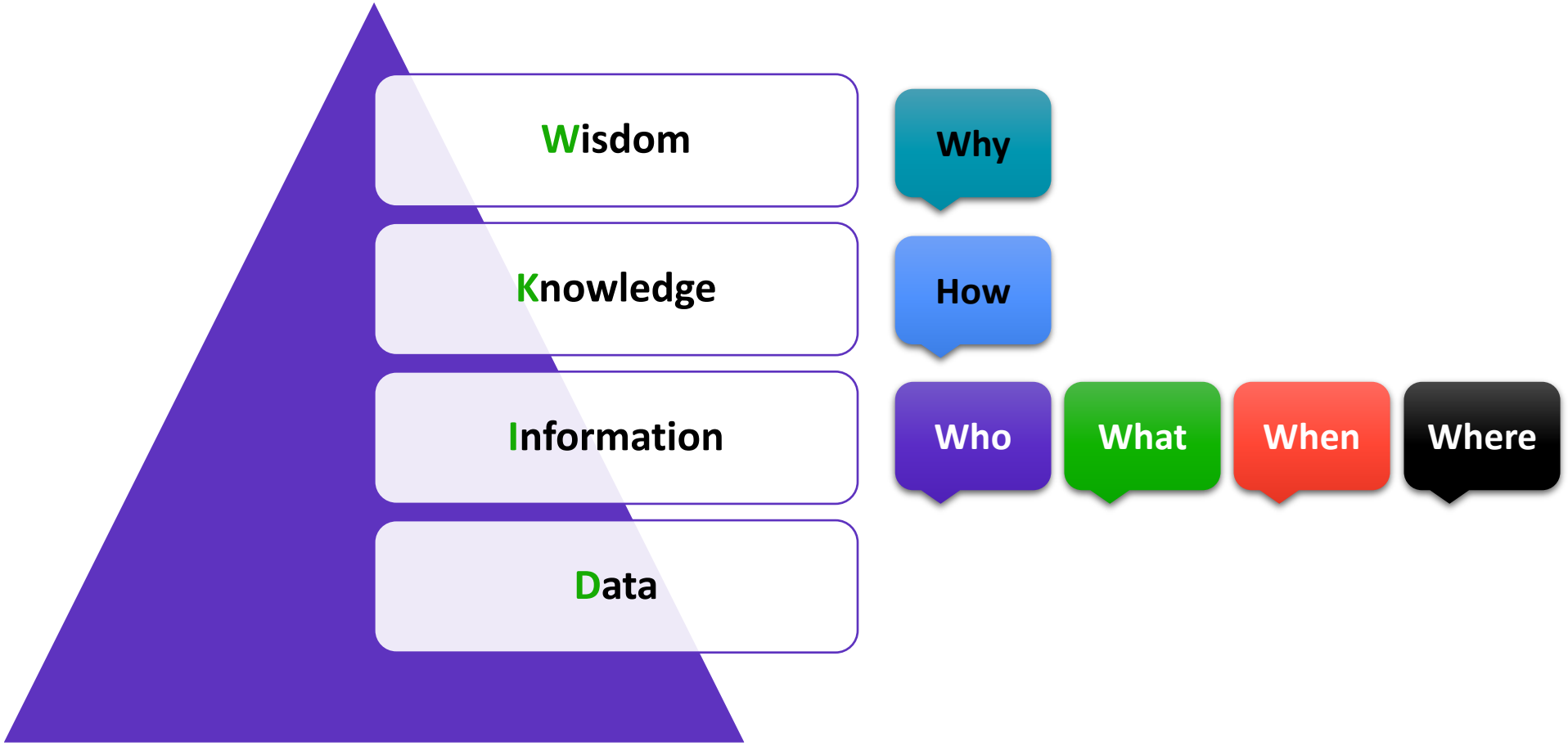
Web of Science检索技巧及应用

王振
解决方案专家
科睿唯安 学术研究事业部

面对海量文献，如何充分挖掘文献价值，以使其更好地服务于科学研究?

From Data to Wisdom

罗素·艾克夫



[1] Ackhoff, R. (1989). From Data to Wisdom. Journal of Applied Systems Analysis. 16. 3-9.

内容提要

1. Web of Science 能为我们做什么
2. 如何借助Web of Science获取更多科研信息
3. 如何更好地展示学术成果
4. 让高效成为科研常态

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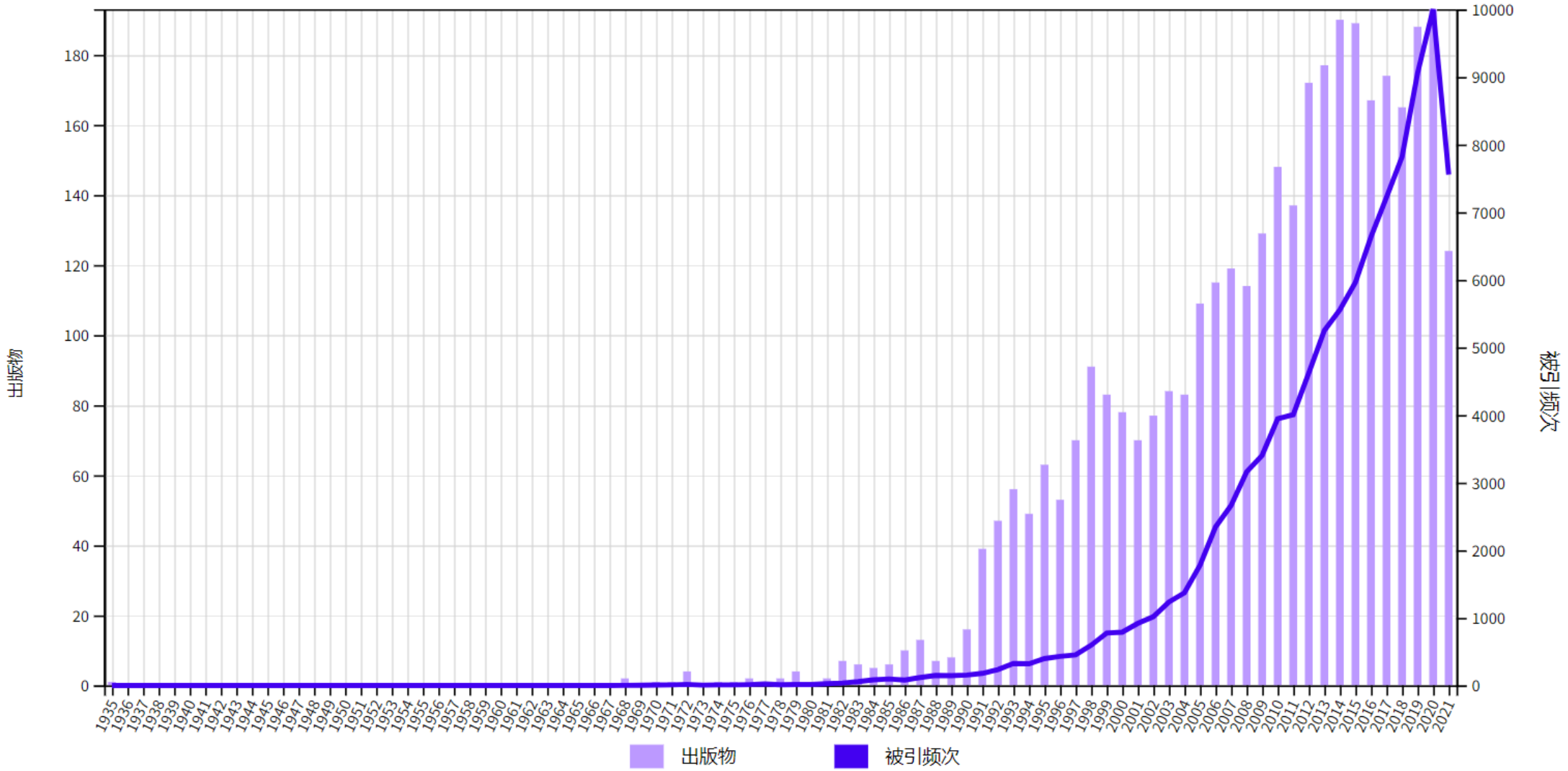
1 Web of Science 能为我们做什么

了解课题的发展趋势和发展阶段



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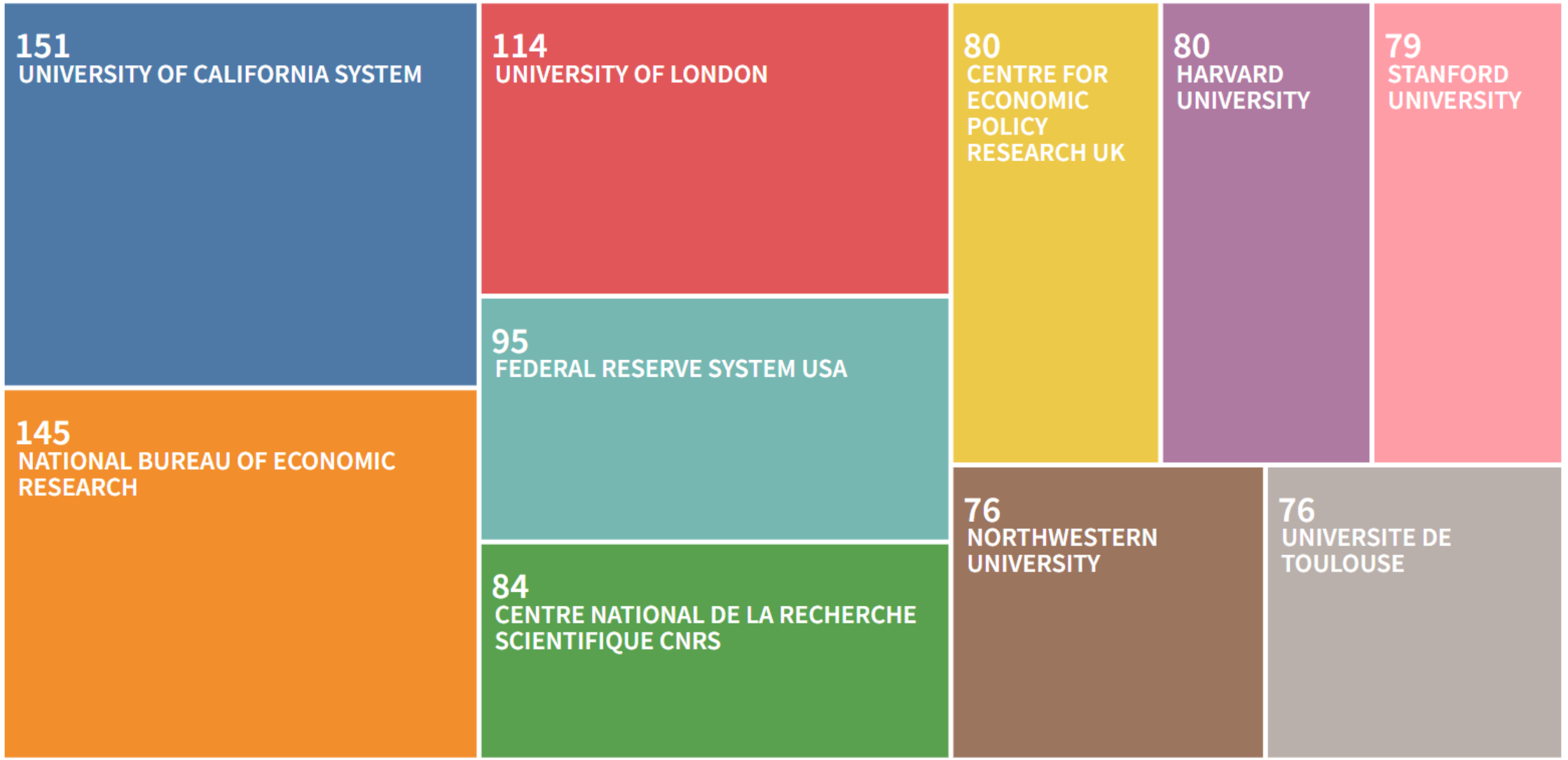
了解课题的全球同行



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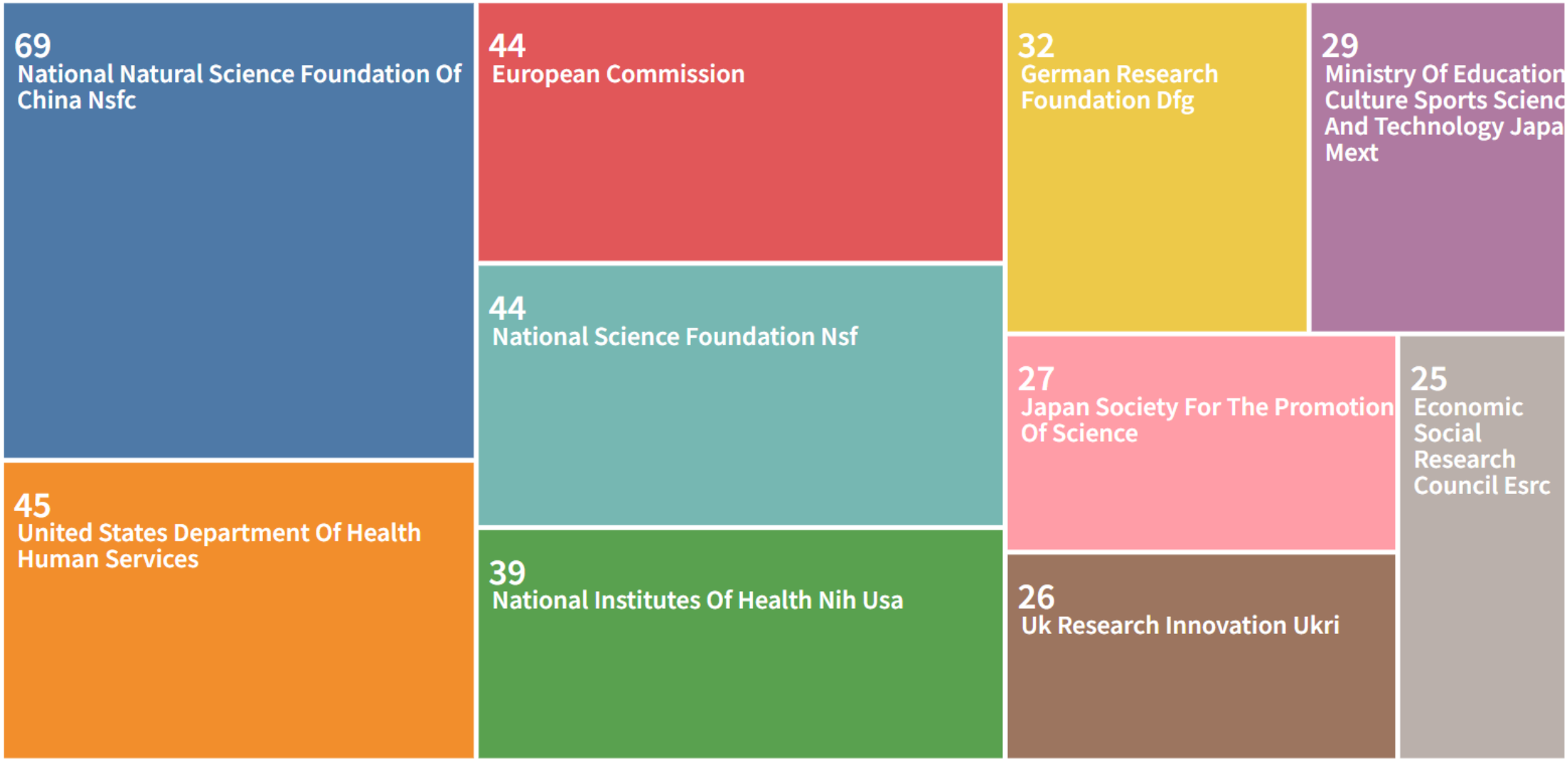
了解课题的全球科研资源配置动向（基金来源）



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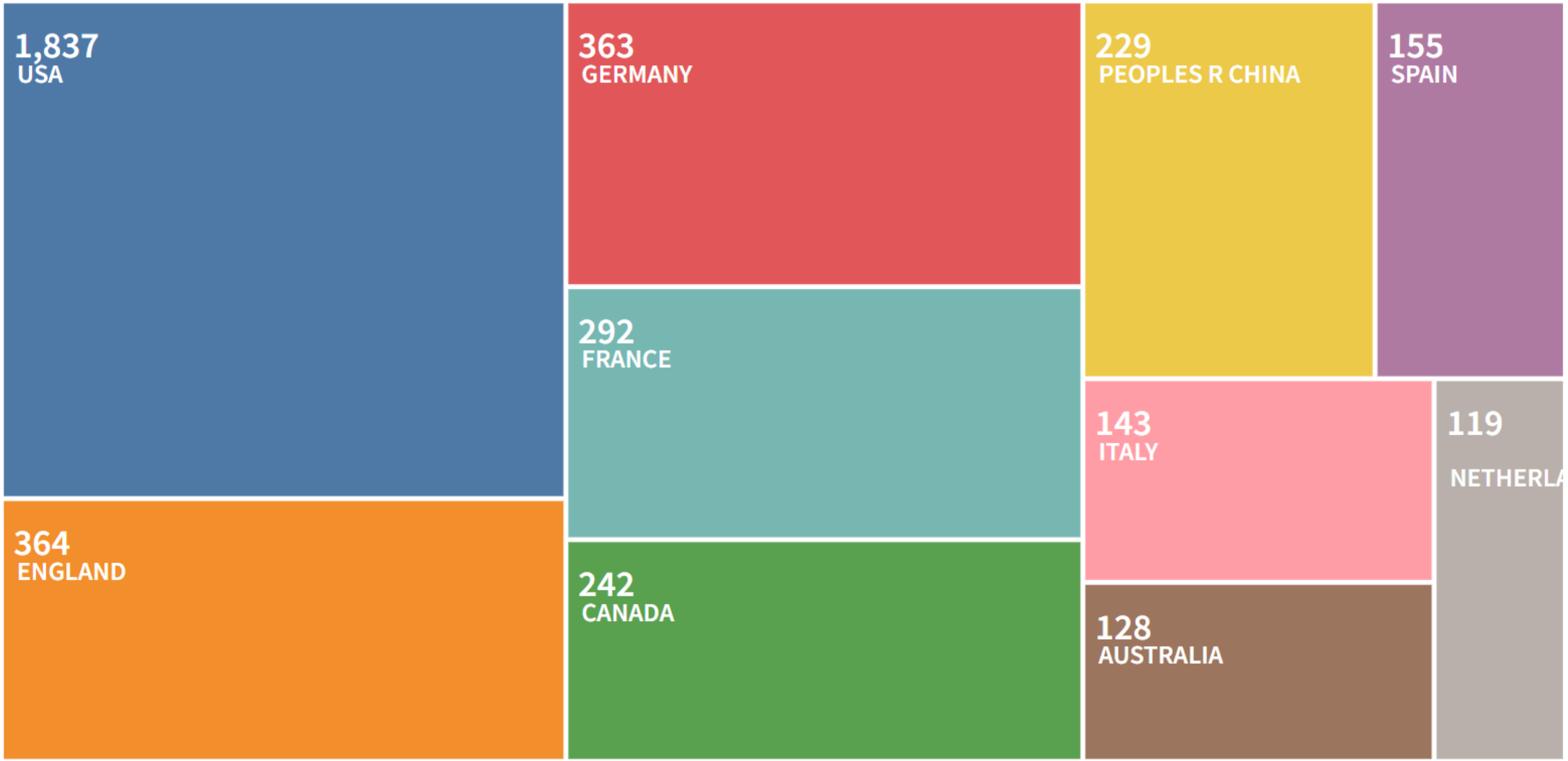
探索国际国内合作研究



