



# Web of Science助您开启高效科研之旅

王 振 | 科睿唯安 | 学术研究事业部 | 高级解决方案专家

# 日益复杂和竞争激烈的研究环境

## 如何充分挖掘文献价值以使其更好地助力您的科学研究？



### 缺乏研究时间

“

研究人员在管理完成研究项目所需的所有任务时，感到时间越来越紧迫，压力越来越大。

”



### 低质量期刊/论文陷阱

“

期刊、论文数量极速增长，如何甄别高影响力期刊、论文成为影响科研效率的重要问题。

”



### 不断增长的研究成果类型

“

期刊、会议、图书、专利、博硕士论文、预印本、数据集……不同载体类型的研究成果正深刻影响着每一位科研人员的研究进程。

”

# 内容大纲

Web of Science平台介绍

如何借助Web of Science获取更多科研信息

如何更好地展示学术成果

让高效成为科研常态



# Web of Science平台介绍



Web of Science

# Web of Science 平台



通过同一平台监测和发现：最新研究成果、潜在合作伙伴、研究趋势和商业机会。

- 2.08亿+ 文献记录
- 24亿+ 参考文献
- 34,500 +期刊
- 254 学科
- 550万+ 博硕士论文
- 200万+ 预印本
- 1.13亿+ 专利
- 1500万+ 数据集

# Science Citation Index Expanded™

SCIE, 科学引文索引



|       |         |           |       |
|-------|---------|-----------|-------|
| 数学    | 计算机科学   | 园艺学       | 地质学   |
| 物理    | 自动控制    | 能源与燃料     | 工程    |
| 化学    | 植物学     | 医学        | 材料科学  |
| 生物    | 昆虫学、动物学 | 心理学       | 教育    |
| 生态学   | 结晶学     | 天文学和天体物理学 | 海洋学   |
| 生理学   | 环境科学    | 食品科学      | 光学    |
| 农业、农学 | 行为科学    | 声学        | ..... |

9,500+  
期刊

1900  
最早回溯年

60,000,000+  
文献记录

178  
Web of Science 类别

# Social Sciences Citation Index™

SSCI, 社会科学引文索引



|         |         |           |       |
|---------|---------|-----------|-------|
| 人类学     | 经济学     | 老年医学      | 法律    |
| 区域研究    | 教育和教育研究 | 卫生政策和服务   | 语言学   |
| 商业      | 环境研究    | 历史        | 管理学   |
| 文化研究    | 人类工程学   | 休闲、运动和旅游  | 护理    |
| 沟通      | 伦理学     | 工业关系与劳工问题 | 心理学   |
| 犯罪学和刑罚学 | 家庭研究    | 图书馆学与情报学  | 政治学   |
| 人口统计学   | 地理      | 国际关系      | ..... |

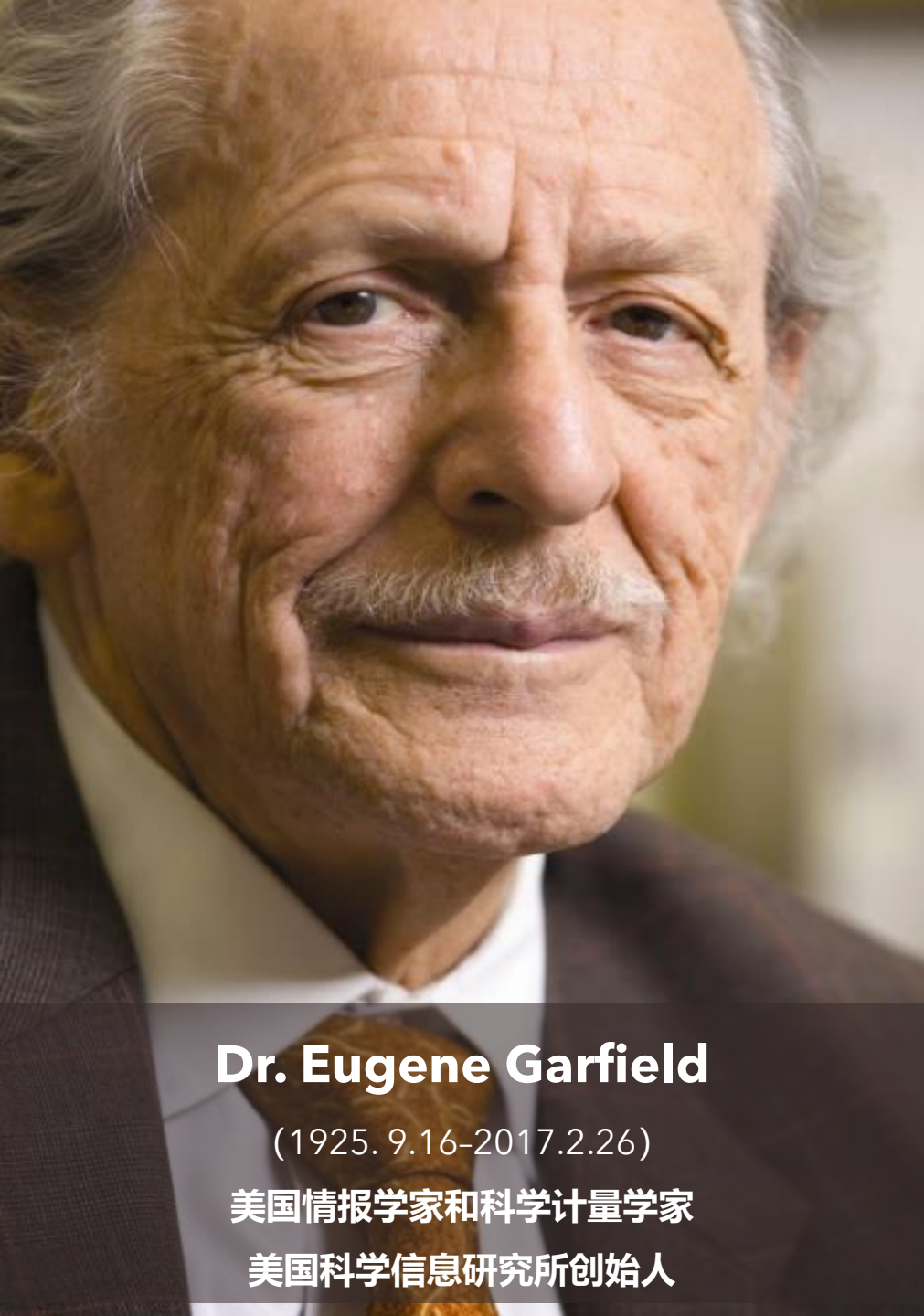
3,500+  
期刊

1900  
最早回溯年

10,000,000+  
文献记录

58  
Web of Science 类别

# Citation Index?



**Dr. Eugene Garfield**

(1925. 9.16-2017.2.26)

美国情报学家和科学计量学家

美国科学信息研究所创始人

## Citation Indexes for Science

A New Dimension in Documentation  
through Association of Ideas

Eugene Garfield

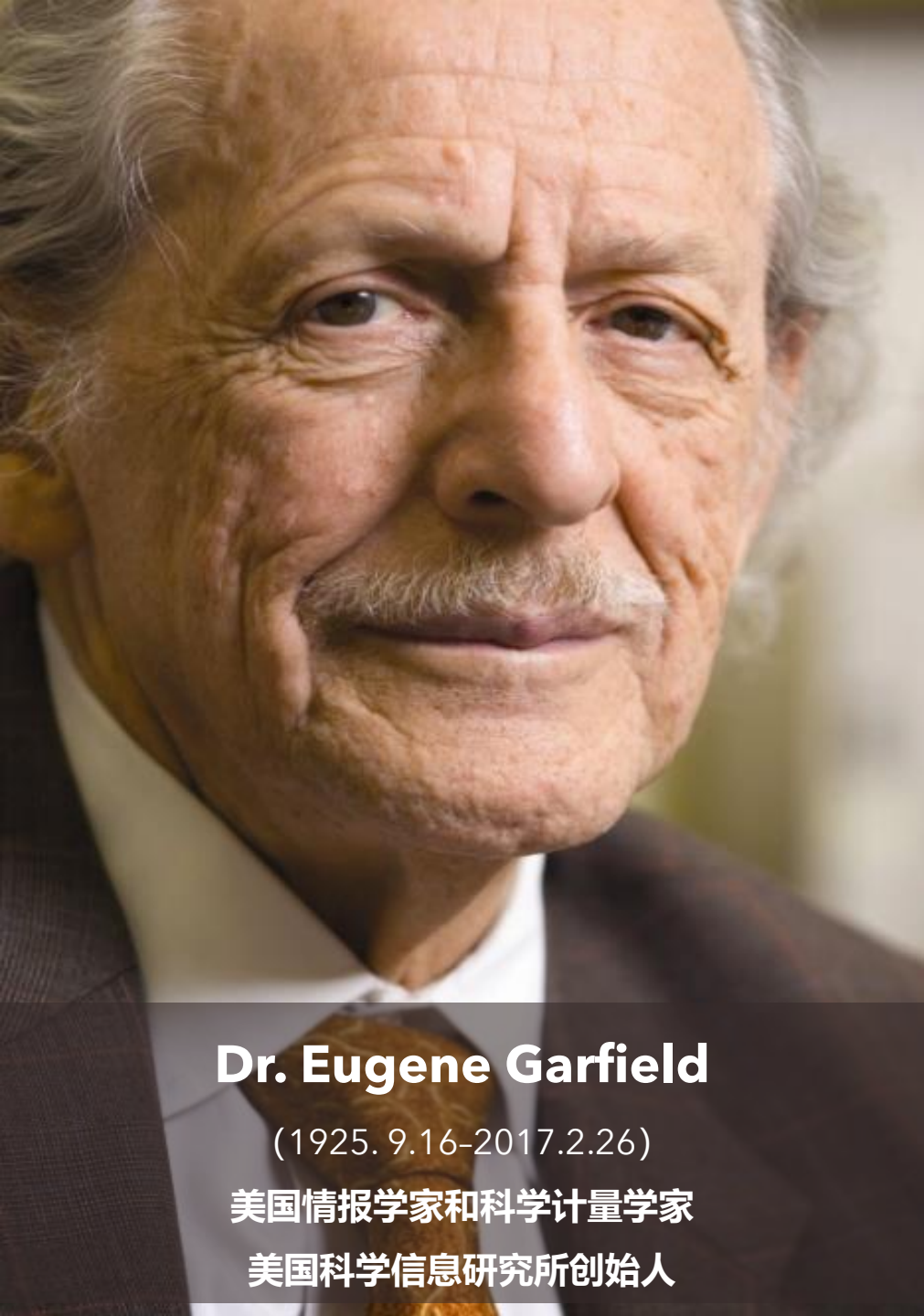
“The uncritical citation of disputed data by a writer, whether it be deliberate or not, is a serious matter. Of course, knowingly propagandizing unsubstantiated claims is particularly abhorrent, but just as many naive students may be swayed by unfounded assertions presented by a writer who is unaware of the criticisms. Buried in scholarly journals, critical notes are increasingly likely to be overlooked with the passage of time, while the studies to which they pertain, having been reported more widely, are

approach to subject control of the literature of science. By virtue of its different construction, it tends to bring together material that would never be collated by the usual subject indexing. It is best described as an association-of-ideas index, and it gives the reader as much leeway as he requires. Suggestiveness through association-of-ideas is offered by conventional subject indexes but only within the limits of a particular subject heading.

