



ELSEVIER

# Engineering Village-开展工程 领域研究的首选方案

罗莹 Elsevier工程部客户顾问

Tel:13811203142

Email: [y.luo@Elsevier.com](mailto:y.luo@Elsevier.com)



在学习和研究过程中，我们经常。。。。



# Engineering Village™ – 深入工程研究的首选工具

掌控您的研究工作

找到所需的



确定研究的独特性



产生想法



保持与时俱进



了解新的学科领域



找到同行和合作者



追踪竞争工作

避免不想要的



质量不可靠  
缺乏准确性、可信性



错过内容



重复工作



读到不相关的内容



在多个系统中  
重复搜索

以最少的时间和劳力取得最大的成果

# 索引 — 我们投入精力的关键步骤

获取	规则	分配	分类	质量检查	载入
Compendex 每年增加 1.3 百万条文献记录	通过分配给超过 1.2 万个控制词，人工定义记录的相关性	分配受控词并归一化非受控词以展示最通用的语言与术语	将内容分到特定学科领域中	检查每一篇论文以保证索引区域和元数据分配妥当	每周EV上的 Compendex 载入超过 25,000 条文献记录
内容来自 2200 以上个出版商	EV 学科专家维持规则	增加检索查全率	实现分类码检索	精确度查全率	分配收录号

## In Situ Construction of Stable Tissue-Directed/Reinforced Bifunctional Separator/Protection Film on Lithium Anode for Lithium-Oxygen Batteries

Xu, Ji-Jing<sup>1</sup>; Liu, Qing-Chao<sup>2</sup>; Yu, Yue<sup>1</sup>; Wang, Jin<sup>1,3</sup>; Yan, Jun-Min<sup>3</sup>; Zhang, Xin-Bo<sup>1</sup>

[View Article Online](#) DOI: 10.1002/adma.201606552

Source: *Advanced Materials*, v 29, n 24, June 27, 2017; ISSN: 09359648, E-ISSN: 15214095; DOI: 10.1002/adma.201606552; Article number: 1606552; Publisher: Wiley-VCH Verlag

**Author affiliations:** <sup>1</sup> State Key Laboratory of Rare Earth Resource Utilization, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun; 130022, China

<sup>2</sup> College of Chemistry and Molecular Engineering, Zhengzhou University, Zhengzhou; 450001, China

<sup>3</sup> Key Laboratory of Automobile Materials, Ministry of Education, Department of Materials Science and Engineering, Jilin University, Changchun; 130012, China

**Abstract:** To achieve a high reversibility and long cycle life for Li–O<sub>2</sub> battery system, the stable tissue-directed/reinforced bifunctional separator/protection film (TBF) is in situ fabricated on the surface of metallic lithium anode. It is shown that a Li–O<sub>2</sub> cell composed of the TBF-modified lithium anodes exhibits an excellent anodic reversibility (300 cycles) and effectively improved cathodic long lifetime (106 cycles). The improvement is attributed to the ability of the TBF, which has chemical, electrochemical, and mechanical stability, to effectively prevent direct contact between the surface of the lithium anode and the highly reactive reduced oxygen species (Li<sub>2</sub>O<sub>2</sub> or its intermediate LiO<sub>2</sub>) in cell. It is believed that the protection strategy describes here can be easily extended to other next-generation high energy density batteries using metal as anode including Li–S and Na–O<sub>2</sub> batteries. © 2017 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim  
(44 refs)