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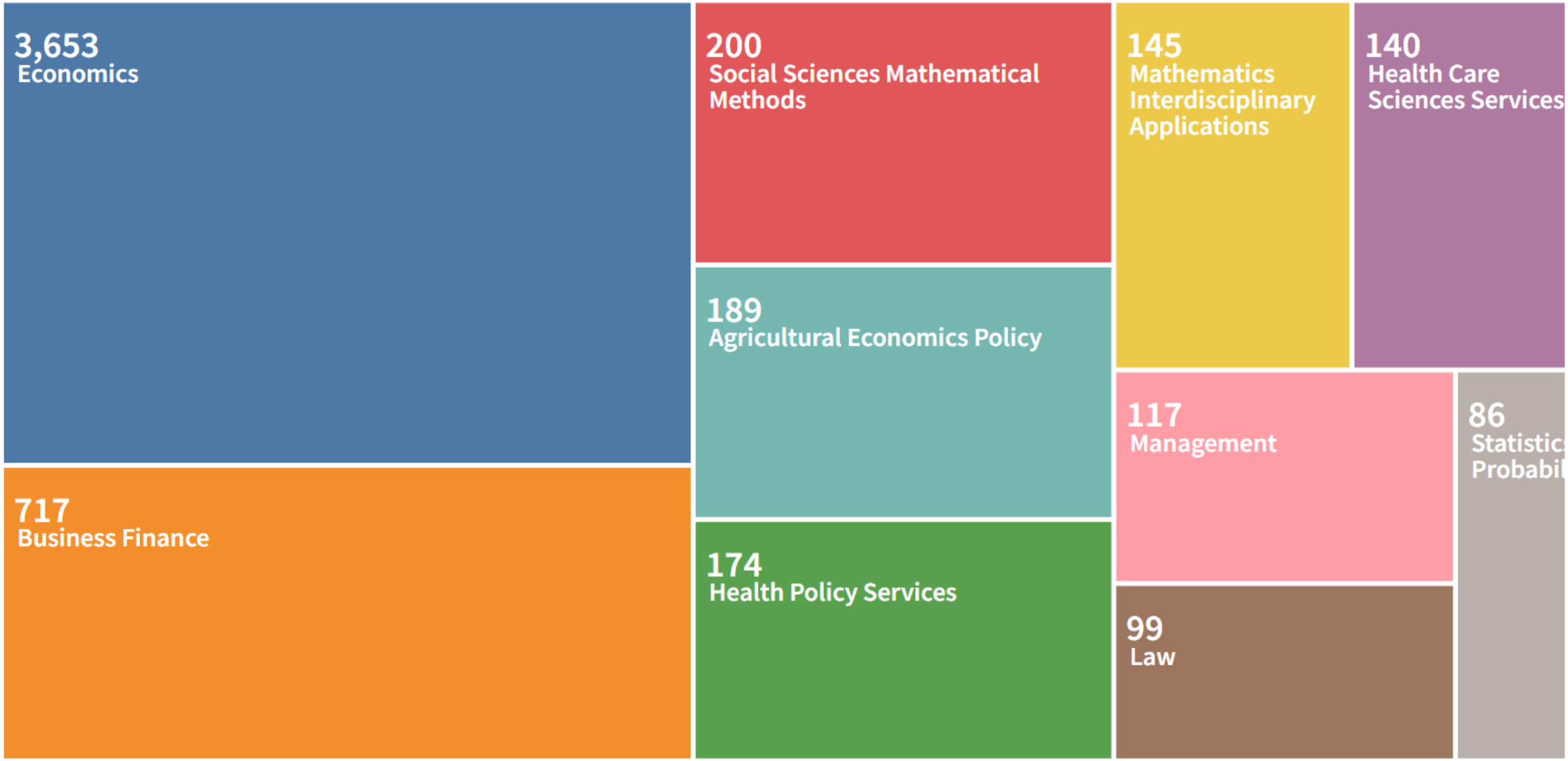
探索交叉学科领域研究



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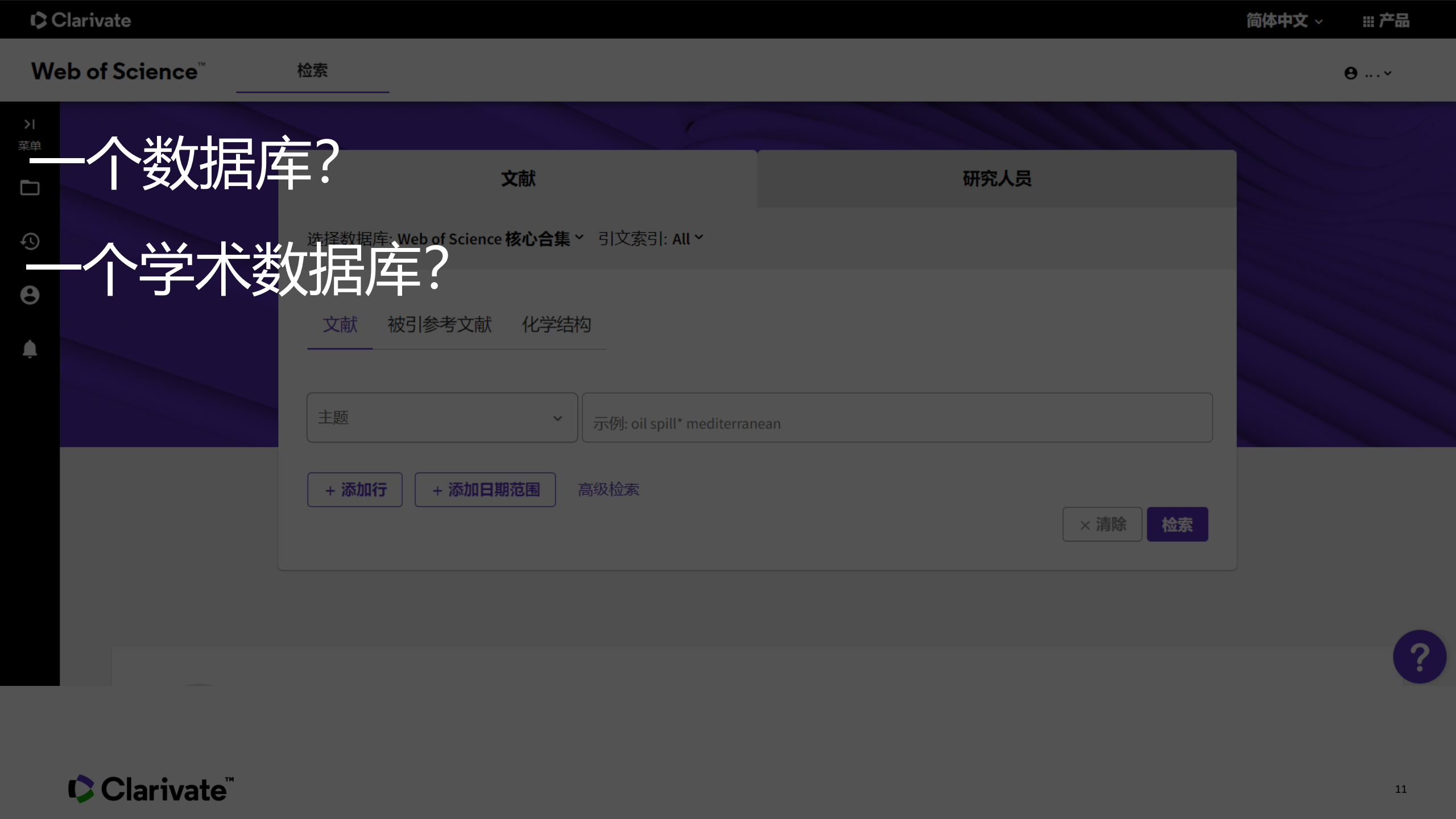

一个数据库?

一个学术数据库?

Web of Science -全球最大规模的出版商中立引文索引和研究情报平台

34,000+
全平台期刊

107,000,000+
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21,000+
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14,000,000+
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2,248,000,000+
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1864
最早回溯年

193,000,000+
文献记录

300,000+
会议

19,000,000+
附加基金数据的记录

134,000+
图书

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数据更新时间：2022年7月

Science Citation Index Expanded™ (SCIE，科学引文索引)

Web of Science product collection

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

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数据更新时间：2022年7月

Social Sciences Citation Index™ (SSCI，社会科学引文索引)

Web of Science product collection

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

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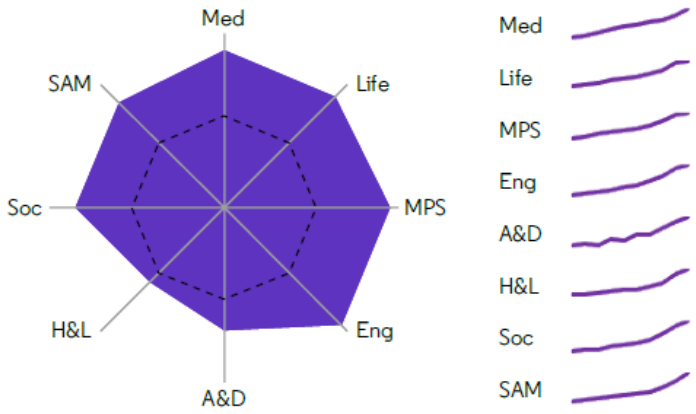
数据更新时间：2022年7月

Chinese Science Citation Database（CSCD）

快速追踪中国学者的创新性成果

Output by discipline



- **Med** = medicine
- **Life** = life sciences
- **MPS** = maths and physical sciences
- **Eng** = engineering and technology
- **A&D** = art and design
- **H&L** = humanities and languages
- **Soc** = social sciences
- **SAM** = subjects allied to medicine

“中国研究继续呈现多样化态势，各个领域研究成果都在增长，除了快速发展的自然科学领域外，还不断扩大对社会科学的关注。 国内研究成果数量在世界出版物中的份额越来越大，影响力也在快速上升。”

ISI’s Annual G20 Scorecard-Research Performance 2021

The purple shape shows the Research Footprint for the country as its rank among the G20 countries on this indicator

The dotted line shows the median value for the G20.

- 与中国科学院建立战略合作伙伴关系
- 多学科覆盖
- 超过 1,200 种期刊被选中并编入索引
- 回溯到 1989 年

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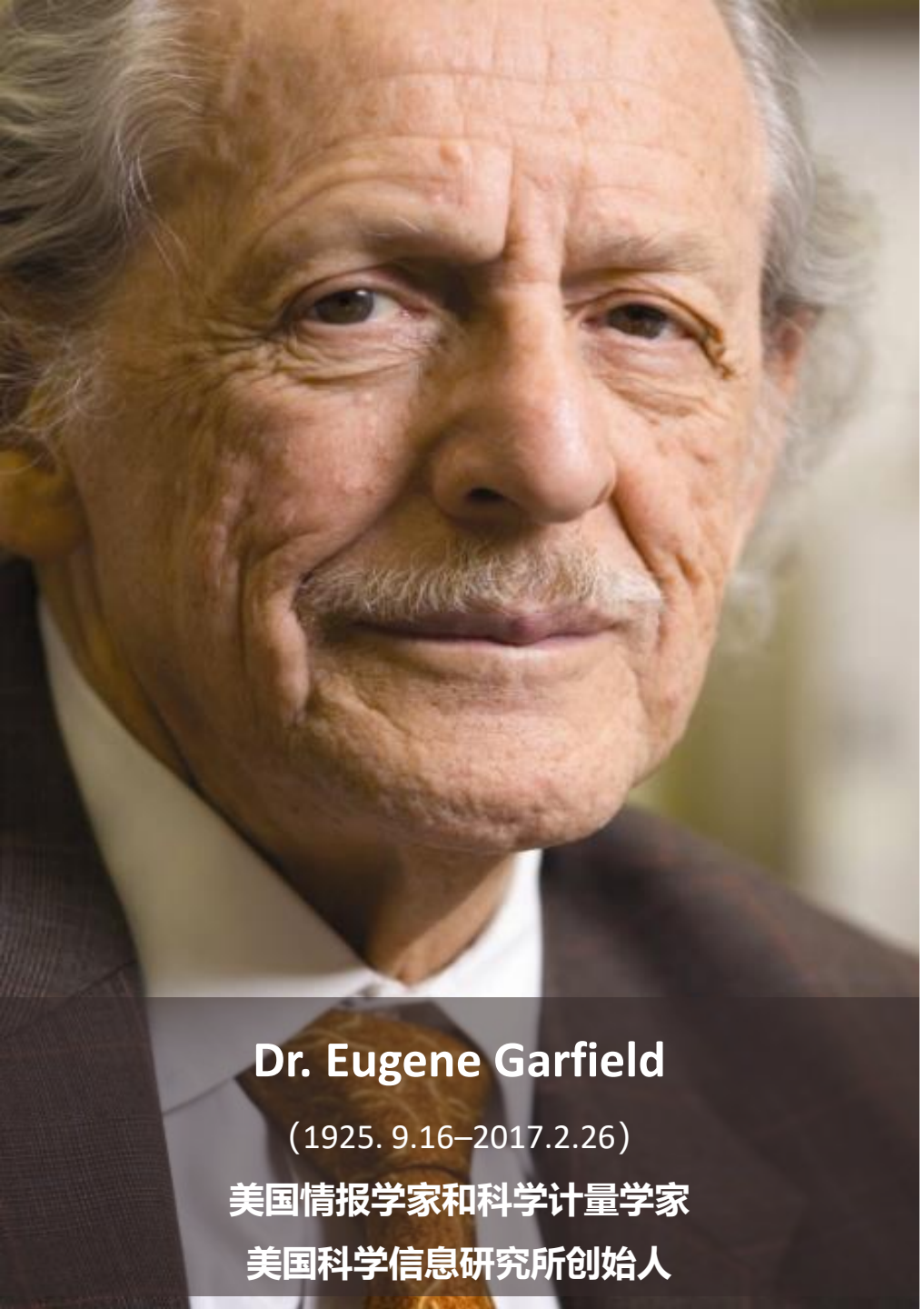
2 如何借助Web of Science获取更多科研信息


如何尽可能扩大信息的获取范围



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.

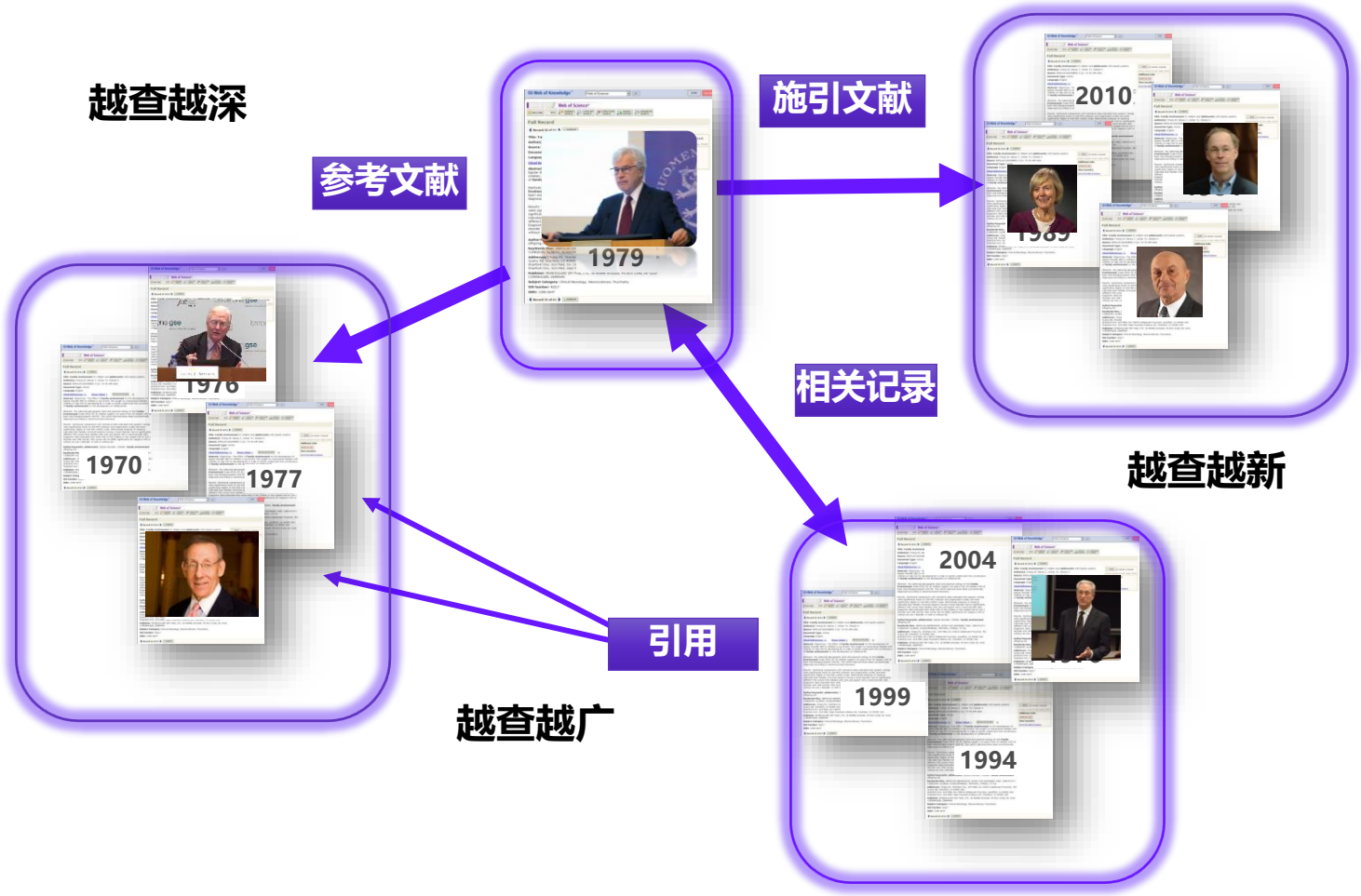
If one considers the book as the macro unit of thought and the periodical article

