Web of Science 等核心数据库检索与利用

清华大学图书馆 信息参考部

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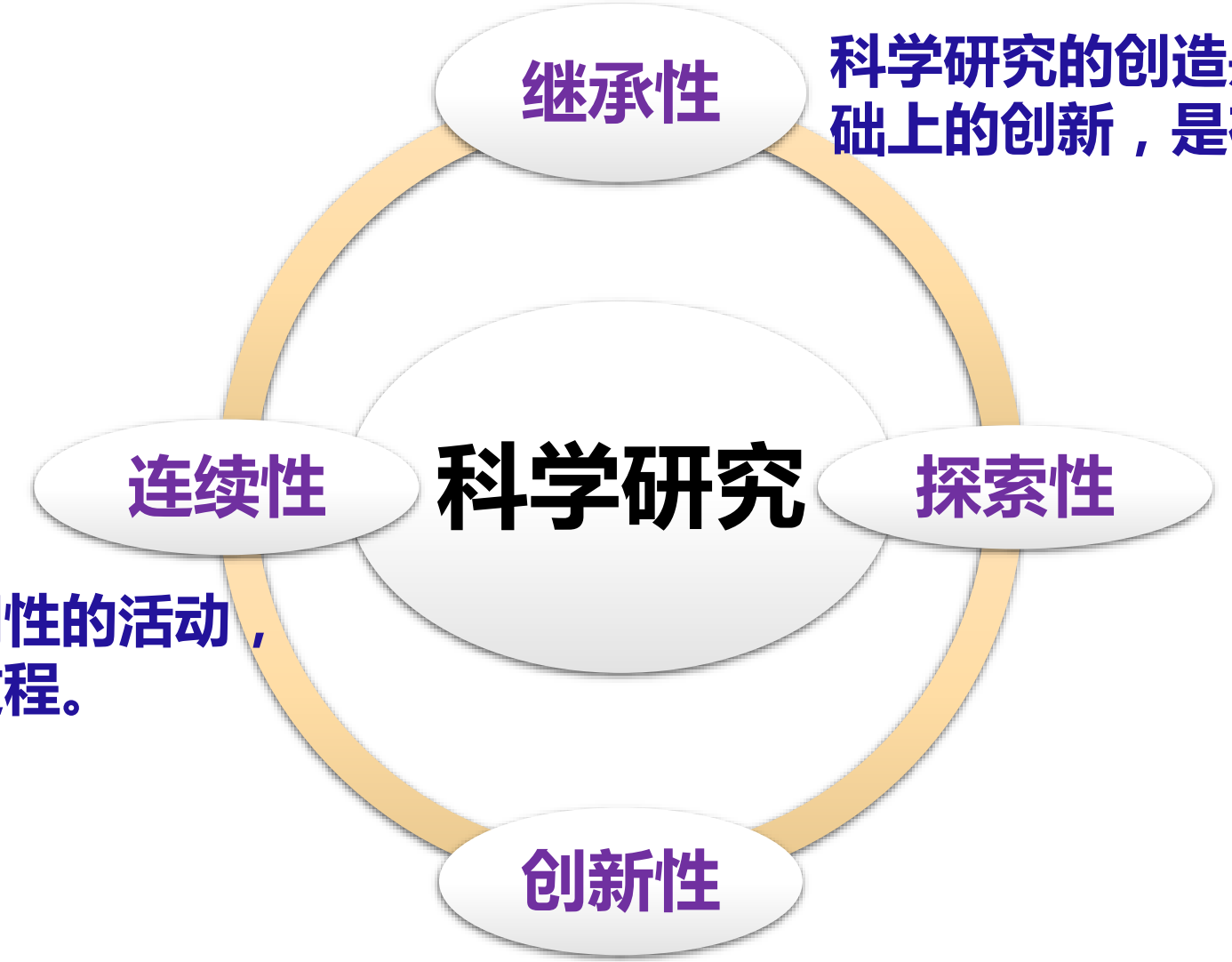
科学研究



科学研究的创造是在前人成果基础上的创新，是在继承中实现的。

科学研究是一项长期性的活动，是连续不断进行的过程。

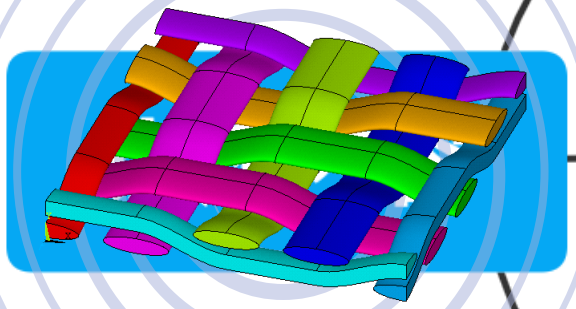
文献阅读和文献调研

1
- 掌握核心数据库的使用方法

2
- 获取并利用好有价值核心文献

3
- 完成文献阅读和调研

• 主要内容



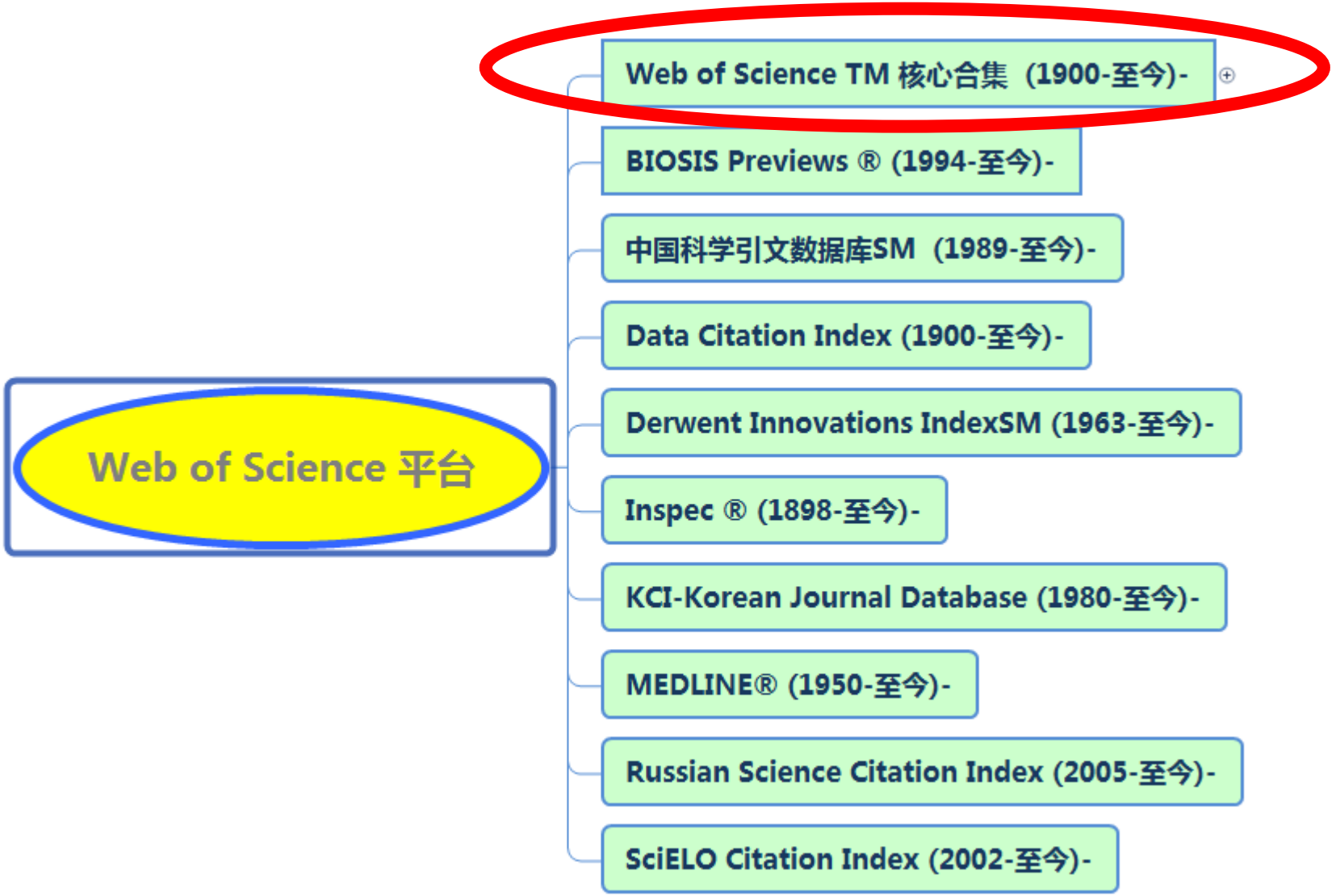
一、Web of Science核心合集
- 1、Web of Science平台简介
- 2、检索相关功能介绍
- 3、分析、跟踪功能介绍

二、Scopues数据库

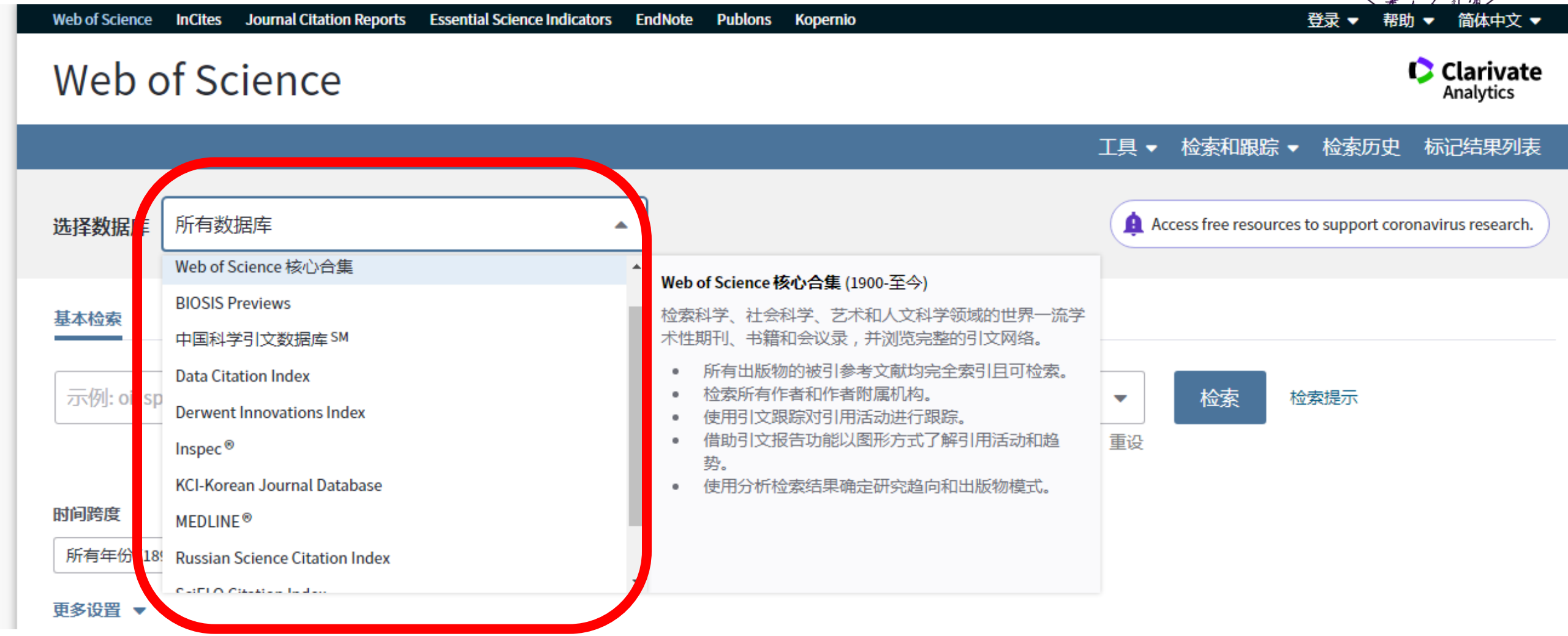
三、Ei Compendex数据库

一、 Web of Science核心合集

1.1 Web of Science 平台简介

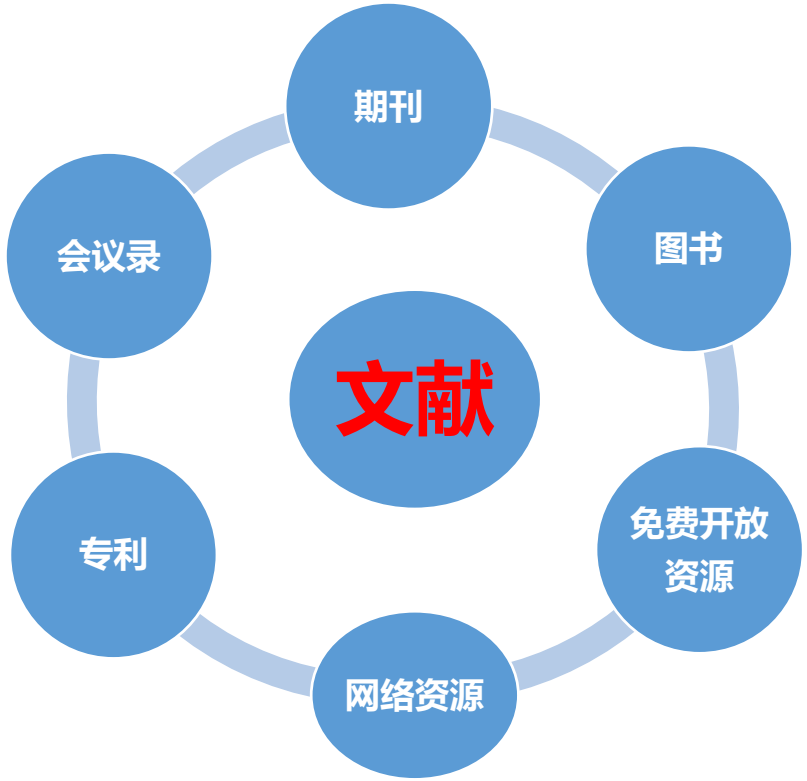


• 1.1 Web of Science 平台简介



1.1 Web of Science 平台简介

Web of Science (简称 WOS) 是 **科睿唯安** 公司开发的信息检索平台。



可以对平台上已订购的所有数据库进行单库或者跨库检索

1.2 Web of Science 核心合集简介

选择数据库 Web of Science 核心合集

Access free resources to support coronavirus research.

基本检索 作者检索 BETA 被引参考文献检索 高级检索 化学结构检索

示例: oil spill* mediterranean

主题

检索 检索提示

+添加行 | 重设

时间跨度

所有年份 (1900 - 2020)

更多设置

Web of Science 核心合集: 引文索引

- Science Citation Index Expanded (SCI-EXPANDED) --1900年至今
- Social Sciences Citation Index (SSCI) --1998年至今
- Arts & Humanities Citation Index (A&HCI) --1998年至今
- Conference Proceedings Citation Index- Science (CPCI-S) --1998年至今
- Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH) --1998年至今
- Book Citation Index– Science (BKCI-S) --2005年至今
- Book Citation Index– Social Sciences & Humanities (BKCI-SSH) --2005年至今

自动建议的出版物名称

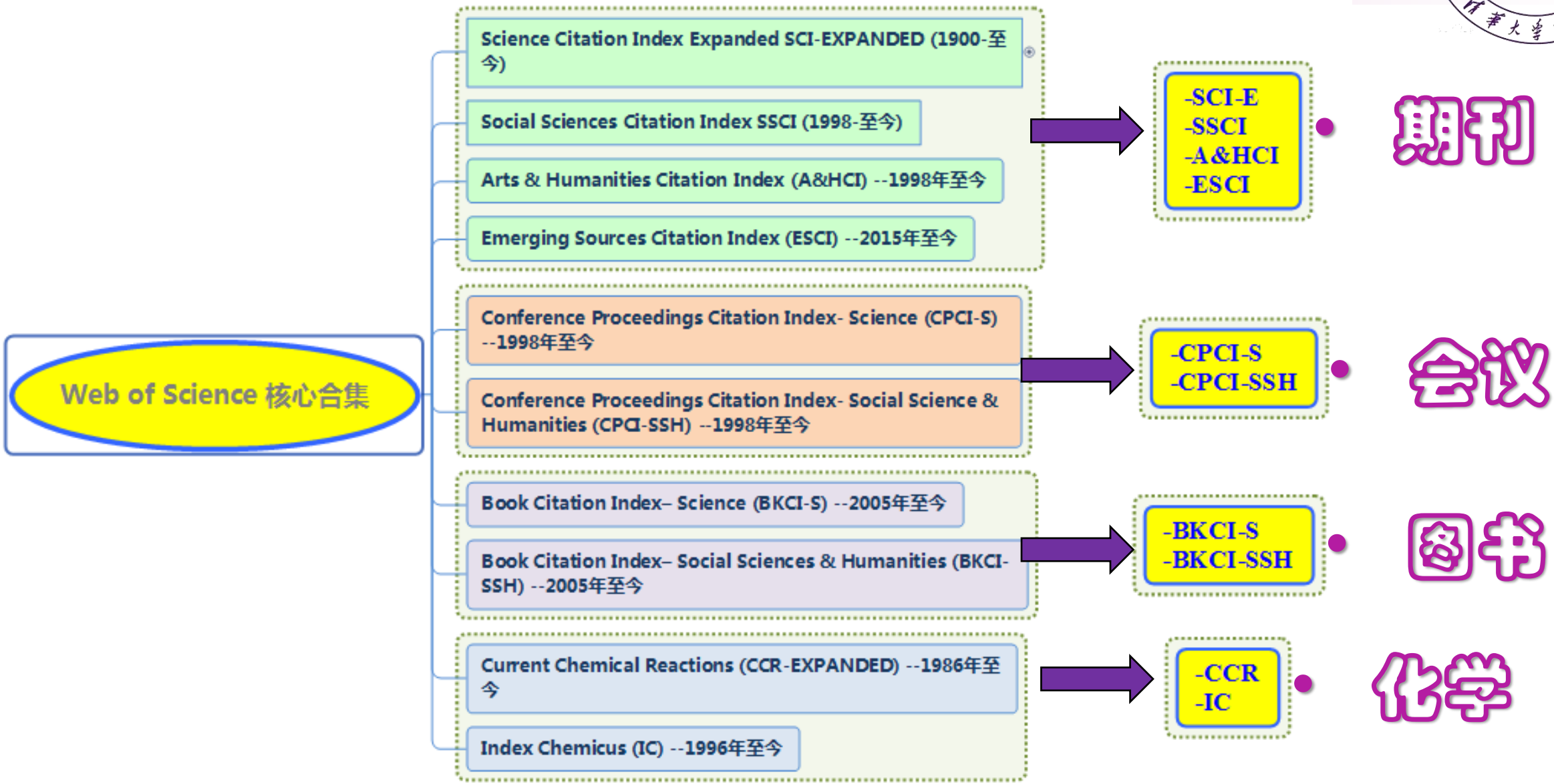
打开

默认情况下显示的检索字段数

1 个字段 (主题)

(要永久保存这些设置，登录 or 注册.)