If one considers the book as the macro unit of thought and the periodical article

Unique  
Data  
**独特**

- Dr. Garfield 1955年在 *Science* 发表论文提出将引文索引作为一种新的文献检索与分类工具：将**一篇文献**作为检索字段从而跟踪一个Idea的发展过程及学科之间的交叉渗透的关系。

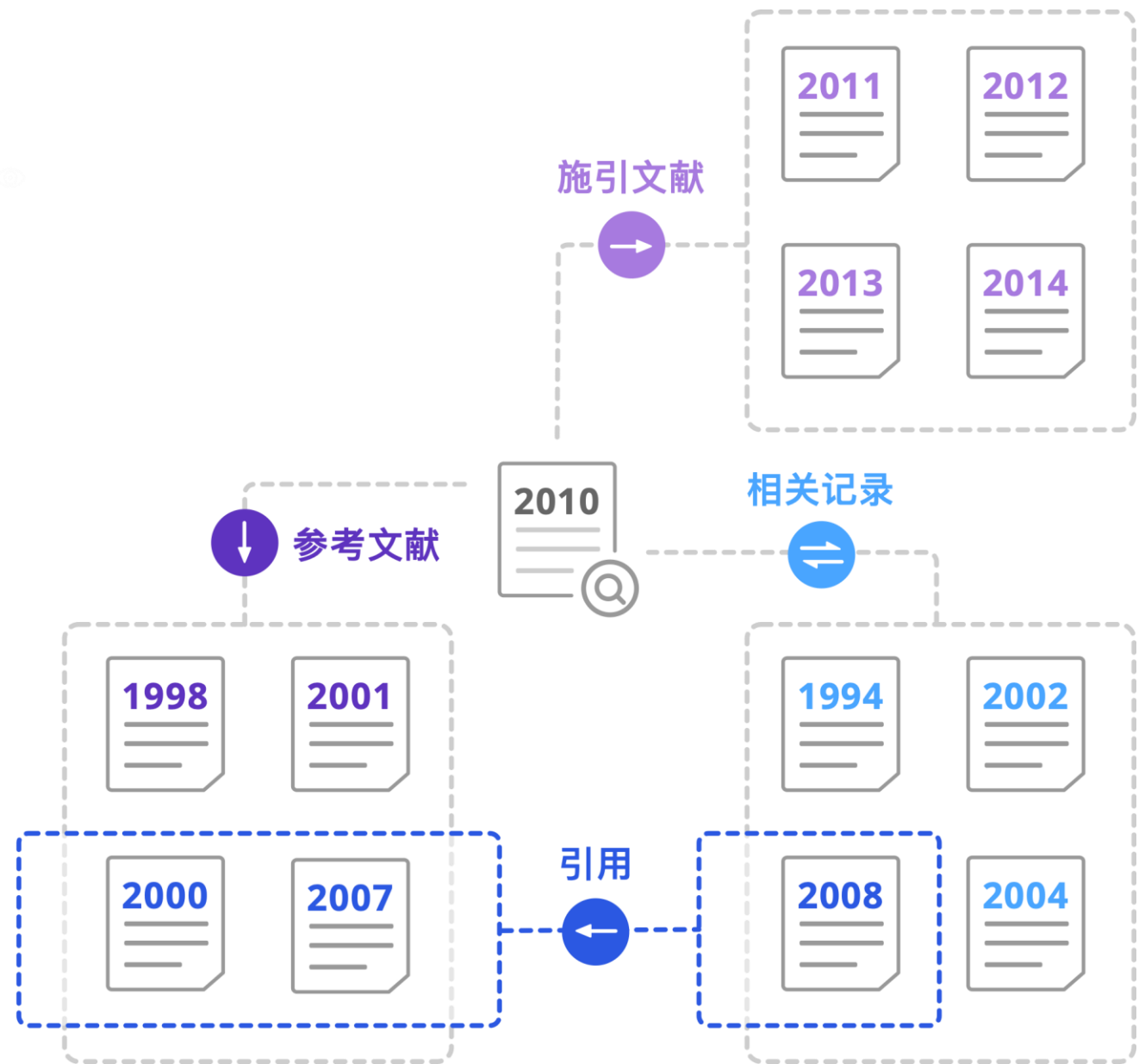


**Dr. Eugene Garfield**

(1925. 9.16-2017.2.26)

美国情报学家和科学计量学家

美国科学信息研究所创始人





如何借助Web of Science获取更多科研信息

# 借助《研究前沿》探寻研究新视野

# 研究前沿报告



2024年11月27日，科睿唯安与中国科学院向全球联合发布了《2024研究前沿》报告，这是双方连续第11年携手发布《研究前沿》系列报告。

《2024研究前沿》报告依托于中国科学院杰出的文献分析实力，根据科睿唯安Web of Science和Essential Science Indicators（基础科学指标，简称ESI）的高质量数据，遴选出了自然科学和社会科学的 11 个大学科领域排名最前的 110个热点前沿和 15个新兴前沿。

## 07

## 化学与材料科学

表 29 化学与材料科学领域 Top 10 热点前沿

| 序号 | 研究前沿              | 核心论文 | 被引频次  | 核心论文<br>平均出版年 |
|----|-------------------|------|-------|---------------|
| 1  | 碳量子点发光材料          | 36   | 4092  | 2021.1        |
| 2  | 硒化锑薄膜太阳能电池        | 15   | 2241  | 2021.1        |
| 3  | 酸性析氧电催化剂          | 32   | 6134  | 2020.4        |
| 4  | 有机窄谱带发光材料         | 23   | 4243  | 2020.4        |
| 5  | 过渡金属催化的烯烃双官能团化反应  | 36   | 6370  | 2020.0        |
| 6  | 阴离子交换膜燃料电池和水电解池   | 26   | 6016  | 2020.0        |
| 7  | 吸附式大气集水研究         | 27   | 5174  | 2020.0        |
| 8  | 氧化还原液流电池          | 23   | 4118  | 2020.0        |
| 9  | 水系锌离子电池无枝晶锌金属负极设计 | 41   | 19689 | 2019.8        |
| 10 | 镧系单分子磁体           | 20   | 5090  | 2019.8        |

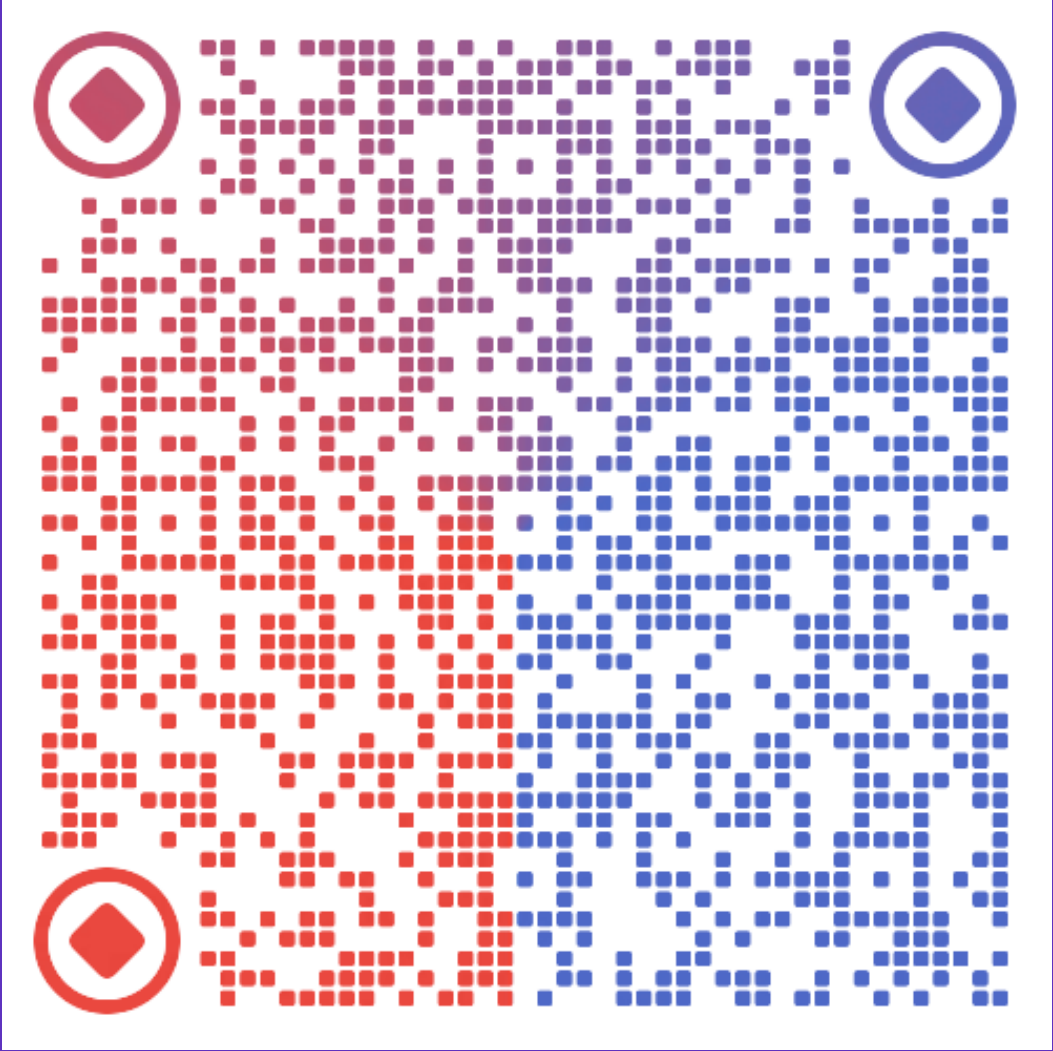
## 08

## 物理学

表 35 物理学领域 Top 10 热点前沿

| 序号 | 热点前沿                    | 核心论文 | 被引频次 | 核心论文<br>平均出版年 |
|----|-------------------------|------|------|---------------|
| 1  | 高压下富氢化物的高温超导电性研究        | 30   | 4046 | 2021.5        |
| 2  | 笼目超导材料 $AV_3Sb_5$ 的特性研究 | 45   | 5694 | 2021.1        |
| 3  | $f(Q)$ 引力理论及其应用         | 26   | 2320 | 2021.1        |
| 4  | 量子点发光二极管                | 24   | 4059 | 2020.8        |
| 5  | 无限层型镍酸盐的超导电性研究          | 25   | 2820 | 2020.7        |
| 6  | 双场量子密钥分发                | 36   | 5682 | 2020.6        |
| 7  | 半导体量子计算                 | 23   | 3736 | 2020.2        |
| 8  | 轴子暗物质探测                 | 17   | 2630 | 2020.2        |
| 9  | 微型发光二极管的尺寸效应研究          | 15   | 2360 | 2020.1        |
| 10 | 氧化镓功率器件研发               | 44   | 7990 | 2020.0        |

# 研究前沿报告



# Web of Science 检索方式速览

# Web of Science 核心合集提供的检索方式

Clarivate

简体中文 产品

Web of Science™ 检索

> 菜单

文献 研究人员

选择数据库: Web of Science 核心合集 引文索引: All

文献 被引参考文献 化学结构

标题 示例: water consum\* 2021

+ 添加行 + 添加日期范围 高级检索

清除 检索

文献 (基本检索)

被引参考文献

化学机构

高级检索

文献检索

研究人员检索

欢迎回来, ...!

Web of Science ResearcherID: S-7244-2019

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控制在主页上可以查看的内容, 让您更轻松地重新开始研究。

自定义我的主页

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Web of Science™ 检索

> 菜单

文献

研究人员

选择数据库: Web of Science 核心合集 引文索引: All

文献

被引参考文献

化学结构

标题

2021

×

+ 添加行

+ 添加日期范围

高级检索

× 清除

检索



欢迎回来, ...!