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。

引文索引 OR 关键字检索



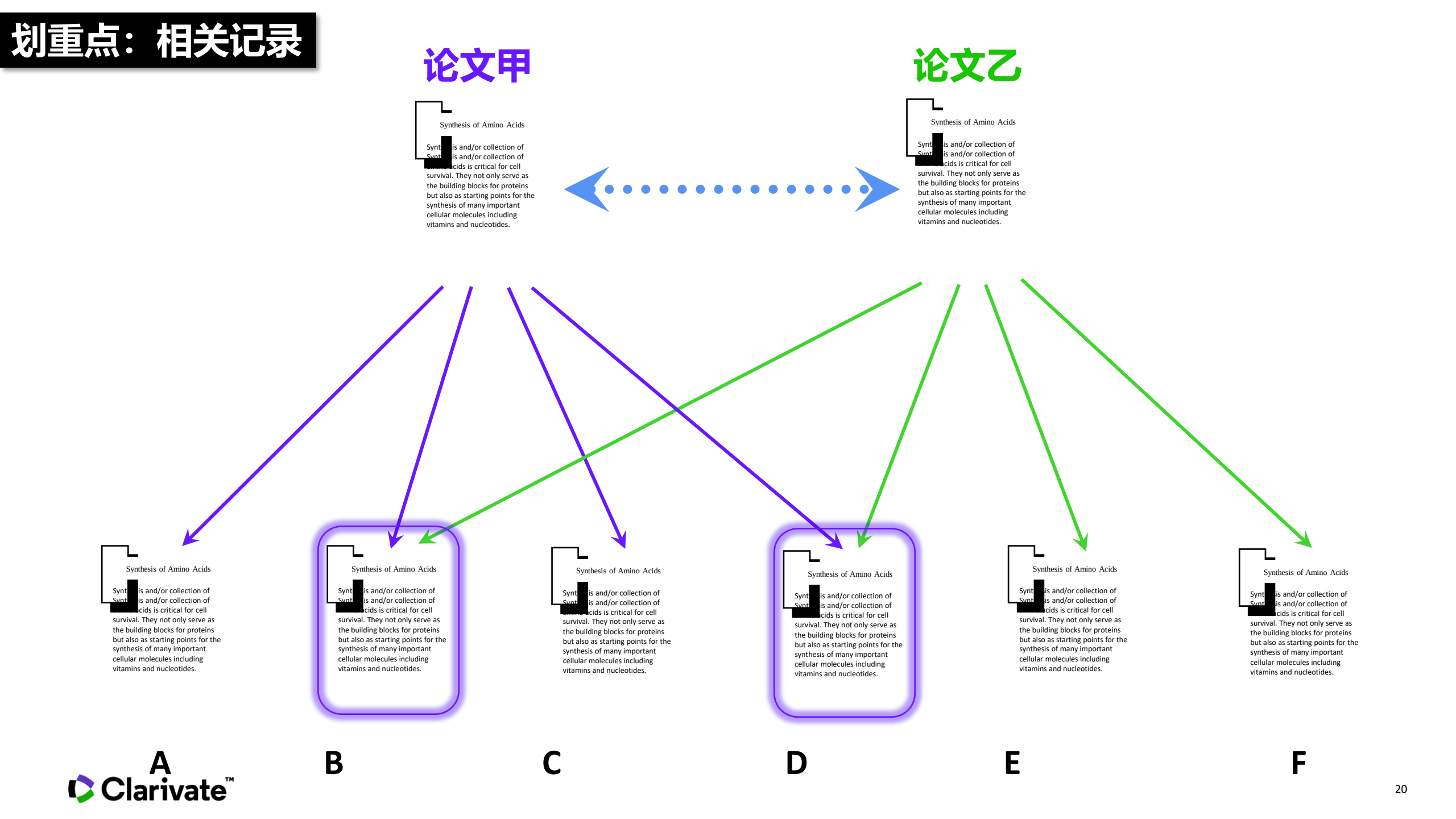
关键词的不断演变，造成漏检，

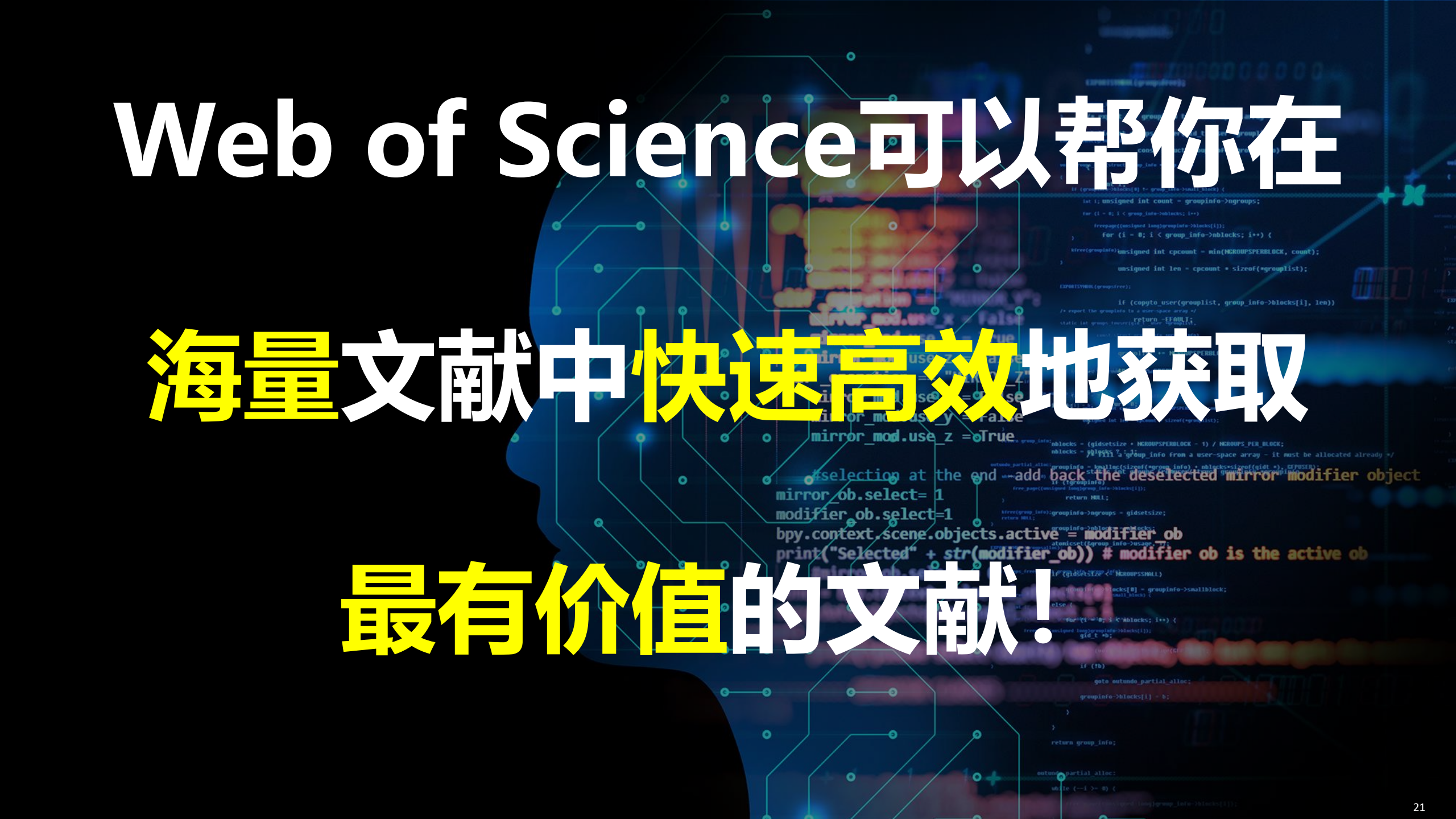
错过高影响力的重要文献

从一篇高质量的文献出发，沿着

科学研究的发展道路前行

划重点：相关记录


论文甲
论文乙
Synthesis of Amino Acids
Synthesis and/or collection of Synthesis and/or collection of cids is critical for cell survival. They not only serve as the building blocks for proteins but also as starting points for the synthesis of many important cellular molecules including vitamins and nucleotides.
A
B
C
D
E
F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海量文献中快速高效地获取
最有价值的文献！

研究前沿报告

2022年12月27日，科睿唯安与中国科学院向全球联合发布了《2022研究前沿》报告，这是双方连续第九年携手发布《研究前沿》系列报告。

《2022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 55个新兴前沿。

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2022年研究前沿报告发布现场（扫码下载研究前沿报告）

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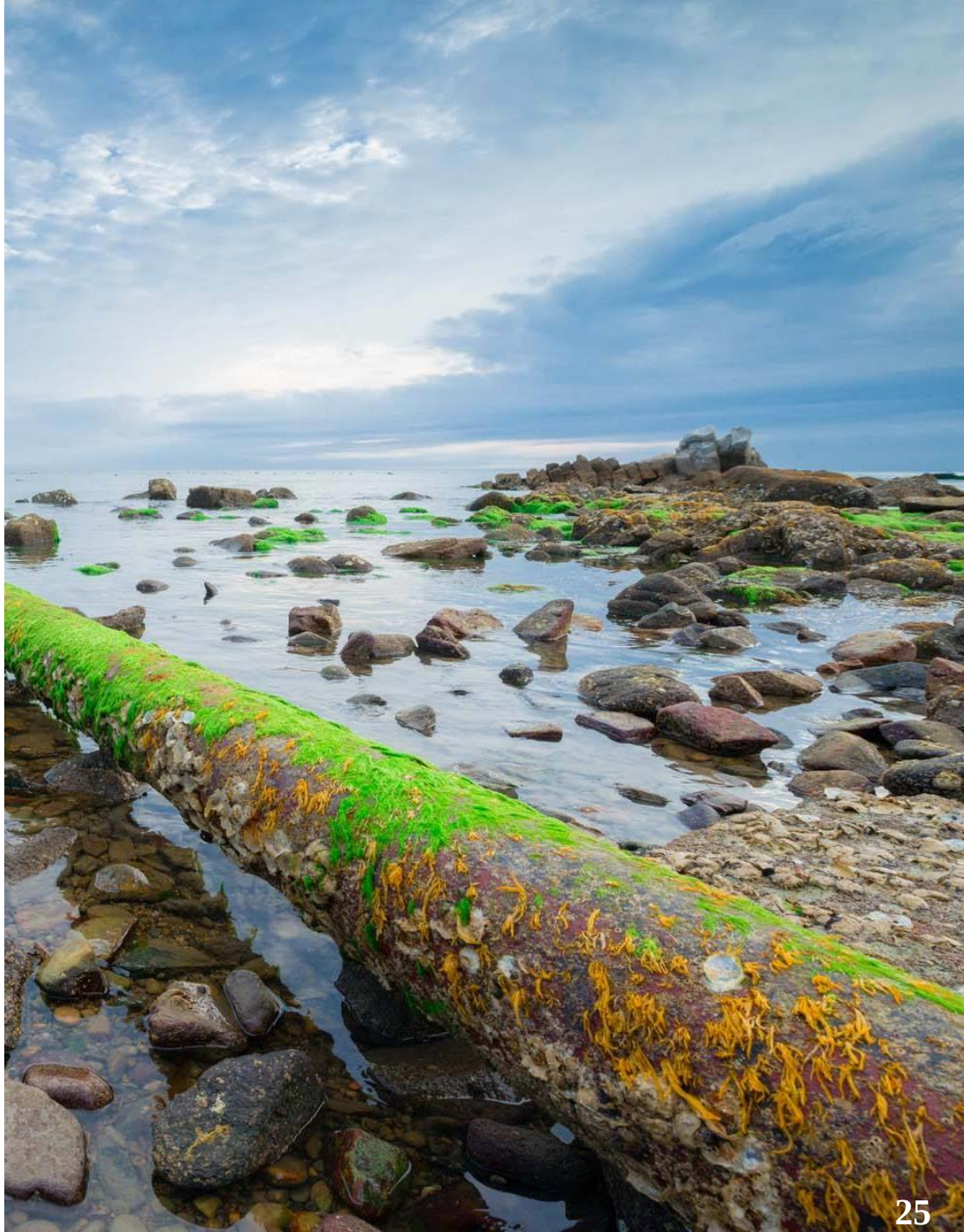
23

案例：探索进行自然水体污染防治相关研究的可行性

什么是自然水体污染防治?



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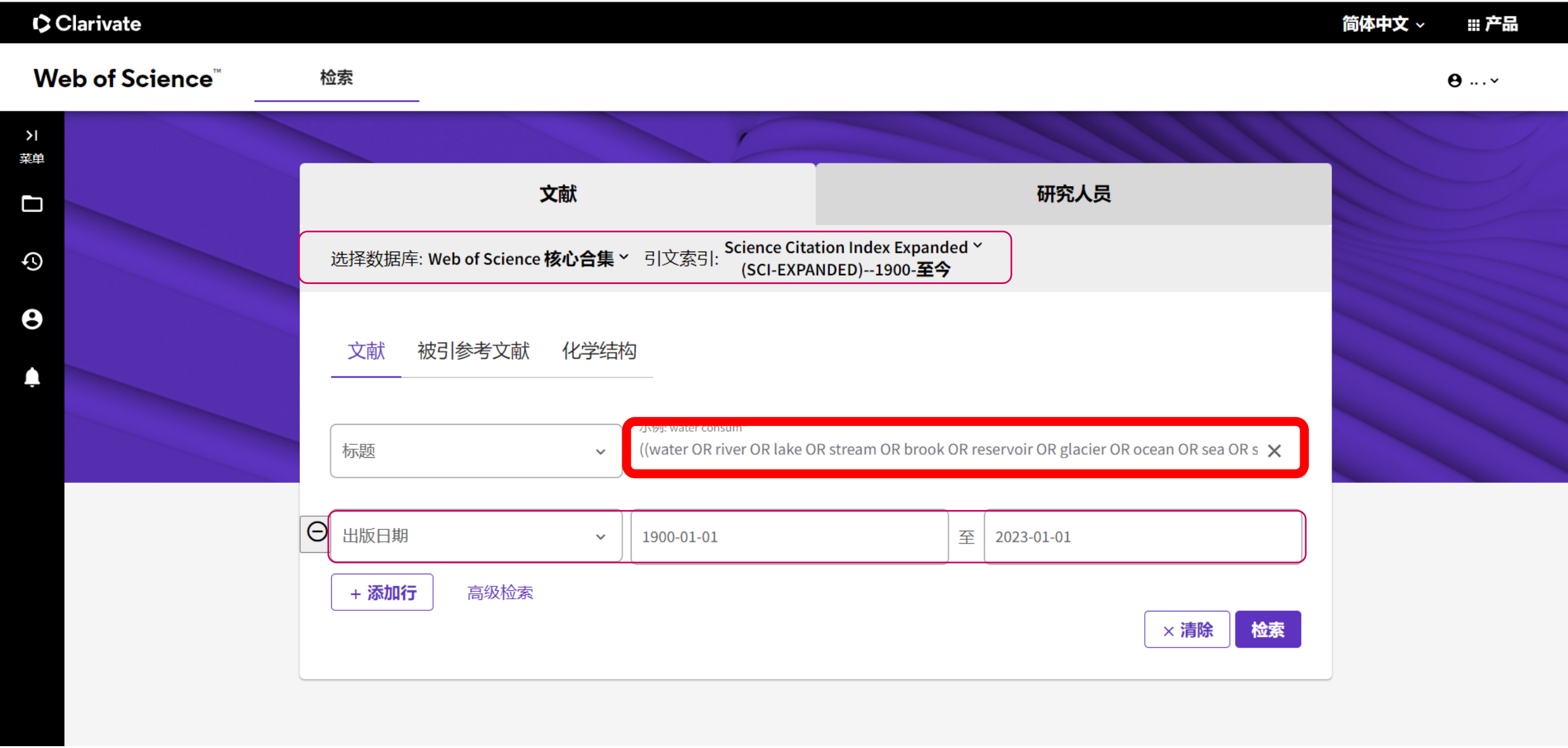
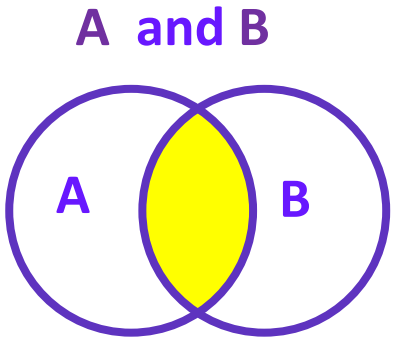
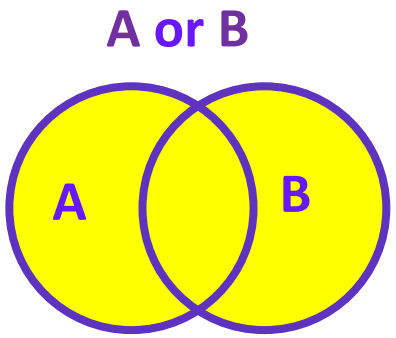
这个领域值得研究吗?