1.2 Web of Science 核心合集简介



1.3 WOS核心合集的“引文索引”

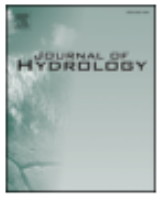
- **引文索引**：收录论文的参考文献并索引

Journal of Hydrology 582 (2020) 124462

Contents lists available at ScienceDirect

Journal of Hydrology

journal homepage: www.elsevier.com/locate/jhydrol



题录信息

Research papers

Age- and climate- related water use patterns of apple trees on China's Loess Plateau

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ARTICLE INFO

This manuscript was handled by Corrado Corradini, Editor-in-Chief, with the assistance of Weiping Chen, Associate Editor

Keywords:
Water uptake patterns
Shallow soil water
Deep soil water
Stable isotopes
Artificial isotopes

文摘信息

ABSTRACT

The Loess Plateau of China is a major apple-cultivating region, but much of the Plateau is water-limited, and the expansion of apple-growing is putting pressure on soil water resources. Plants' water consumption patterns have been intensively studied to facilitate formulation of robust agricultural strategies, but previous studies have generally applied indirect methods to characterize their water use. Moreover, the few studies that have applied direct (isotopic) methods have mostly focused on shallow (0–200 cm) soil layers, usually in stands of a single age or single climatic region. To avoid these limitations, we have investigated the primary water sources of apple trees of three ages (10, 15 and 22 years) in semiarid and semihumid climatic regions of the Plateau using both natural stable isotopic signatures (δ^2H values) and injections of ^2H_2O into deep soil layers. We found that water content in apple orchards' soil decreased with increases in depth and stand age, and was higher in the semihumid area than in the semiarid area. Nevertheless, patterns of apple trees' water uptake from shallow (0–300 cm) soil layers were similar in the two climatic regions and the main water sources became shallower with increases in stand age. However, water uptake from deep (400–500 cm) soil layers was also detected, particularly in the blossom and young fruit stage in apple orchards of the semiarid area. Moreover, older trees absorbed more water from these layers than younger trees in the semiarid area (but not in the semihumid area) throughout the growing season. Excessive consumption of deep soil water inevitably results in deep soil drying and severely threatens the sustainability of apple cultivation. Our work suggests that it is necessary to take actions (e.g. supplementary irrigation, landscaping and mulching combinations) to reduce the proportion of deep soil water used by apple trees to prevent the development of dried soil layers. It also highlights the need to assess uptake patterns of plants at multiple developmental stages and ages to identify times when and places where interventions may be required or most effective.

References

Autovino, D., Rallo, G., Provenzano, G., 2018. Predicting soil and plant water status dynamic in olive orchards under different irrigation systems with Hydrus-2D: model performance and scenario analysis. Agr. Water Manage. 203, 225–235. https://doi.org/10.1016/j.agwat.2018.03.015.

Baldi, P., Komjanc, M., Wolters, P.J., Viola, R., Velasco, R., Salvi, S., 2013. Genetic and physical characterisation of the locus controlling columnar habit in apple (*Malus* × *domestica Borkh.*). Mol. Breeding. 31 (2), 429–440. https://doi.org/10.1007/s11032-012-9800-1.

Beyer, M., Koeniger, P., Gaj, M., Hamutoko, J.T., Wanke, H., Himmelsbach, T., 2016. A deuterium-based labeling technique for the investigation of rooting depths, water uptake dynamics and unsaturated zone water transport in semiarid environments. J. Hydrol. 533, 627–643. https://doi.org/10.1016/j.jhydrol.2015.12.037.

Bleby, T.M., McElrone, A.J., Jackson, R.B., 2010. Water uptake and hydraulic redistribution across large woody root systems to 20 m depth. Plant Cell Environ. 33 (12), 2132–2148. https://doi.org/10.1111/j.1365-3040.2010.02212.x.

Cai, Y., Wu, P., Zhang, L., Zhu, D., Wu, S., Zhao, X., Chen, J., Dong, Z., 2018. Prediction of flow characteristics and risk assessment of deep percolation by ceramic emitters in loam. J. Hydrol. 566, 901–909. https://doi.org/10.1016/j.jhydrol.2018.07.076.

Ceccon, C., Panzacchi, P., Scandellari, F., Prandi, L., Ventura, M., Russo, B., Millard, P., Tagliavini, M., 2011. Spatial and temporal effects of soil temperature and moisture and the relation to fine root density on root and soil respiration in a mature apple orchard. Plant Soil 342, 195–206. https://doi.org/10.1007/s11104-010-0684-8.

Celia, M.A., Bouloutas, E.T., Zarba, R.L., 1990. A general mass-conservative numerical solution for the unsaturated flow equation. Water Resour. Res. 26, 1483–1496. https://doi.org/10.1029/WR026i007p01483.

Dai, Y., Zheng, X., Tang, L., Li, Y., 2015. Stable oxygen isotopes reveal distinct water use patterns of two *Haloxylon* species in the Gurbantonggut Desert. Plant Soil 389 (1),

这篇文献所有参考文献的
题录信息+文摘信息
全部收录，并加以索引！

1.3 WOS核心合集的“引文索引”

一、前言

与许多转型国家类似,在近十几年里中国城市劳动者中性别收入的差距在扩大。造成转型[illegible]别收入差距增长的主要原因有两个。第一,[illegible]市场经济中,员工的生产力因素,比如教育、[illegible]验的回报率在上升;如果男性和女性具有不[illegible]产力特点,那么他们的收入差距会因为对这[illegible]回报率的上升而增加。第二,不断增加的性[illegible]差距也可能由对女性的歧视所致,在市场经济的环境下,雇主有权力自己决定薪酬,如果他们有歧视性偏好,就会支付女性雇员较低的工资。张丹丹[1]、李实和马欣欣[2]、王美艳[3]、Gustafsson 和 Li[4] 都发现中国性别收入差距的扩大无法由男女生产力特点的差异来解释,故而歧视可能是导致近些年来性别收入差距扩大的主要原因。

本文建议为了实现和谐社会的目标,出于对弱势劳动者的保护,要特别关注低技术、低学历的女性劳动者。

参考文献

[1]张丹丹. 市场化与工资差异研究[J]. 中国人口科学,2004(1):32-41.

[2]李实、马欣欣. 中国城镇职工的性别工资差异与职业分割的经验

参考文献/被引文献/Cited article

来源文献/施引文献/Citing article

1.3 WOS核心合集的“引文索引”

- ✓ **引文-Citation**

  通常指“参考文献”，也称作“被引文献”

- ✓ **来源文献-Source Documents**

  “来源文献”也称作“施引文献”

- ✓ **相关文献-Related Records**

  “相关文献”也称作“相关记录”，具有一篇或几篇相同参考文献的所有文献称之为相关文献。

- ✓ **共同参考文献-Shared Reference**

  如果2篇文章的“共同参考文献”越多，说明这2篇文献的相关性越强。

1.4 Web of Science 核心合集-检索类型

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publons Kopernio 登录 帮助 简体中文

Web of Science

Clarivate Analytics

工具 检索和跟踪 检索历史 标记结果列表

选择数据库 Web of Science 核心合集

Access free resources to support coronavirus research.

基本检索 作者检索 BETA 被引参考文献检索 高级检索 化学结构检索

0000-0001-9350-3034 主题

And 示例: water consum* 标题

And 示例: O'Brian C* OR OBrian C* 作者 检索 检索提示

从索引中选择 +添加行 | 重设

1.4 Web of Science 核心合集-检索类型

- 检索类型:
  - ✓ 基本检索
  - ✓ 被引参考文献检索
  - ✓ 高级检索
  - ✓ 作者检索
  - ✓ 化学结构检索

1.4 Web of Science 核心合集-检索类型

■ 编写检索式 (检索字段 + 运算符 +检索词)

- ✓ 可以方便、快捷表达检索需求
- ✓ 检索结果全面而准确

检索运算符

■ 检索式：检索词 + 运算符 + 检索指令 *(检索字段 或 字段标识)*

✓ 常用算符一 (限定一个单词或词根)

符号	说明
*	零个或多个字符 gene* *gene, genetics, generation*
$	零或一个字符 Colo$r *Color, colour*
?	只代表一个字符 en?oblast *entoblast, endoblast*

• 检索运算符

✓ 常用算符二：(限定2个或多个关键词)

符号	说明
AND	检索包含所有关键词的数据。标题：*proton and accelerator*
OR	检索数据中至少含有一个所给关键词，用于检索同义词或者不同的表达方式。标题：*booster or accelerator*
NOT	排除含有某一特定关键词的数据。 标题：*accelerator not proton*
“”	精确短语检索。例： *“proton accelerator”*（半角）
NEAR/x	所连接的 2 个词之间词语数量小于等于x，默认15 例：*proton NEAR/1 accelerator*
SAME	只在**地址字段**中进行检索，要求两个词在**同一地址字段** 例：*Tsinghua univ* same Dept Phys*

检索运算符

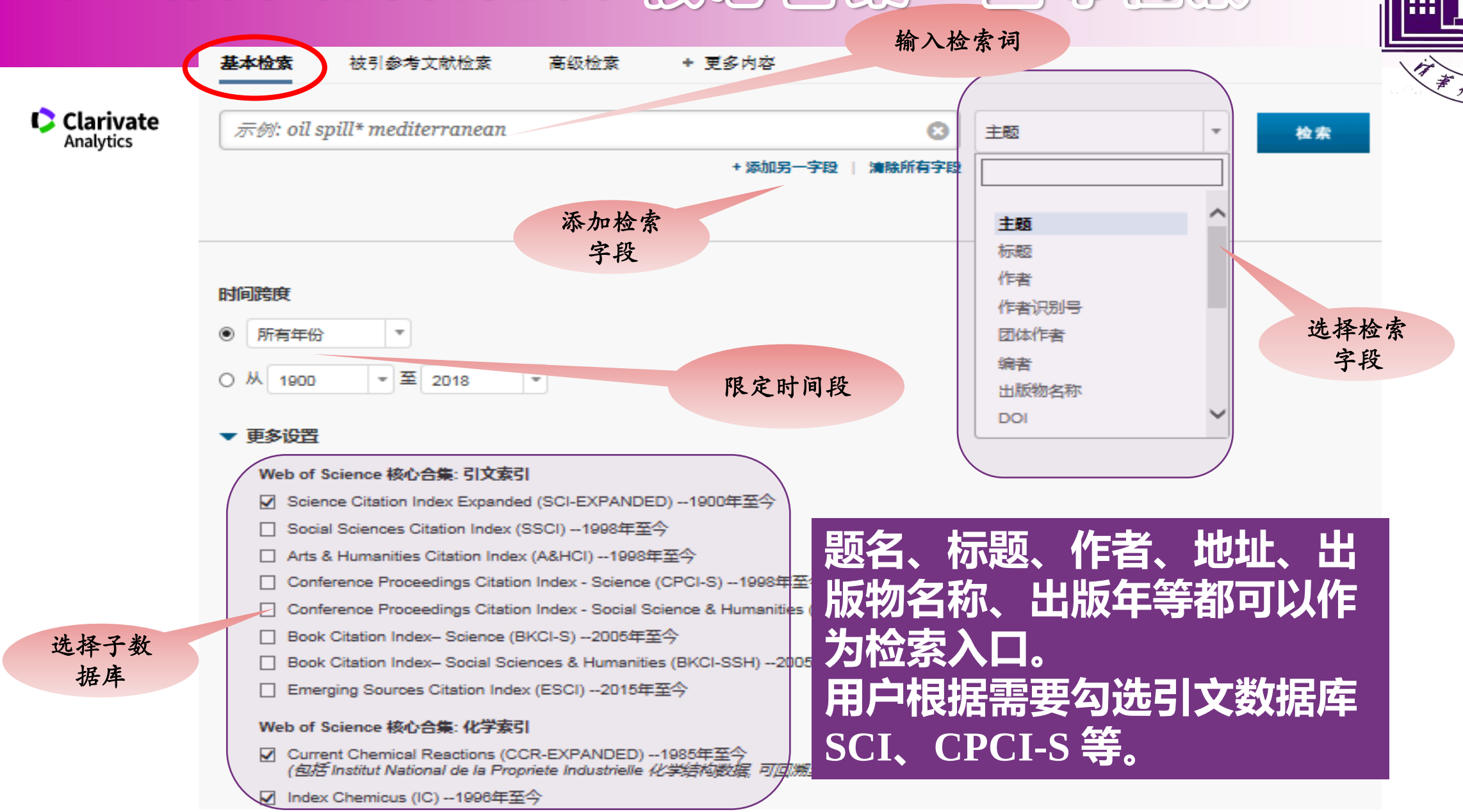
检索规则

✓ 检索算符优先顺序

- ✓ NEAR/x
- ✓ SAME
- ✓ NOT
- ✓ AND
- ✓ OR

使用括号可以改写算符运算优先级！

1.4 Web of Science 核心合集—基本检索



题名、标题、作者、地址、出版物名称、出版年等都可以作为检索入口。
用户根据需要勾选引文数据库 SCI、CPCI-S 等。

Web of Science

Clarivate Analytics

We're building the new Web of Science. Click here to access the preview

选择数据库 Web of Science 核心合集

基本检索 作者检索 BETA 被引参考文献检索 高级检索 化学结构检索

"artificial intelligence" 标题

And × Review 文献类型 检索 检索提示

+ 添加行 | 重设

时间跨度

所有年份 (1900 - 2021)

在等待 snowplow.apps.clarivate.com 的响应

1.4 Web of Science 核心合集—高级检索

■ 高级检索 ： 检索词 + 运算符 + 字段标识

1.4 Web of Science 核心合集—高级检索

✓ 字段标识 （31 项）

- ✓ TS = 主题
- ✓ TI = 标题
- ✓ AU = 作者
- ✓ AI = 作者标识号
- ✓ ED = 编者
- ✓ GP = 团体作者
- ✓ SO = 出版物名称
- ✓ DO = DOI

例：

TS = “proton accelerator”

SO = Nature*

AD = Tsinghua Univ*

PY = 1987

….

1.4 Web of Science 核心合集—高级检索

- 自己组配组号来构建检索式
- 可以直接对组号进行操作：例如：#1 not #2

检索历史:

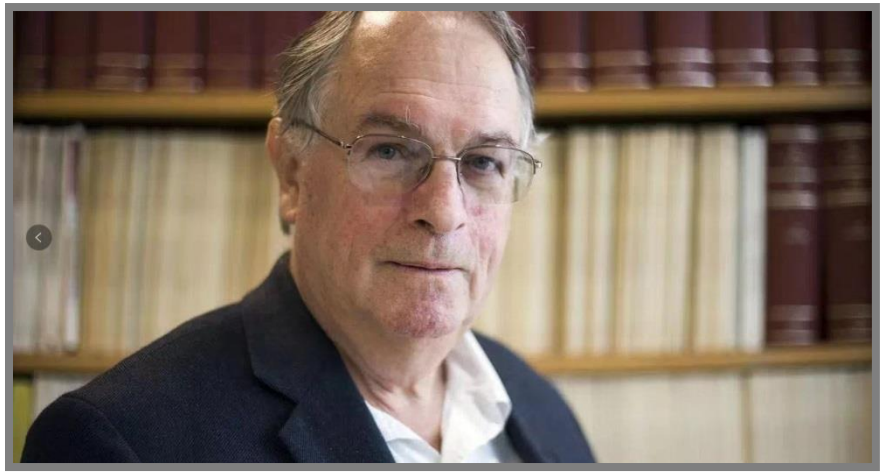
检索式	检索结果	保存历史/创建跟踪 打开保存的检索历史	编辑检索式	组配检索式 AND OR 组配	删除检索式 全选 删除
# 2	105	AI=F-2504-2016 *索引=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC 时间跨度=所有年份*	编辑	☐	☐
# 1	3,667	AD=((tsinghua or tsing hua or qinghua or qing hua) univ* same (Engn* phys*)) *索引=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC 时间跨度=所有年份*	编辑	☐	☐
				AND OR 组配	全选 删除

AND OR NOT

- 检索实例 (1)

2019年度诺贝尔化学奖 (北京时间10月9日下午5点45分)

美国德州大学奥斯汀分校机械工程系教授
John B Goodenough



纽约州立大学Binghamton分校化学和材料科学与工程教授
M. Stanley Whittingham

旭化成公司研究员，京都大学大学院工学研究专业特命教授
吉野彰 (Akira Yoshino)

表彰他们在锂电池研究开发方面的卓越贡献。

检索举例：诺贝尔化学奖得主 John B Goodenough

作者识别号：0000-0001-9350-3034

选择数据库 Web of Science 核心合集

基本检索 作者检索 BETA 被引参考文献检索 高级检索 化学结构检索

使用字段标识、布尔运算符、括号和检索结果集来创建检索式。结果显示在页面底部的 "检索历史" 中。(了解高级检索)

示例: TS=(nanotub* AND carbon) NOT AU=Smalley RE
#1 NOT #2 更多示例 | 查看教程

AI=0000-0001-9350-3034

检索

通过语种和文献类型限制检索结果:

All languages	All document types
English	Article
Afrikaans	Abstract of Published Item
Arabic	Art Exhibit Review

布尔运算符: AND、OR、NOT、SAME、NEAR

字段标识:

TS= 主题	SA= 街道地址
TI= 标题	CI= 城市
AU= 作者 [索引]	PS= 省/州
AI= 作者识别号	CU= 国家/地区
GP= 团体作者 [索引]	ZP= 邮政编码
ED= 编者	FO= 基金资助机构
SO= 出版物名称 [索引]	FG= 授权号
DO= DOI	FT= 基金资助信息
PY= 出版年	SU= 研究方向
CF= 会议	WC= Web of Science 分类
AD= 地址	IS= ISSN/ISBN
OG= 机构扩展 [索引]	UT= 入藏号
OO= 机构	PMID= PubMed ID
SG= 下属机构	ALL= 所有字段
AB= 摘要	
AK= 作者关键词	
KP= Keyword Plus ®	

Web of Science

Clarivate Analytics

检索结果: 762
(来自 Web of Science 核心合集)

您的检索: 作者识别号: (0000-0001-9350-3034) **...更多内容**

创建跟踪

精炼检索结果

在如下结果集内检索...

