键词检索

- 字段：标题、作者、关键字、摘要等
- 搜索词：（例如神经科学等）
- 文章类型：研究和社论、新闻、职业和职业资源、观点和评论、书籍和媒体评论等。
- 选择子刊：从我们的六种期刊中选择一种或多种（*Science*、*Science Advances*、*Science Immunology*、*Science Signaling*、*Science Translational Medicine* 和 *Science Robotics*）。
- 发布日期：选择所有日期或自定义范围。

ADVANCED SEARCH

ADVANCED SEARCH | CITATION SEARCH | SEARCH HISTORY | SAVED SEARCHES

FIELD: Anywhere | SEARCH TERM: e.g. Neuroscience

ARTICLE TYPE: e.g. Research Article

PUBLISHED IN: e.g. Science Robotics

PUBLICATION DATE:  ALL DATES |  LAST |  CUSTOM RANGE

FROM: Select Month | Select Year | TO: Select Month | Select Year

CLEAR SEARCH

**Search Tips**

**Boolean searches**  
You can use the Boolean Operators AND, OR, and NOT within search fields. By default, an AND relationship is assumed between search terms unless another operator is specified.

**Searching for authors**  
To search for multiple authors, separate each author name with either AND or OR. Using AND will search for content that has been co-authored by the authors. Using OR will search for content that has been authored by either of the authors.

**Searching for phrases**  
Use a question mark (?) in a search term to represent any one character and use an asterisk (\*) to represent zero or more characters. For example, searching for Europe\* will find results containing Europe and European. Wildcards cannot be used at the start of a search term or when searching for phrases in quotes.

**DOIs**  
Search for DOIs using the format 10.1302.0301-620X.9989.BJ1-2016-1078.R2 (do not add http://dx.doi.org).

添加限制条件，单击右下角的红色 Search（搜索）按钮。

# Citation Search

## 引文搜索

- 期刊
- 卷
- 期
- 页码
- 年份

输入限制条件，单击红色 **Search (搜索)** 按钮。

Science

ADVANCED SEARCH CITATION SEARCH SEARCH HISTORY SAVED SEARCHES

Science

Volume Issue Page Year

SEARCH

**Search Tips**

**Boolean searches**

You can use the Boolean Operators AND, OR, and NOT within search fields. By default, an AND relationship is assumed between search terms unless another operator is specified.

**Searching for authors**

To search for multiple authors, separate each author name with either AND or OR. Using AND will search for content that has been co-authored by the authors. Using OR will search for content that has been authored by either of the authors.

**Searching for phrases**

Use a question mark (?) in a search term to represent any one character and use an asterisk (\*) to represent zero or more characters. For example, searching for Europe\* will find results containing Europe and European. Wildcards cannot be used at the start of a search term.

# Search History

## 检索历史

显示全部搜索历史，点击链接直接进入结果页。

HOME > ADVANCED SEARCH

### ADVANCED SEARCH

ADVANCED SEARCH CITATION SEARCH **SEARCH HISTORY** SAVED SEARCHES

SEARCH NAME	SEARCHED ON
<a href="#">All_covid (2019)</a>	2 SEP 2021
<a href="#">All_covid (2019)**</a>	2 SEP 2021

#### Search Tips

**Boolean searches**  
You can use the Boolean Operators AND, OR, and NOT within search fields. By default, an AND relationship is assumed between search terms unless another operator is specified.

**Searching for authors**  
To search for multiple authors, separate each author name with either AND or OR. Using AND will search for content that has been co-authored by the authors. Using OR will search for content that has been authored by either of the authors.