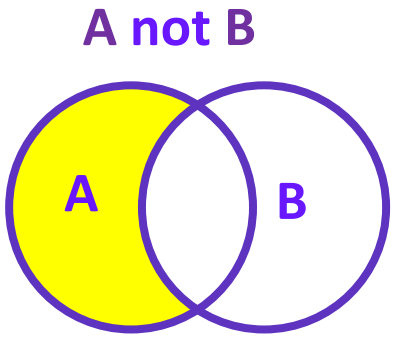
确定检索式初步搜集文献



划重点：巧用运算符







运算符（英文）	检索结果	检索式	作用
" "	moral risk	"moral risk"	精确检索短语
*	gene, genetics, generation等	gene*	代表≥0个字符
?	women,woman等	wom?n	代表1个字符
$	color,colour等	colo$r	代表0或1个字符

一体化总览研究成果——创建引文报告

Clarivate 简体中文 产品

Web of Science™ 检索

检索结果：8419

检索 > ((water OR river OR lake OR… > ((water OR r … cier OR oc…

8,419 条来自 Science Citation Index Expanded (SCI-Expanded)的结果:

创建引文报告

((water OR river OR lake OR stream OR brook OR reservoir OR glacier OR ocean OR sea OR sludge OR mud OR muck OR Sewage OR wastew…

分析检索结果 | 引文报告 | 创建跟踪服务

复制检索式链接

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在结果中检索...

按标记结果列表过滤

快速过滤

- 高被引论文 121
- 热点论文 6
- 综述论文 809
- 在线发表 90

0/8,419 添加到标记结果列表 导出

排序方式: 被引频次: 最高优先 1 / 169

1 Science and technology for water purification in the coming decades

Shannon, MA; Bohn, PW; (...); Mayes, AM

Mar 20 2008 | NATURE 452 (7185) , pp.301-310

One of the most pervasive problems afflicting people throughout the world is inadequate access to clean water and sanitation. Problems with water are expected to grow worse in the coming decades, with water scarcity occurring globally, even in regions currently considered water- rich. Addressing these problems calls out for a tremendous amount of research to be conducted to identify robust new … 显示更多

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5,790 被引频次

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菜单

检索 > ((water OR river OR lake OR... > ((water OR river OR lake OR... > 引文报告: ((water OR river OR lake OR stream OR brook OR reservoir OR gla...

引文报告

((water OR river OR lake OR stream OR brook OR reservoir OR glacier OR ocean OR sea OR sludge OR mud OR muck OR Sewage OR wastewater OR effluent... 分析检索结果 创建跟踪服务

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合计

来自 1900 至 2022

施引文献

159,402 分析
合计

156,803 分析
去除自引

被引频次

207,595
合计

201,668
去除自引

24.66
篇均被引频次

篇均被引频次：24.66

166
h-index

按年份的被引频次和出版物分布

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800

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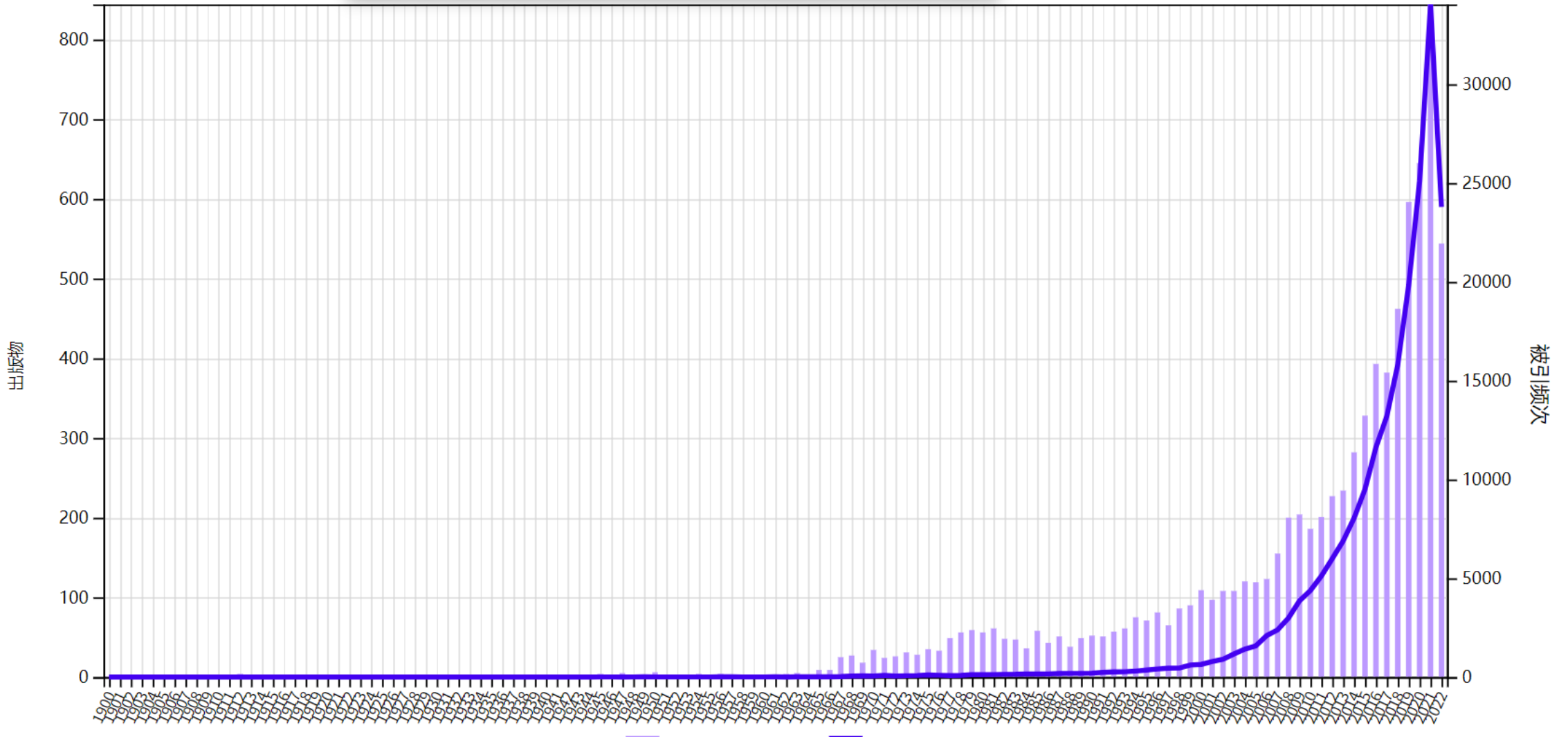

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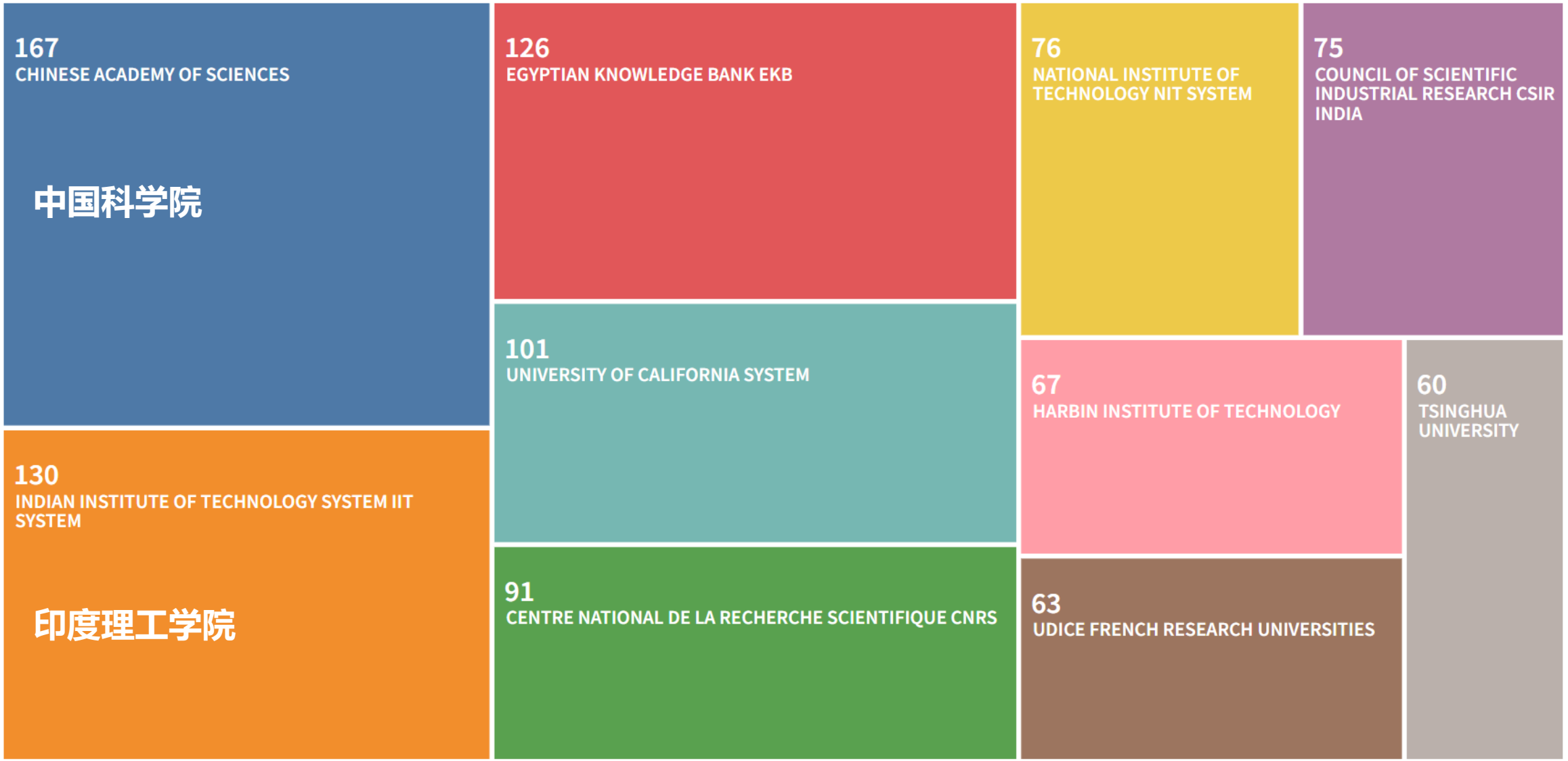

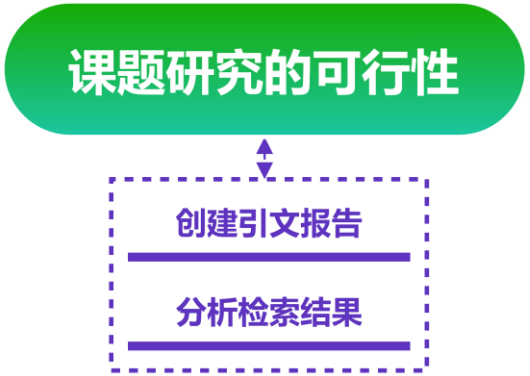
课题研究的可行性
创建引文报告
分析检索结果

初步结论：

自然水体污染防治相关研究

靠谱！

那么问题来了

自然水体污染防治相关领域

已经做了哪些研究，进展如何？


mirror_mod.use_y = False
mirror_mod.use_z = True
#selection at the end -add back the deselected mirror modifier object
mirror_ob.select= 1
modifier_ob.select=1
bpy.context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob)) # modifier ob is the active ob

看综述（REVIEW）！

探索领域研究进展——查看综述（REVIEW）

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检索 > ((water OR river OR lake OR... > ((water OR river OR lake OR stream OR brook OR reservoir OR glacier OR oc...

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8,419 条来自 Science Citation Index Expanded (SCI-Expanded)的结果:

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综述论文

0/8,419 添加到标记结果列表 导出

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检索 > ((water OR river OR lake OR... > ((water OR river OR lake OR. ok OR reservoir OR glacier OR oc...

809 条来自 Science Citation Index Expanded (SCI-Expanded)的结果:

((water OR river OR lake OR stream OR brook OR reservoir OR glacier OR ocean OR sea OR sludge OR mud OR muck OR Sewage OR wastew...

分析检索结果 引文报告 创建跟踪服务

精炼依据: 文献类型: 综述论文 ✕ 全部清除

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Shannon, MA; Bohn, PW; (...); Mayes, AM

Mar 20 2008 | NATURE 452 (7185) , pp.301-310

One of the most pervasive problems afflicting people throughout the world is inadequate access to clean water and sanitation. Problems with water are expected to grow worse in the coming decades, with water scarcity occurring globally, even in regions currently considered water- rich. Addressing these problems calls out for a tremendous amount of research to be conducted to identify robust new ... 显示更多

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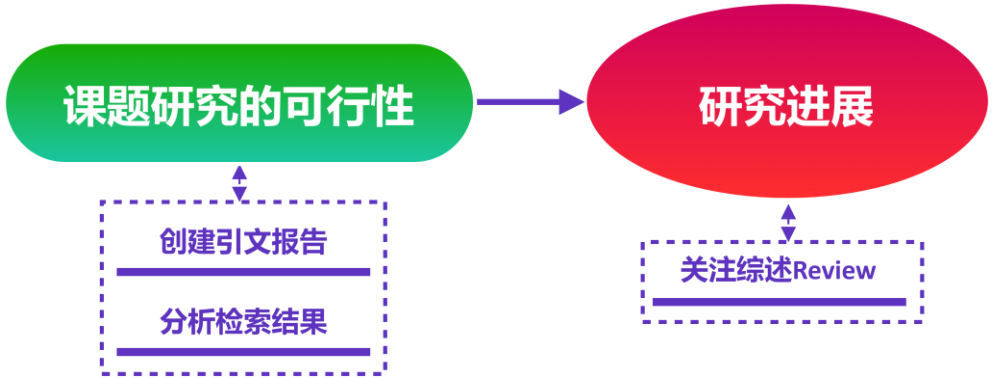
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Gogate, PR and Pandit, AB

Mar 2004 | ADVANCES IN ENVIRONMENTAL RESEARCH 8 (3-4) , pp.501-551

Nowadays, due to the increasing presence of molecules, refractory to the microorganisms in the wastewater streams, the conventional biological methods cannot be used for complete treatment of the effluent and hence, introduction of newer technologies to degrade these refractory molecules into smaller molecules, which can be further oxidized by biological methods, has become imperative. The pres ... 显示更多

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Ahmadun, FR; Pendashteh, A; (...); Abidin, ZZ

Oct 30 2009 | JOURNAL OF HAZARDOUS MATERIALS 170 (2-3) , pp.530-551

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Kurniawan, TA; Chan, GYS; (...); Babel, S

May 1 2006 | CHEMICAL ENGINEERING JOURNAL 118 (1-2) , pp.83-98

This article reviews the technical applicability of various physico-chemical treatments for the removal of heavy metals such as Cd(II). Cr(III), Cr(VI), Cu(II), Ni(II) and Zn(II) from contaminated wastewater. A particular focus is given to chemical precipitation, coagulation-flocculation, flotation, ion exchange and membrane filtration. Their advantages and limitations in application are evalua ... 显示更多

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Chong, MN; Jin, B; (...); Saint, C

May 2010 | WATER RESEARCH 44 (10) , pp.2997-3027

In recent years, semiconductor photocatalytic process has shown a great potential as a low-cost, environmental friendly and sustainable treatment technology to align with the "zero" waste scheme in the water/wastewater industry. The ability of this advanced oxidation technology has been widely demonstrated to remove persistent organic compounds and microorganisms in water. At present, the main ... 显示更多

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阿德莱德大学

Position	Professor
Org Unit	School of Chemical Engineering
Email	bo.jin@adelaide.edu.au
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In recent years, semiconductor photocatalytic process has shown a great potential as a low-cost, environmental friendly and sustainable treatment technology to align with the "zero" waste scheme in the water/wastewater industry. The ability of this advanced oxidation technology has been widely demonstrated to remove persistent organic compounds and microorganisms in water. At present, the main technical barriers that impede its commercialisation remained on the post-recovery of the catalyst particles after water treatment.

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1 Nano-photocatalytic Materials: Possibilities and Challenges

Tong, H; Ouyang, SX; (...); Ye, JH

Jan 10 2012 | ADVANCED MATERIALS 24 (2) , pp.229-251

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2 A review on g-C3N4-based photocatalysts

Wen, JQ; Xie, J; (...); Li, X

2nd International Symposium on Energy and Environmental Photocatalytic Materials (EEPM2)

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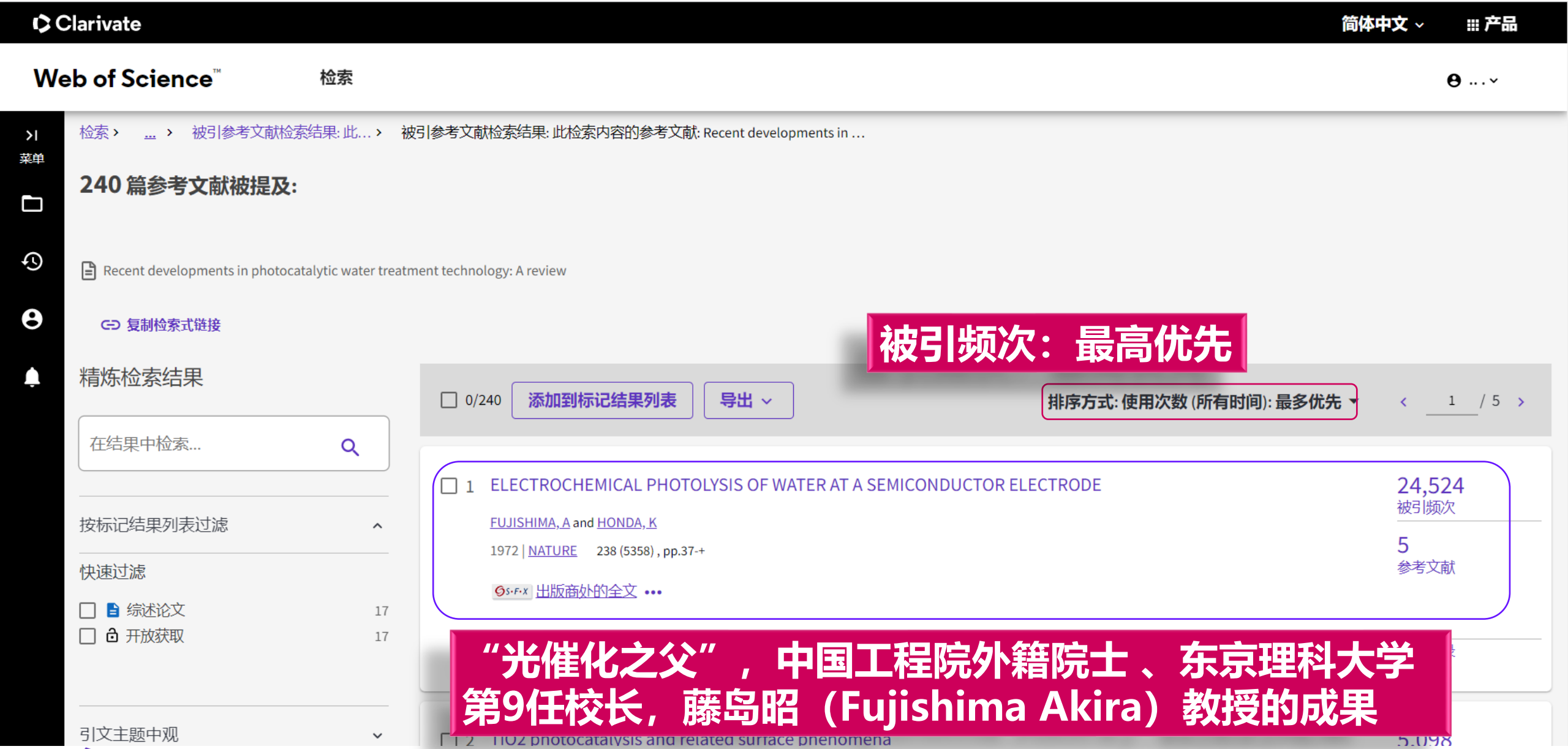