过滤结果依据:

- 领域中的高被引论文 (24)
- 开放获取 (71)
- 相关数据 (7)

精炼

出版年

- 2021 (2)

排序方式: 日期 被引频次 使用次数 相关性 更多

选择页面 导出... 添加到标记结果列表

分析检索结果
创建引文报告

1. Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries
作者: Griffith, Kent J.; Harada, Yasuhiro; Egusa, Shun; 等.
CHEMISTRY OF MATERIALS **卷:** 33 **期:** 1 **页:** 4-18 **出版年:** JAN 12 2021
查看摘要
被引频次: 0 *(来自 Web of Science 的核心合集)*
使用次数

2. Charge Disproportionation and Complex Magnetism in a PbMnO3 Perovskite Synthesized under High Pressure
作者: Li, Xiang; Hu, Zhiwei; Cho, Yujin; 等.
CHEMISTRY OF MATERIALS **卷:** 33 **期:** 1 **页:** 92-101 **出版年:** JAN 12 2021
查看摘要
被引频次: 0 *(来自 Web of Science 的核心合集)*
使用次数

3. Structural and Electrochemical Consequences of Sodium in the Transition-Metal Layer of O ' 3-Na3Ni1.5TeO6
作者: Grundish, Nicholas S.; Seymour, Ieuan D.; Li, Yutao; 等.
CHEMISTRY OF MATERIALS **卷:** 32 **期:** 23 **页:** 10035-10044 **出版年:** DEC 8 2020
被引频次: 0 *(来自 Web of Science 的核心合集)*
使用次数

诺贝尔化学奖得主 John B Goodenough-18篇综述文献

精炼

Web of Science 类别

- MATERIALS SCIENCE MULTIDISCIPLINARY (308)
- CHEMISTRY PHYSICAL (243)
- PHYSICS CONDENSED MATTER (216)
- PHYSICS APPLIED (209)
- ELECTROCHEMISTRY (99)

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5. A New Type of Electrolyte System To Suppress Polysulfide Dissolution for Lithium Sulfur Battery

作者: Yang, Tingzhou; Qian, Tao; Liu, Jie; 等.
ACS NANO 卷: 13 期: 8 页: 9067-9073 出版年: AUG 2019

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6. Electrochemical Performance of Large-Grained NaCrO2 Cathode Materials for Na-Ion Batteries Synthesized by Decomposition of Na2Cr2O7 center dot 2H(2)O

作者: Wang, Yong; Li, Wei; Hu, Guorong; 等.
CHEMISTRY OF MATERIALS 卷: 31 期: 14 页: 5214-5223 出版年: JUL 23 2019

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7. Superior Oxygen Electrocatalysis on Nickel Indium Thiospinels for Rechargeable Zn-Air Batteries

作者: Fu, Gengtao; Wang, Yu; Tang, Yawen; 等.
ACS MATERIALS LETTERS 卷: 1 期: 1 页: 123-131 出版年: JUL 2019

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使用次数

8. A High-Performance All-Solid-State Sodium Battery with a Poly(ethylene oxide)-Na3Zr2Si2PO12 Composite Electrolyte

作者: Yu, Xingwen; Xue, Leigang; Goodenough, John B.; 等.
ACS MATERIALS LETTERS 卷: 1 期: 1 页: 132-138 出版年: JUL 2019

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被引频次: 7
(来自 Web of Science 的核心合集)

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9. Low-Temperature Performance of a Ferroelectric Glass Electrolyte Rechargeable Cell

作者: Braga, M. H.; Murchison, A. J.; Oliveira, J. E.; 等.
ACS APPLIED ENERGY MATERIALS 卷: 2 期: 7 页: 4943-4953 出版年: JUL 2019

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1. Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries
作者: Griffith, Kent J.; Harada, Yasuhiro; Egusa, Shun; 等.
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2. Charge Disproportionation and Complex Magnetism in a PbMnO3 Perovskite Synthesized under High Pressure
作者: Li, Xiang; Hu, Zhiwei; Cho, Yujin; 等.
CHEMISTRY OF MATERIALS **卷:** 33 **期:** 1 **页:** 92-101 **出版年:** JAN 12 2021
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3. Structural and Electrochemical Consequences of Sodium in the Transition-Metal Layer of O ' 3-Na3Ni1.5TeO6
作者: Grundish, Nicholas S.; Seymour, Ieuan D.; Li, Yutao; 等.
CHEMISTRY OF MATERIALS **卷:** 32 **期:** 23 **页:** 10035-10044 **出版年:** DEC 8 2020

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被引频次: 6,082 *(来自 Web of Science 的核心合集)*
高被引论文
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2. Phospho-olivines as positive-electrode materials for rechargeable lithium batteries
作者: Padhi, AK; Nanjundaswamy, KS; Goodenough, JB
JOURNAL OF THE ELECTROCHEMICAL SOCIETY **卷:** 144 **期:** 4 **页:** 1188-1194 **出版年:** APR 1997
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被引频次: 5,938 *(来自 Web of Science 的核心合集)*
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3. The Li-Ion Rechargeable Battery: A Perspective
作者: Goodenough, John B.; Park, Kyu-Sung
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY **卷:** 135 **期:** 4 **页:** 1167-1176 **出版年:** JAN 30 2013
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Challenges for Rechargeable Li Batteries

作者: Goodenough, JB (Goodenough, John B.)[1]; Kim, Y (Kim, Youngsik)[1]

隐藏 Web of Science ResearcherID 和 ORCID

作者	Web of Science ResearcherID	ORCID 号
Kim, Youngsik	B-3570-2014	
Biradar, Nirmala	AAY-2295-2020	
Goodenough, John Bannister		http://orcid.org/0000-0001-9350-3034

CHEMISTRY OF MATERIALS
卷: 22 **期:** 3 **页:** 587-603
DOI: 10.1021/cm901452z
出版年: FEB 9 2010
文献类型: Review
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作者识别号

摘要

The challenges for further development of Li rechargeable batteries for electric vehicles are reviewed. Most important is safety, which requires development of a nonflammable electrolyte with either a larger window between its lowest unoccupied molecular orbital (LUMO) and highest occupied molecular orbital (HOMO) or a constituent (or additive) that can develop rapidly a solid/electrolyte-interface (SEI) layer to prevent plating of Li on a carbon anode during a fast charge of the battery. A high Li(+)-ion conductivity (sigma(Li) > 10(-4) S/cm) in the electrolyte and across the electrode/ electrolyte interface is needed for a power battery. Important also is ail increase in the density of the stored energy, which is the product of the voltage and capacity of reversible Li insertion/extraction into/from the electrodes. It will be difficult to design a better anode than carbon, but carbon requires formation of an SEI layer, which involves an irreversible capacity loss. The design of a cathode composed of environmentally benign, low-cost materials that has its electrochemical potential pc well-matched to the HOMO of the electrolyte and allows access to two Li atoms per transition-metal cation would increase the energy density, but it is a daunting challenge. Two redox couples can be accessed where the cation redox couples are "pinned" at the top of the 0 2p bands, but to take advantage of this possibility, it must be realized in a framework structure that can accept more than one Li atom per transition-metal cation, Moreover, such a situation represents an intrinsic voltage limit of the cathode, and matching this limit to the HOMO of the electrolyte requires the ability to tune the intrinsic voltage limit. Finally, the chemical compatibility in the battery must allow a long service life.

关键词

KeyWords Plus: LITHIUM-ION BATTERIES; NANOCOMPOSITE POLYMER ELECTROLYTES; ELECTROCHEMICAL PROPERTIES; SECONDARY BATTERIES; CATHODE

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Challenges for Rechargeable Li

作者: Goodenough, JB (Goodenough, John B.)[1

隐藏 Web of Science ResearcherID 和 ORCID

作者	Web of Science
Kim, Youngsik	B-3570-2014
Biradar, Nirmala	AAY-2295-2020
Goodenough, John Bannister	

CHEMISTRY OF MATERIALS
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daunting challenge. Two redox couples can be ac
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limit. Finally, the chemical compatibility in the ba

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2013)
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Li-ion batteries: a review.
ENERGY & ENVIRONMENTAL SCIENCE
(2011)

Challenges for Rechargeable Li Batteries

作者: Goodenough, JB (Goodenough, John B.)[1]; Kim, Y (Kim, Youngsik)[1]

隐藏 Web of Science ResearcherID 和 ORCID

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作者识别号

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关键词

KeyWords Plus: LITHIUM-ION BATTERIES; NANOCOMPOSITE POLYMER ELECTROLYTES; ELECTROCHEMICAL PROPERTIES; SECONDARY BATTERIES; CATHODE

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作者: Adachi, GY; Imanaka, N; Aono, H
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3. Failure mechanism and improvement of the elevated temperature cycling of LiMn2O4 compounds through the use of the LiAlxMn2-xO4-zFz solid solution
作者: Amatucci, GG; Pereira, N; Zheng, T; 等.
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作者: Appetecchi, GB; Croce, F; Marassi, R; 等.
ELECTROCHIMICA ACTA 卷: 45 期: 1-2 页: 23-30 出版年: 1999
查看摘要
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5. Nanostructured materials for advanced energy conversion and storage devices
作者: Arico, AS; Bruce, P; Scrosati, B; 等.
NATURE MATERIALS 卷: 4 期: 5 页: 366-377 出版年: MAY 2005
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6. Poly-ethers as solid electrolytes (查看 Inspec 中的记录)
作者: Armand, M.B.; Chabagno, J.M.; Duclot, M.J.
会议: Fast Ion Transport in Solids. Electrodes and Electrolytes 会议地点: Lake Geneva, WI, USA 会议日期: 21-25 May 1979
Fast Ion Transport in Solids. Electrodes and Electrolytes 页: 131-6 出版年: 1979
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作者: AURBACH D
ADV LITHIUM ION BATT 页: CH1 出版年: 2002
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作者: Aurbach, D
会议: Solid State Lithium Battery Workshop 会议地点: TOWSON, MD 会议日期: JUL, 1999
被引频次: 1,397
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Nanostructured materials for advanced energy conversion and storage devices

作者: Arico, AS (Arico, AS); Bruce, P (Bruce, P); Scrosati, B (Scrosati, B); Tarascon, JM (Tarascon, JM); Van Schalkwijk, W (Van Schalkwijk, W)
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NATURE MATERIALS
卷: 4 期: 5 页: 366-377
DOI: 10.1038/nmat1368
出版年: MAY 2005
文献类型: Review
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摘要

New materials hold the key to fundamental advances in energy conversion and storage, both of which are vital in order to meet the challenge of global warming and the finite nature of fossil fuels. Nanomaterials in particular offer unique properties or combinations of properties as electrodes and electrolytes in a range of energy devices. This review describes some recent developments in the discovery of nanoelectrolytes and nanoelectrodes for lithium batteries, fuel cells and supercapacitors. The advantages and disadvantages of the nanoscale in materials design for such devices are highlighted.

关键词

KeyWords Plus: CRYSTALLINE POLYMER ELECTROLYTES; HYDROGEN SORPTION PROPERTIES; LITHIUM-ION BATTERIES; METHANOL FUEL-CELLS; CARBON NANOTUBES; OXYGEN REDUCTION; HIGH-CAPACITY; ELECTROCHEMICAL PROPERTIES; INTERCALATION ELECTRODES; NANOSCALE MATERIALS

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+ [3] Univ St Andrews, Sch Chem, St Andrews KY16 9ST, Fife, Scotland
+ [4] Univ Picardie Jules Verne, LRCS, CNRS, UMR 6047, F-80039 Amiens, France

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A review of electrode materials for electrochemical supercapacitors.
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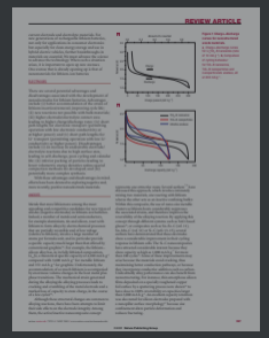

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REVIEW ARTICLE

Nanostructured materials for advanced energy conversion and storage devices

New materials hold the key to fundamental advances in energy conversion and storage, both of which are vital in order to meet the challenge of global warming and the finite nature of fossil fuels. Nanomaterials in particular offer unique properties or combinations of properties as electrodes and electrolytes in a range of energy devices. This review describes some recent developments in the discovery of nanoelectrolytes and nanoelectrodes for lithium batteries, fuel cells and supercapacitors. The advantages and disadvantages of the nanoscale in materials design for such devices are highlighted.

ANTONINO SALVATORE ARICÒ[1], PETER BRUCE[2], BRUNO SCROSATI[3]*, JEAN-MARIE TARASCON[4] AND WALTER VAN SCHALKWIJK[5]

[1]Istituto CNR-ITAE, 98126 S. Lucia, Messina, Italy

need only consider the staggering developments in microelectronics to appreciate the potential of materials with reduced dimensions. Nanostructured materials are becoming increasingly important for electrochemical energy storage[1,2]. Here we address this topic. It is important to appreciate the advantages and disadvantages of nanomaterials for energy conversion and storage, as well as how to control their synthesis

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1. Electrical Energy Storage for the Grid: A Battery of Choices
作者: Dunn, Bruce; Kamath, Haresh; Tarascon, Jean-Marie
SCIENCE 卷: 334 期: 6058 页: 928-935 出版年: NOV 18 2011
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2. Electrochemical Energy Storage for Green Grid
作者: Yang, Zhenguo; Zhang, Jianlu; Kintner-Meyer, Michael C. W.; 等.
CHEMICAL REVIEWS 卷: 111 期: 5 页: 3577-3613 出版年: MAY 2011

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3. Na-ion batteries, recent advances and present challenges to become low cost energy storage systems
作者: Palomares, Veronica; Serras, Paula; Villaluenga, Irune; 等.
ENERGY & ENVIRONMENTAL SCIENCE 卷: 5 期: 3 页: 5884-5901 出版年: MAR 2012
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Electrical Energy Storage for the Grid: A Battery of Choices

作者: Dunn, B (Dunn, Bruce)[1,2]; Kamath, H (Kamath, Haresh)[3]; Tarascon, JM (Tarascon, Jean-Marie)[4,5]

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SCIENCE
卷: 334 期: 6058 页: 928-935
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文献类型: Review
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摘要

The increasing interest in energy storage for the grid can be attributed to multiple factors, including the capital costs of managing peak demands, the investments needed for grid reliability, and the integration of renewable energy sources. Although existing energy storage is dominated by pumped hydroelectric, there is the recognition that battery systems can offer a number of high-value opportunities, provided that lower costs can be obtained. The battery systems reviewed here include sodium-sulfur batteries that are commercially available for grid applications, redox-flow batteries that offer low cost, and lithium-ion batteries whose development for commercial electronics and electric vehicles is being applied to grid storage.

关键词

KeyWords Plus: ELECTRODE MATERIALS; LITHIUM; LI; CHALLENGES; TRANSPORT; CELLS

作者信息

通讯作者地址:
University of California System University of California Los Angeles Univ Calif Los Angeles, Dept Mat Sci & Engn, Los Angeles, CA 90095 USA.
通讯作者地址: Dunn, B (通讯作者)

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NATURE (2001)

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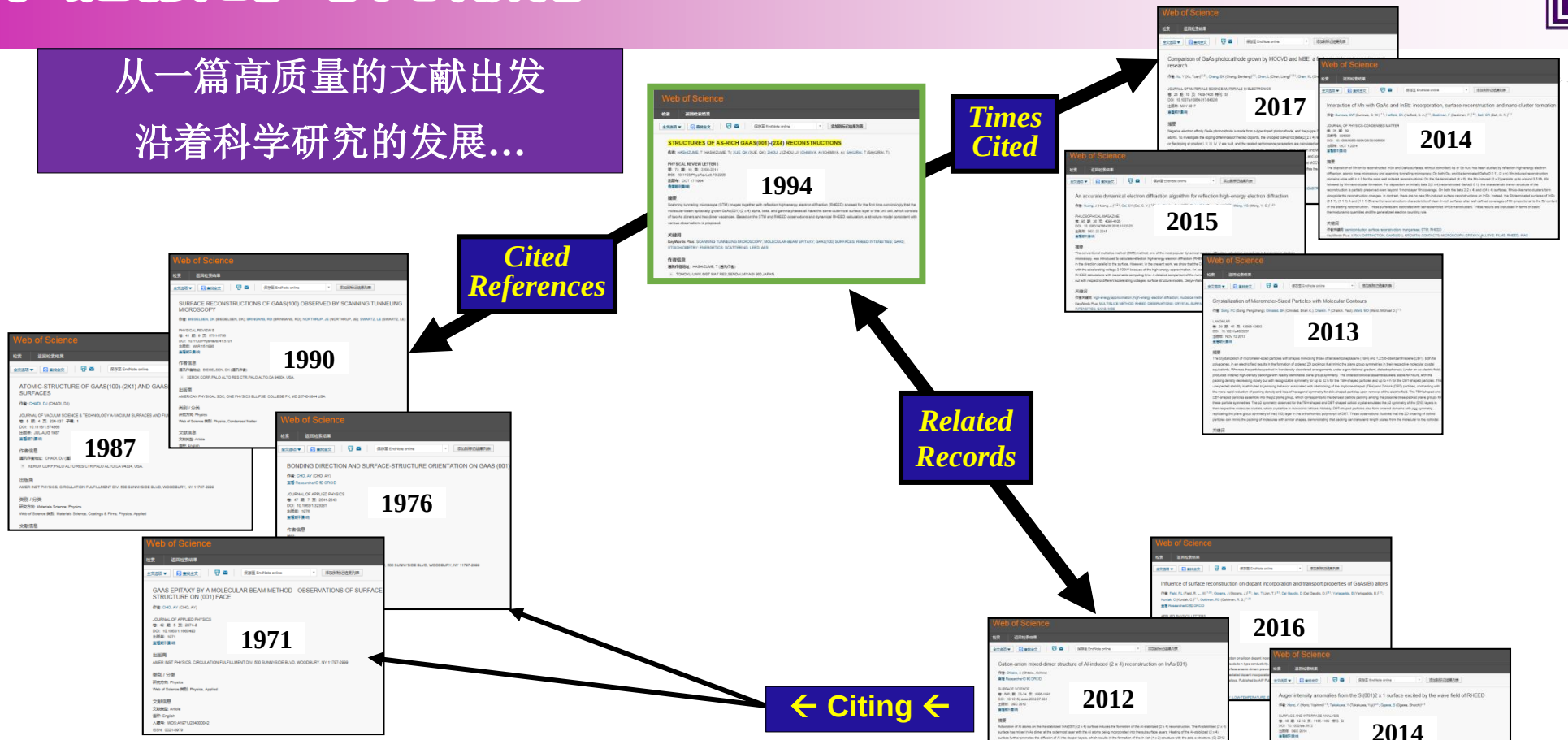

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1. Rietveld analysis software for J-PARC
作者: Oishi, R.; Yonemura, M.; Nishimaki, Y.; 等.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT **卷:** 600 **期:** 1 **页:** 94-96 **出版年:** FEB 21 2009
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2. Nucleon resonances within a dynamical coupled-channels model of pi N and gamma N reactions
作者: Kamano, H.; Nakamura, S. X.; Lee, T. -S. H.; 等.
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3. T2K neutrino flux prediction
作者: Abe, K.; Abgrall, N.; Aihara, H.; 等.
团体作者: T2K Collaboration
PHYSICAL REVIEW D **卷:** 87 **期:** 1 **文献号:** 012001 **出版年:** JAN 2 2013
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4. Energetic particle events: Efficiency of interplanetary shocks as 50keV < E < 100MeV proton accelerators
作者: Lario, D; Sanahuja, B; Heras, AM
ASTROPHYSICAL JOURNAL **卷:** 509 **期:** 1 **页:** 415-434 **子辑:** 1 **出版年:** DEC 10 1998
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作者: Kobayashi, Tomohiro; Ikeda, Shota; Otake, Yoshie; 等.
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作者: Verhaegen, Frank; Wanders, Roel-Germ; Wolfs, Cecile; 等.
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4. Development of an in Situ(3)He NSF Using SEOP Technique with an Evaluation System for the Pulsed Neutron Source

作者: Okudaira, T.; Oku, T.; Sakai, K.; 等.