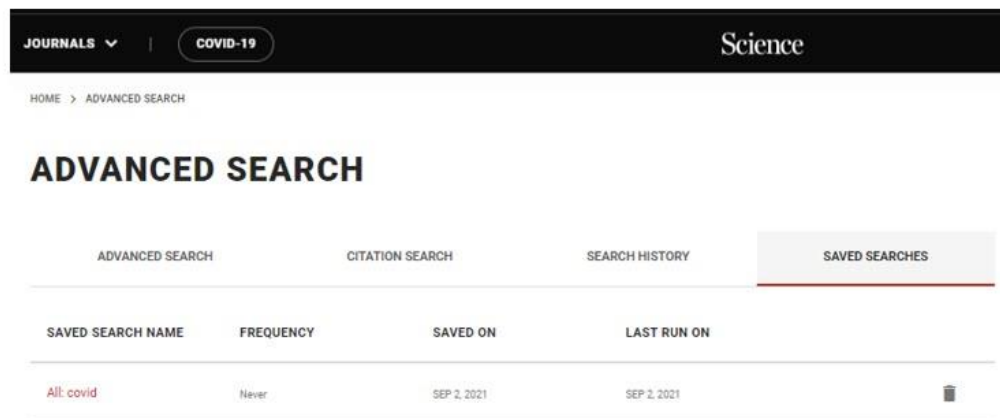
**Searching for phrases**  
Use a question mark (?) in a search term to represent any one character and use an asterisk (\*) to represent zero or more characters. For example, searching for Europe\* will find results containing Europe and European. Wildcards cannot be used at the start of a search term or when searching for phrases in quotes.


**DOIs**  
Search for DOIs using the format 10.1302/0501-620X.9989.BIJ-2016-1078.R2 (do not add http://dx.doi.org).

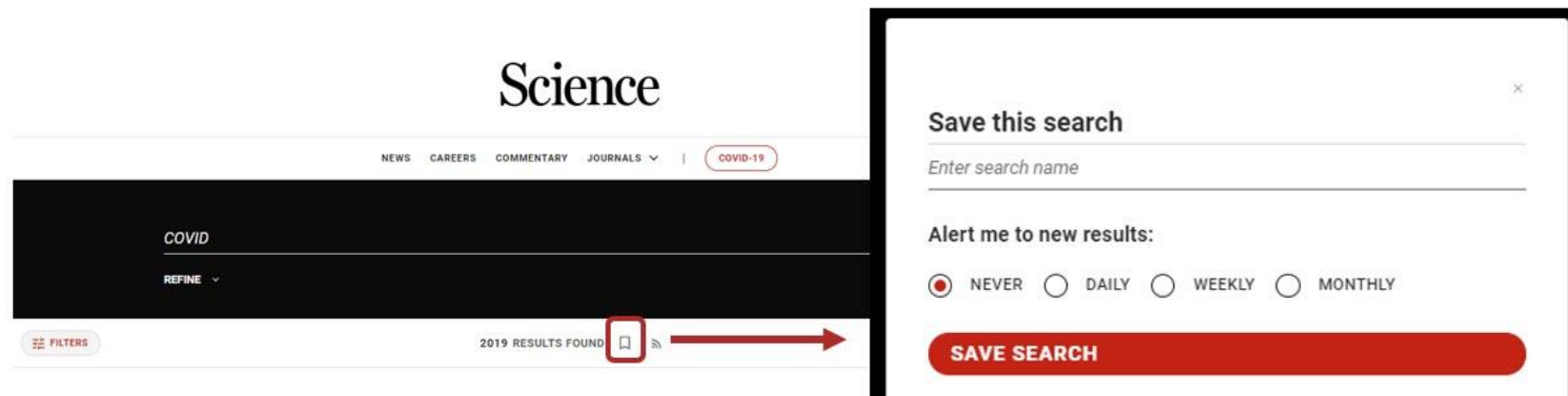
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进入搜索结果页面，单击Save Search  图标输入名称以保存结果，同时可以设置新消息提醒频率  。

高级检索“SAVED SEARCHES”标签下，可查看、管理保存的词条



检索结果页面点击 ，完成设置即可保存检索词条



# 期刊数据库

Science为例

The image shows the Science journal website interface. At the top, there are navigation links: "Current Issue", "First release papers", "Archive", "About ^", and "Submit manuscript". A "GET OUR E-ALERTS" link is on the right. The main content area features a large illustration of a red running track with a person running and another climbing a cliff. Below the illustration, there are article teasers: "LETTERS | 6 JAN 2022" with the headline "Back in person, back to the races", and "FEATURE | 6 JAN 2022" with the headline "The pandemic whistleblower". A "Dendritic spines' electrical function?" article is also visible with a date of "11 NOV 2021".