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控制在主页上可以查看的内容, 让您更轻松地重新开始研究。

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# Web of Science 核心合集提供的检索方式——高级检索

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高级检索式生成器

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高级检索式生成器

文献 研究人员

选择数据库: Web of Science 核心合集 引文索引: All

将检索词添加到检索式预览

将检索词添加到检索式

所有字段 示例: liver disease india singh 添加到检索式

更多选项 检索式预览

在此输入或编辑检索式。您还可组配之前的检索式, 例如 #5 AND #2

+ 添加日期范围

预览检索式

清除 检索

检索帮助

布尔运算符: AND, OR, NOT  
字段标识:

可供检索的字段

TS=主题

TI=标题

AB=摘要

AU=作者

AI=作者标识符

AK=作者关键词

GP=关键词 Plus®

SO=出版物标题

DO=DOI

PY=出版年

CF=会议

AD=地址

OG=所属机构

OO=组织

SG=下属组织

SA=街道地址

CI=城市

FO=基金资助机构

FG=授权号

FD=基金资助详情

FT=基金资助信息

SU=研究方向

WC=Web of Science 类别

BN=被引用次数

ID=标识符

DOP=出版日期

PUBL=出版商

ALL=所有字段

FPY=最终出版年

Clarivate™

20

# Web of Science 核心合集提供的检索方式——被引参考文献检索

- 以一篇文献为检索起点进行被引参考文献检索

## 被引参考文献检索的特点：

- 以一篇文章、一个作者、一本期刊或者一本书作为检索词，进行被引参考文献检索，在不了解关键词或者难于限定关键词的时候，您可以从一篇高质量的文献出发，了解课题的全貌。
  - 某一理论有没有得到进一步的证实？是否已经应用到了新的领域？
  - 某项研究的最新进展及其延伸？
  - 某个实验方法是否得到改进？
  - 如何了解某篇论文/某部论著被引用情况？以揭示其影响力。
  - 跟踪未被Web of Science平台收录的文献的后续进展

# Web of Science 核心合集提供的检索方式——被引参考文献检索

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检索

...

> 菜单

文献 研究人员

选择数据库: Web of Science 核心合集 引文索引: All

文献 被引参考文献 化学结构

被引作者

示例: Peterson S\*

AZ

AND

被引著作

示例: adv\* food\* res\*

AZ

AND

被引年份

示例: 2013-2014

+ 添加行

+ 添加日期范围

清除

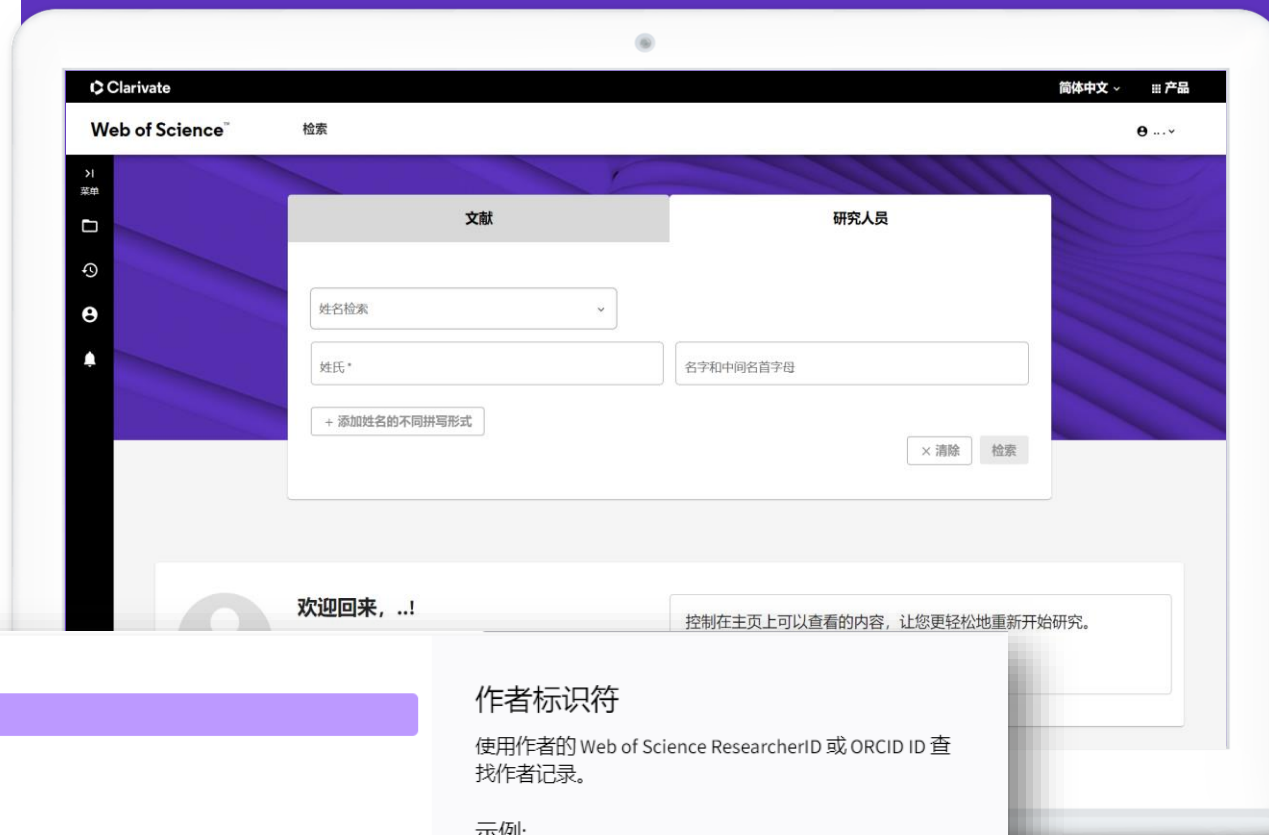
检索



# Web of Science 核心合集提供的检索方式—— 研究人员检索

①通过**作者姓名检索**  
输入部分内容将出现弹出提示

②通过作者的  
**Web of Science ResearcherID 或 ORCID ID**  
检索



姓名检索

作者标识符

## 作者标识符

使用作者的 Web of Science ResearcherID 或 ORCID ID 查找作者记录。

示例:

A-1009-2008

0000-0003-3768-1316

注: 某些 Web of Science ResearcherID 和 ORCID ID 可能未与作者记录相关联。请试着改为使用姓名检索。

# 点击作者姓名进入作者记录页面

Clarivate

Web of Science™

检索

简体中文

产品

检索 > 作者记录

2 Web of Science 上的如下结果:

Q STEPHAN,ANDREW W. (作者姓名)

精炼检索结果

快速过滤

包括 Web of Science 核心合集出版物

2

作者姓名

Stephan, Andrew W.

2

Stephan, A

1

Stephan, A.

1

Stephan, A. W.

1

Stephan, Andrew

1

全部查看

组织

Boston University

1

Computat Phys Inc

1

Naval Research Laboratory

1

0/2

作为组合的记录查看

合并记录

1

Stephan, Andrew W.

Naval Research Laboratory

WASHINGTON, DC, USA

Web of Science ResearcherID: GEV-4619-2022

作者的署名变体: Stephan, A. W. Stephan, AW 显示更多...

主要期刊: Journal of Geophysical Research-space Physics, Proceedings of S

最近的出版论文

2

Stephan, Andrew W.

University of Minnesota System

Dept Elect & Comp Engn

Stephan, Andrew W. 这是通过算法生成的作者记录

4555 Overlook Ave

WASHINGTON, DC, USA

关于

作者的署名变体

Stephan, Andrew W. Stephan, AW Stephan, A. W. Stephan, A Stephan, A. 显示更多

组织

2013-2021

Naval Research Laboratory

2002-2018

United States Navy

2017-2017

United States Department of Defense

2001-2001

Computat Phys Inc

2000-2001

Boston University

出版物

作者影响力射束图

范围: 最近 10 年

2019

2018

2017

2016

2015

2019

2018

2017

2016

2015

您是作者本人吗?

核实您的研究成果,并编辑您在 Web of Science 作者记录页面中的姓名、职称、所属机构及个人头像基础信息。

认领我的作者记录

作者指标

作者影响力射束图概要

0 25 50 75 100

引文百分位

作者的出版物百分位范围

引文百分位中位数

显示作者在 1980-2019 期间的出版物的百分位范围。请在完整射束图中查看所有出版物信息。

查看完整的射束图

引文网络

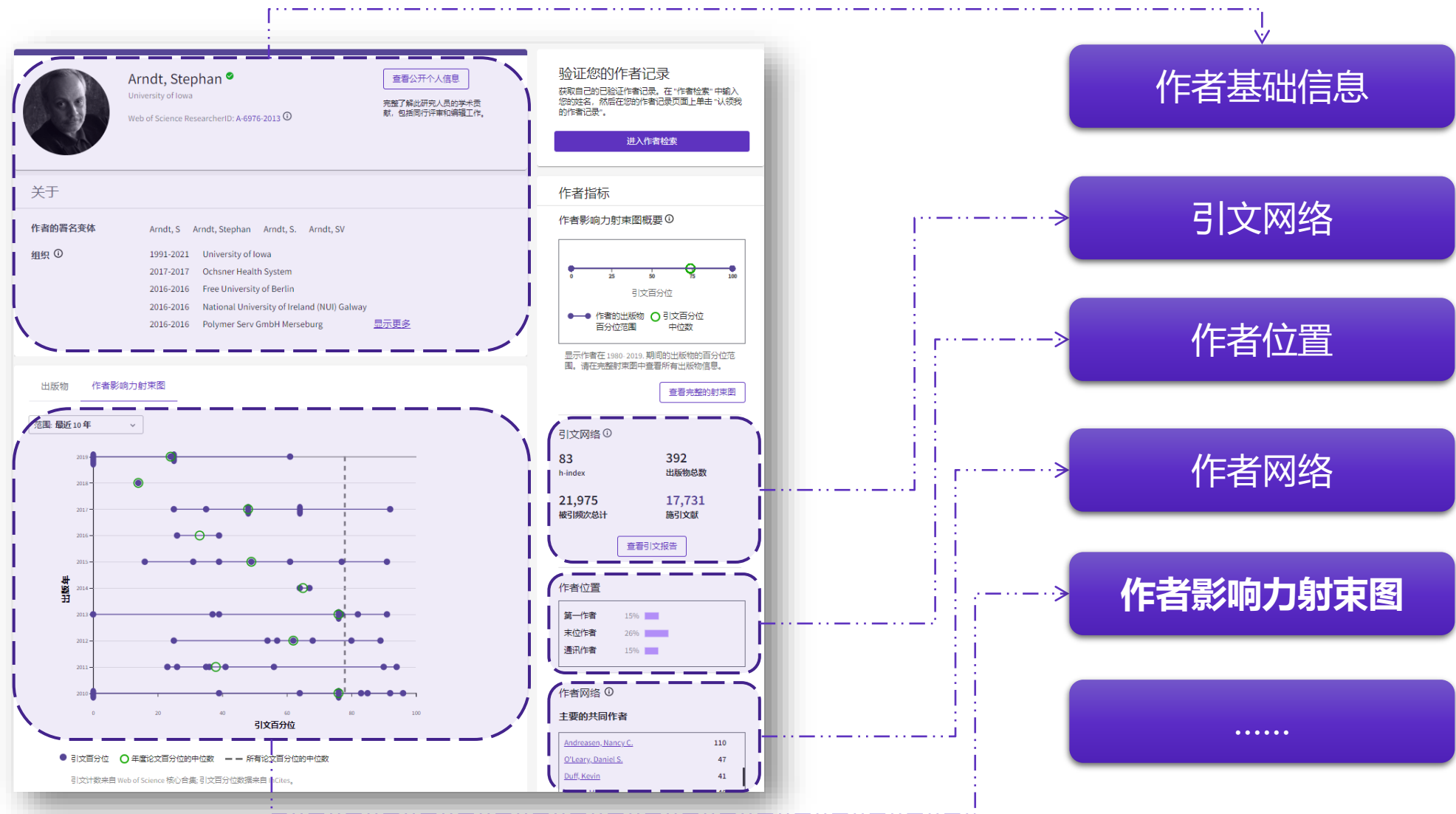
10 h-index

41 出版物总数

419 被引频次总计

335 施引文献

# 查看作者记录



# Web of Science作者档案

## 快速梳理和展示现有成果

全方位且直观地展现学者个人全球引证分布，揭示作者文章所受全球学者的情况。

地理引证关系图

您可以在下面看到自己的引文在全球范围内的分布。您会在引用您著作的 Web of Science 核心合集中看到每个拥有出版物贡献者的不同机构的数据点。

蓝色圆圈可以单击放大并查看更精确的位置，而红色大头针可以单击以查看从特定城市引用您论文的详细信息。

如果您的引文超过 1,000 条，您的印证关系图可能需要一段时间才能加载完毕。



### 精炼检索结果

在结果中检索...