JOURNAL OF SURFACE INVESTIGATION 卷: 14 期: SUPPL 1 增刊: 1 页: S165-S168 出版年: OCT 2020

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5. In Situ Observation for Deformation-Induced Martensite Transformation (DIMT) during Tensile Deformation of 304 Stainless Steel Using Neutron Diffraction. PART I: Mechanical Response

作者: Onuki, Yusuke; Sato, Shigeo

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6. Phase Stress Measurement of Centrifugally Cast Duplex Stainless Steel by Neutron Diffraction

作者: Wang, Yun

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7. SliT: A Strip-Sensor Readout Chip With Subnanosecond Time Walk for the J-PARC Muon g-2/EDM Experiment

作者: Kishishita, Tetsuichi; Sato, Yutaro; Fujita, Yoichi; 等.

IEEE TRANSACTIONS ON NUCLEAR SCIENCE 卷: 67 期: 9 页: 2089-2095 出版年: SEPT 2020

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8. Measurement of the Neutron Energy Spectra by Using Organic Scintillators at the Beam Dump of the 100-MeV Proton Linear Accelerator in the KOMAC

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8. **Water leakage due to the welding defect and improvement to reach 1-MW beam operation in the mercury target of J-PARC**

作者: Kogawa, Hiroyuki; Wakui, Takashi; Naoe, Takashi; 等.
JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY
在线发表日期: JAN 2020

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9. **Prediction of proton single event upset sensitivity based on heavy ion test data in nanometer hardened static random access memory**

作者: Luo Yin-Hong; Zhang Feng-Qi; Guo Hong-Xia; 等.
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10. **Beam commissioning of the first compact proton therapy system with spot scanning and dynamic field collimation**

作者: Vilches-Freixas, Gloria; Unipan, Mirko; Rinaldi, Ilaria; 等.
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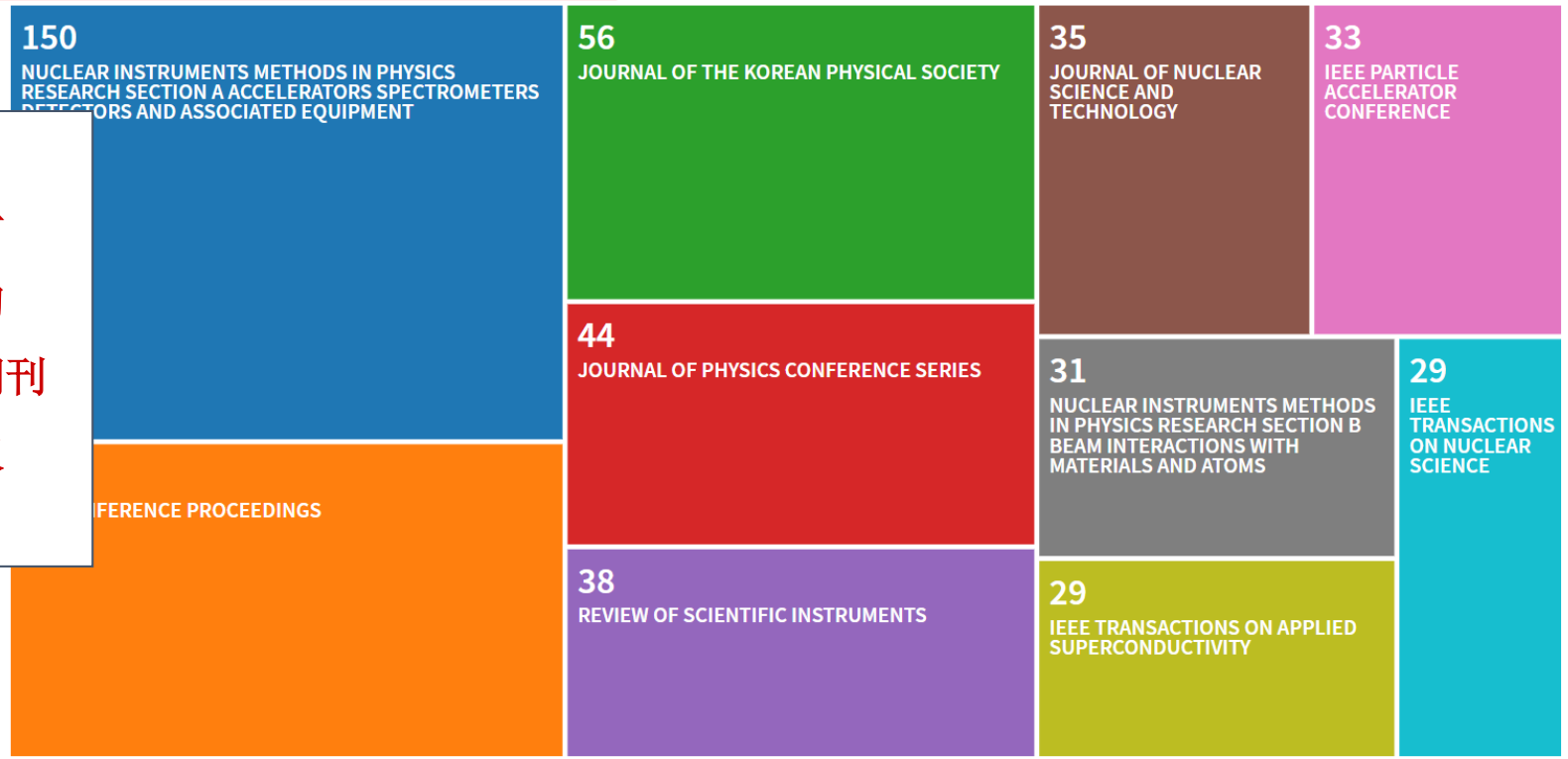

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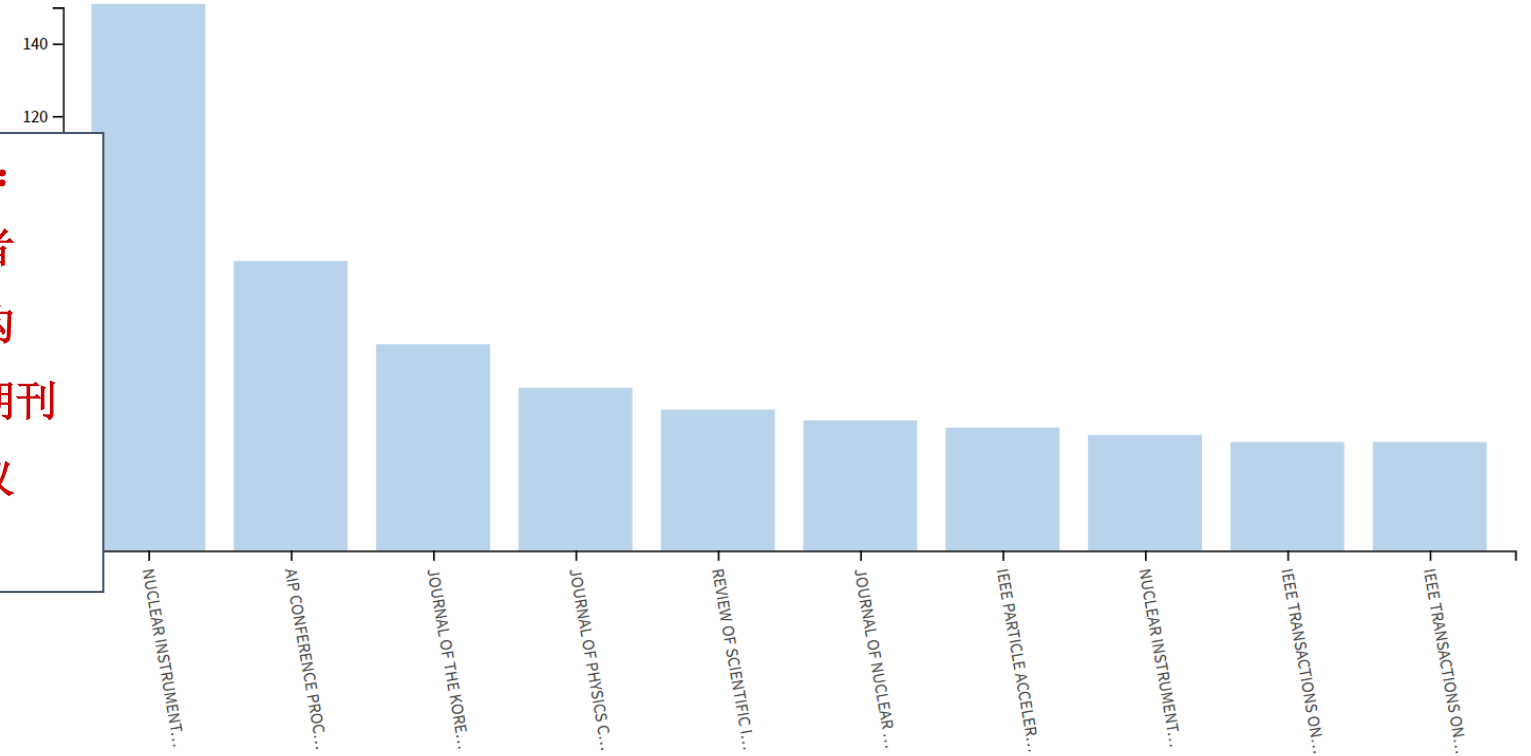

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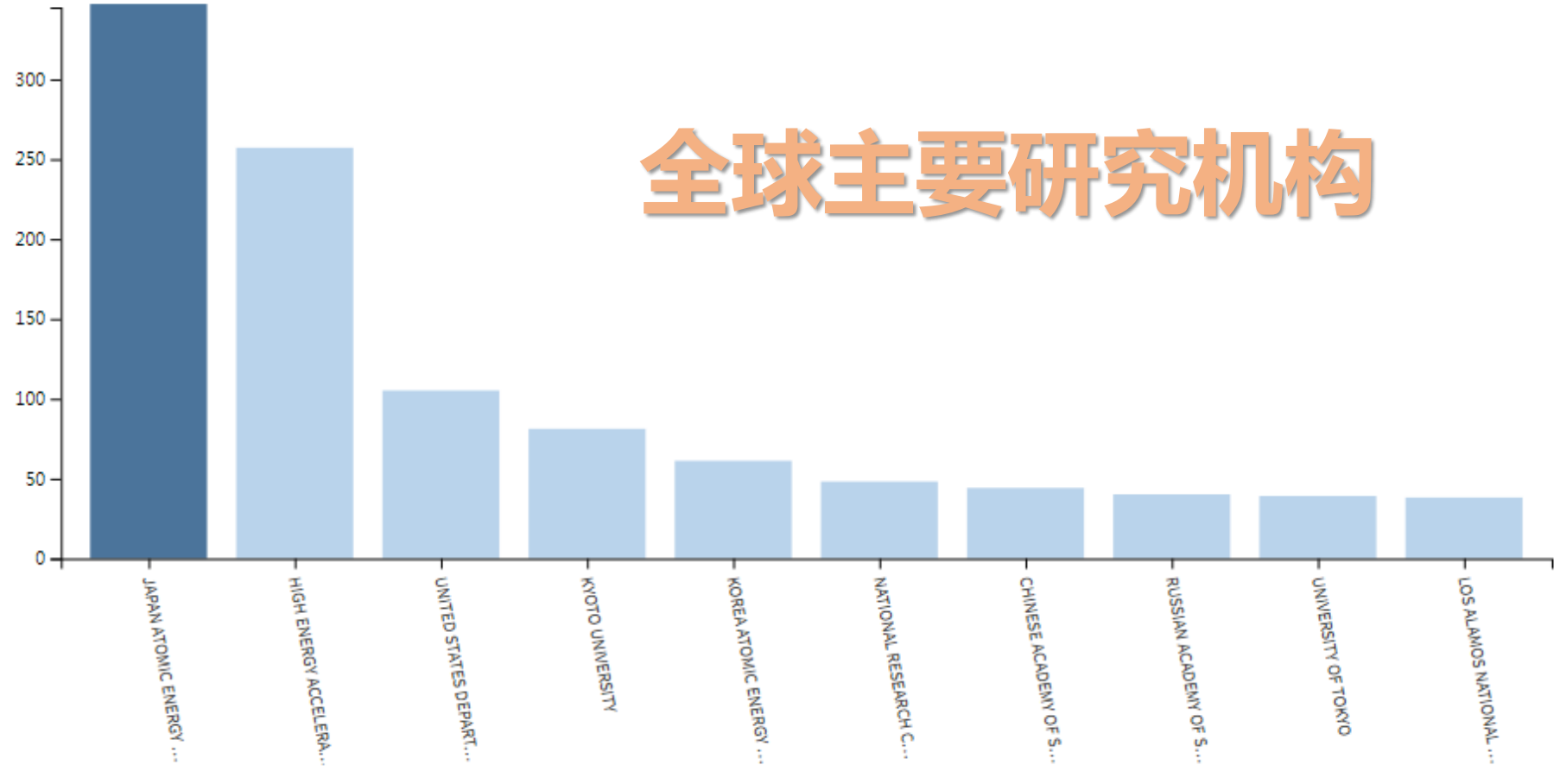

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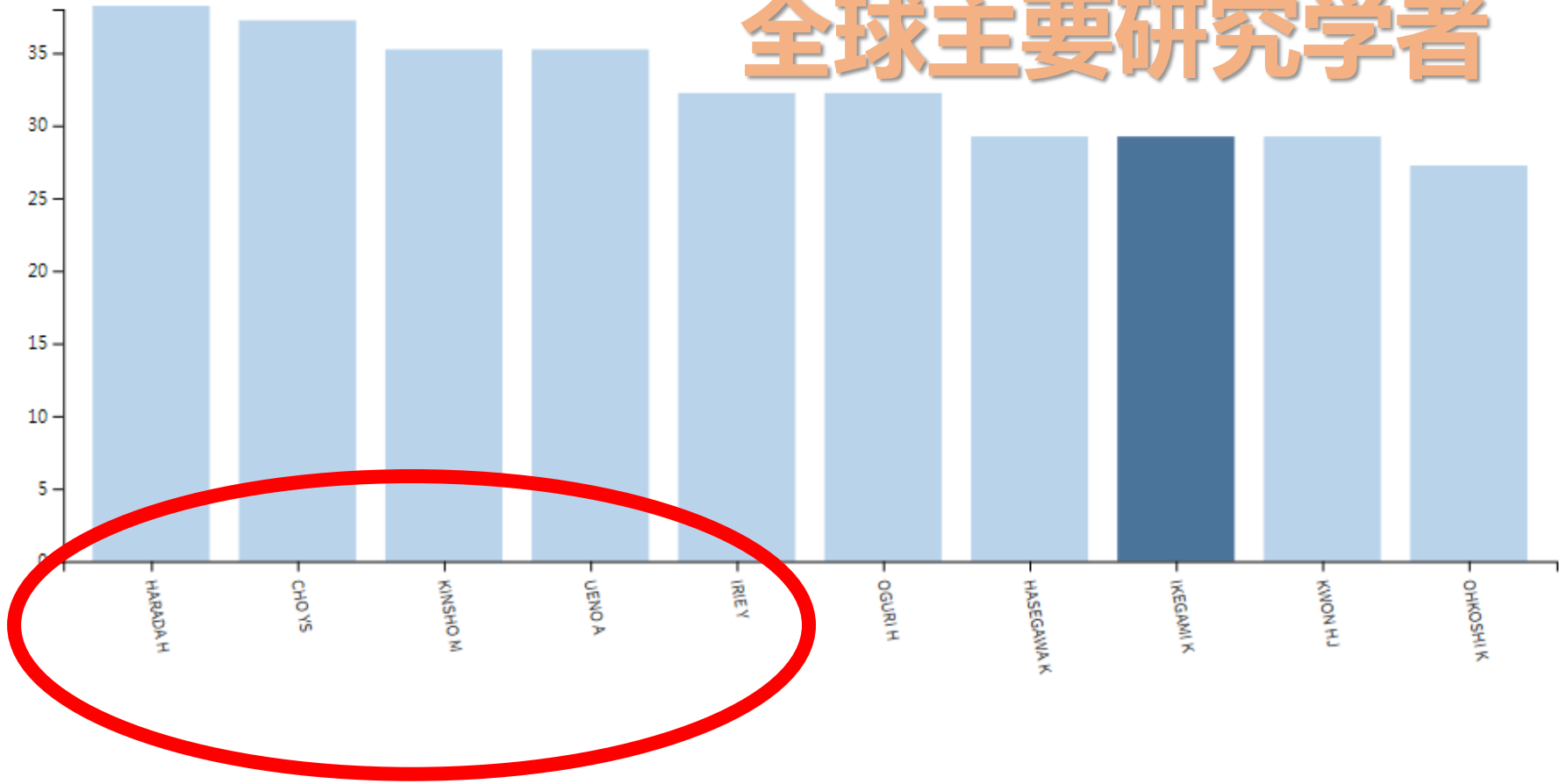