Four red callout boxes point to specific elements:

- 当前期刊 (Current Issue)
- 首次发表 (First release papers)
- 往期期刊 (Archive)
- 作者中心 (Author Center)

An "About" dropdown menu is open, listing the following items:

- About Science
- Mission & Scope
- Editors & Advisory Boards
- Editorial Policies
- Information for Authors (highlighted with a red box)
- Information for Reviewers
- Journal Metrics
- Staff
- Contact Us

An "ADVERTISEMENT" banner is visible at the bottom right of the page.

# 期刊数据库-Archive



23 DECEMBER  
Volume 378 | Issue 6626



16 DECEMBER  
Volume 378 | Issue 6625



9 DECEMBER  
Volume 378 | Issue 6624



2 DECEMBER  
Volume 378 | Issue 6623



25 NOVEMBER  
Volume 378 | Issue 6622



18 NOVEMBER  
Volume 378 | Issue 6621



11 NOVEMBER  
Volume 378 | Issue 6620



4 NOVEMBER  
Volume 378 | Issue 6619



28 OCTOBER  
Volume 378 | Issue 6618



21 OCTOBER  
Volume 378 | Issue 6617



14 OCTOBER  
Volume 378 | Issue 6616



7 OCTOBER  
Volume 378 | Issue 6615









# 期刊数据库-文章详情页

RESEARCH ARTICLE | T CELLS



## Infant T cells are developmentally adapted for robust lung immune responses through enhanced T cell receptor signaling

一键分享

PUSPA THAPA , REBECCA S. GUYER, ALEXANDER Y. YANG, CHRISTOPHER A. PARKS , TODD M. BRUSKO , MAIGAN BRUSKO , THOMAS J. CONNORS , AND DONNA L. FARBER  [Authors Info & Affiliations](#)

SCIENCE IMMUNOLOGY • 10 Dec 2021 • Vol 6, Issue 66 • DOI: 10.1126/sciimmunol.abj0789



正文内容；参考文献在底部

### Connection of the youth

Infants have less developed immune systems than adults but can still respond to a plethora of infections and in some cases better than adults. To better understand how this occurs with respect to T cell immunity, Thapa *et al.* used a co-adoptive transfer model of infant and adult mouse CD4<sup>+</sup> T cells into mice that were subsequently infected with influenza. Infant CD4<sup>+</sup> T cells were more able to get to the lungs and divided more than adult cells after infection. This correlated to increased sensitivity of infant CD4<sup>+</sup> T cells to TCR activation due to enhanced immune synapse formation and subsequent downstream signaling. Thus, during influenza infection, infant CD4<sup>+</sup> T cells are more sensitive to TCR stimuli than adult CD4<sup>+</sup> T cells.