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1 PHOTOCATALYSIS IN THE TREATMENT AND DISINFECTION OF WATER. PART I. THEORETICAL BACKGROUNDS

Bodzek, M and Rajca, M

2012 | ECOLOGICAL CHEMISTRY AND ENGINEERING S-CHEMIA I INZYNIERIA EKOLOGICZNA S 19 (4) , pp.489-512

Photocatalysis process belongs to an advanced oxidation technology for the removal of persistent organic compounds and microorganisms from water. It is the technology with a great potential, a low-cost, environmental friendly and sustainable treatment technology to align with the "zero" waste scheme in the water/wastewater industry. At present, the main technical barriers that impede its full c ... 显示更多

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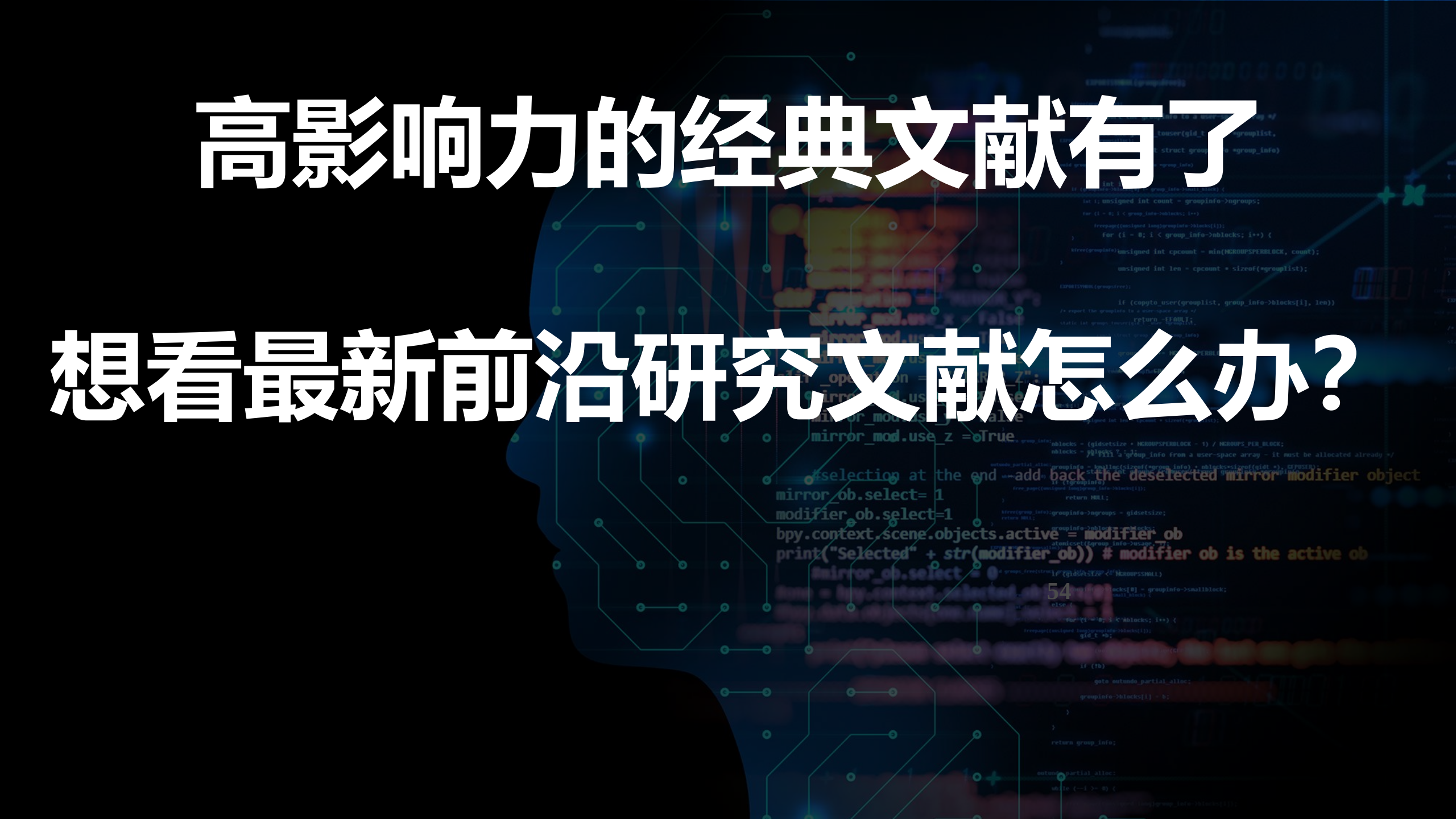

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1 Floor heave mechanism in water-rich soft rock roadways and a DS-IBA control approach

Zhai, WL; He, FL; (...); Song, JY

Dec 31 2022 | GEOMATICS NATURAL HAZARDS & RISK 13 (1) , pp.2107-2123

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Severe floor heave in underground soft rock roadways heavily affects mine safety and production efficiency. In the present study, the context of the Shanghaimiao mining area is analyzed as the research object. In this regard, the floor heave mechanism and floor control in water-rich soft rock roadways are investigated through laboratory experiments, theoretical analysis, numerical simulation, a ... 显示更多

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Shannon, MA; Bohn, PW; (...); Mayes, AM

Mar 20 2008 | NATURE 452 (7185) , pp.301-310

One of the most pervasive problems afflicting people throughout the world is inadequate access to clean water and sanitation. Problems with water are expected to grow worse in the coming decades, with water scarcity occurring globally, even in regions currently considered water- rich. Addressing these problems calls out for a tremendous amount of research to be conducted to identify robust new ... 显示更多

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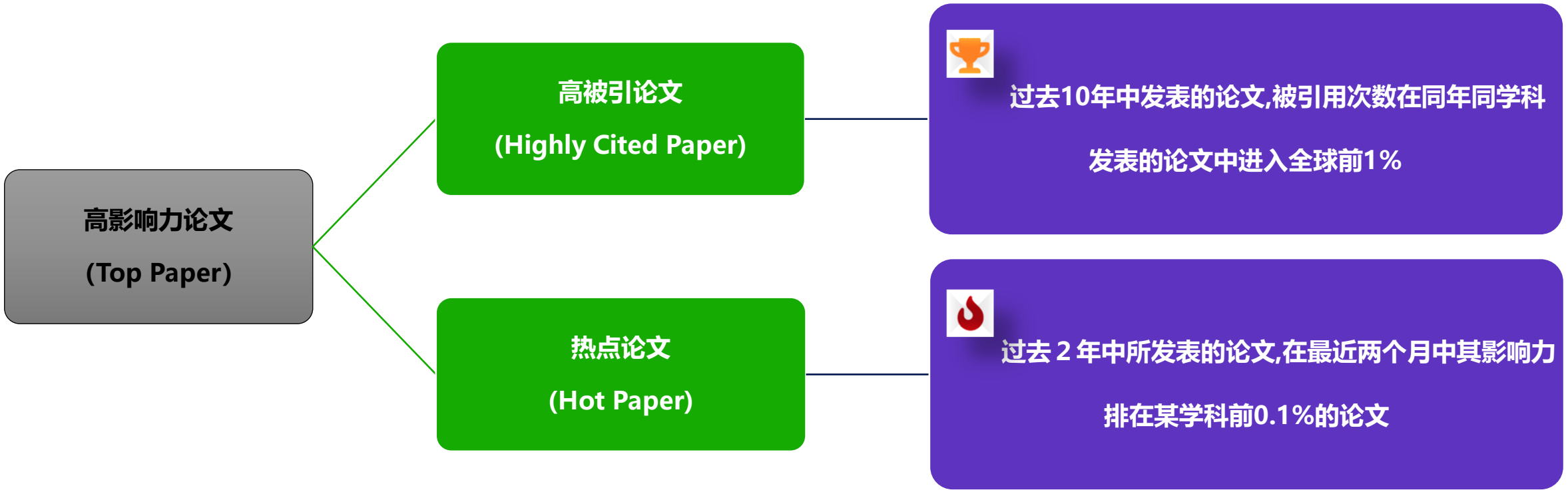

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Robinson, T; McMullan, G; (...); Nigam, P

May 2001 | BIORESOURCE TECHNOLOGY 77 (3) , pp.247-255

The control of water pollution has become of increasing importance in recent years. The release of dyes into the environment constitutes only a small proportion of water pollution, but dyes are visible in small quantities due to their brilliance. Tightening government legislation is forcing textile industries to treat their waste effluent to an increasingly high standard. Currently, removal of … 显示更多

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May 1 2006 | CHEMICAL ENGINEERING JOURNAL 118 (1-2) , pp.83-98

This article reviews the technical applicability of various physico-chemical treatments for the removal of heavy metals such as Cd(II). Cr(III), Cr(VI), Cu(II), Ni(II) and Zn(II) from contaminated wastewater. A particular focus is given to chemical precipitation, coagulation-flocculation, flotation, ion exchange and membrane filtration. Their advantages and limitations in application are evalua … 显示更多

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Bhatnagar, A; Hogland, W; (...); Sillanpaa, M

Mar 1 2013 | CHEMICAL ENGINEERING JOURNAL 219 , pp.499-511

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Activated carbon has been recognized as one of the oldest and widely used adsorbent for the water and wastewater treatment for removing organic and inorganic pollutants. The application of activated carbon in adsorption process is mainly depends on the surface chemistry and pore structure of porous carbons. The method of activation and the nature of precursor used greatly influences surface fun ... 显示更多

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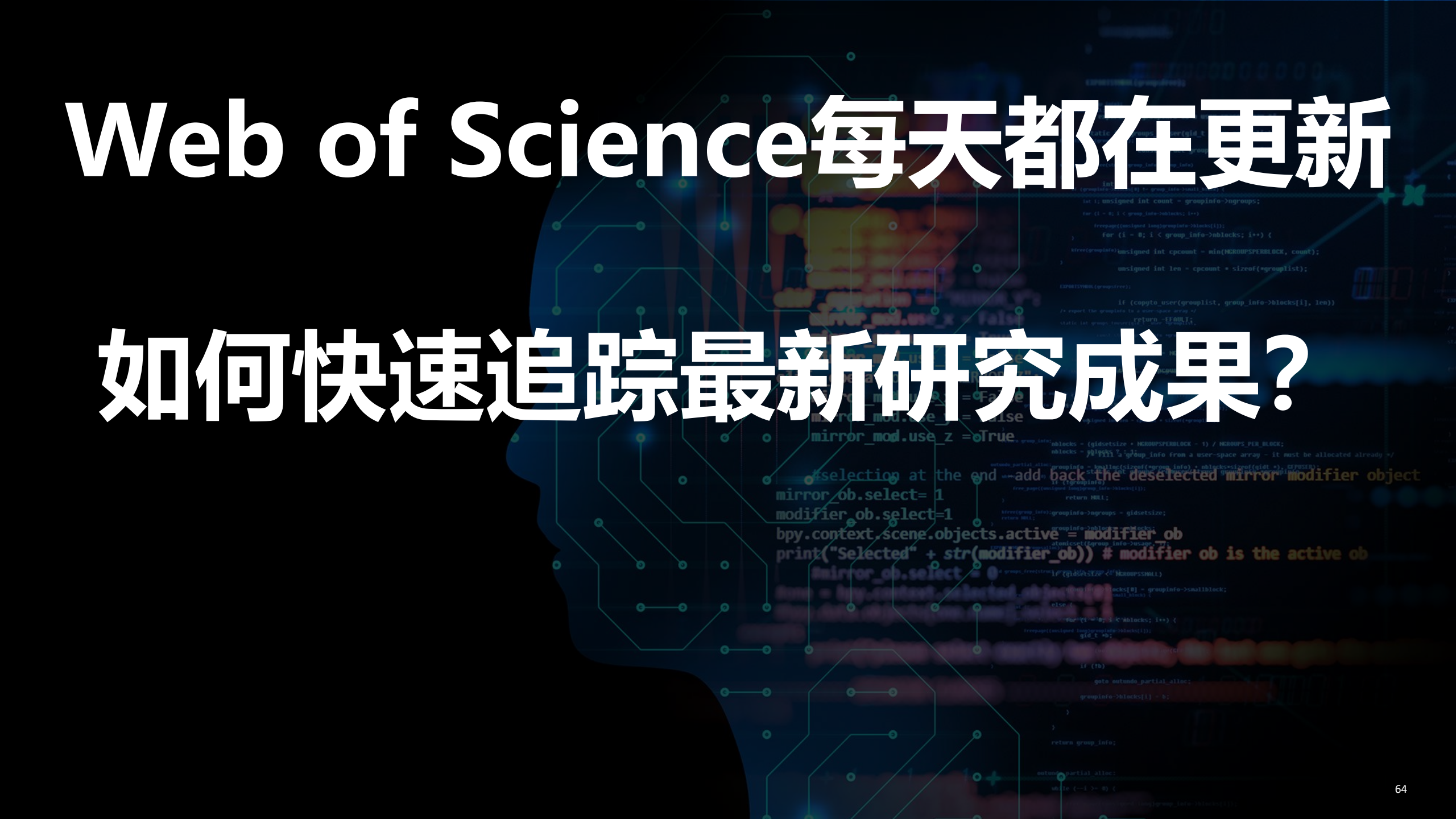

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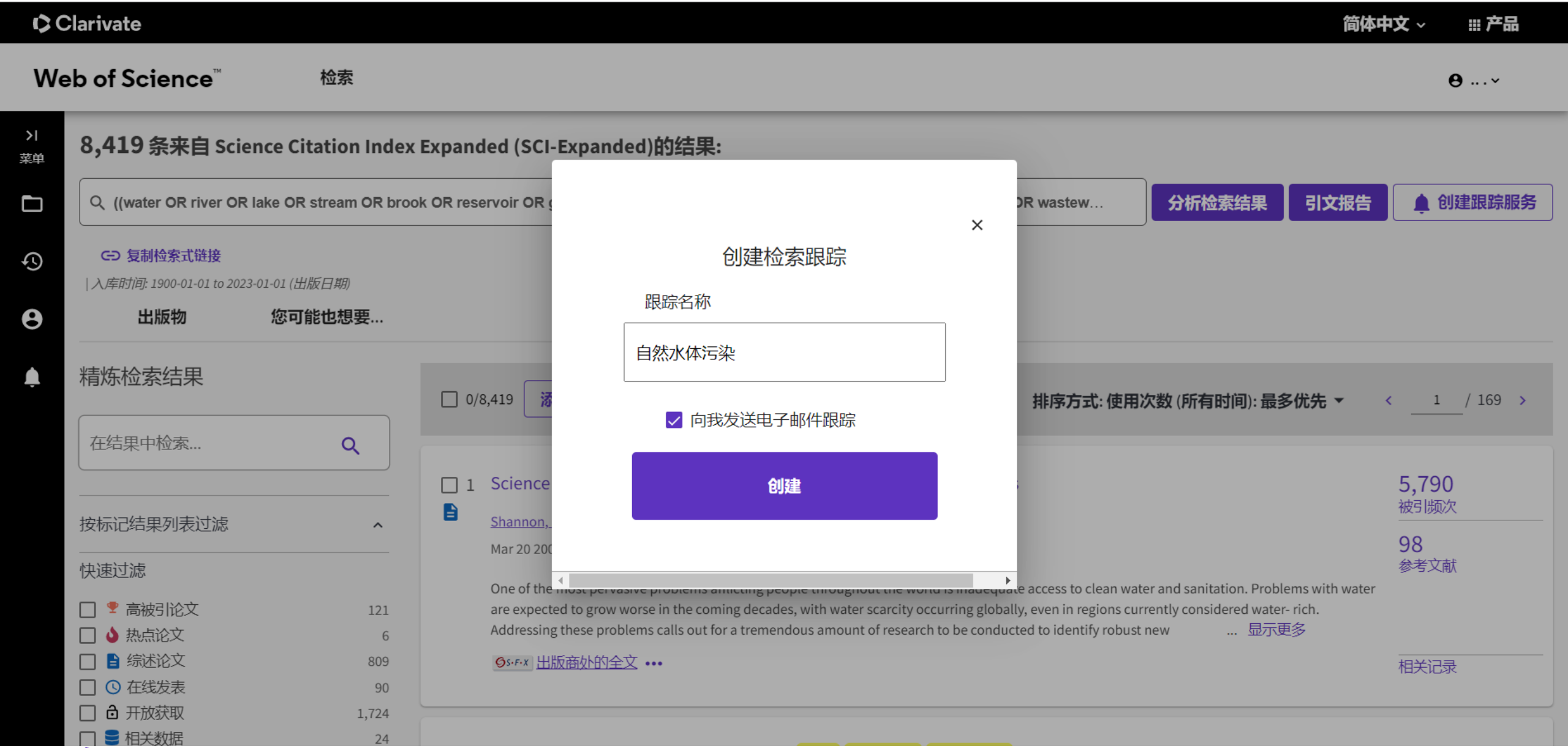
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作者: Chong, MN (Chong, Meng Nan) [1], [2]; Jin, B (Jin, Bo) [1], [2], [3]; Chow, CWK (Chow, Christopher W. K.) [3]; Saint, C (Saint, Chris) [3]

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卷: 44 **期:** 10 **页:** 2997-3027

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In recent years, semiconductor photocatalytic process has shown a great potential as a low-cost, environmental friendly and sustainable treatment technology to align with the "zero" waste scheme in the water/wastewater industry. The ability of this advanced oxidation technology has been widely demonstrated to remove persistent organic compounds and microorganisms in water. At present, the main technical barriers that impede its commercialisation remained on the post-recovery of the catalyst particles after water treatment.