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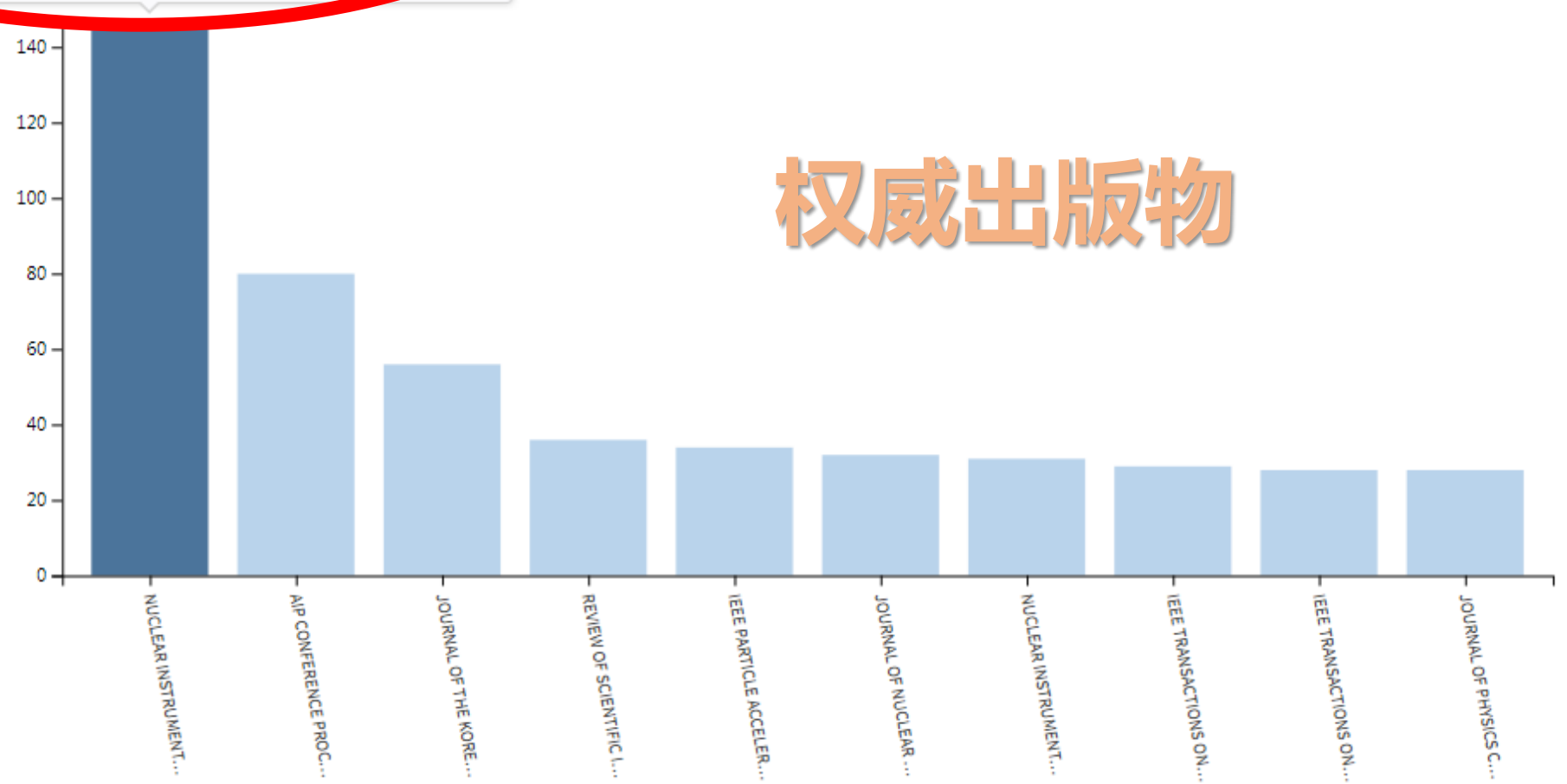

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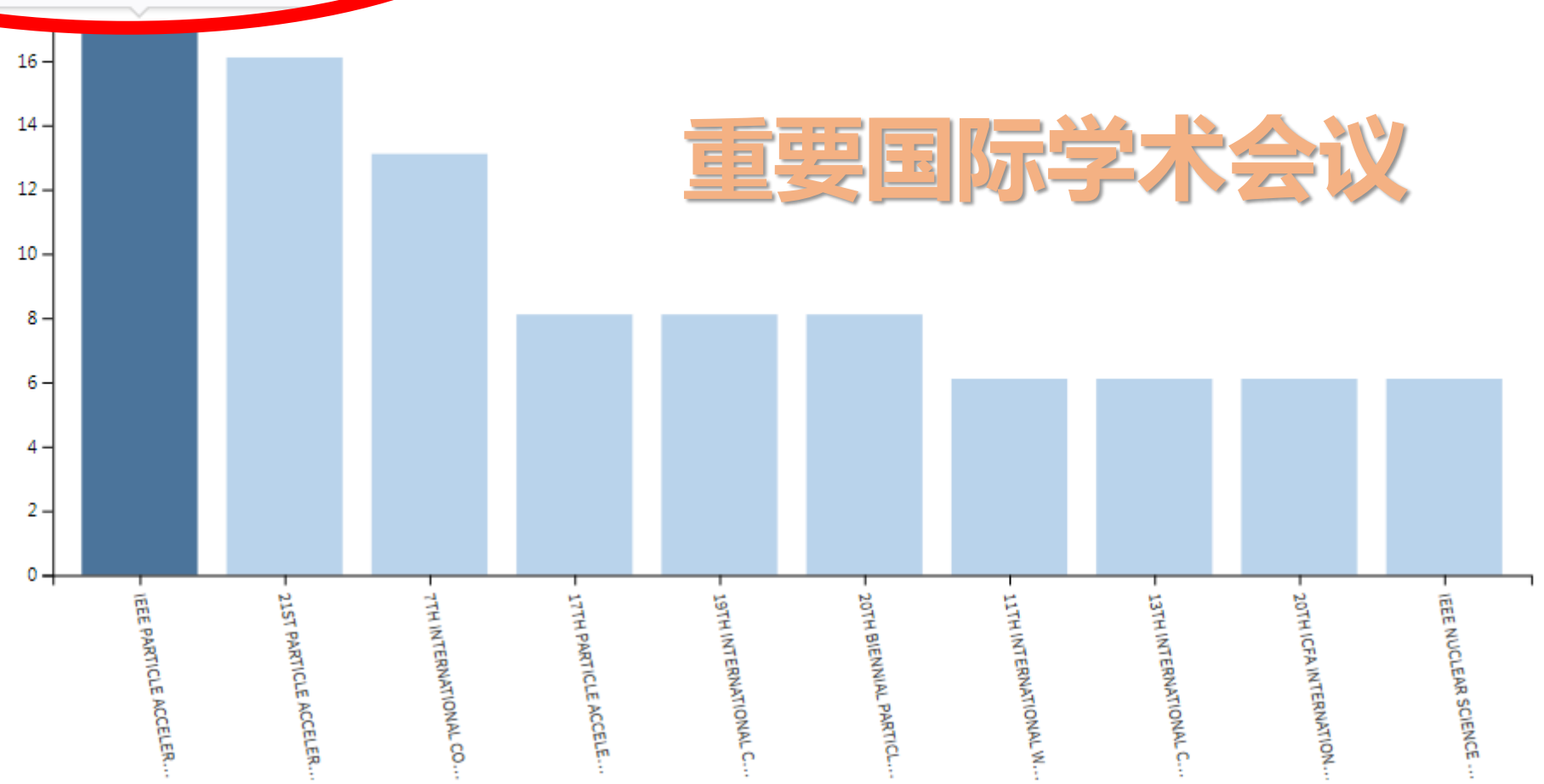


重要国际学术会议

检索实例 (2)

➢ 检索质子加速器最近研究进展

核心概念

“Proton accelerator”

Proton line accelerator
Proton beam accelerator
Proton circular accelerator
Proton electrostatic accelerator……

Proton near/1 accelerator

检索式： (proton near/1 accelerator) or (proton near/1 **sychrotron**) or (proton near/1 **cyclotron**) or (proton near/1 **linac**)

• 创建引文报告 - 检索结果引用情况进行分析

对出版物的时间分布、*h*-index、被引频次总计、施引文献以及按年份的被引频次统计等作分析

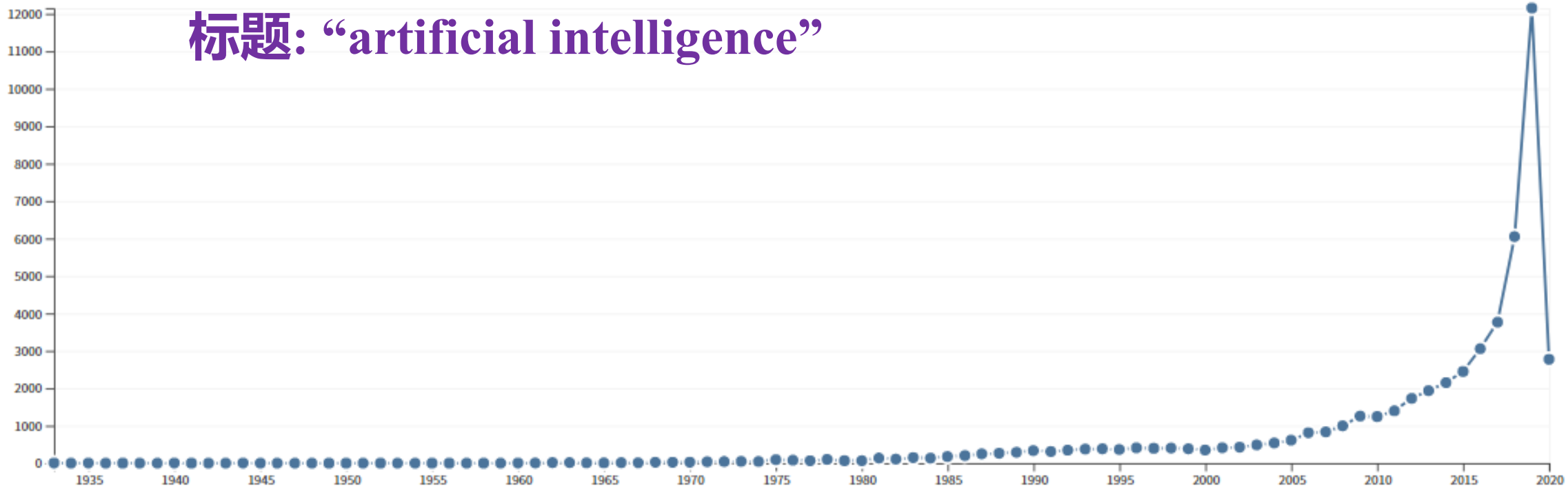
检索式： “artificial intelligence”

• 创建引文报告 - 检索结果引用情况进行分析

按年份的被引频次

检索结果分析，看“按年份的被引频次”-反映学科领域研究热度

标题: “artificial intelligence”



• 创建引文报告 - 检索结果引用情况进行分析

h - Index：

——评价研究人员科研绩效的**单项指标**

定义： *h* 篇文献已被引用至少 *h* 次

段文晖 H-4992-2011

Goodenough 0000-0001-9350-3034

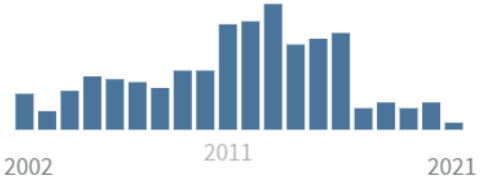
h-index

66

65.	High quality atomically thin PtSe2 films grown by molecular beam epitaxy 作者: Yan, Mingzhe; Wang, Eryin; Zhou, Xue; 等. 2D MATERIALS 卷: 4 期: 4 文献号: 045015 出版年: DEC 2017	3	12	24	28	3	70	14.00
66.	Microscopic origin of the p-type conductivity of the topological crystalline insulator SnTe and the effect of Pb alloying 作者: Wang, Na; West, Damien; Liu, Junwei; 等. PHYSICAL REVIEW B 卷: 89 期: 4 文献号: 045142 出版年: JAN 31 2014	9	7	15	11	2	69	8.63
67.	Enhanced performance of lithium-sulfur batteries with an ultrathin and lightweight MoS2/carbon nanotube interlayer 作者: Yan, Lingjia; Luo, Nannan; Kong, Weibang; 等. JOURNAL OF POWER SOURCES 卷: 389 页: 169-177 出版年: JUN 15 2018	0	6	31	26	1	64	16.00
68.	Giant room-temperature spin caloritronics in spin-semiconducting graphene nanoribbons 作者: Chen, Xiaobin; Liu, Yizhou; Gu, Bing-Lin; 等. PHYSICAL REVIEW B 卷: 90 期: 12 文献号: 121403 出版年: SEP 22 2014	11	9	17	14	0	64	8.00

出版物总数

762 分析



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138

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65,676 分析

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65,045 分析

137.	Spinel materials for high-voltage cathodes in Li-ion batteries 作者: Liu, D.; Zhu, W.; Trottier, J.; 等. RSC ADVANCES 卷: 4 期: 1 页: 154-167 出版年: 2014	24	16	14	19	7	138	17.25
138.	HIGH-PRESSURE STUDY OF FIRST-ORDER PHASE TRANSITION IN MNAS 作者: GOODENOU.JB; KAFALAS, JA PHYSICAL REVIEW 卷: 157 期: 2 页: 389 -& 出版年: 1967	6	0	0	0	0	138	2.51
139.	Trapping lithium polysulfides of a Li-S battery by forming lithium bonds in a polymer matrix 作者: Park, Kyusung; Cho, Joon Hee; Jang, Ji-Hoon; 等. ENERGY & ENVIRONMENTAL SCIENCE 卷: 8 期: 8 页: 2389-2395 出版年: 2015	27	25	30	23	6	136	19.43
140.	Unsupported claims of ultrafast charging of LiFePO4 Li-ion batteries 作者: Zaghib, K.; Goodenough, J. B.; Mauger, A.; 等. JOURNAL OF POWER SOURCES 卷: 194 期: 2 特刊: SI 页: 1021-1023 出版年: DEC 1 2009	11	4	3	4	0	136	10.46

检索实例 (3)

- 检索铂纳米材料研究进展

核心概念

检索词 → 隐含概念挖掘
考虑全称、简称

运算符 → 截词符的使用

1.4 WOS核心合集–被引参考文献检索

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1.4 WOS核心合集–被引参考文献检索

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- **文章**在哪些时间被引用？
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保存的检索历史

引文跟踪

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(2) 引文跟踪

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保存的检索历史

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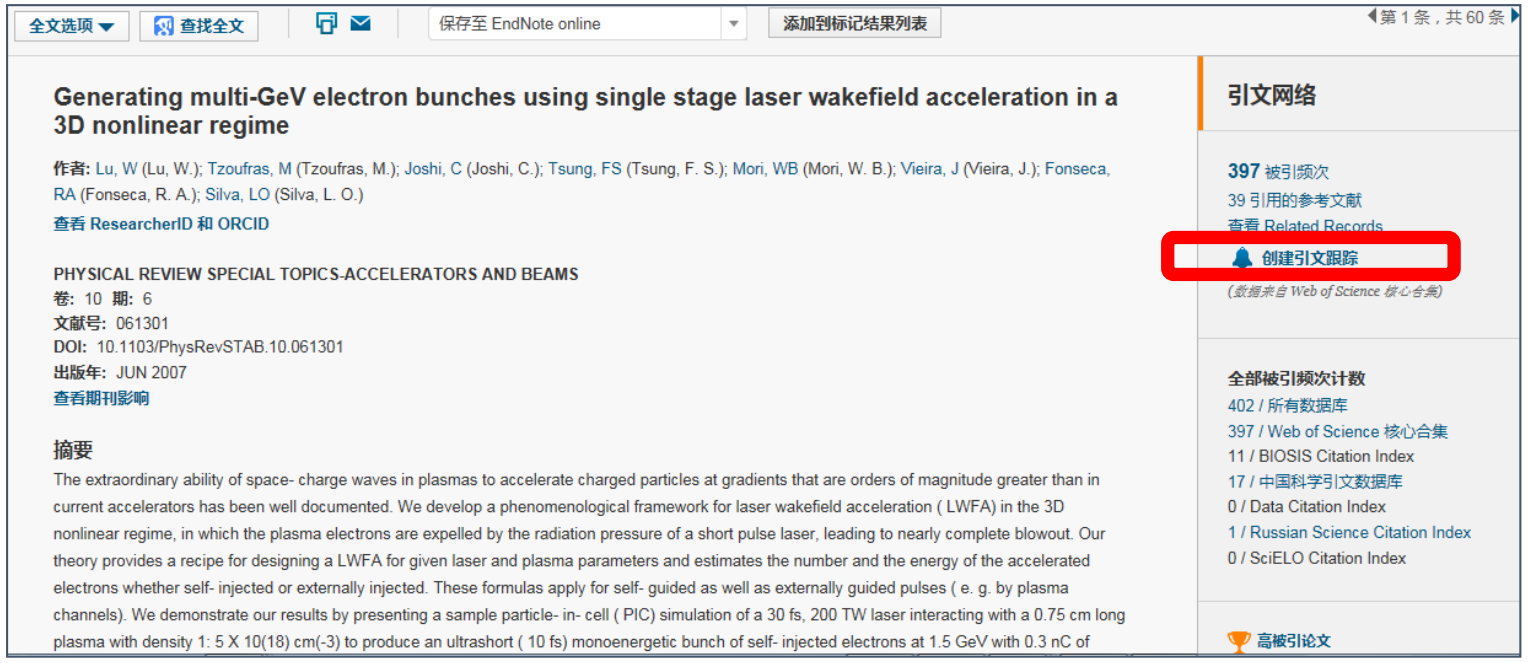