Filter by Marked List

快速过滤

☐ 高被引论文 7

出版年

☐ 2019 4

☐ 2018 3

文献类型

☐ 论文 7

Web of Science 类别

☐ Economics 4

☐ Environmental Sciences 4

☐ Engineering Environmental 2

☐ Green Sustainable Science Technology 2

☐ Energy Fuels 1

全部查看 >

作者

☐ Lin BQ 7

☐ Gong X 1

☐ Jia ZJ 1

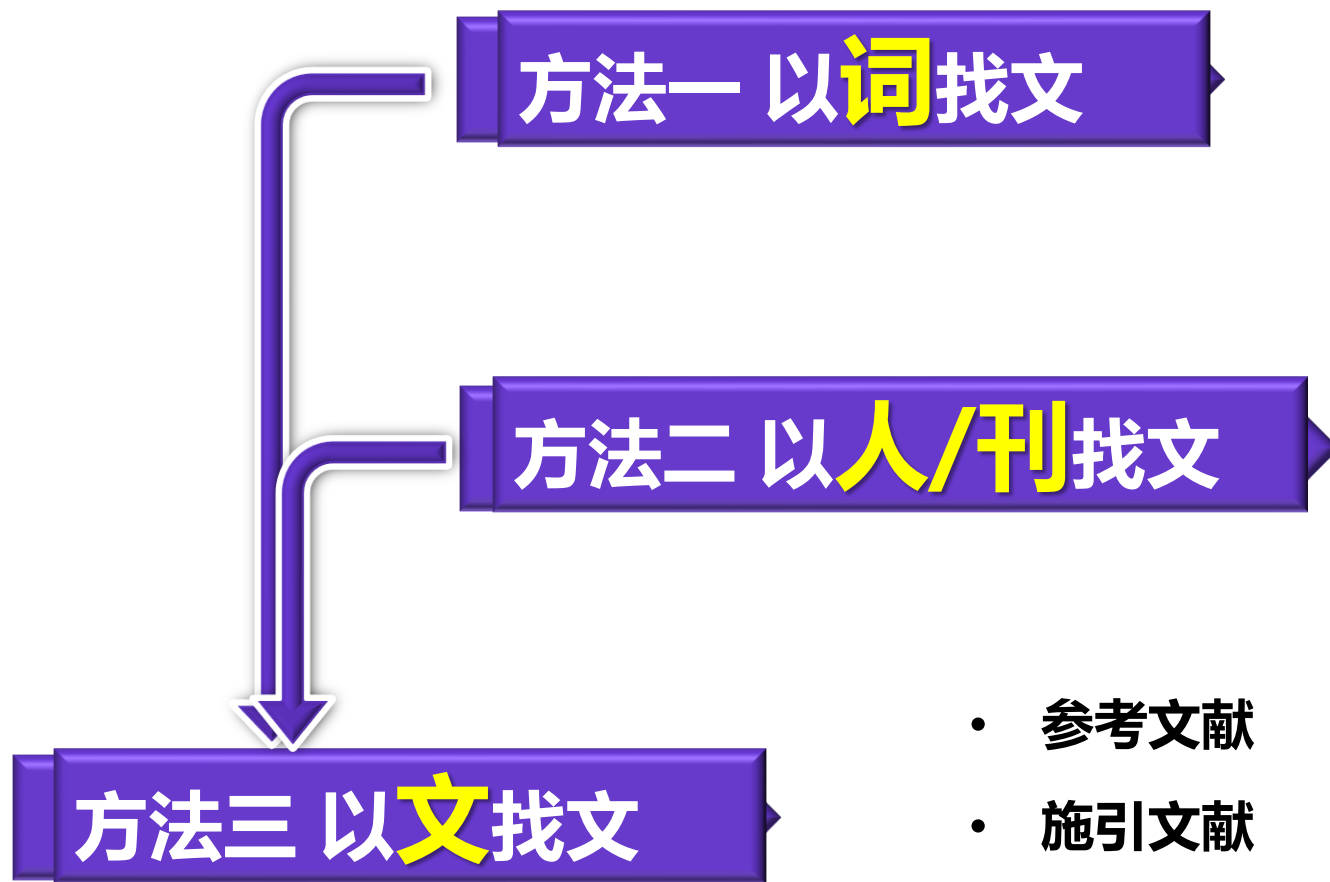
### 发表的高被引论文

0/7 添加到标记结果列表 导出

排序方式: 相关性 < 1 / 1 >

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <input type="checkbox"/> 1 | <b>Analysis of energy related CO2 emissions in Pakistan</b><br><a href="#">Lin BQ</a> and <a href="#">Raza MY</a><br>May 10 2019   <a href="#">JOURNAL OF CLEANER PRODUCTION</a> 219 , pp.981-993<br>CO2 (carbon dioxide) emissions from fossil fuels have turned out one of the most perilous and complex issues driving the climate change debate. The issue of increasing demand for electricity at the same time reducing CO2 emissions has become important worldwide. This study evaluates the CO2 emissions from the power sector of Pakistan during 1978-2017 using Logarithmic Mean Divisia Index techniq<br>... 显示更多<br><a href="#">S-F-X</a> <a href="#">出版商处的全文</a> ***                                                      | 100<br>被引/频次<br>88<br>参考文献<br>相关记录 ? |
| <input type="checkbox"/> 2 | <b>The role of renewable energy technological innovation on climate change: Empirical evidence from China</b><br><a href="#">Lin BQ</a> and <a href="#">Zhu JP</a><br>Apr 1 2019   <a href="#">SCIENCE OF THE TOTAL ENVIRONMENT</a> 699 , pp.1505-1512<br>To develop renewable energy as well as promote China's transition to a low-carbon economy, the government needs to pay attention to renewable energy technological innovation (RETI). Using China's provincial panel data from 2000 to 2015, and regarding the CO2 emissions as the proxy of climate change, this paper identifies the relationship between RETI and CO2 emissions as well as seeks to confir<br>... 显示更多<br><a href="#">S-F-X</a> <a href="#">出版商处的全文</a> *** | 113<br>被引/频次<br>53<br>参考文献<br>相关记录   |
| <input type="checkbox"/> 3 | <b>What will China's carbon emission trading market affect with only electricity sector involvement? A CGE based study</b><br><a href="#">Lin BQ</a> and <a href="#">Jia ZJ</a><br>Feb 2019   <a href="#">ENERGY ECONOMICS</a> 78 , pp.301-311<br>On December 29, 2017, China's Carbon Trading Scheme (D'S) was officially launched, and it may be the largest emission trading platform in the world. This paper establishes 5 counter-measured scenarios based on the recently launched China's national E'S market and constructs a dynamic recursive Computable General Equilibrium model to study the impact of national ETS on the economy, energy, and e<br>... 显示更多<br><a href="#">S-F-X</a> <a href="#">出版商处的全文</a> ***         | 65<br>被引/频次<br>61<br>参考文献<br>相关记录    |
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| <input type="checkbox"/> 5 | <b>Regional differences on CO2 emission efficiency in metallurgical industry of China</b><br><a href="#">Lin BQ</a> and <a href="#">Xu MM</a><br>Sep 2018   <a href="#">ENERGY POLICY</a> 120 , pp.302-311<br>Analysis of CO2 emission has attracted more attention due to increasing environmental awareness. As a pillar of the national economy, the CO2 emissions of the metallurgical industry continually increased during 2000-2015 and reached around 3208.65 million tons in 2015. Thus, research on the CO2 emission performance of the metallurgical industry is significant for achieving binding emission redu<br>... 显示更多<br><a href="#">S-F-X</a> <a href="#">出版商处的全文</a> ***                                             | 78<br>被引/频次<br>42<br>参考文献<br>相关记录    |
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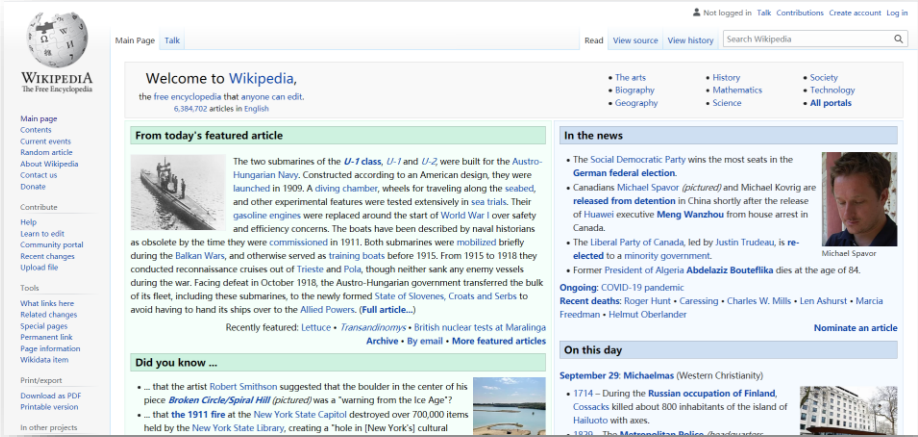


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# 方法一：以词找文 确定关键词



# 方法一：以词找文 ➡ 确定关键词

## 已有的文献信息

石墨烯的制备、功能化及在化学中的应用

胡耀娟 金娟 张卉 吴萍 蔡称心\*

(南京师范大学化学与环境科学学院, 江苏省生物功能材料重点实验室, 电化学实验室, 南京 210097)

**摘要:** 石墨烯是最近发现的一种具有二维平面结构的碳纳米材料, 它的特殊单原子层结构使其具有许多独特的物理化学性质. 有关石墨烯的基础和应用研究已成为当前的前沿和热点课题之一. 本文仅就目前石墨烯的制备方法、功能化方法以及在化学领域中的应用作一综述, 重点阐述石墨烯应用于化学修饰电极、化学电源、催化剂和药物载体以及气体传感器等方面的研究进展, 并对石墨烯在相关领域的应用前景作了展望.

**关键词:** 石墨烯; 碳材料; 石墨烯氧化物; 石墨烯功能化; 石墨烯应用

中图分类号: O646

Graphene: Synthesis, Functionalization and Applications in Chemistry

**1 制备 — synthesis**

**Abstract:** Graphene, a recently discovered carbon nanomaterial with carbon atoms tightly packed into a two-dimensional honeycomb lattice, possesses many novel and unique physical and chemical properties because of its unusual monolayer atomic structure. Graphene has received a great deal of attention in fundamental and applied research. This review presents the current status of graphene synthesis, functionalization, and applications in chemistry. Specifically, the use of graphene for the fabrication of chemically modified electrodes, the preparation of chemical power sources, catalyst and medicinal matrices, and in gas sensors are summarized. Finally, further applications based on graphene are briefly introduced.