This paper reviews the recent R&D progresses of engineered-photocatalysts, photoreactor systems, and the process optimizations and modellings of the photooxidation

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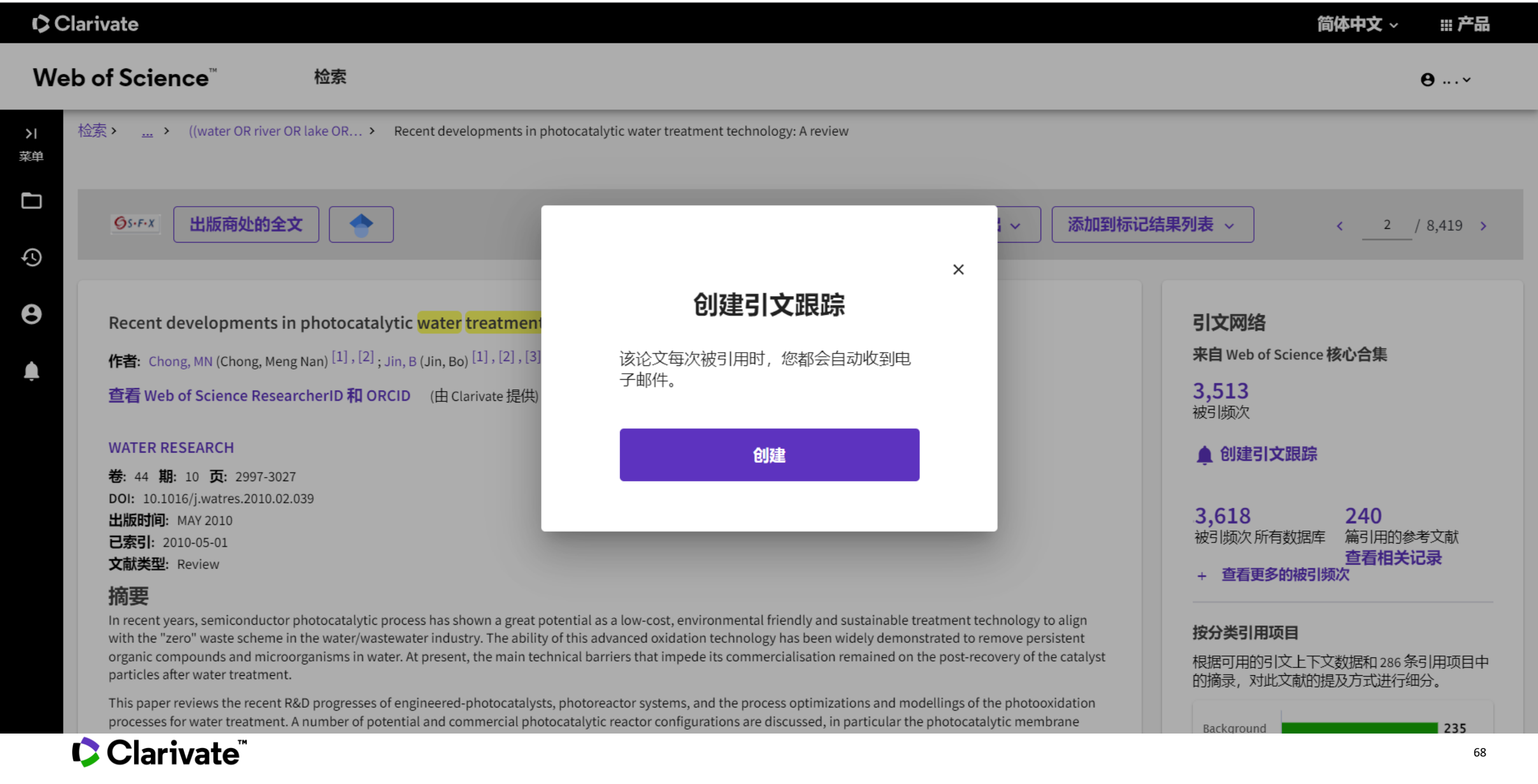
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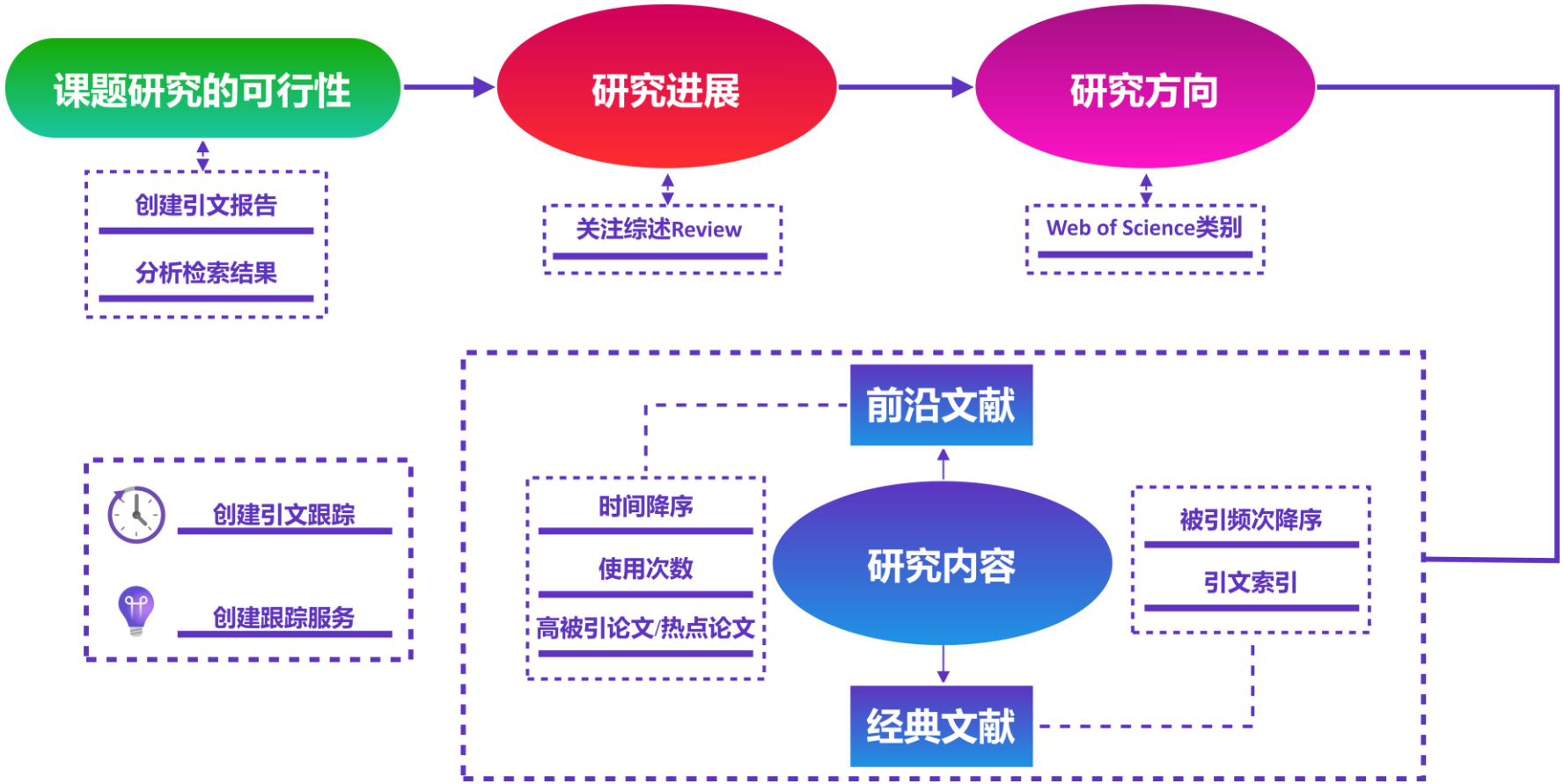
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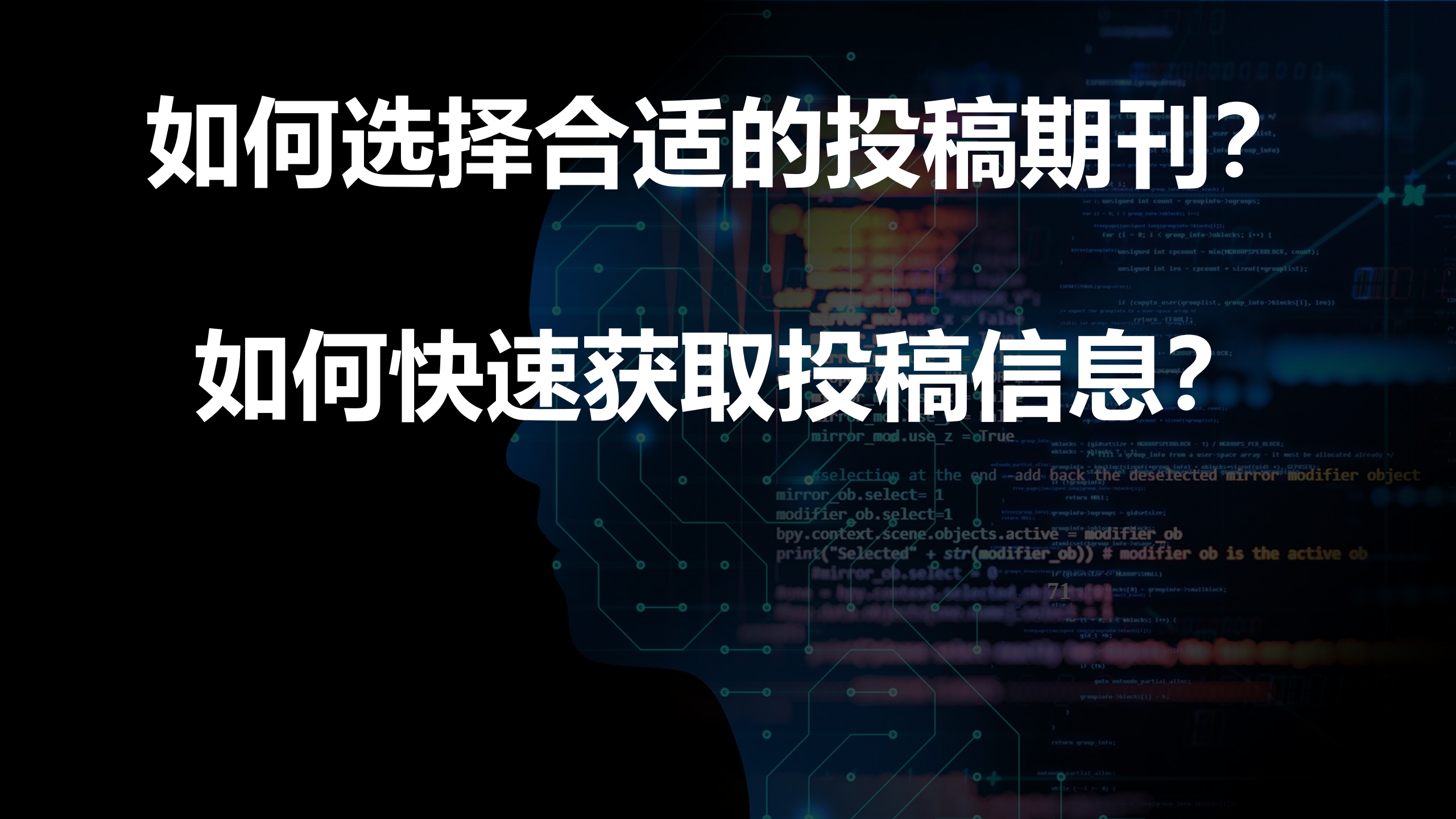

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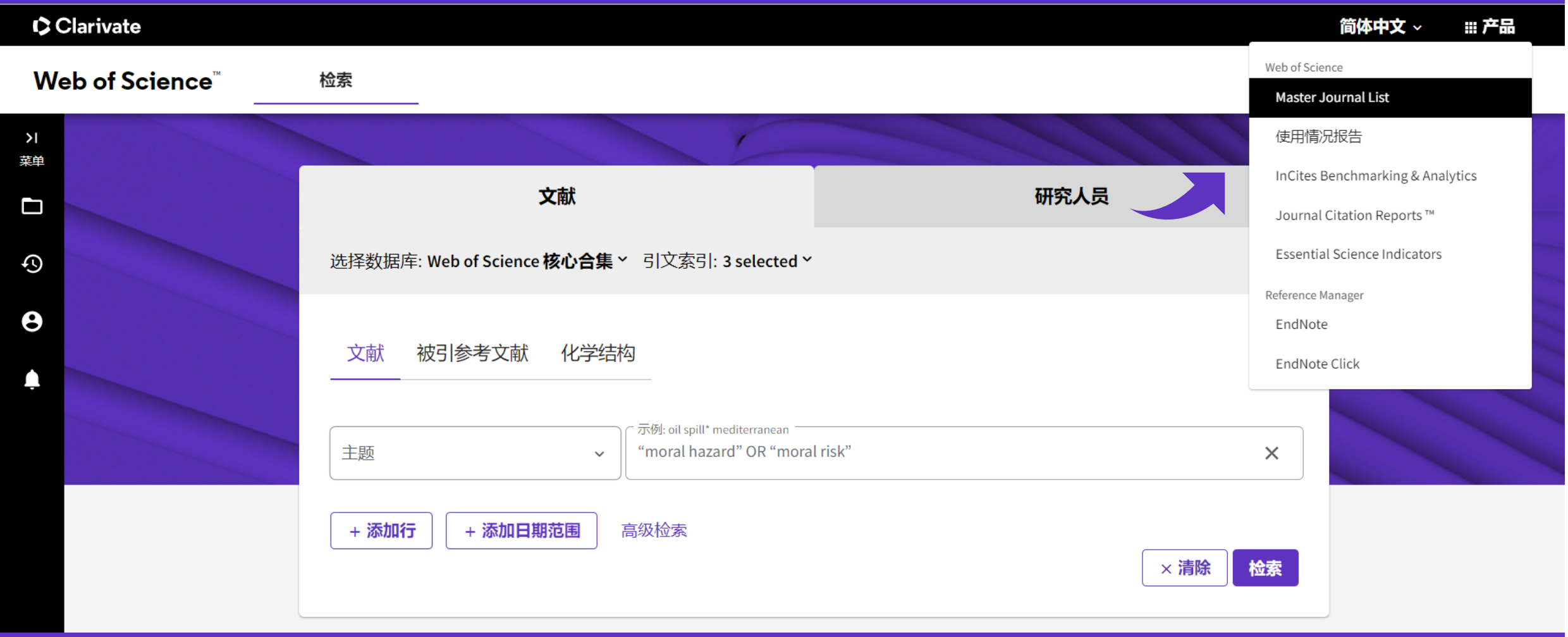