(2) 保存检索历史跟踪

引文跟踪

保存的检索历史

如何创建跟踪

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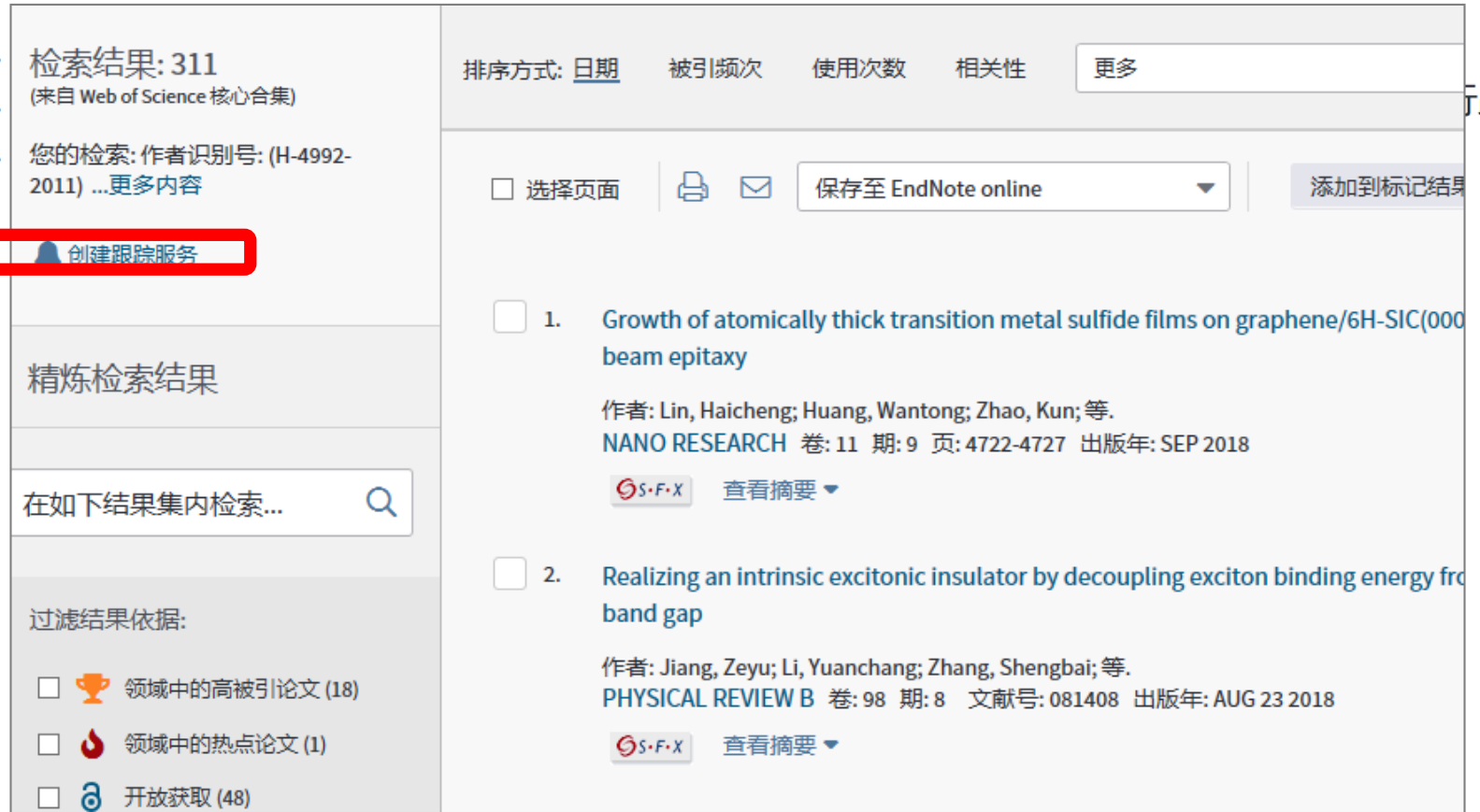

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精炼

出版年

- 2021 (2)

排序方式: 日期 被引频次 使用次数 相关性 更多

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分析检索结果
创建引文报告

1. Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries
作者: Griffith, Kent J.; Harada, Yasuhiro; Egusa, Shun; 等.
CHEMISTRY OF MATERIALS **卷:** 33 **期:** 1 **页:** 4-18 **出版年:** JAN 12 2021
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2. Charge Disproportionation and Complex Magnetism in a PbMnO3 Perovskite Synthesized under High Pressure
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3. Structural and Electrochemical Consequences of Sodium in the Transition-Metal Layer of O ' 3-Na3Ni1.5TeO6
作者: Grundish, Nicholas S.; Seymour, Ieuan D.; Li, Yutao; 等.
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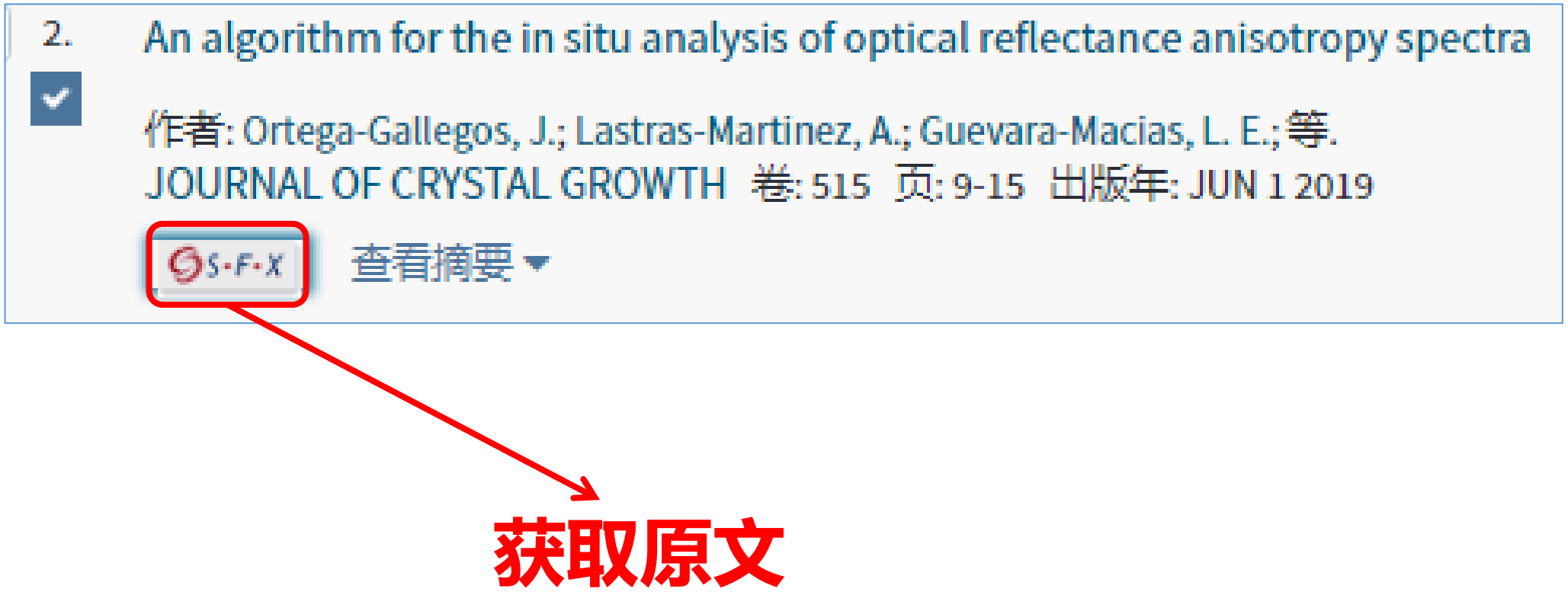

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An algorithm for the in situ analysis of optica anisotropy spectra

Lastras-Martinez, A.; Guevara-Macias, L. E.; Santiago Garc
Gallegos, J; Lastras-Martínez, A; Guevara-Macías, LE; Sant
Castro-García, R; López-Estopier, RE; Balderas-Navarro, R
ISSN: 0022-0248 , 1873-5002; **DOI:** 10.1016/j.jcrysgro.201
Journal of crystal growth , 2019, Vol.515, p.9-15

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Journal of Crystal Growth 515 (2019) 9–15

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An algorithm for the *in situ* analysis of optical reflectance anisotropy spectra

J. Ortega-Gallegos[a,*], A. Lastras-Martínez[a,*], L.E. Guevara-Macías[a], J.G. Santiago García[a], D. Ariza-Flores[a,b], R. Castro-García[a,b], R.E. López-Estopier[a,b], R.E. Balderas-Navarro[a], L.F. Lastras-Martínez[a]

[a] Instituto de Investigación en Comunicación Óptica, Universidad Autónoma de San Luis Potosí, Alvaro Obregón 64, San Luis Potosí, SLP 78000, Mexico
[b] CONACyT - Instituto de Investigación en Comunicación Óptica, Universidad Autónoma de San Luis Potosí, Alvaro Obregón 64, San Luis Potosí, SLP 78000, Mexico

ARTICLE INFO

Communicated by R.M. Biefeld

Keywords:
A1. Characterization
A1. Growth models
A1. Surface processes
A3. Molecular beam epitaxy
B2. Semiconducting gallium arsenide
B2. Semiconducting III-V materials

ABSTRACT

We report on a computer algorithm for the *in situ* analysis of reflectance anisotropy (RA) spectra in a time frame compatible with the epitaxial growth of cubic semiconductors. This algorithm allows for the *in situ* acquisition of RA spectra and their decomposition into two components whose amplitude depends on the As coverage of the semiconductor surface. One of such components is associated with the surface orthorhombic strain due to the surface reconstruction and has an amplitude that strongly depends with surface reconstruction and thus As coverage. This fact opens the possibility of using reflectance anisotropy spectroscopy (RAS) as an optical probe to characterize the As surface coverage in real time. To demonstrate the performance of the algorithm we report on RA measurements carried out during the homoepitaxial growth of GaAs (001). We show that the algorithm is capable of analyzing a set of 500 RA spectra in a time span of about 10 s. This allows for a range of applications for the developed algorithm, including the surface characterization and fine tuning of the substrate stoichiometry just before epitaxial growth, during the growth of the buffer layer.

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三、分析功能
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期刊跟踪
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Ei Compendex数据库介绍

Journal of Hydrology 582 (2020) 124462

Contents lists available at ScienceDirect

Journal of Hydrology

journal homepage: www.elsevier.com/locate/jhydrol

Research papers

Age- and climate- related water use patterns of apple trees on China's Loess Plateau

Shaofei Wang[a,b,1], Juan An[e,1], Xining Zhao[c,d,*], Xiaodong Gao[c,d], Pute Wu[c,d], Gaopeng Huo[a,b], Brett H. Robinson[f]

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[f] School of Physical and Chemical Sciences, University of Canterbury, New Zealand

ARTICLE INFO

This manuscript was handled by Corrado Corradini, Editor-in-Chief, with the assistance of Weiping Chen, Associate Editor

Keywords:
Water uptake patterns
Shallow soil water
Deep soil water
Stable isotopes
Artificial isotopes

ABSTRACT

The Loess Plateau of China is a major apple-cultivating region, but much of the Plateau is water-limited, and the expansion of apple-growing is putting pressure on soil water resources. Plants' water consumption patterns have been intensively studied to facilitate formulation of robust agricultural strategies, but previous studies have generally applied indirect methods to characterize their water use. Moreover, the few studies that have applied direct (isotopic) methods have mostly focused on shallow (0–200 cm) soil layers, usually in stands of a single age or single climatic region. To avoid these limitations, we have investigated the primary water sources of apple trees of three ages (10, 15 and 22 years) in semiarid and semihumid climatic regions of the Plateau using both natural stable isotopic signatures (δ^2H values) and injections of ^2H_2O into deep soil layers. We found that water content in apple orchards' soil decreased with increases in depth and stand age, and was higher in the semihumid area than in the semiarid area. Nevertheless, patterns of apple trees' water uptake from shallow (0–300 cm) soil layers were similar in the two climatic regions and the main water sources became shallower with increases in stand age. However, water uptake from deep (400–500 cm) soil layers was also detected, particularly in the blossom and young fruit stage in apple orchards of the semiarid area. Moreover, older trees absorbed more water from these layers than younger trees in the semiarid area (but not in the semihumid area) throughout the growing season. Excessive consumption of deep soil water inevitably results in deep soil drying and severely threatens the sustainability of apple cultivation. Our work suggests that it is necessary to take actions (e.g. supplementary irrigation, landscaping and mulching combinations) to reduce the proportion of deep soil water used by apple trees to prevent the development of dried soil layers. It also highlights the need to assess uptake patterns of plants at multiple developmental stages and ages to identify times when and places where interventions may be required or most effective.

题录信息

题名、作者、作者单位、来源出版物等

文摘信息

对文章内容作简略、准确的描述

什么是 Ei Compendex?

全称	简称	中文名
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- ✓ Ei 创刊于1884年10月。世界上享有盛誉的工程技术领域的**综合性文摘型数据库**;
- ✓ 文献侧重于**工程技术领域**的文献报道,基本不收录基础理论研究论文，是**工科**常用检索工具之一。
- ✓ 数据来源于高质量**期刊**和**会议**文集。3千种**工程类期刊**以及9万多种**会议录**. 数据每周更新。

Engineering Village

Search | Search History 0 | Alerts 1 | Selected records 0 | More

Quick search: All fields for e.g. (artificial intelligence OR intelligent computing) AND {social media}

AND All fields for e.g. (artificial intelligence OR intelligent computing) AND {social media}

Turn on AutoSuggest | + Add search field | Reset form

Databases | Date | Language | Document type | Sort by | Browse indexes | Autostemming | Discipline | Treatment

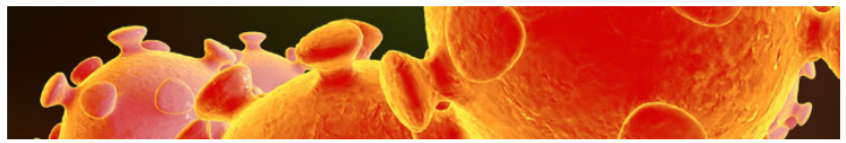
All | Compendex | Inspec Archive | CBNB

数据库选取

Standards and COVID-19

Standards development organizations are responding to the COVID-19 pandemic by providing free access to relevant standards, used by engineers, researchers, and manufacturers, such as those for PPE, respirators, medical devices, emergency management, and so forth.

- ASTM standards: https://www.astm.org/COVID-19/
- IEEE standards: https://innovate.ieee.org/covid-19_related_research/



Engineering Research Profile

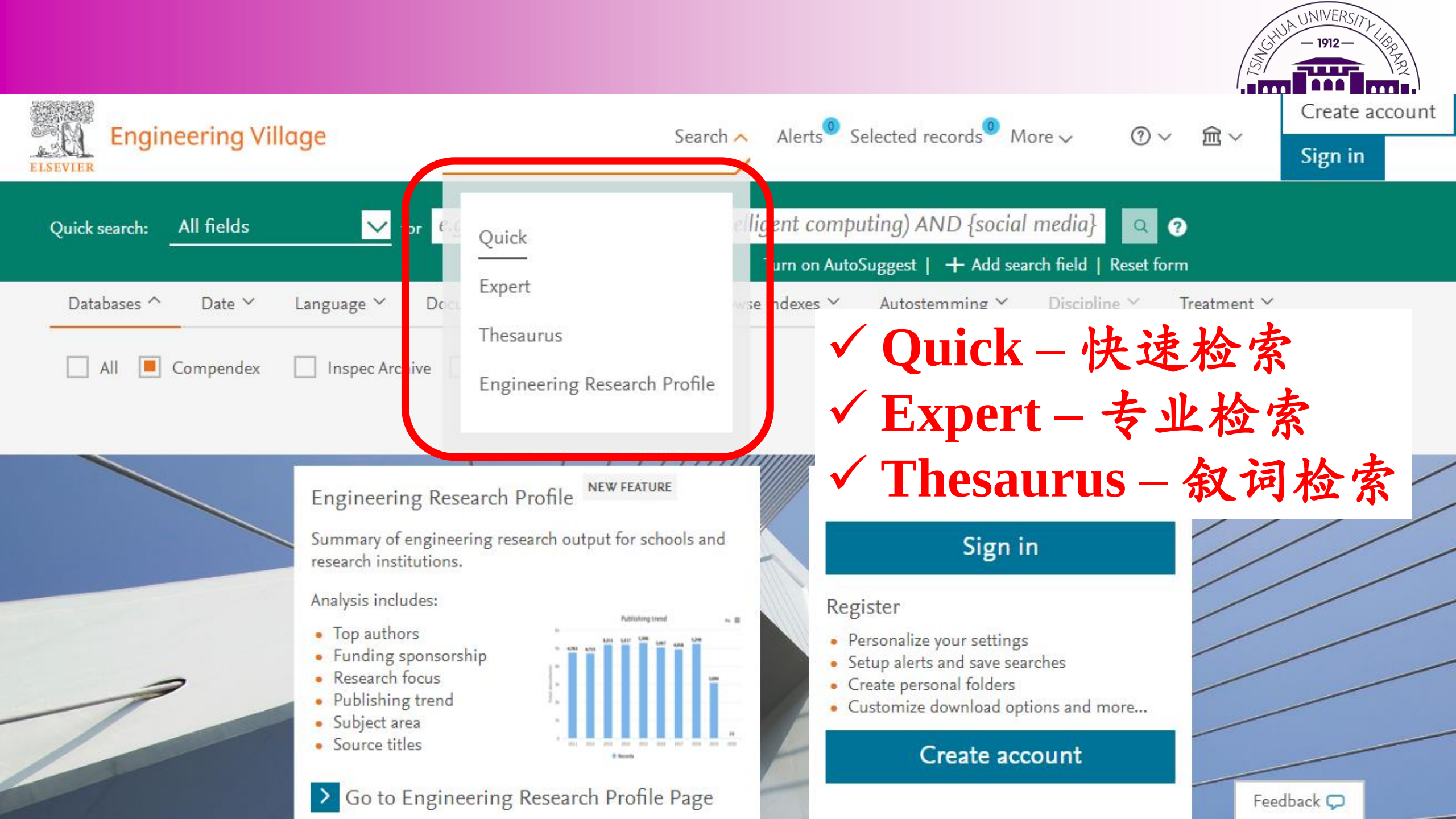
NEW FEATURE

Summary of engineering research output for schools and research institutions.

Analysis includes:

- Top authors
- Funding sponsorship
- Research focus
- Publishing trend
- Subject area
- Source titles

Go to Engineering Research Profile Page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— 1912 —
ELSEVIER
Engineering Village
Search
Alerts 0
Selected records 0
More
Create account
Sign in
Quick search:
All fields
Quick
Expert
Thesaurus
Engineering Research Profile
Turn on AutoSuggest | + Add search field | Reset form
Databases
Date
Language
Autostemming
Discipline
Treatment
All
Compendex
Inspec Archive
✓ Quick – 快速检索
✓ Expert – 专业检索
✓ Thesaurus – 叙词检索
Engineering Research Profile
NEW FEATURE
Summary of engineering research output for schools and research institutions.
Analysis includes:
Top authors
Funding sponsorship
Research focus
Publishing trend
Subject area
Source titles
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Create personal folders
Customize download options and more...
Create account
Feedback

Engineering Village

Search | Alerts 0 | Selected records 0 | More

Create account

Sign in

Quick search: All fields for e.g. (artificial intelligence OR intelligent computing) AND {social media}

AND All fields for e.g. (artificial intelligence OR intelligent computing) AND {social m

AND All fields for e.g. (artificial intelligence OR intelligent computing) AND {social m

Turn on AutoSuggest | + Add search field | Reset form

Databases | Date | Language | Document type | Sort by | Browse indexes | Autostemming | Discipline | Treatment

All | Compendex | Inspec Archive | Knovel

添加多个检索框

Engineering Research Profile NEW FEATURE

Summary of engineering research output for schools and research institutions.

Analysis includes:

- Top authors
- Funding sponsorship
- Research focus
- Publishing trend

Already have an account?

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Register

- Personalize your settings
- Setup alerts and save searches
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Feedback

Engineering Village

Search | Alerts 0 | Selected records 0 | More | Create account | Sign in

Quick search: All fields for e.g. (artificial intelligence OR intelligent computing) AND {social media}

Turn on AutoSuggest | + Add search field | Reset form

Databases | Date | Language | Document type | Sort by | Browse indexes | Autostemming | Discipline | Treatment

All | Compendex | Inspec Archive | Knovel

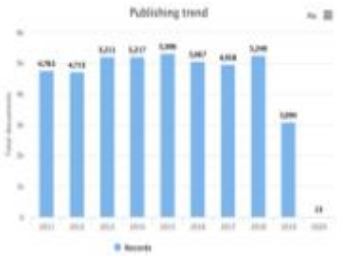
限定条件

Engineering Research Profile NEW FEATURE

Summary of engineering research output for schools and research institutions.