**Key Words:** Graphene; Carbon material; Graphene oxide; Functionalization of graphene; Application of graphene

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石墨烯的制备与表征  
Preparation and Characterization of Graphene

### 2 制备 — preparation

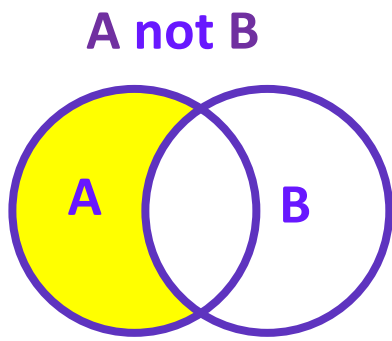
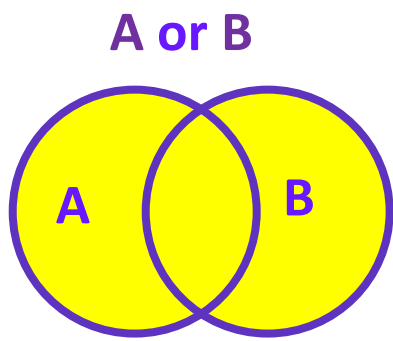
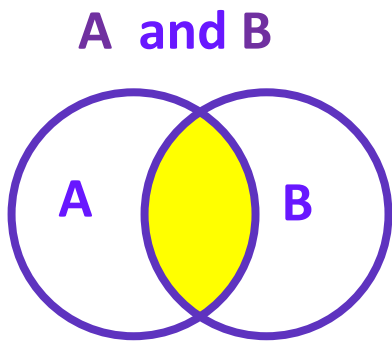
金属衬底上石墨烯生长机理研究进展  
Progress in studies of graphene growth mechanism on transition-metal surfaces

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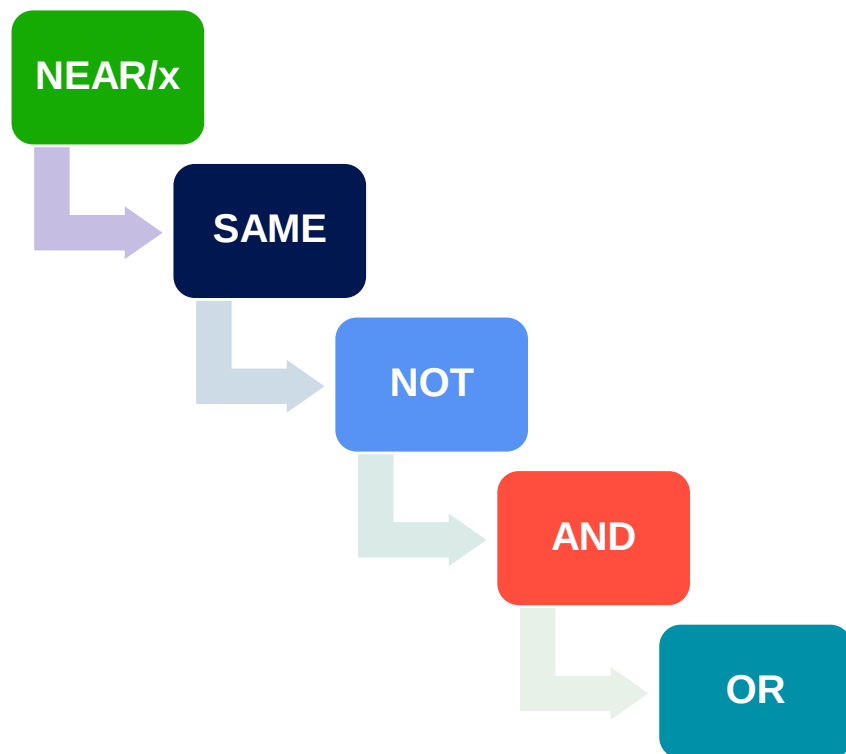
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Andre Geim

Laureate

曼彻斯特大学 安德烈·海姆

[The Nobel Prize in Physics 2010](#)

Prize Motivation: "for groundbreaking experiments regarding the two-dimensional material graphene" [more](#)

Born: 21 October 1958, Sochi, Russia

Field: Condensed matter physics Material physics



Konstantin Novoselov

曼彻斯特大学 康斯坦丁·诺沃肖洛夫

Laureate

[The Nobel Prize in Physics 2010](#)

Prize Motivation: "for groundbreaking experiments regarding the two-dimensional material graphene" [more](#)

Born: 23 August 1974, Nizhny Tagil, Russia

Field: Condensed matter physics Material physics



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Geim, Andre K (Geim, A. K.)

University of Manchester

Dept Phys & Astron,Natl Graphene Inst

MANCHESTER, LANCs, ENGLAND

Web of Science ResearcherID: J-7888-2012

作者的署名变体: Geim, A. K. Geim, AK 显示更多...

主要期刊: Physical Review B, Physical Review Letters, Nature Communications

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Geim, A. K. Geim, AK Geim, A

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作者: Kennedy, J (Kennedy, J); Eberhart, R (Eberhart, R)

书籍团体作者: IEEE (IEEE); IEEE (IEEE); IEEE (IEEE); IEEE (IEEE)

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1995 IEEE INTERNATIONAL CONFERENCE ON NEURAL NETWORKS PROCEEDINGS, VOLS 1-6

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地点: UNIV W AUSTRIA, PERTH, AUSTRALIA

日期: NOV 27-DEC 01, 1995

赞助方: IEEE, Neural Networks Council

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Kennedy 和Eberhart 通过研究鸟群和鱼群的捕食行为于1995年提出,开山之作

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## 摘要

The **particle swarm** is an algorithm for finding optimal regions of complex search spaces through the interaction of individuals in a population of **particles**. Even though the algorithm, which is based on a metaphor of social interaction, has been shown to perform well, researchers have not adequately explained how it works. Further, traditional versions of the algorithm have had some undesirable dynamical properties, notably the **particles'** velocities needed to be limited in order to control their trajectories. The present paper analyzes a **particle's** trajectory as it moves in discrete time (the algebraic view), then progresses to the view of it in continuous time (the analytical view). A five-dimensional depiction is developed, which describes the system completely. These analyses lead to a generalized model of the algorithm, containing a set of coefficients to control the system's convergence tendencies. Some results of the **particle swarm optimizer**, implementing modifications derived from the analysis, suggest methods for altering the original algorithm in ways that eliminate problems and increase the ability of the **particle swarm** to find optima of some well-studied test functions.

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## 1 Particle swarm optimization

Kennedy, J and Eberhart, R

1995 IEEE International Conference on Neural Networks (ICNN 95)

1995 | 1995 IEEE INTERNATIONAL CONFERENCE ON NEURAL NETWORKS PROCEEDINGS, VOLS 1-6 , pp.1942-1948

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The **particle swarm** - Explosion, stability, and convergence in a multidimensional complex space

作者: Clerc, M (Clerc, M) ; Kennedy, J (Kennedy, J)

IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION

卷: 6 期: 1 页: 58-73

文献号: PII S 10890778X(02)02209-9

DOI: 10.1109/4235.985692

出版时间: FEB 2002

已索引: 2002-02-01

文献类型: Article

摘要

The **particle swarm** is an algorithm for finding optimal regions of complex search spaces through the interaction of individuals in a population of **particles**. Even though the algorithm, which is based on a metaphor of social interaction, has been shown to perform well, researchers have not adequately explained how it works. Further, traditional versions of the algorithm have had some undesirable dynamical properties, notably the **particles'** velocities needed to be limited in order to control their trajectories. The present paper analyzes a **particle's** trajectory as it moves in discrete time (the algebraic view), then progresses to the view of it in continuous time (the analytical view). A five-dimensional depiction is developed, which describes the system completely. These analyses lead to a generalized model of the algorithm, containing a set of coefficients to control the system's convergence tendencies. Some results of the **particle swarm optimizer**, implementing modifications derived from the analysis, suggest methods for altering the original algorithm in ways that eliminate problems and increase the ability of the **particle swarm** to find optima of some well-studied test functions

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Soliman, SAH and Mantawy, AAH

2012 | MODERN OPTIMIZATION TECHNIQUES WITH APPLICATIONS IN ELECTRIC POWER SYSTEMS , pp.23-+

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Rashedi, E; Nezamabadi-Pour, H and Saryazdi, S

Jun 13 2009 | INFORMATION SCIENCES 179 (13) , pp.2232-2248

In recent years, various heuristic optimization methods have been developed. Many of these methods are inspired by swarm behaviors in nature. In this paper, a new optimization algorithm based on the law of gravity and mass interactions is introduced. In the proposed algorithm, the searcher agents are a collection of masses which interact with each other based on the Newtonian gravity and the la ... 显示更多