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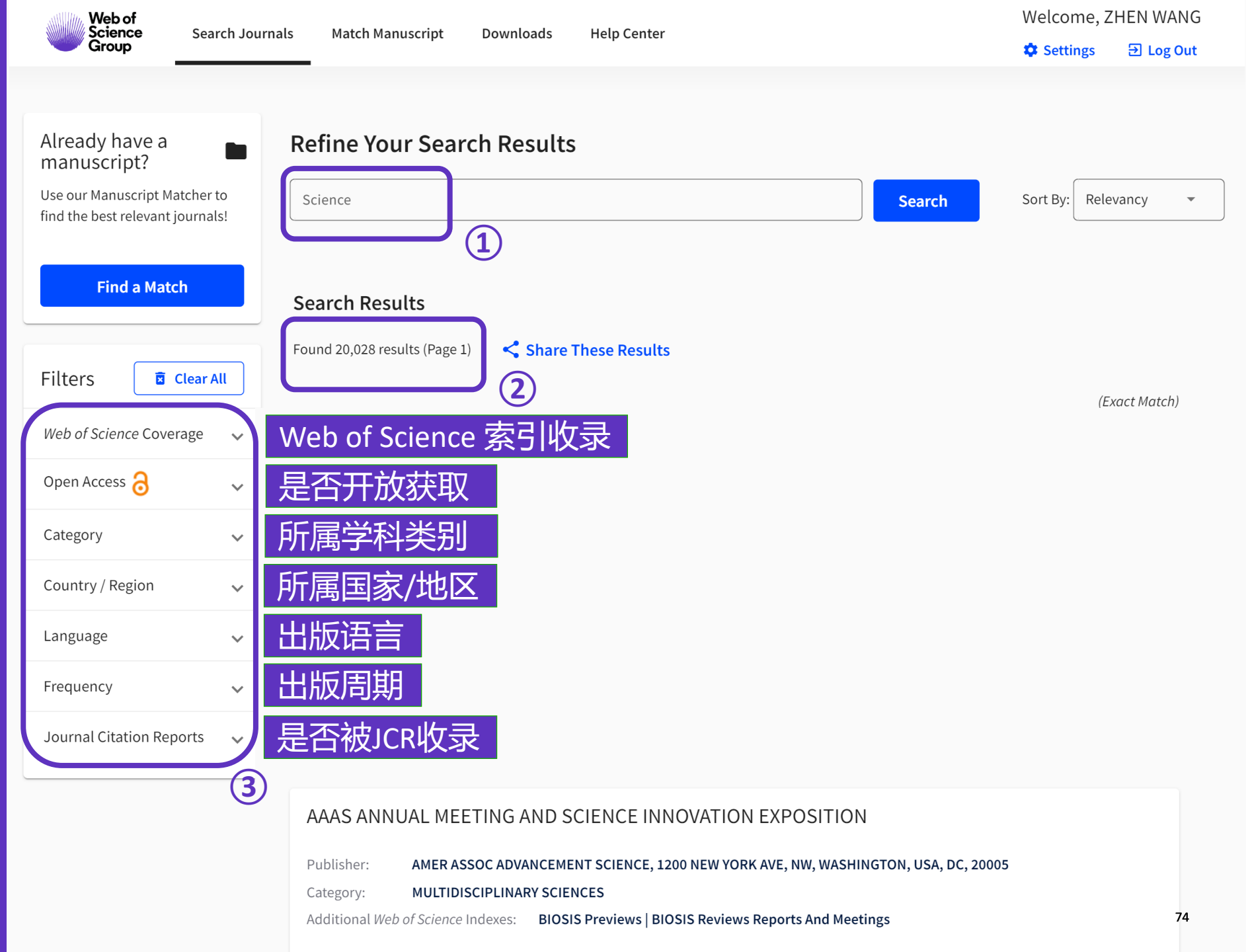
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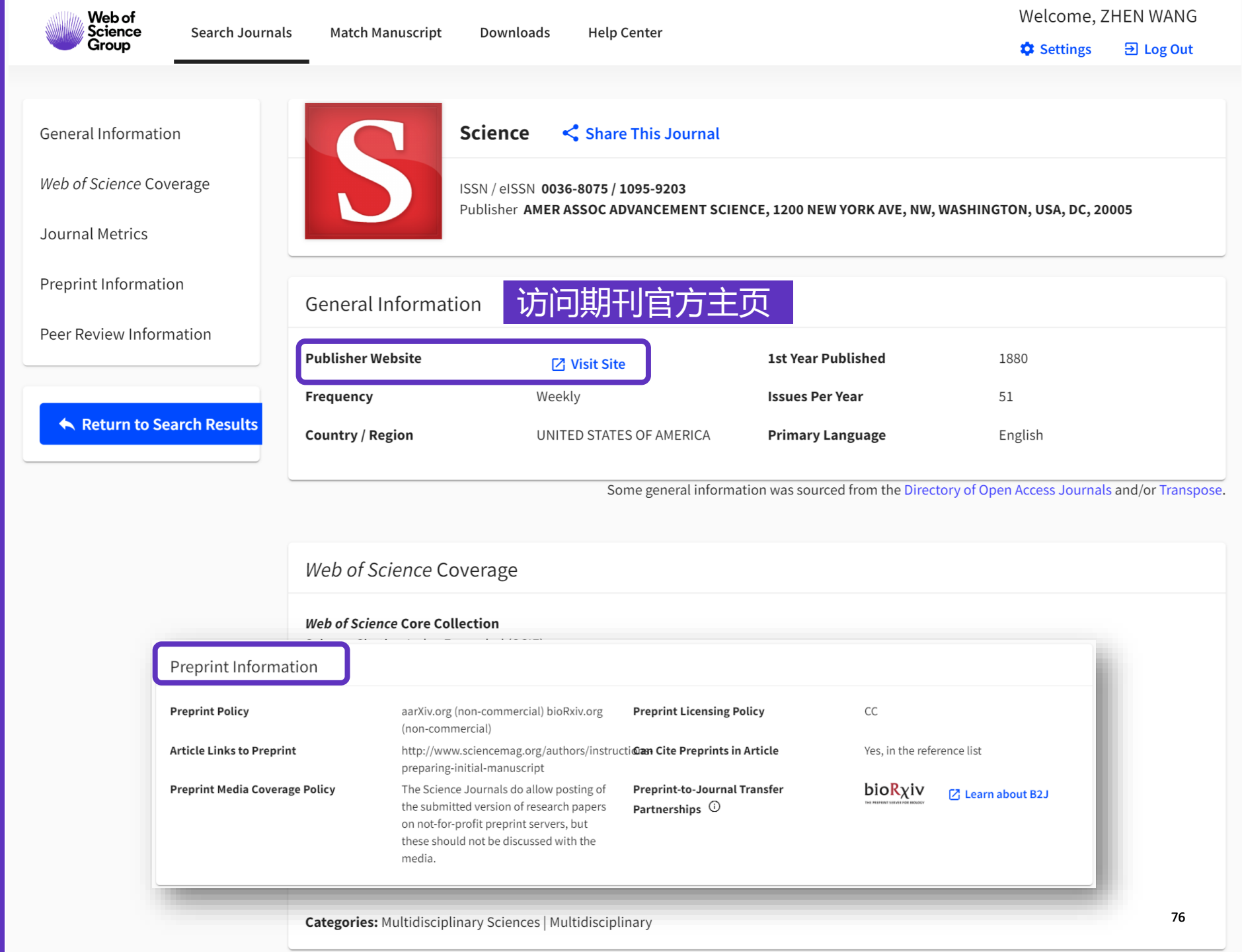
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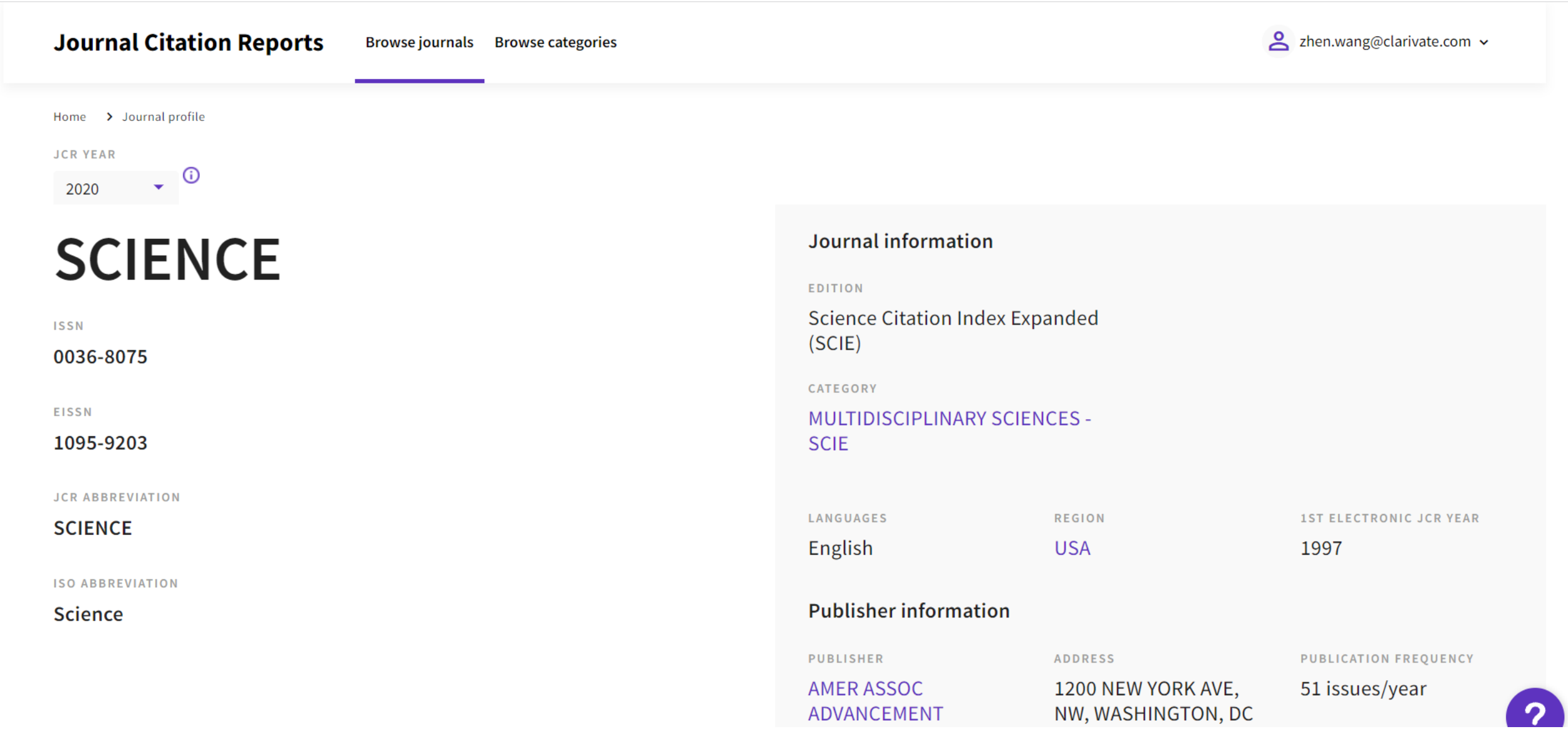

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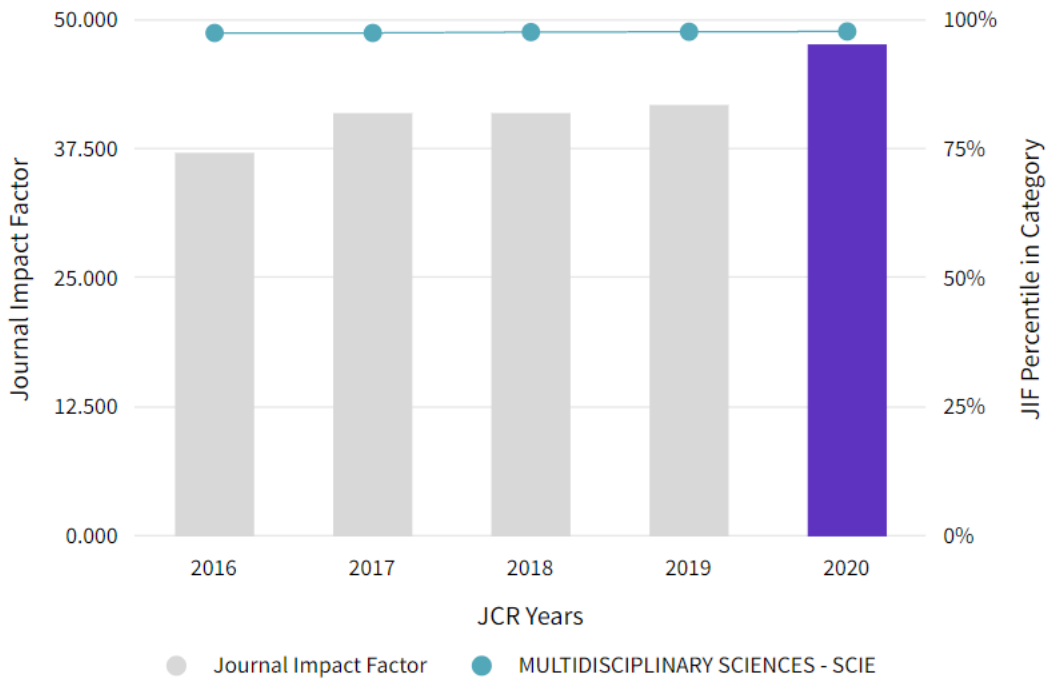

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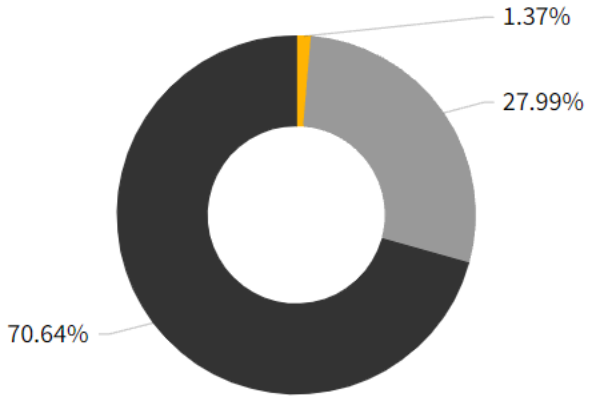

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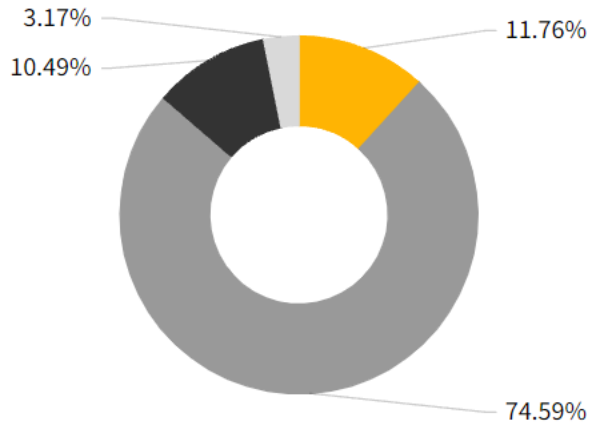

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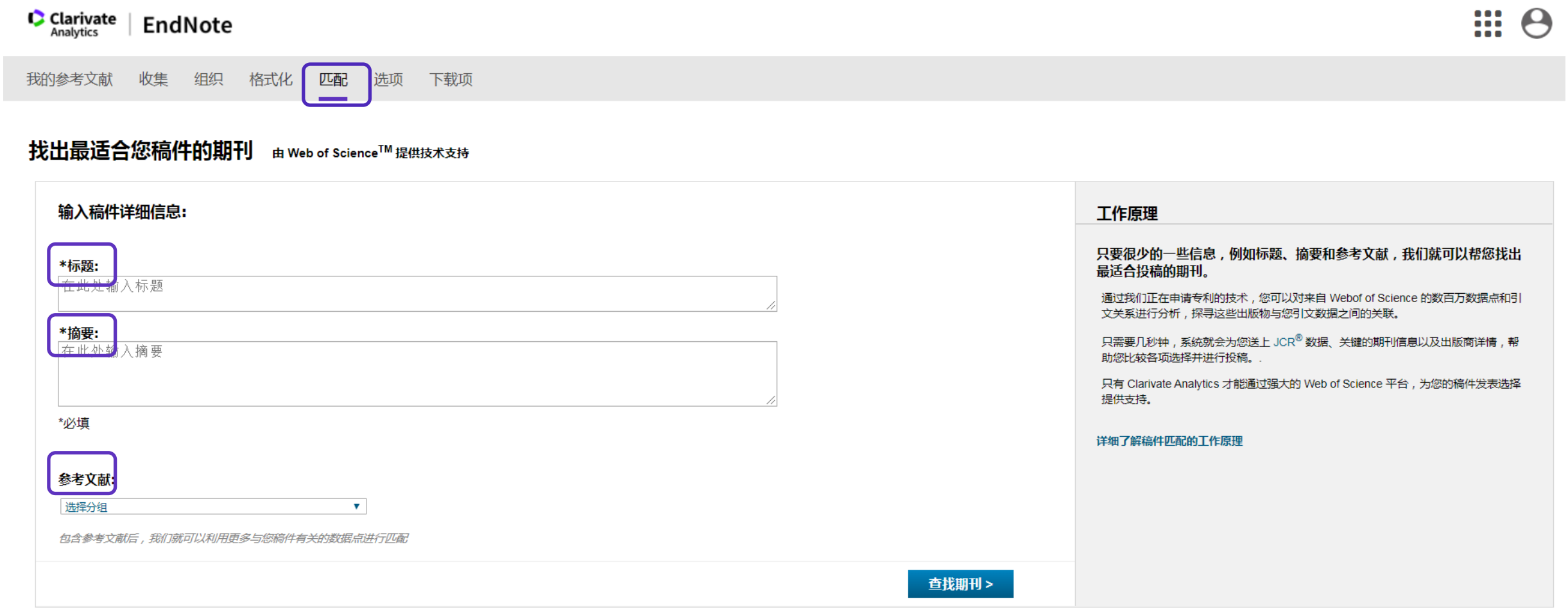

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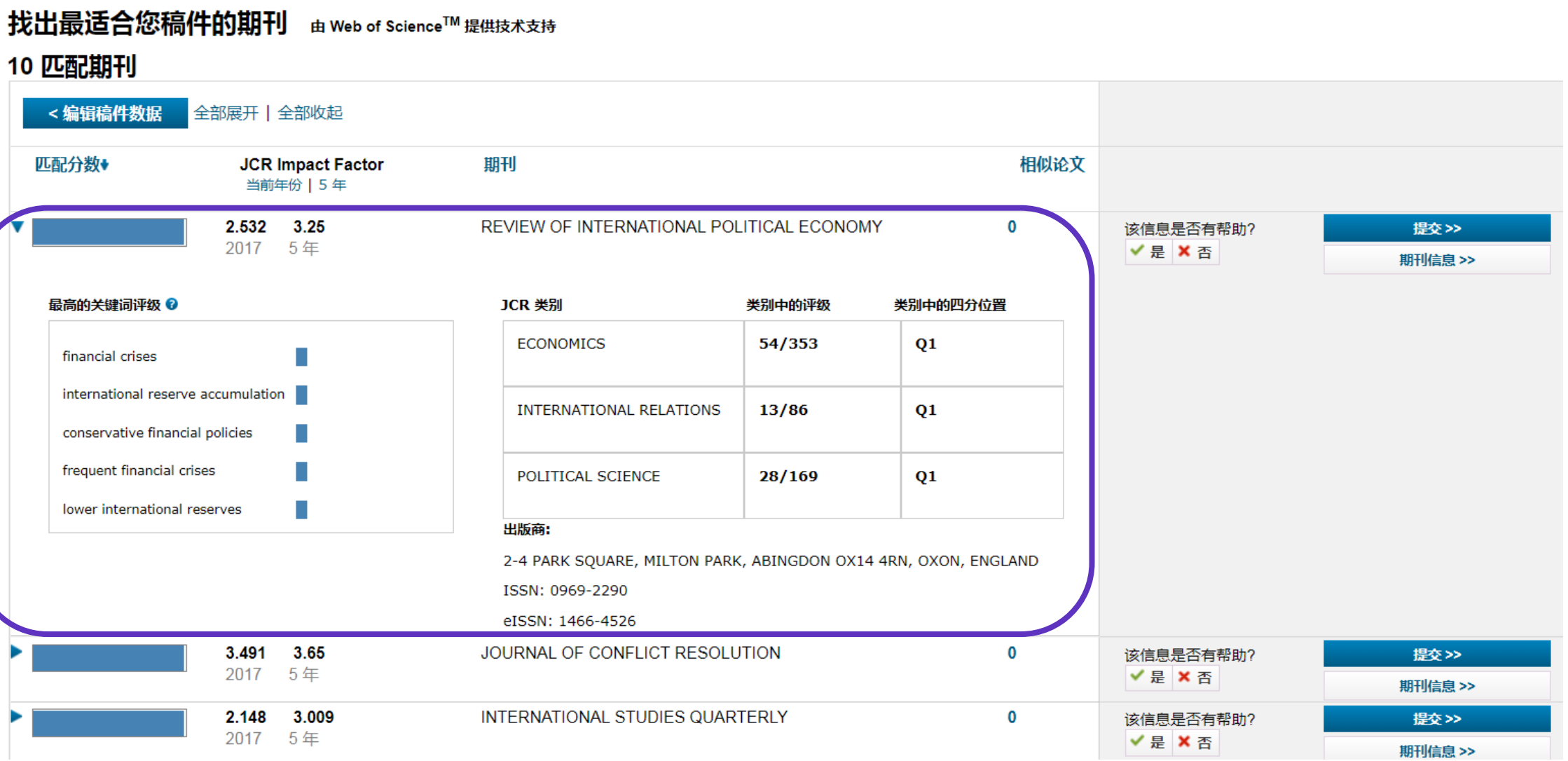