Analysis includes:

- Top authors
- Funding sponsorship
- Research focus
- Publishing trend
- Subject area
- Source titles



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- Setup alerts and save searches
- Create personal folders
- Customize download options and more...

Create account

Feedback

EI Compendex & Web of Science核心合集

- 不同检索类型支持：编写检索式 + 所有运算符使用

	EI Compendex	Web of Science核心合集
快速检索	检索词+运算符+检索字段	检索词+运算符+检索字段
高级检索	检索词+运算符+检索字段代码	检索词+运算符+检索字段代码

EI-检索运算符：

- 布尔逻辑算符：

符号	说明
AND	检索包含所有关键词的数据。 例： “rapid transit” ***AND*** “speed control”
OR	检索数据中至少含有一个所给关键词，用于检索同义词或者不同的表达方式。 例：“rapid transit” ***OR*** “light rail”
NOT	排除含有某一特定关键词的数据。 例：windows ***NOT*** Microsoft

EI-检索运算符：

- 位置算符：

符号	说明
“” {}	词间不能插词，词序不能颠倒 *“International Space Station”*
Onear/n	两个词之间可以插入0-n个词，词序**不能**颠倒 *Distance Onear/3 learning*
Near/n	两个词之间可以插入0-n个词，词序**可以**颠倒 *Distance near/3 learning*

EI-检索运算符：

- 通配符：

符号	说明
*	可以放在词前、词后或词中 *Comput* computer, computation…* **sorption adsorption, desorption…* *h*emoglobin hemoglobin, haemoglobin…*
?	有限截词,问号个数代表字符数 *Wom?n Women, Woman* *t??th tooth, teeth, tenth…*
$	词根运算符 *$manage —— manage, managing, managed, manager, managers , management, managements*

快速检索-例题

例：检索 2020年清华大学发表的被 EI 数据库收录的文章数(不能包括台湾清华大学)

Author affiliation： tsinghua univ*

Author affiliation： beijing or 100084 or china

Date：2020 年

问题：“Tsinghua university”或{Tsinghua university}?

Engineering Village

ELSEVIER

Search | Search history 1 | Alerts 1 | Selected records 0 | More | FF

Quick search: Author affiliation for tsinghua univ*

AND Author affiliation for Beijing or 100084 or China

AND All fields for e.g. (artificial intelligence OR intelligent computing) AND {social media}

Suggested terms: Deep Learning | Efficiency | Learning Systems | Numerical Methods | Forecasting

Turn on AutoSuggest | + Add search field | Reset form

Databases | Date | Language | Document type | Sort by | Browse indexes | Autostemming | Discipline | Treatment

Published 2020 to 2020

Updates 1

13,165 records found in Compendex for 2020-2020: (((tsinghua univ*) WN AF) AND ((Beijing or 100084 or China) WN AF))

1 of 527 pages >

Create alert | Save search | Share search | RSS feed

Sort by: Relevance

Refine <<

By physical property

Filter results by physical properties such as size, temperature, pressure and many more.

By category Download all

Display: 25 results per page

1. Rank-Consistency Deep Hashing for Scalable Multi-Label Image Search

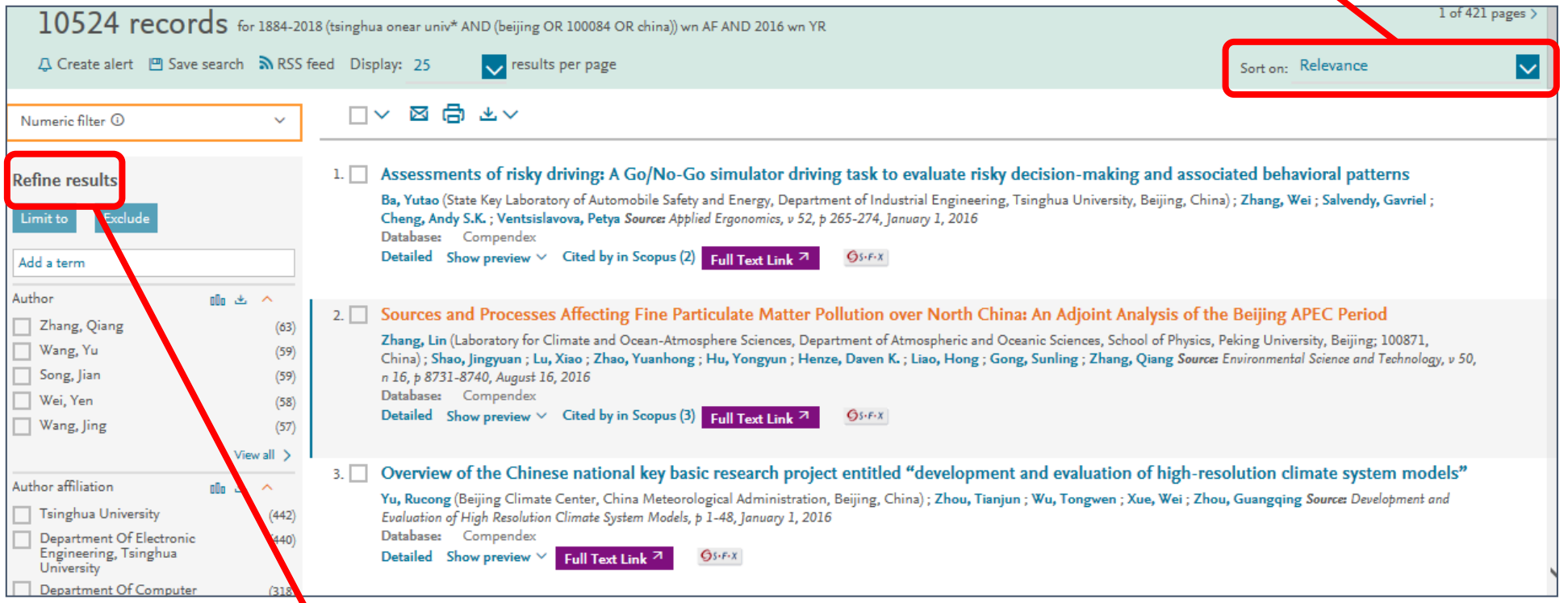
Ma, Cheng (Automation, Tsinghua University, 12442 Beijing China 100084 (e-mail: macheng17@mails.tsinghua.edu.cn)); Lu, Jiwen;

Source: *IEEE Transactions on Multimedia*, 2020

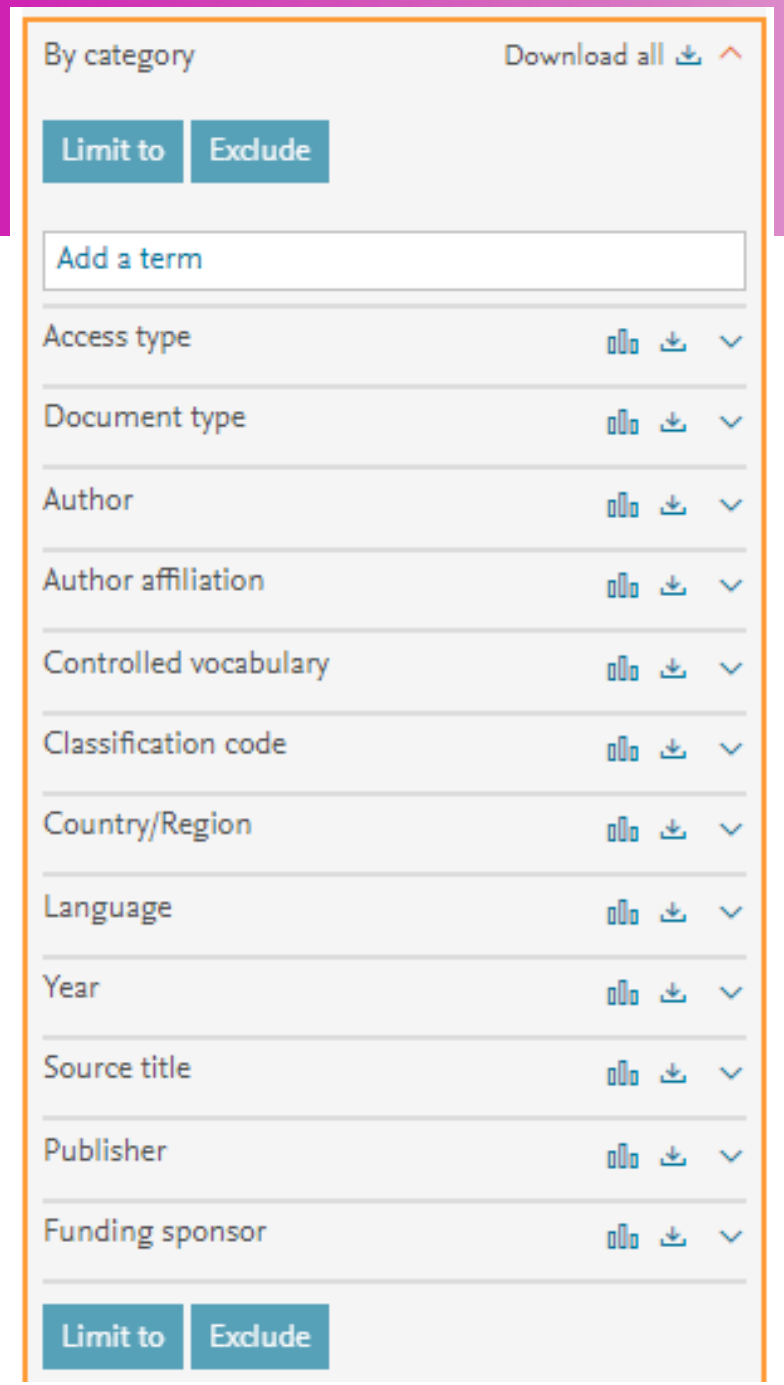
Article in Press

Feedback

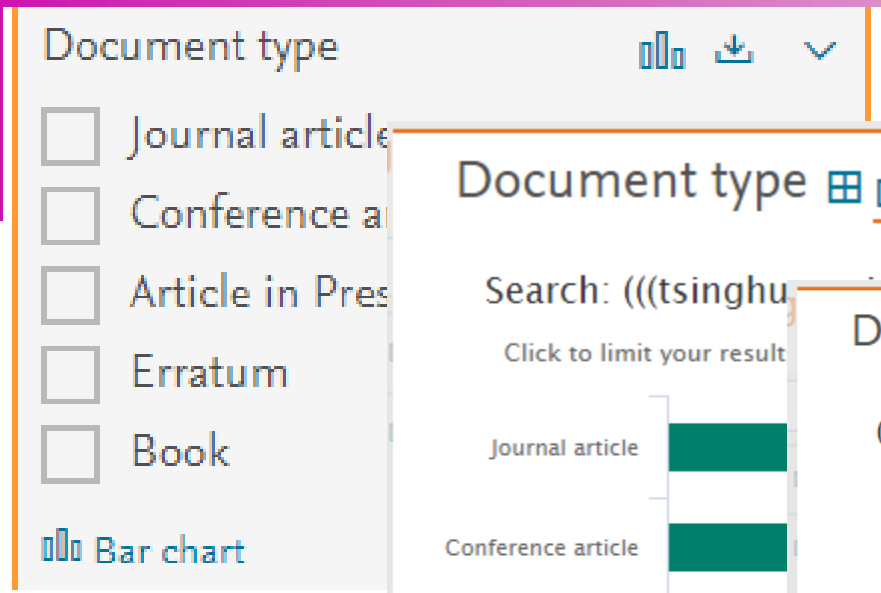
分析功能之排序与精炼检索结果

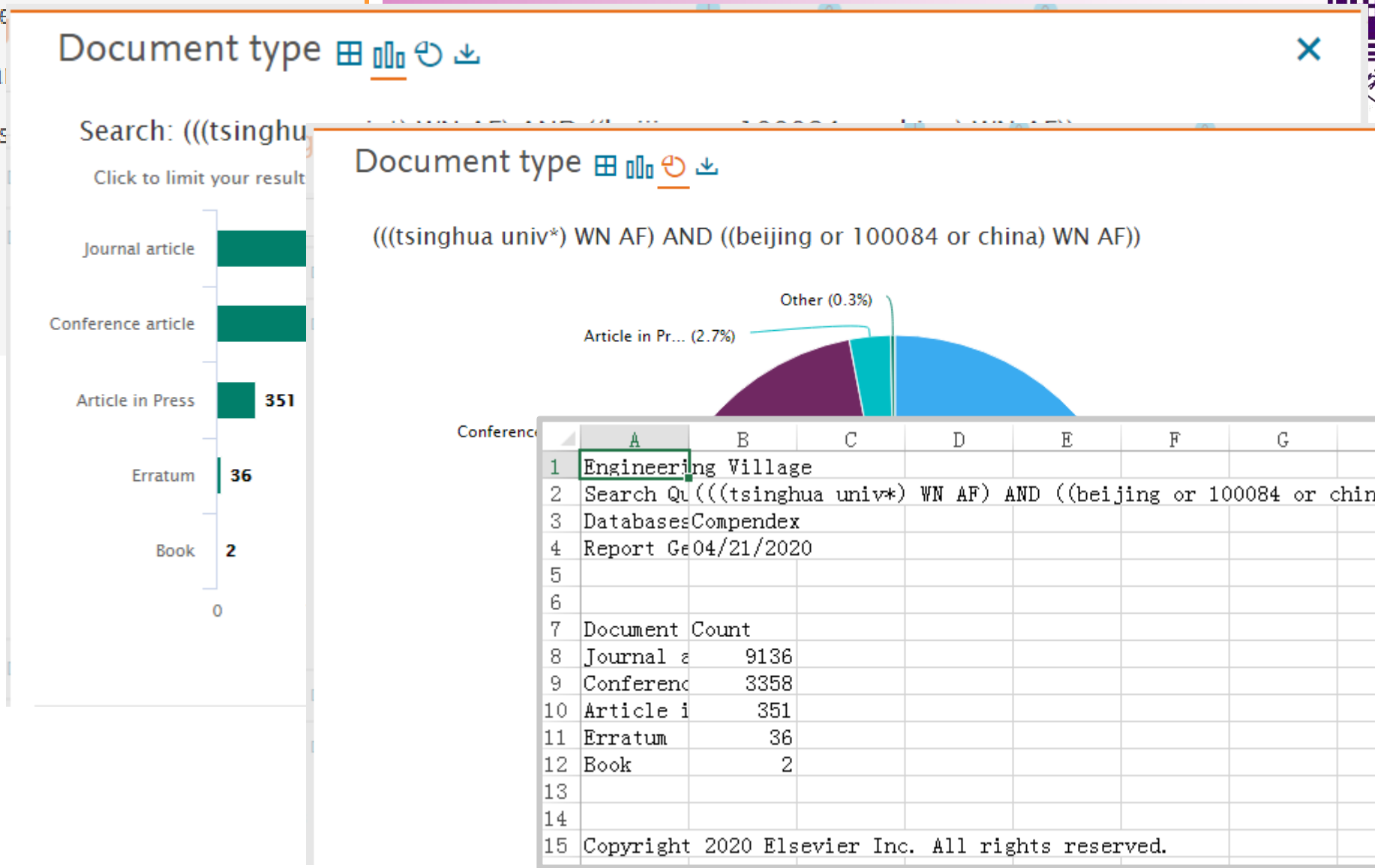


✓ 精炼检索结果-Refine



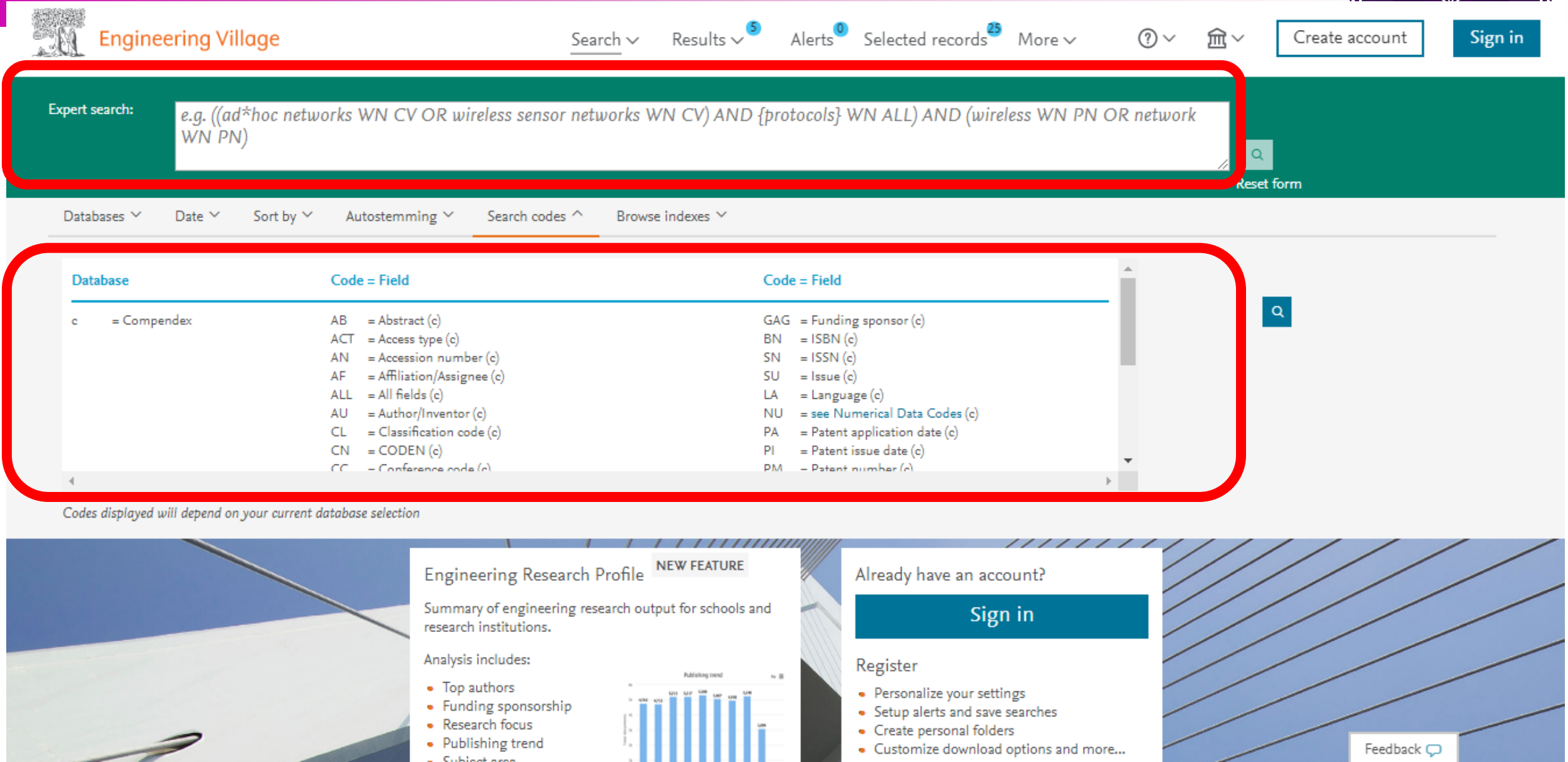
Access type	文献获取类型
Document type	文献类型
Author	作者
Author affiliation	作者单位
Controlled vocabulary	受控词表
Classification code	EI分类代码
Country/Region	国家/地区
Language	语言
Year	年份
Source title	来源出版物名称
Publisher	出版商
Funding sponsor	基金资助





	A	B	C	D	E	F	G	H	I
1	Engineering Village								
2	Search Qu	(((tsinghua univ*) WN AF) AND ((beijing or 100084 or china) WN AF))							
3	Databases	Compendex							
4	Report Ge	04/21/2020							
5									
6									
7	Document	Count							
8	Journal a	9136							
9	Conferenc	3358							
10	Article i	351							
11	Erratum	36							
12	Book	2							
13									
14									
15	Copyright 2020 Elsevier Inc. All rights reserved.								