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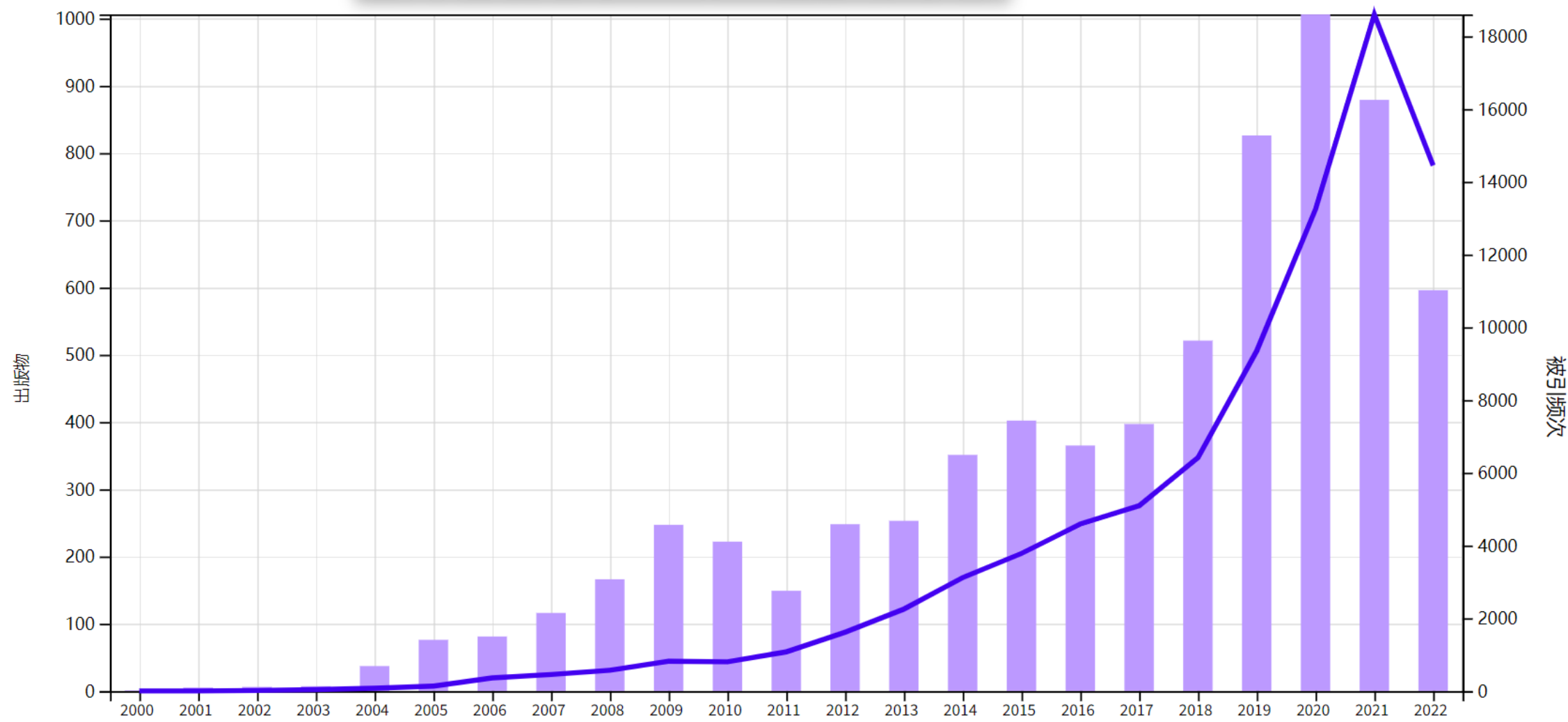
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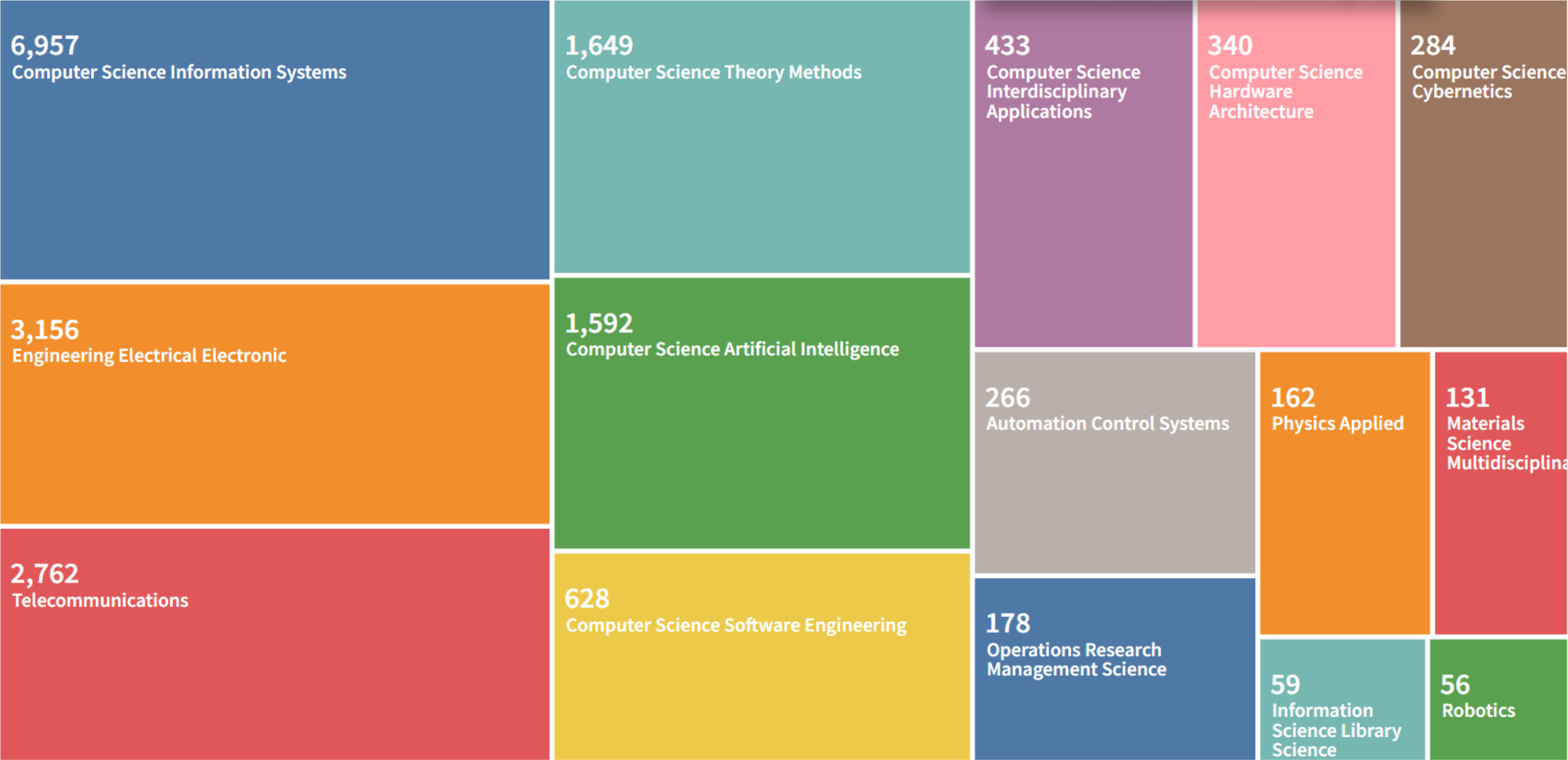
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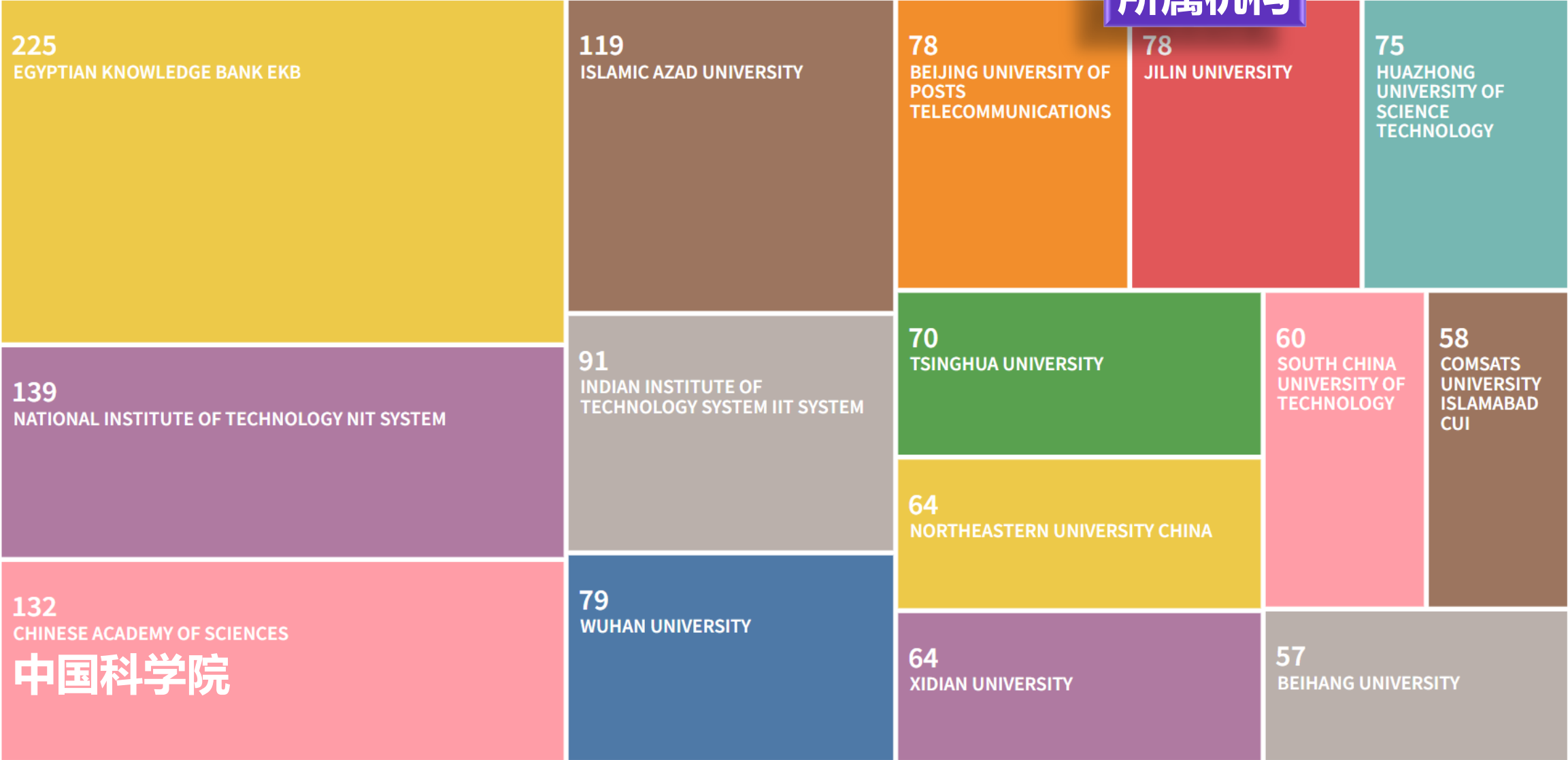
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1 Task offloading in fog computing: A survey of algorithms and optimization techniques

Kumari, N; Yadav, A and Jana, PK

Sep 4 2022 | COMPUTER NETWORKS 214

The exponential growth in Internet of Things (IoT) devices and the limitations of cloud computing in terms of latency and quality of service for time-sensitive applications have led to the unfolding of the efficient middleware technology called fog. Fog computing circumvents the limitations of the cloud by creating a seamless continuum between the things/IoT/end-user devices and the cloud and r

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Qadir, Z; Ullah, F; (...); Al-Turjman, F

Feb 15 2021 | Jan 2021 (在线发表) | COMPUTER COMMUNICATIONS 168 , pp.114-135

UAVs are increasingly incorporated in a wide range of domains such as disaster management and rescue missions. UAV path planning deals with finding the most optimal or shortest path for UAVs such that minimum energy and resources are utilized. This paper examines the path planning algorithms for UAVs through a literature survey conducted on 139 systematically retrieved articles published in the ... 显示更多

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DOI: 10.1016/j.ins.2009.03.004

出版时间: JUN 13 2009

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摘要

In recent years, various heuristic optimization methods have been developed. Many of these methods are inspired by swarm behaviors in nature. In this paper, a new optimization algorithm based on the law of gravity and mass interactions is introduced. In the proposed algorithm, the searcher agents are a collection of masses which interact with each other based on the Newtonian gravity and the laws of motion. The proposed method has been compared with some well-known heuristic search methods. The obtained results confirm the high performance of the proposed method in solving various nonlinear functions. (C) 2009 Elsevier Inc. All rights reserved.

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GSA: A Gravitational Search Algorithm

作者: Rashedi, E (Rashedi, Esmat) [1]; Nezamabadi-Pour, H (Nezamabad

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INFORMATION SCIENCES

卷: 179 期: 13 页: 2232-2248

DOI: 10.1016/j.ins.2009.03.004

出版时间: JUN 13 2009

已索引: 2009-06-13

文献类型: Article

摘要

In recent years, various heuristic optimization methods have been developed. Many of these methods are inspired by swarm behaviors in nature. In this paper, a new optimization algorithm based on the law of gravity and mass interactions is introduced. In the proposed algorithm, the searcher agents are a collection of masses which interact with each other based on the Newtonian gravity and the laws of motion. The proposed method has been compared with some well-known heuristic search methods. The obtained results confirm the high performance of the proposed method in solving various nonlinear functions. (C) 2009 Elsevier Inc. All rights reserved.