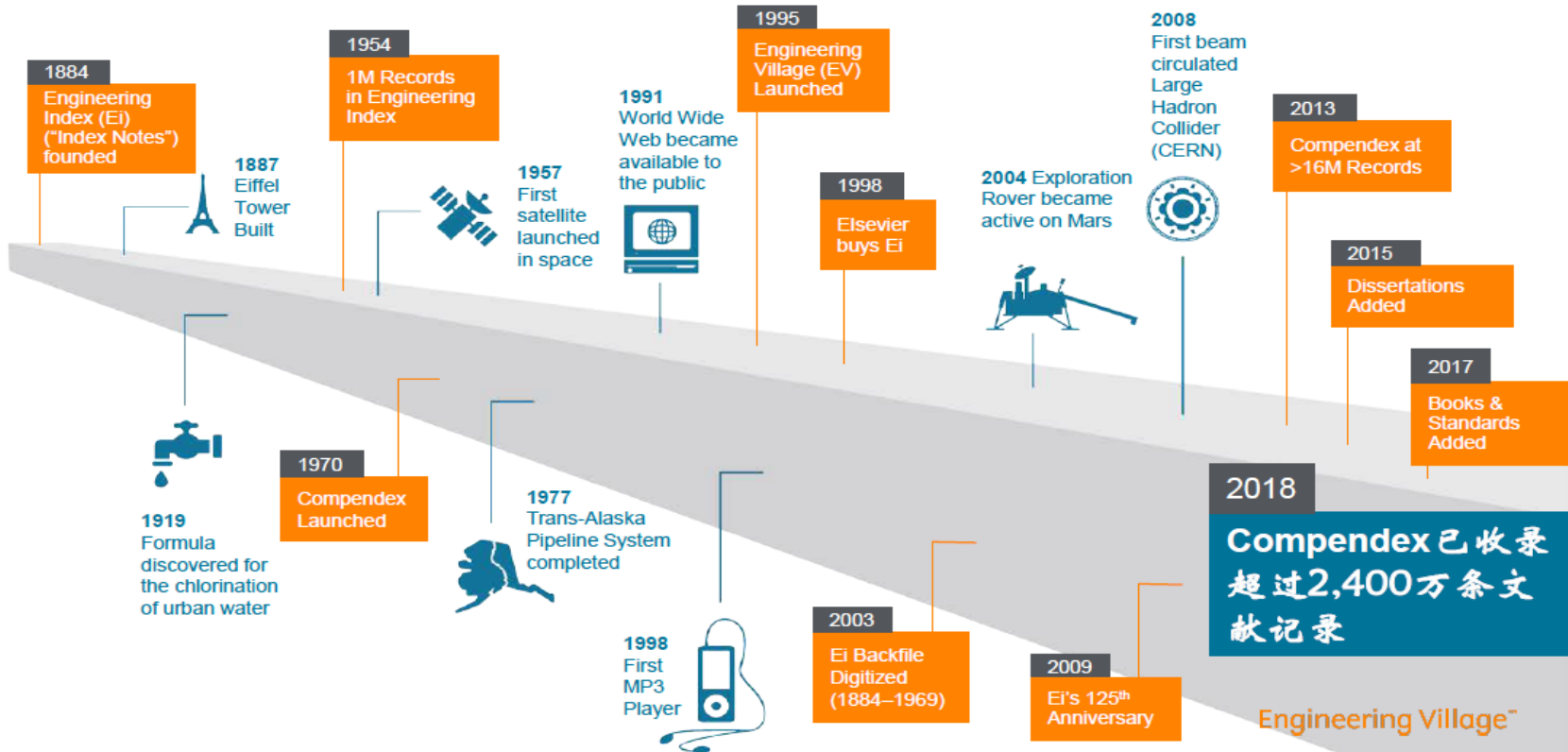
Controlled terms: [Kirkendall effect](#) [Chemical stability](#) [Electric batteries](#) [Electrodes](#) [Lithium](#) [Lithium sulfur batteries](#) [Mechanical stability](#) [Oxygen](#) [Secondary batteries](#) [Separators](#) [Tissue](#)



# Ei & Engineering Village 的里程碑

Ei 和 Engineering Village 是已确立声誉的品牌

收录工程文献已有134年



# Engineering Village™

- 拥有13个专注专业文摘索引 ( A&I ) 数据库的平台

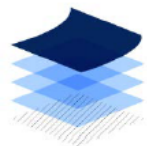


20所全球顶尖大学  
100% 使用  
(US News & World Report)