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Solutions to microplastic pollution - Removal of microplastics from wastewater effluent with advanced wastewater treatment technologies

作者: Talvitie, J (Talvitie, Julia) [1]; Mikola, A (Mikola, Anna) [1]; Koistinen, A (Koistinen, Arto) [2]; Setala, O (Setala, Outi) [3]
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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 wastew[illegible]ent with primary and secondary treatment processes efficiently remove microplastics (MPs) from the wastewater. Despite the efficient re[illegible]al 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 [illegible]al-stage treatment technologies. The study included membrane bioreactor treating primary effluent and different tertiary treatment [illegible](discfilter, rapid sand filtration and dissolved air flotation) treating secondary effluent. The MBR removed 99.9% of MPs during the [illegible]om 6.9 to 0.005 MP L-1), rapid sand filter 97% (from 0.7 to 0.02 MP L-1), dissolved air flotation 95% (from 2.0 to 0.1 MP L-1) and discfilter 40-98.5% (from 0.5 - 2.0 to 0.03-03 MP L-1) of the MPs during the treatment. Our study shows that with advanced final-stage wastewater treatment

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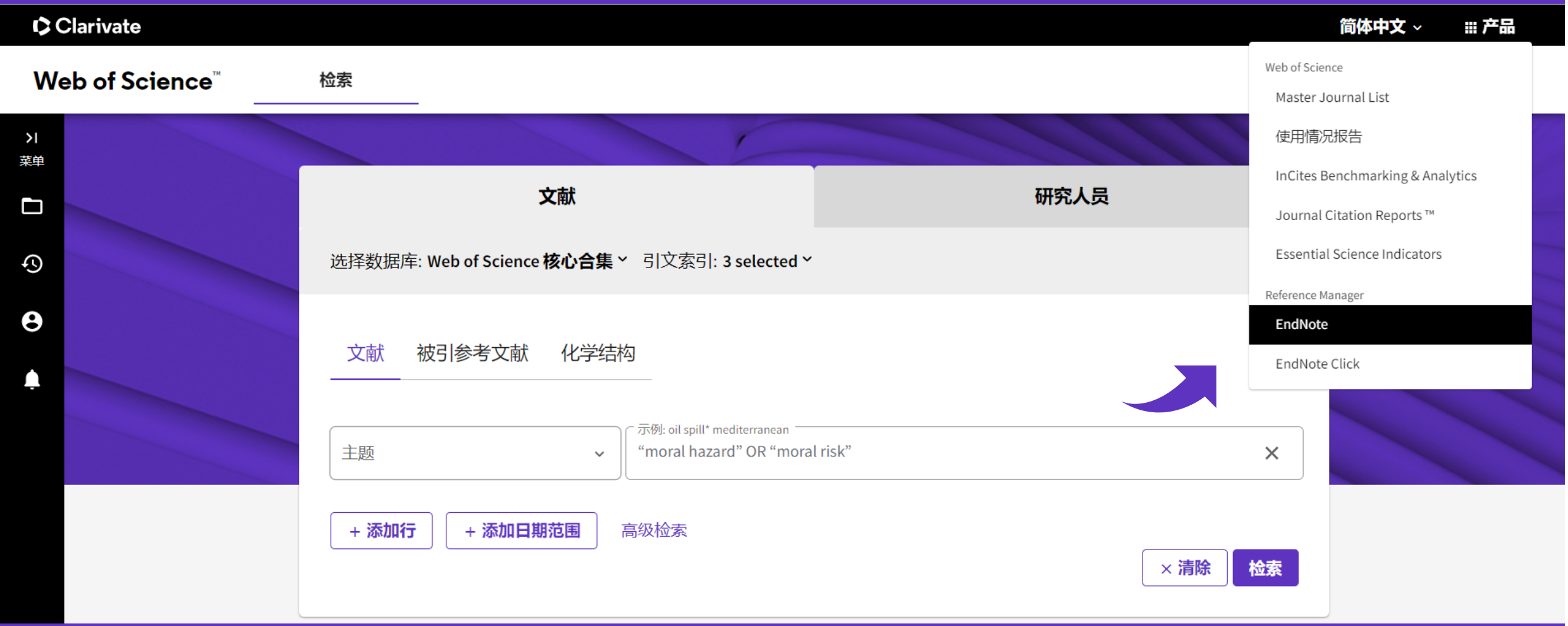

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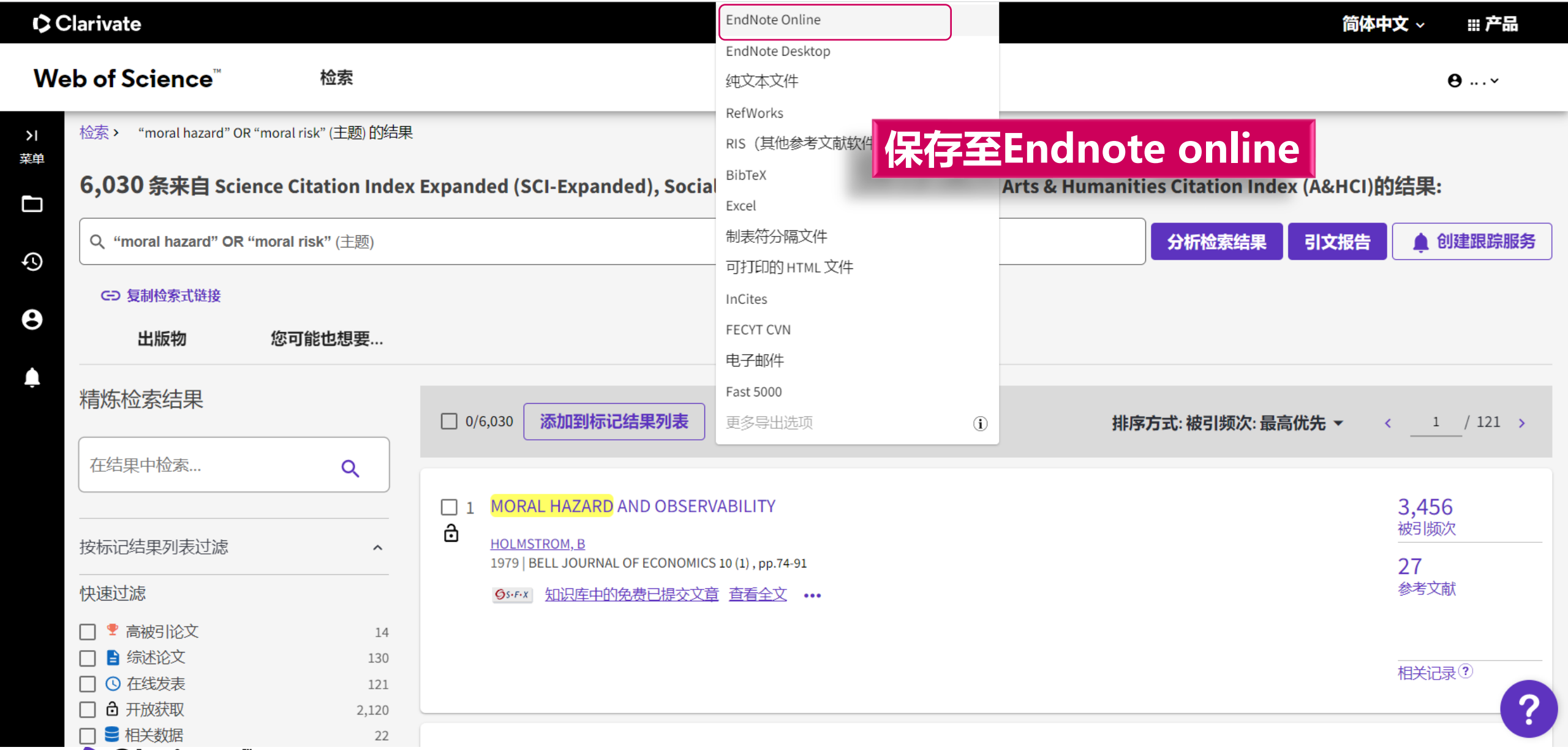

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参考文献-Reference

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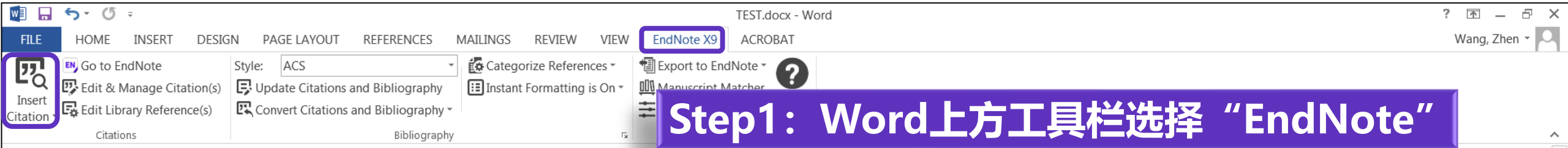

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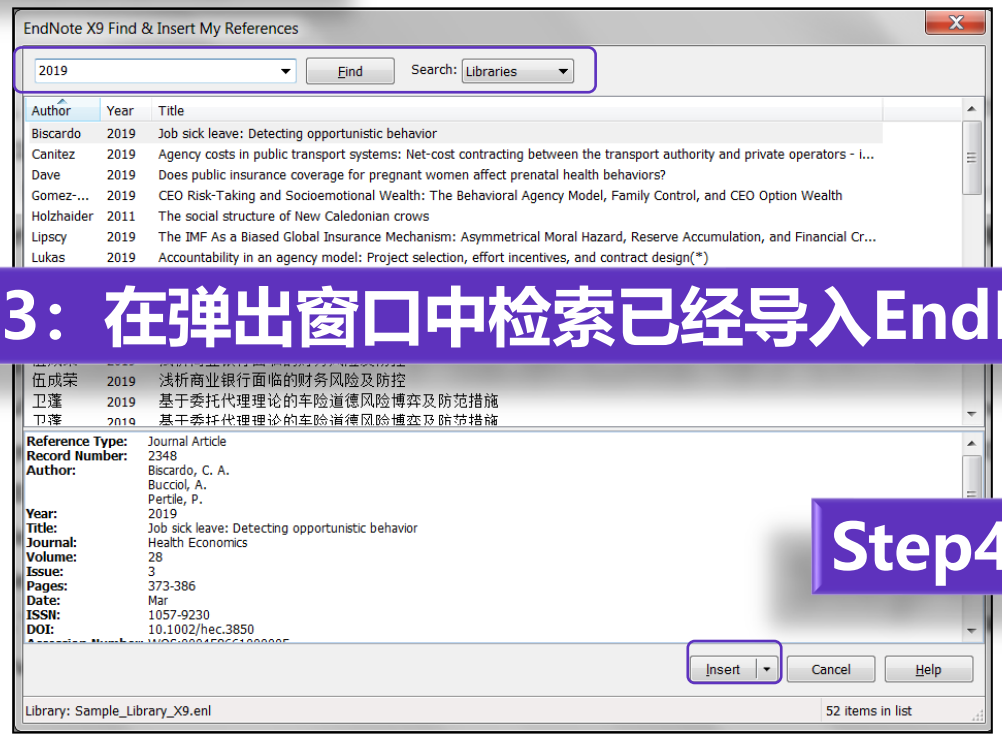

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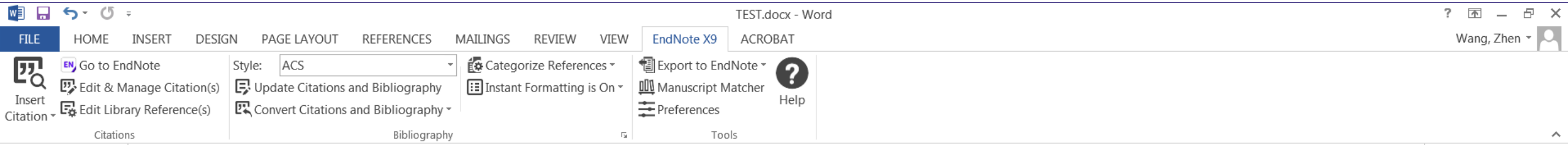

Test[1-6]

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. Lipscy, P. Y.; Lee, H. N. K., The IMF As a Biased Global Insurance Mechanism: Asymmetrical Moral Hazard, Reserve Accumulation, and Financial Crises. *International Organization* **2019,** *73* (1), 35-64.

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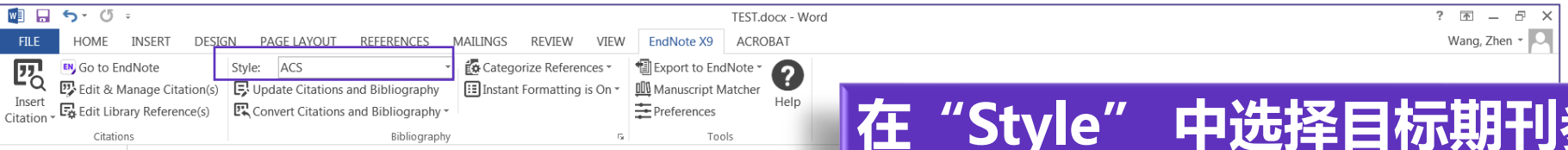

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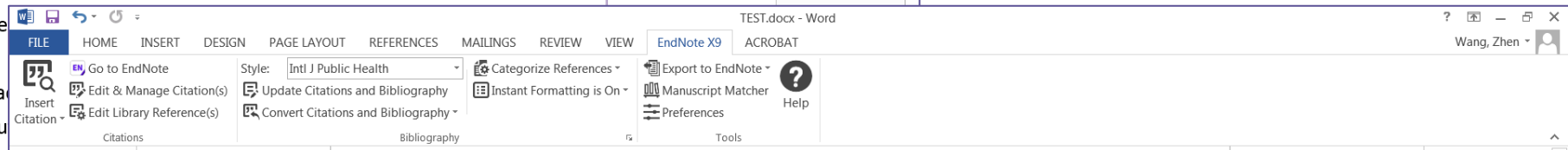

Test(Biscardo et al. 2019; Canitez et al. 2019; Dave et al. 2019; Gomez-Mejia et al. 2019; Holzhaider et al. 2011; Lipscy and Lee 2019)

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

Lipscy PY, Lee HNK (2019) The IMF As a Biased Global Insurance Mechanism: Asymmetrical Moral Hazard, Reserve Accumulation, and Financial Crises International Organization 73:35-64 doi:10.1017/s0020818318000371

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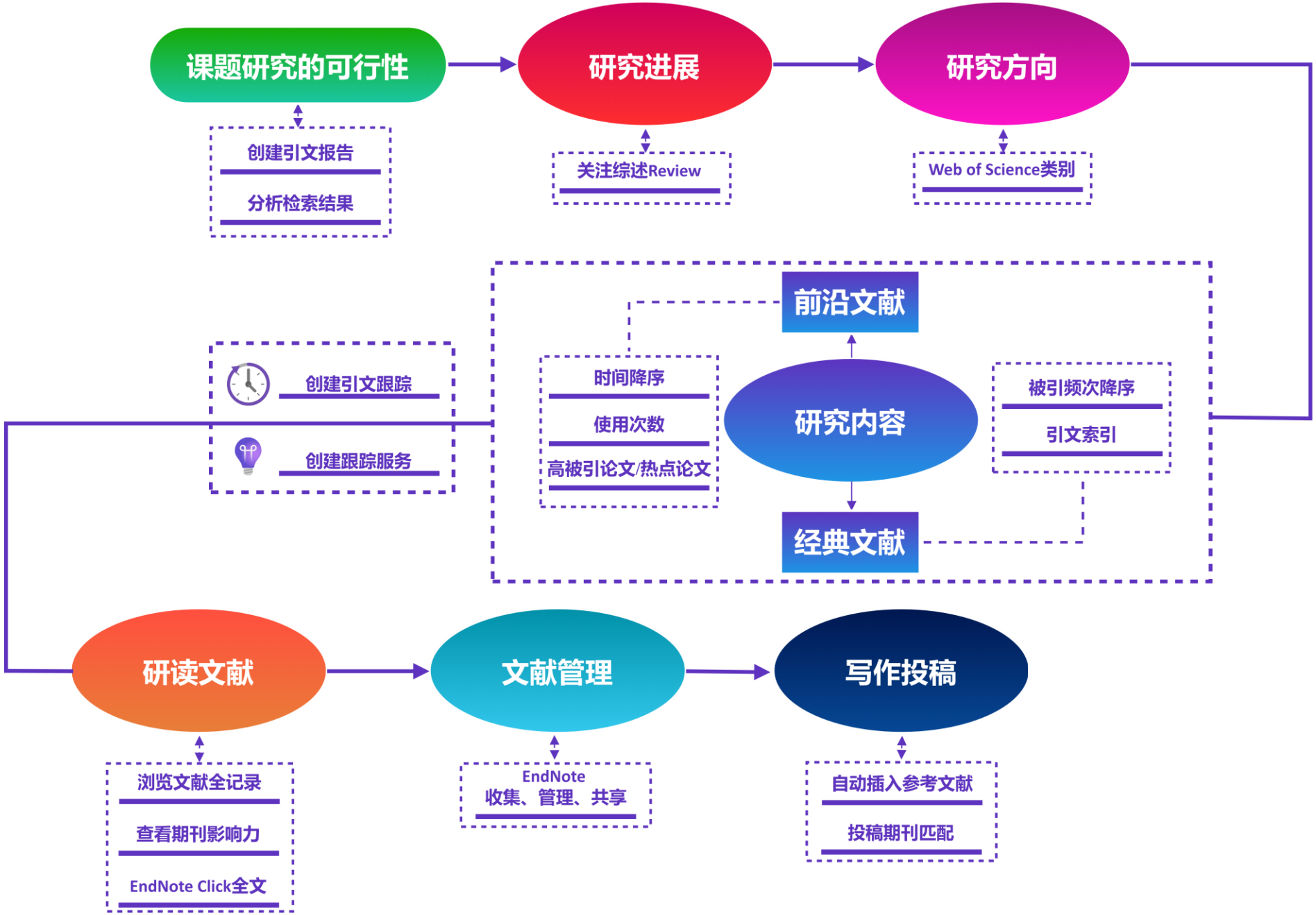
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