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SCIENCE

ISSN

0036-8075

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JCR ABBREVIATION

SCIENCE

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Science Citation Index Expanded (SCIE)

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MULTIDISCIPLINARY SCIENCES - SCIE

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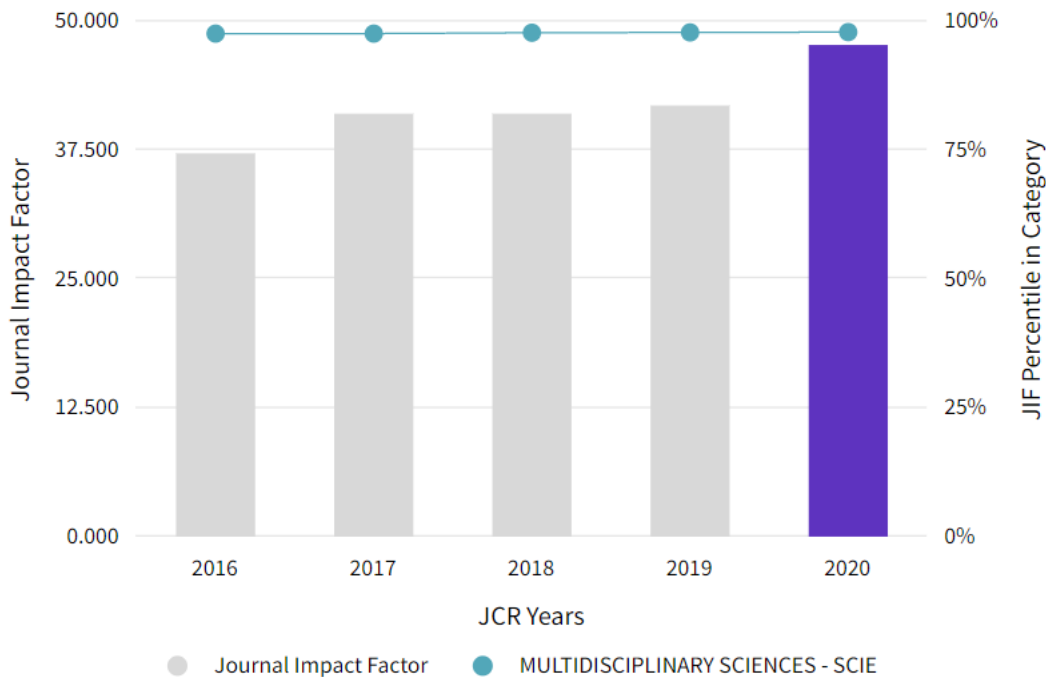
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| Organic and solution-processed tandem solar cells with 17.3% efficiency                     | 677            | ▼ |
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| Gut microbiome modulates response to anti-PD-1 immunotherapy in melanoma patients           | 490            | ▼ |
| The spread of true and false news online                                                    | 454            | ▼ |
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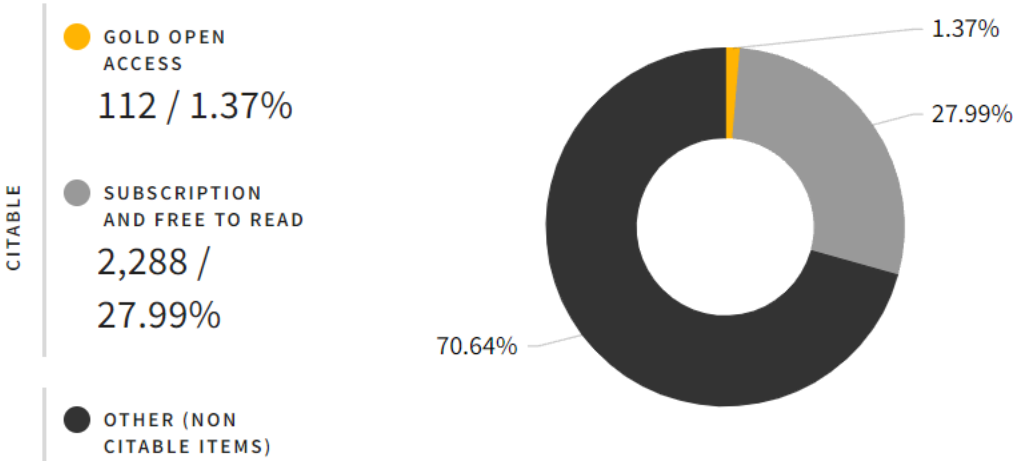
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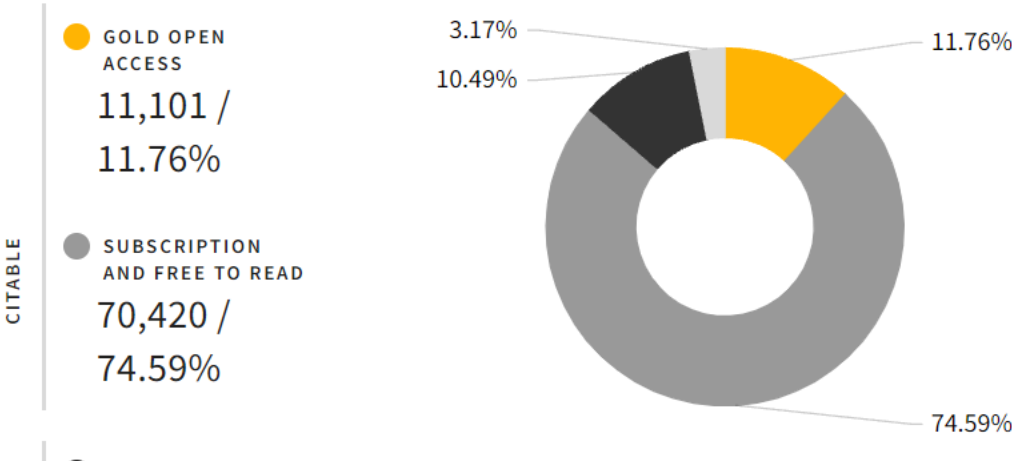
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| 3    | MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)         | 268   |  |
| 4    | CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS) | 251   |  |
| 5    | HOWARD HUGHES MEDICAL INSTITUTE                     | 247   |  |
| 6    | STANFORD UNIVERSITY                                 | 246   |  |
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| 4    | CHINA MAINLAND        | 569   |  |
| 5    | France                | 368   |  |
| 6    | Canada                | 351   |  |
| 7    | Australia             | 328   |  |
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Solutions to microplastic pollution - Removal of microplastics from wastewater effluent with advanced wastewater treatment technologies

作者: Talvitie, J (Talvitie, Julia)<sup>1</sup>; Mikola, A (Mikola, Anna)<sup>1</sup>; Koistinen, A (Koistinen, Arto)<sup>2</sup>; Setälä, O (Setälä, Outi)<sup>3</sup>

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WATER RESEARCH

卷: 123 页: 401-407

DOI: 10.1016/j.watres.2017.07.005

出版时间: OCT 15 2017

文献类型: Article

摘要

Conventional wastewater treatment with primary and secondary treatment processes efficiently remove microplastics (MPs) from the wastewater. Despite the efficient removal, final effluents can act as entrance route of MPs, given the large volumes constantly discharged into the aquatic environments. This study investigated the removal of MPs from effluent in four different municipal wastewater treatment plants utilizing different final-stage treatment technologies. The study included membrane bioreactor treating primary effluent and different tertiary treatment technologies (discfilter, rapid sand filtration and dissolved air flotation) treating secondary effluent. The MBR removed 99.9% of MPs during the treatment (from 6.9 to 0.005 MP L<sup>-1</sup>), rapid sand filter 97% (from 0.7 to 0.02 MP L<sup>-1</sup>), dissolved air flotation 95% (from 2.0 to 0.1 MP L<sup>-1</sup>) and discfilter 40-48.5% (from 0.5 - 2.0 to 0.03-0.3 MP L<sup>-1</sup>) of the MPs during the treatment. Our study shows that with advanced final-stage wastewater treatment

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J. Talvitie et al.  
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2017

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我的所有参考文献(2037)

[未归档] (1901)

临时列表(0)

回收站(67) 清空

▼ 我的组

1 (0)

Chiroptera (18)

Chiroptera (3)

Corvids (19)

Echolocation (0)

Echolocation (6)

EI-ENDNOTE (0)

H-index (0)

hi (0)

moral risk (9)

New Group (0)

我的所有参考文献

每页显示 10 个

◀ 当前页 1 /204 开始 ▶▶

☐ 全部 ☐ 当前页 添加到组...

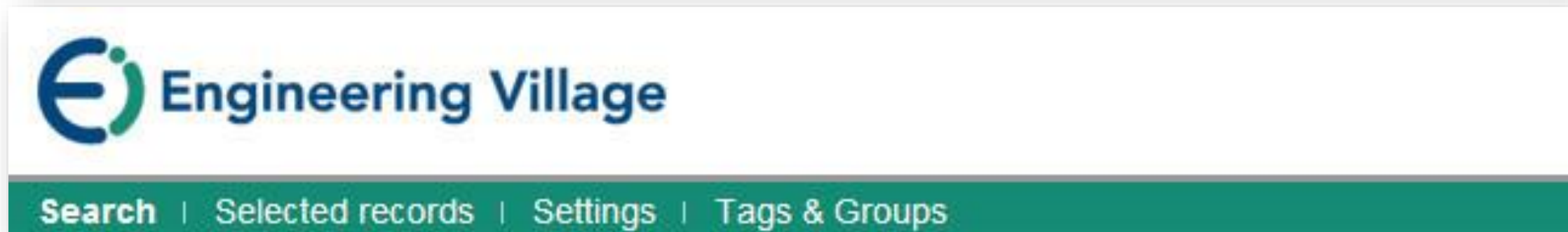
复制到临时列表 删除

排序方式: 第一作者 (升序)

| 作者                       | 出版年  | 标题                                                                                                                                                    |
|--------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> |      | <自引研究综述_科学评价与科学交流中的质疑_求证与创新_温芳芳.pdf><br>添加到文献库: 24 Dec 2019 上次更新日期: 24 Dec 2019<br>SFX Demo OpenURL Link                                              |
| <input type="checkbox"/> | 2019 | 2019 Subject Index<br>J Occup Environ Hyg<br>添加到文献库: 20 Mar 2020 上次更新日期: 20 Mar 2020<br>在线链接 转到 URL<br>SFX Demo OpenURL Link                          |
| <input type="checkbox"/> | 2019 | ACNP 58th Annual Meeting: Keyword Index<br>Neuropsychopharmacology<br>添加到文献库: 20 Mar 2020 上次更新日期: 20 Mar 2020<br>在线链接 转到 URL<br>SFX Demo OpenURL Link |
| <input type="checkbox"/> | 2019 | Poster Sessions: Keyword Index<br>J Dent Educ<br>添加到文献库: 20 Mar 2020 上次更新日期: 20 Mar 2020<br>在线链接 转到 URL<br>SFX Demo OpenURL Link                      |
| <input type="checkbox"/> | 2019 | Reviewer Index<br>J Rheumatol<br>添加到文献库: 20 Mar 2020 上次更新日期: 20 Mar 2020                                                                              |

有效地组织管理自己的参考文献

# EndNote online——第三方资源的导入



# EndNote online——第三方资源的导入

## Step1: 选择“收集”

我的参考文献 **收集** 组织 格式化 匹配 选项 下载项

在线检索 新建参考文献 **导入参考文献**

### 导入参考文献

从 EndNote 导入?