# Ei Compendex

## 是世界上涵盖面最广最完整的工程文献数据库



**~26.1M条**文献记录

并正在持续增长

>1.78M条记录  
来自Ei Backfile

1884年至1969年

每年增加

1.3M条记录

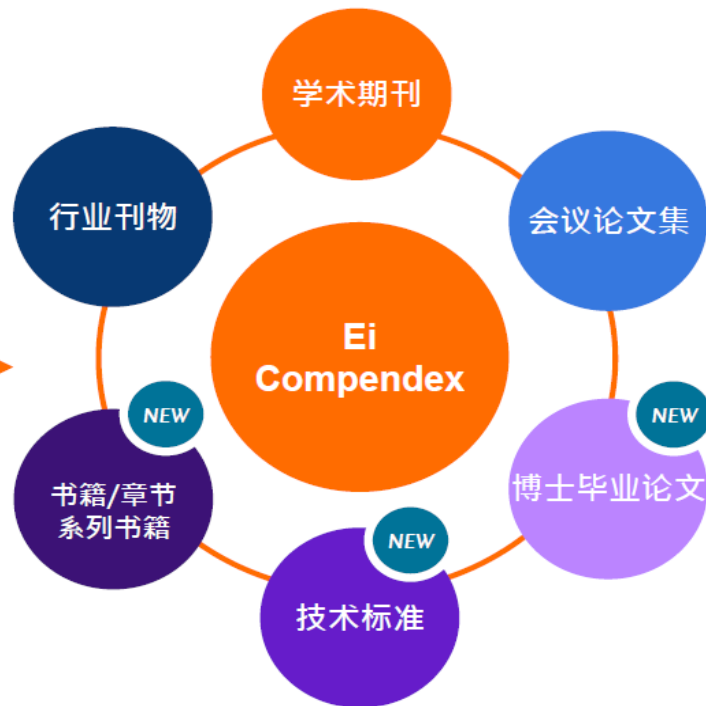
1970年至今



通过DOIs实现全文链接

涵盖**190**个工程相关领域

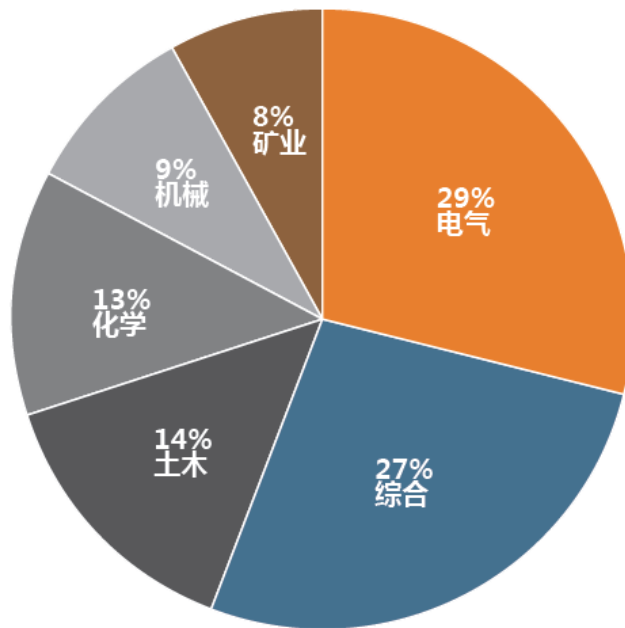
来自**78**个国家的**2,291**个出版社



## 2 Ei Compendex工程学科领域

### Ei Compendex相关领域

- 应用物理学，包括光学
- 生物工程与生物技术
- 食品科学与技术
- 材料科学
- 仪器仪表，包括医疗器械
- 纳米技术





# Ei Compendex 有效支撑科研工作流



EI收录详解及常见问题



科研不同阶段-高效的应用EI

ASME

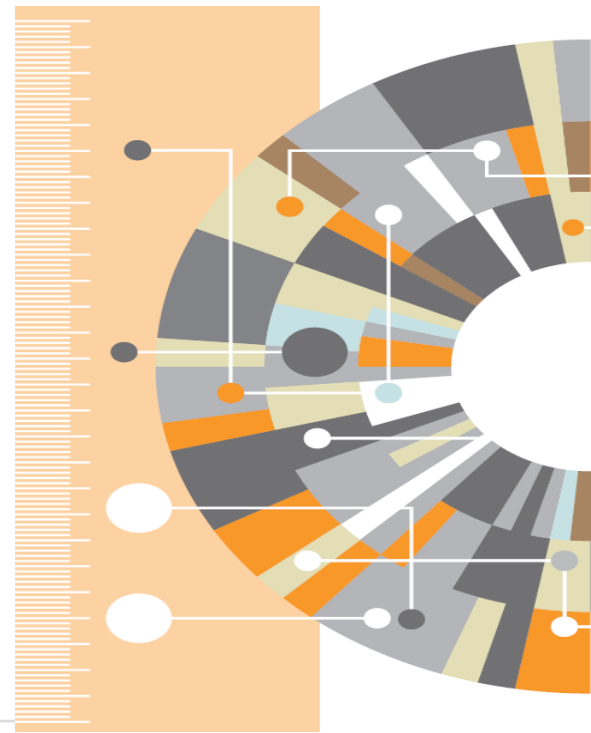
ELSEVIER

IEEE

acm



文献阅读和管理习惯的养成



# EI收录详解及常见问题

当前位置： [首页](#) > [论文投稿](#) > 大家是如何选择EI期刊的，有什么好的方法吗？

## 大家是如何选择EI期刊的，有什么好的方法吗？



作者 Itj1992

来源: 小木虫 200 4 [举报帖子](#)

+关注

目前准备投国外期刊，因为手中的论文水平不是特别高，打算方向瞄准EI级别，但由于没有相关投稿经验，对于期刊的选取很是迷茫，专业是检测技术及自动化装置方向，求相关大牛不吝指教！ [+ 返回小木虫查看更](#)



wq576122117

导师不指点你吗



frogwangwang

我也有同样疑问



flylee1985

同问



swl7839

同问

当前位置： 首页 > 论文投稿 > 会议ei论文，含金量怎么样？容易发掉吗？

## 会议ei论文，含金量怎么样？容易发掉吗？

会议与征稿布告 栏	<p>[2019-4-30] 英文普刊长期征稿[面向全科 当月见刊]</p> <p>普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。众多优质ISTP、EI会议、期刊 诚招代理，多稿多优惠，欢迎咨询！...</p>	fengjiet	2019-04-18 02:28