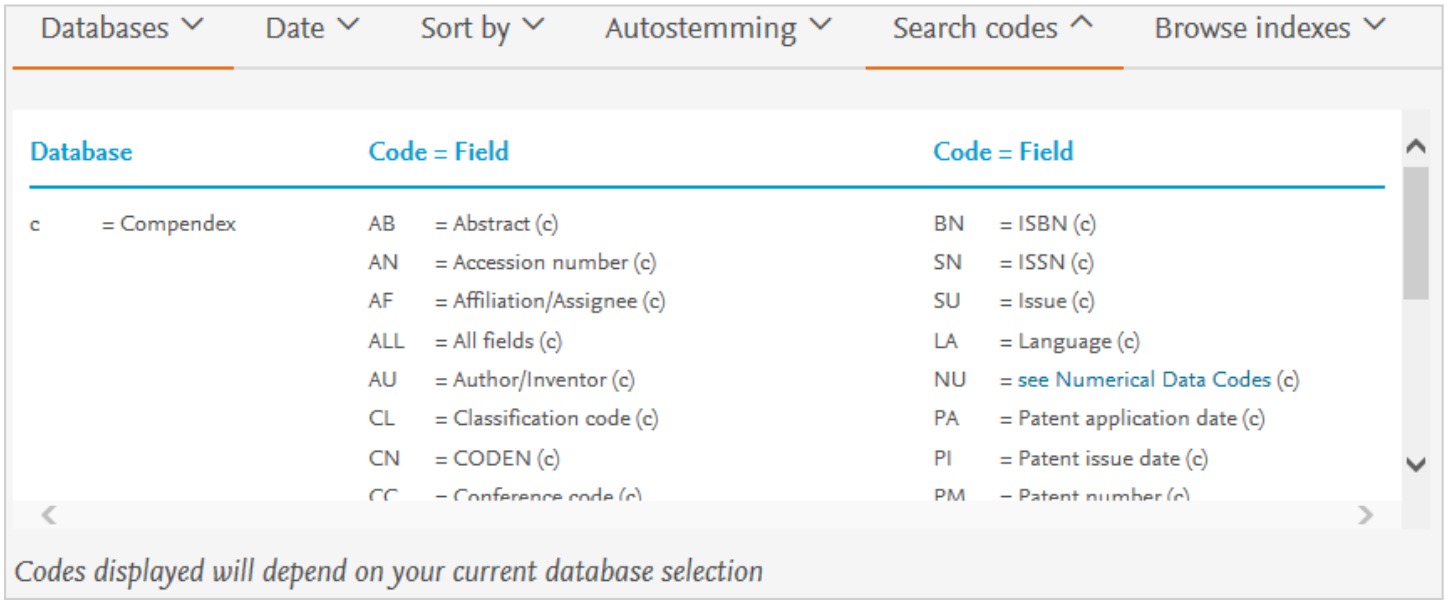
2. Ei Compendex–专业检索



2. Ei Compendex–专业检索

✓ **Expert –专业检索**

检索式：检索词 + 检索运算符 +检索字段代码 (37个检索字段)



WN引出检索字段代码：例： 2020 wn **YR**　　tsinghua univ* wn **AF**

Expert search: ((tsinghua univ*) WN AF) AND ((Beijing or 100084 or China) WN AF)

Reset form

Databases | Date | Sort by | Autostemming | Search codes | Browse indexes

Published 2020 to 2020

Updates 1

13,165 records found in Compendex for 2020-2020: (((tsinghua univ*) WN AF) AND ((Beijing or 100084 or China) WN AF))

1 of 527 pages

Create alert | Save search | Share search | RSS feed

Sort by: Relevance

Display: 25 results per page

Refine

By physical property

Filter results by physical properties such as size, temperature, pressure and many more.

By category Download all

Limit to | Exclude

Add a term

1. **Rank-Consistency Deep Hashing for Scalable Multi-Label Image Search**

Ma, Cheng (Automation, Tsinghua University, 12442 Beijing China 100084 (e-mail: macheng17@mails.tsinghua.edu.cn)); Lu, Jiwen; Zhou, Jie

Source: *IEEE Transactions on Multimedia*, 2020

Article in Press

Database: Compendex

Document type: Article in Press

Detailed | Show preview | Full text | Tsinghua SFX

2. **Numerical modeling screen for flow and noise control around tandem cylinders**

Feedback

3. Ei Compendex–叙词检索

- **叙词表**是由专业的规范词组成，它可以将同一主题不同表述的词，按主题内容规范在标准的专业词下，避免了由于词汇书写不同造成**漏检**，或词义概念混淆导致**错检**的问题。

- EI的“快速检索”和“专业检索”中的检索字段表示“受控词”或者“叙词”：

快速检索： Controlled Terms

专业检索：CV= Controlled term/Subject Area (c)

3. Ei Compendex–叙词检索

例如：

- 概念“计算机层析”在文中有多种表示：

  CT、computet tomography、computed tomography、computerized tomography、computerised tomography、 computer-aided tomography

- 受控词 (叙词) 将其统一为“Computerized Tomography”

如果采用受控词检索或者叙词检索，可以提高**文献的查全率、查准率**。

✓检索举例-EI叙词检索

例：检索 有关高层建筑抗震方面的文献

关键词	英文表述
高层建筑	tall building
抗震	earthquake resistance

点击“Thesaurus”叙词检索: 输入关键词，点击“search index”，系统显示与之相应的叙词，勾选后，系统将所选的叙词调入检索框, 选完词后，点击”search ”检索。

✓检索举例-EI叙词检索

345 records found in Compendex for 1884-2021: ((({Earthquake engineering} WN CV) AND ({Tall buildings} WN CV)))

1 of 14 pages

Create alert | Save search | Share search | RSS feed

Sort by: Relevance

Display: 25 results per pag

Refine

By physical property

Filter results by physical properties such as size, temperature, pressure and many more.

By category Download all

Limit to | Exclude

Add a term

Access type

- Open Access (33)
- Other (312)

Controlled vocabulary

- Earthquake Engineering (345)
- Tall Buildings (345)
- Earthquakes (152)
- Engineering Geology (122)

1. **A new full-scale testbed for structural health monitoring and soil–structure interaction studies: Kunming 48-story office building in Yunnan province, China**

Todorovska, Maria I. (Department of Civil Engineering, Tianjin University, Tianjin, China); Niu, Ben; Lin, Guoliang; Cao, Changhu; Wang, Danling; Cui, Jianwen; Wang, Fangbo; Trifunac, Mihailo D.; Liang, Jianwen **Source:** *Structural Control and Health Monitoring*, v 27, n 7, July 1, 2020

Database: Compendex

Document type: Journal article (JA)

Detailed | Show preview | Full text | Tsinghua SFX

2. **A hybrid coupled wall system with replaceable steel coupling beams for high-rise modular buildings**

Wang, Zhen (Department of Civil Engineering, The University of Hong Kong, Pokfulam, Hong Kong); Pan, Wei **Source:** *Journal of Building Engineering*, v 31, September 2020

Database: Compendex

Document type: Journal article (JA)

Detailed | Show preview | Cited by in Scopus (1) | Full text | Tsinghua SFX

3. **Ranking passive seismic control systems by their effectiveness in reducing responses of high-Rise buildings with concrete shear walls using multiple-Criteria decision making** (*Open Access*)

Barkhordari, M.S. (Department of Civil and Environmental Engineering, Amirkabir University of Technology, Tehran, Iran); Tehranizadeh, M.

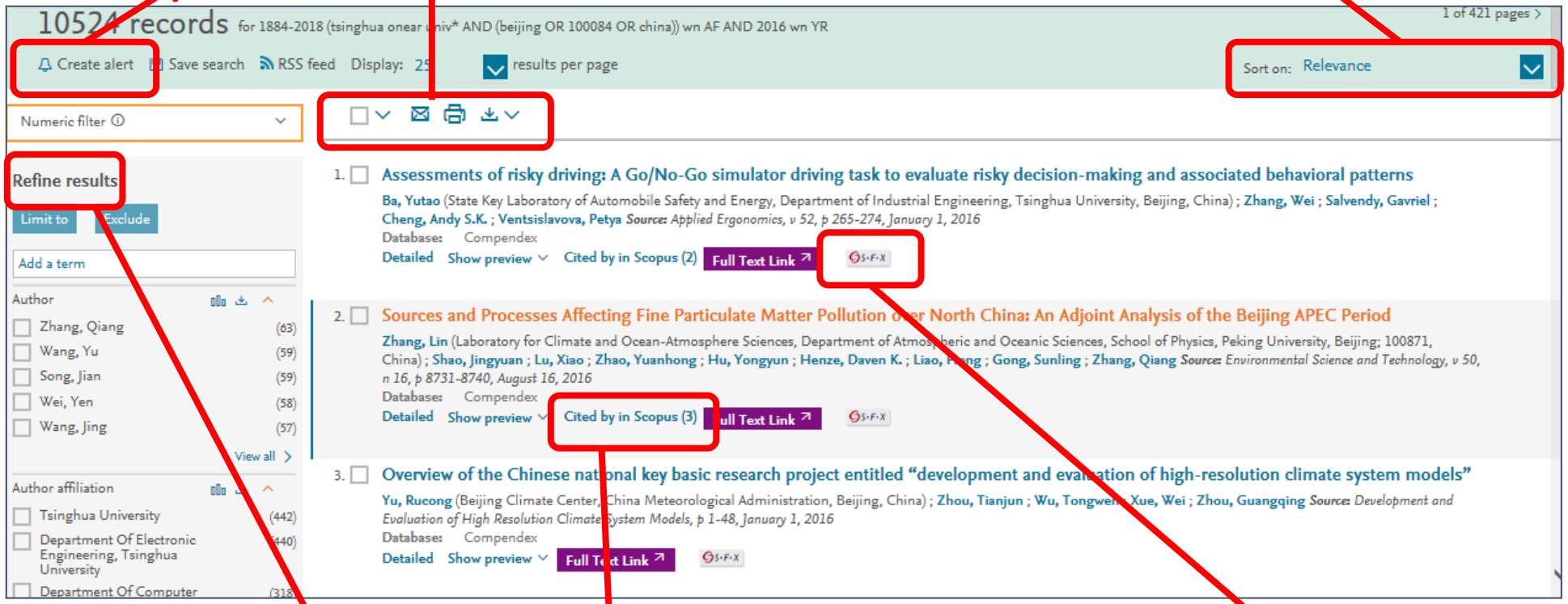
Source: *International Journal of Engineering, Transactions B: Applications*, v 33, n 8, p 1479-1490, August 2020

激活 Windows
转到"设置"以激活 Windows。

选择标记、打印、输出方式

创建跟踪

排序方式



精炼检索结果

链接到SCOPUS数据库，查SCOPUS引用

获取原文链接

SCOPUS 数据库介绍

✓ SCOPUS数据库简介

Scopus 是目前全球最大的文摘索引型数据库

✓SCOPUS数据库检索

Scopus 检索 来源出版物 列表 SciVal FF

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一站式发掘最可靠、最相关的最新研究。

文献 作者 归属机构

- 文献
- 作者
- 归属机构
- 高级

检索提示

检索范围
论文标题、摘要、关键字

关键字检索 *

+ 添加检索字段 Add date range 高级文献检索 >

检索

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Scopus 博客

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✓ SCOPUS数据库—文献检索

文献 作者 归属机构

检索提示

检索范围
论文标题、摘要、关键字

关键字检索 *

AND

检索范围
论文标题、摘要、关键字

关键字检索

Published from
所有年份

To
至今

Added to Scopus
Anytime

+ 添加检索字段 Remove date range 高级文献检索 >

Reset 检索

✓ SCOPUS数据库—高级文献检索

高级搜索

比较来源出版物 >

< 基本检索 | 高级

检索提示 ?

输入检索式字符串

大纲检索式 | 添加作者姓名/归属机构 | 清除表单 | 检索

代码:	W/
名称:	W/n
描述:	W/n "之内"。此时，检索式中的检索词必须在 n 个检索词范围内。"n" 可以是 0 到 255 之间的数字。任一检索词都可以先出现。
示例：	pain W/15 morphine 将会查找 "pain" 和 "morphine" 相距不超过 15 个词语的论文。

运算符

- AND +
- OR +
- AND NOT +
- PRE/ +
- W/ +

字段代码 ?

- 文本内容
- 归属机构
- 作者
- 生物实体
- 化学实体
- 会议
- 文献
- 编者
- 资金资助

✓ SCOPUS数据库—其它检索

■ 作者检索

➢ 作者搜索可以帮助您找出由特定的作者所著的文献，即使这些文献在引用该作者时使用了不同的形式，也可通过该功能搜索出来。

■ 归属机构检索

➢ 将机构的多个名称、地址和职能（尽可能）汇总，并根据汇总和所分配的标识符在 Scopus 中创建和显示归属机构资料。

✓ SCOPUS数据库—检索举例

检索式：

ALL("heart attack") AND AUTHOR-NAME (smith)

输入 ALL(“heart attack”) 将返回在论文标题、来源出版物名称、摘要、关键字、参考文献、或会议等字段中包含 "heart attack" 的所有文献。

作者的姓名。该字段用于查找单个作者姓名的各种变化形式

✓ SCOPUS数据库—其它功能

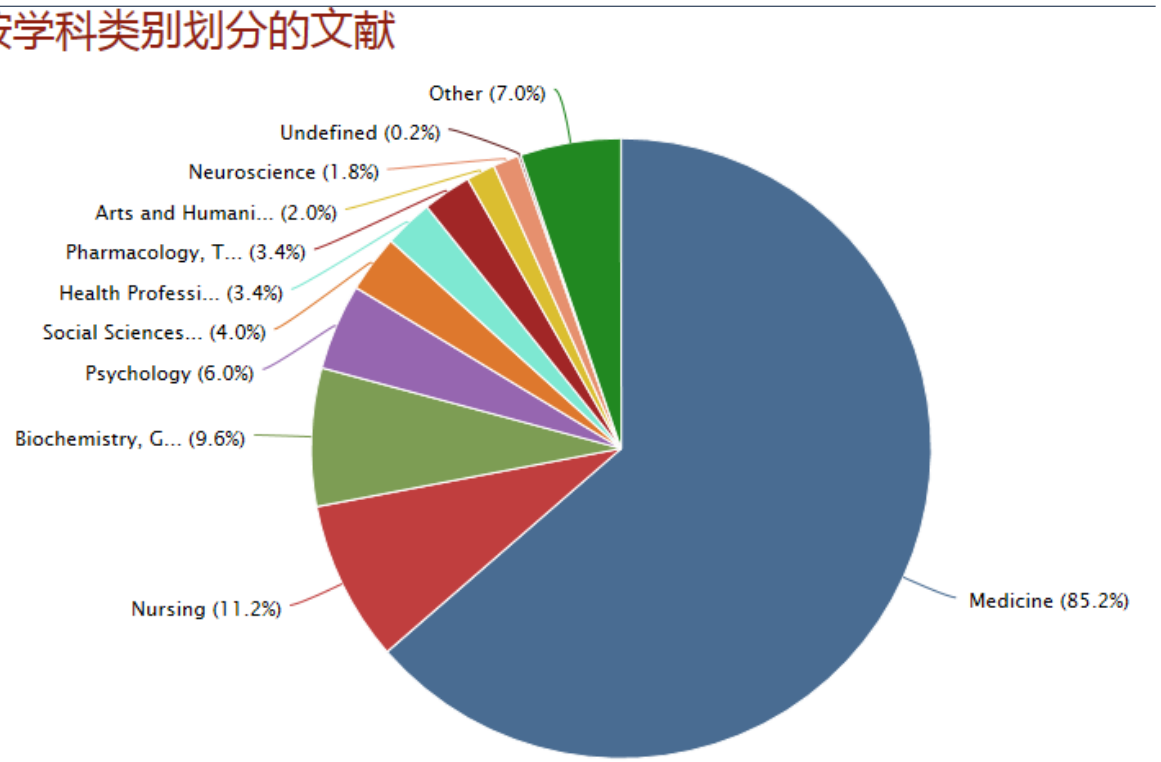
编辑、保存、建立检索提醒

精炼检索结果　　查看引文概览、查看施引文献、查看参考文献等

✓ SCOPUS数据库—分析功能

年份	来源出版物	作者	归属机构	国家/地区	文献类型	学科类别

学科类别	文献
Medicine	425
Nursing	56
Biochemistry, Genetics and...	48
Psychology	30
Social Sciences	20
Health Professions	17
Pharmacology, Toxicology a...	17
Arts and Humanities	10
Neuroscience	9
Agricultural and Biological S...	8
Economics, Econometrics a...	5
Engineering	4
Chemistry	3
Multidisciplinary	3
Environmental Science	2
Materials Science	2



✓ SCOPUS数据库—获取全文

✓ SCOPUS数据库特点

涵盖了世界上 **绝大多数** 经过专家评审的期刊，可以获得**全面** 有针对性的研究结果

以最少的链接，**快速访问** 和链接到全文资源

使用简单易用，如Google，能获取最相关的记录

本讲小结

- **Web of Science 数据库**
  - 检索功能
  - 分析、跟踪功能
  - 引文索引功能
- **Scopus 数据库**
- **Ei Compendex 数据库**

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范凤英

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谢谢大家！

2021年03月19日