文件: **选择文件** 未选择任何文件

导入选项: EndNote Import ▼ 选择收藏夹

保存位置: - New Group ▼

**导入**

## Step2: 选择“导入参考文献”

## Step3: 选择已经下载的“TXT文件”

## Step4: 选择“EndNote Import”

## Step5: 选择已有分组或新建分组

# 如何在写作中自动插入参考文献？

# EndNote online——实现word与Endnote online之间的对接

我的参考文献 收集 组织 格式化 匹配 选项 下载项

书目 Cite While You Write™ 插件 格式化论文 导出参考文献

## Cite While You Write™ 插件

## 边写作边引用

了解为什么 EndNote 是书目格式领域的行业领导者。

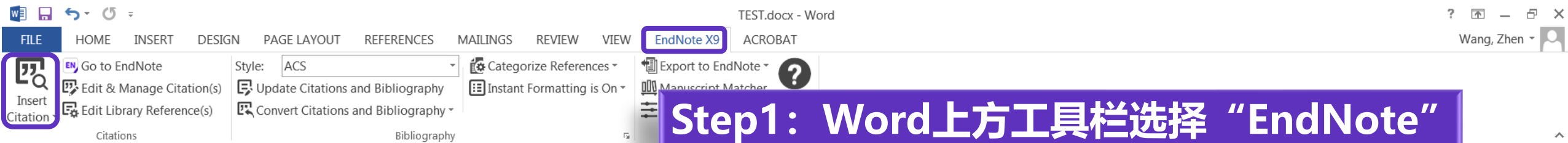
下载获得专利的 \* Cite While You Write 工具，以便在 Word 中撰写论文时自动插入参考文献以及格式化引文和书目。

参阅[安装说明](#)和[系统要求](#)。

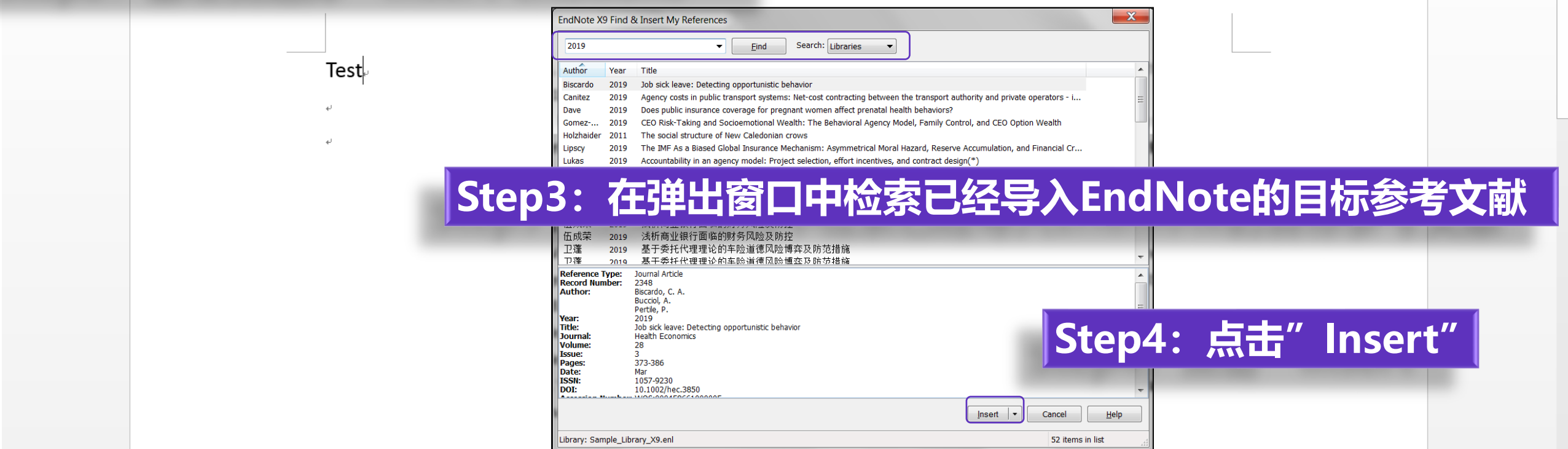
- [下载 Windows 版](#)，含 Internet Explorer 插件
- [下载 Macintosh 版](#)

\*专利技术。澳洲专利号 2014318392；美国专利号 10002116、9588955、9218344、9177013、8676780、8566304、8201085、8082241、6233581；中国专利号：201380034689.3；日本专利号：5992404。

# EndNote online——如何插入参考文献？



## Step2: 最左侧选择“Insert Citations”



# EndNote online——如何插入参考文献?

TEST.docx - Word

Wang, Zhen

FILE HOME INSERT DESIGN PAGE LAYOUT REFERENCES MAILINGS REVIEW VIEW EndNote X9 ACROBAT

Insert Citation

Go to EndNote

Edit & Manage Citation(s)

Edit Library Reference(s)

Style: ACS

Update Citations and Bibliography

Convert Citations and Bibliography

Categorize References

Instant Formatting is On

Export to EndNote

Manuscript Matcher

Preferences

Help

Citations

Bibliography

Tools

Test<sup>1-6</sup>

1. Biscardo, C. A.; Bucciol, A.; Pertile, P., Job sick leave: Detecting opportunistic behavior. *Health Economics* **2019**, 28 (3), 373-386.
2. Canitez, F.; Alpkokin, P.; Black, J. A., Agency costs in public transport systems: Net-cost contracting between the transport authority and private operators - impact on passengers. *Cities* **2019**, 86, 154-166.
3. Dave, D. M.; Kaestner, R.; Wehby, G. L., Does public insurance coverage for pregnant women affect prenatal health behaviors? *Journal of Population Economics* **2019**, 32 (2), 419-453.
4. Gomez-Mejia, L. R.; Neacsu, I.; Martin, G., CEO Risk-Taking and Socioemotional Wealth: The Behavioral Agency Model, Family Control, and CEO Option Wealth. *Journal of Management* **2019**, 45 (4), 1713-1738.
5. Holzhaider, J. C.; Sibley, M. D.; Taylor, A. H.; Singh, P. J.; Gray, R. D.; Hunt, G. R., The social structure of New Caledonian crows. *Anim. Behav.* **2011**, 81 (1), 83-92.
6. Lipsy, P. Y.; Lee, H. N. K., The IMF As a Biased Global Insurance Mechanism: Asymmetrical Moral

# EndNote online——如何统一做格式化处理？



在“Style” 中选择目标期刊参考文献格式

修改前

Test<sup>1-6</sup>

1. Biscardo, C. A.; Bucciol, A.; Pe...  
*Economics* **2019**, 28 (3), 373-386.
2. Canitez, F.; Alpkokin, P.; Bla...  
contracting between the transport au...  
86, 154-166.
3. Dave, D. M.; Kaestner, R.; Wel...  
affect prenatal health behaviors? *Jour*
4. Gomez-Mejia, L. R.; Neacsu, I...  
Behavioral Agency Model, Family Cor...  
(4), 1713-1738.
5. Holzhaider, J. C.; Sibley, M. D.;...  
structure of New Caledonian crows. *A*
6. Lipsy, P. Y.; Lee, H. N. K., The IV...  
Hazard, Reserve Accumulation, and Fi

TEST.docx - Word

Wang, Zhen

Style: Intl J Public Health

Test(Biscardo et al. 2019; Canitez et al. 2019; Dave et al. 2019; Gomez-Mejia et al. 2019; Holzhaider et al. 2011; Lipsy and Lee 2019)

Biscardo CA, Bucciol A, Pertile P (2019) Job sick leave: Detecting opportunistic behavior *Health Economics* 28:373-386 doi:10.1002/hec.3850.

Canitez F, Alpkokin P, Black JA (2019) Agency costs in public transport systems: Net-cost contracting between the transport authority and private operators - impact on passengers *Cities* 86:154-166 doi:10.1016/j.cities.2018.09.010.

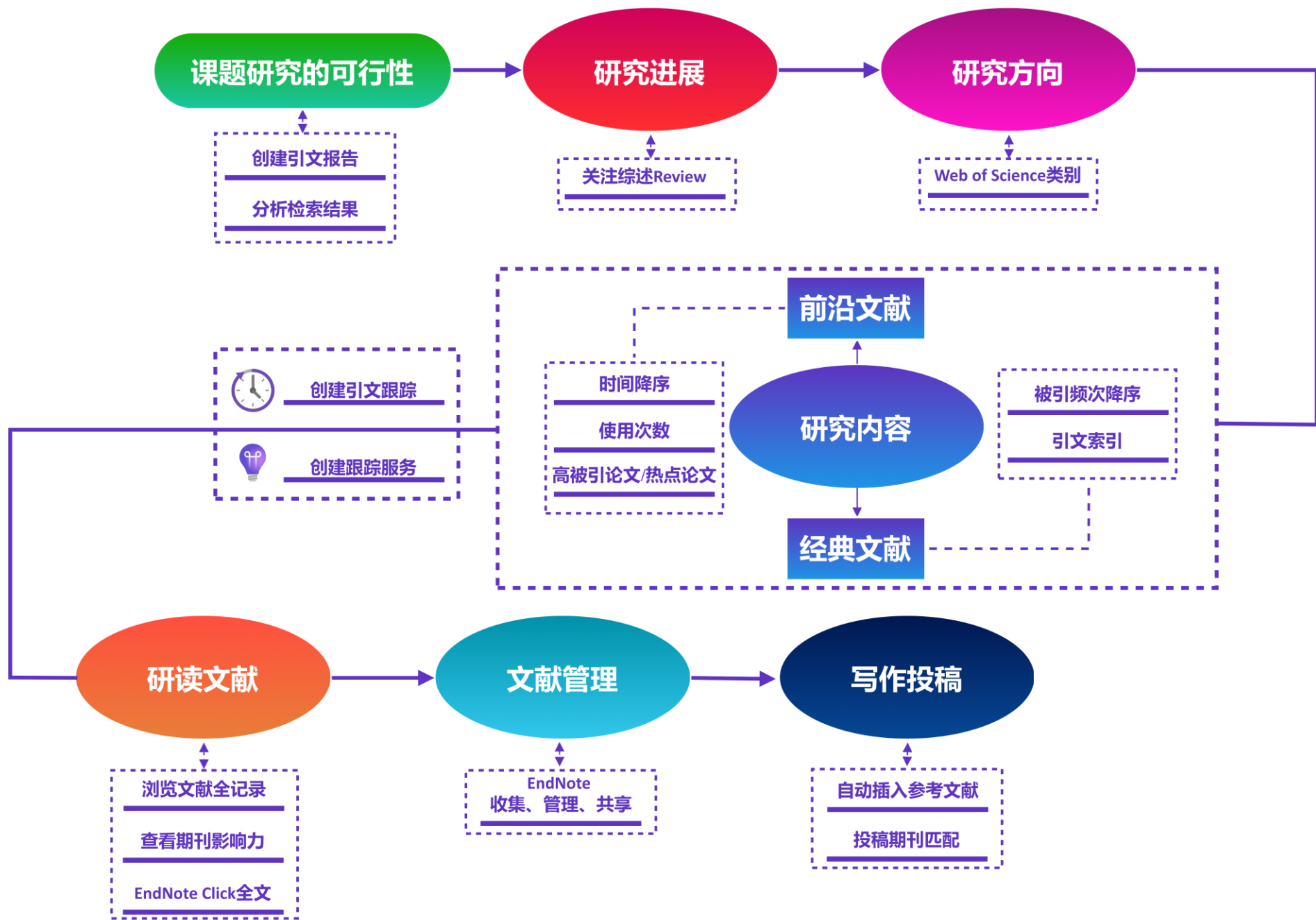
Dave DM, Kaestner R, Wehby GL (2019) Does public insurance coverage for pregnant women affect prenatal health behaviors? *Journal of Population Economics* 32:419-453 doi:10.1007/s00148-018-0714-z.

Gomez-Mejia LR, Neacsu I, Martin G (2019) CEO Risk-Taking and Socioemotional Wealth: The Behavioral Agency Model, Family Control, and CEO Option Wealth *Journal of Management* 45:1713-1738 doi:10.1177/0149206317723711.

Holzhaider JC, Sibley MD, Taylor AH, Singh PJ, Gray RD, Hunt GR (2011) The social structure of New Caledonian crows *Anim Behav* 81:83-92 doi:10.1016/j.anbehav.2010.09.015.

Lipsy PY, Lee HNK (2019) The IMF As a Biased Global Insurance Mechanism: Asymmetrical Moral Hazard,

修改后





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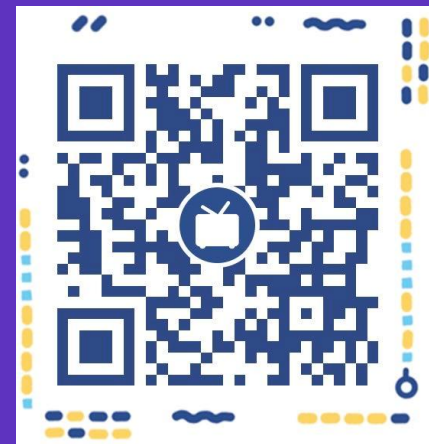
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