标签栏—快速查看文章相关信息

# 期刊数据库-文章标签栏

**Information & Authors**

**INFORMATION** | AUTHORS

**Published In**

SCIENCE ADVANCES  
Volume 6 | Issue 44  
October 2020

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**Submission history**

Received: 12 December 2019  
Accepted: 10 September 2020

**Acknowledgments**

文章和作者信息

**Metrics & Citations**

**METRICS** | CITATIONS

**Article Usage**

DOWNLOAD | CITATION

Month	Usage
MAR	1
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6 | 11

Period	Total
TOTAL	6
6 MONTHS	11
12 MONTHS	11

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38

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**References**

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参考文献

**Media**

**FIGURES** | MULTIMEDIA

**Fig. 1 Modeling the leukemic BM niche in a leukemia-on-a-chip platform.** (A) Schematic demonstrating the design of leukemia-on-a-chip that consists of three functional regions. (B) Whole scan of the resultant leukemic BM niche system, where the enlarged area shows the colocalization of murine B-ALL cells within the perivascular niche. The bottom insert shows colocalization in the endosteal niche. (C) Hematoxylin and eosin (H&E) staining image of the in vivo murine leukemic BM niche, with the enlarged area showing the colocalization of B-ALL cells within the perivascular and endosteal niches. (D) The chemoresistance was compared between the engineered human BM niches of *ETV6-RUNX1*<sup>+</sup> REH and *Ph*<sup>+</sup> SUP-B15 B-ALL. Each drug concentration had three or more experimental replicates. (E) The cytokine profiles from two B-ALL blasts with and without niche cells were quantified using membrane-based enzyme-linked immunosorbent assay (ELISA) analysis. MCP-1, monocyte chemoattractant protein-1; MIG, monokine induced by gamma interferon. (F) Quantification of nuclear (Nuc)/cytoplasmic (Cyto) ratio of NF-κB in REH and SUP B-ALL within their respective niche models. The ratios for REH and SUP were manually measured from three experimental replicates ( $n > 150$ ). (G) Percentage of Ki67<sup>+</sup> B-ALL cells, corresponding to (F). Data were collected from three experimental replicates. Unpaired t test (\*\* $P < 0.01$ , Mann-Whitney test). G-CSF, granulocyte colony-stimulating factor; GM-CSF, granulocyte-macrophage colony-stimulating factor; GRO,

文章图表

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HOME > SCIENCE > VOL. 379, NO. 6630 > METEORITES HAVE INHERITED NUCLEOSYNTHETIC ANOMALIES OF POTASSIUM-40...

RESEARCH ARTICLE | COSMOCHEMISTRY



## Meteorites have inherited nucleosynthetic anomalies of potassium-40 produced in supernovae

NICOLE X. NIE , DA WANG , ZACHARY A. TORRANO , RICHARD W. CARLSON , CONEL M. O'D. ALEXANDER , AND ANAT SHAHAR

[Authors Info & Affiliations](#)

SCIENCE · 26 Jan 2023 · Vol 379, Issue 6630 · pp. 372-376 · DOI: 10.1126/science.abn1783

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### Nucleosynthetic anomalies in meteorites

The origins of the material that accreted to form Earth can be constrained using meteorites that contain leftover material from planet formation. Nucleosynthetic anomalies are small differences in isotope ratios left by incomplete mixing of presolar material. They are already known for refractory elements, which condense into dust grains first, but it has been unclear whether more volatile elements were fully mixed before planet formation. In two complementary papers, Martins *et al.* and Nie *et al.* identified nucleosynthetic anomalies in the moderately volatile elements zirconium and potassium, respectively. They used cosmochemical models to de

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Article Title	Publication	Publication Date
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<input type="checkbox"/> Immunity elicited by natural infection or Ad26.COV2.S vaccination protects hamsters against SARS-CoV-2 variants of concern	Science Translational Medicine, Volume 0, Issue 0	9/7/21 12:00 AM

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The screenshot shows the Science journal website interface. At the top left is the Science logo. The navigation bar includes links for 'Current Issue', 'First release papers', 'Archive', 'About', and a 'Submit manuscript' button. A red box highlights the 'GET OUR E-ALERTS' button in the top right. Below the navigation is a banner image with a red arrow pointing from the 'GET OUR E-ALERTS' button to the 'ALERTS AND NEWSLETTERS' button in the 'ALERTS' section. The 'MY ACCOUNT' section is highlighted with a red border and contains a sidebar with 'My Account' options: 'ACCESS ENTITLEMENTS', 'ALERTS', 'BOOKMARKS', and 'SAVED SEARCHES'. The 'ALERTS' section has two tabs: 'ALERTS AND NEWSLETTERS' (selected) and 'CITATION ALERTS'. Below the tabs is a 'Manage your email preferences.' section with a 'MANAGE EMAIL PREFERENCES >' button.

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