会议与征稿布告 栏	<p>[2019-06-10][EI检索]2019第三届工程设计和产品创新国际会议...</p> <p>他主持了几次国际会议和期刊，并应邀在世界各地发表主题演讲，并在全球几所大学工作过。...【不投稿的你也可以】（3个选择如下）：1.报告者：如果你只想参加会议并作报告，不出版论文，只需要...</p>	sg8s40	2019-04-18 02:12
会议与征稿布告 栏	<p>[2019-07-10][SCI][牛津大学]2019年第四届先进材料研究与制造...</p> <p>2.优秀文章将提交出版在以下SCI期刊特刊中1)JournalofMaterialsandManufacturingProcesses(OnlineISSN:1532-24752)JournalofSurfaceEngineering:...【不投稿的你也可以来】（3个选择如下）：1...</p>	ebubm96	2019-04-18 01:19
会议与征稿布告 栏	<p>多本国外普刊长期征稿面向全科【月刊】</p> <p>2414-1895期刊官网：'http://www.ICJ-E.org'投稿邮箱：'...普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...</p>	211827670	2019-04-18 01:40
会议与征稿布告 栏	<p>[2019-04-30]【毕业保底】【基金项目结题】欧美港印英文【普刊】</p> <p>【sci检索期刊】/【ei检索期刊】/【sci摘要检索会议】/【ei会议/istp...普刊长期征稿，不送检ei，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...</p>	dingbei170	2019-04-17 10:01
会议与征稿布告 栏	<p>国际英文期刊征文-长期征稿</p> <p>'美国《Internationalcorejournalofengineering》(icje)...注：普刊长期征稿，不送检ei，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。</p>	dswsk18	2019-04-17 09:21
会议与征稿布告 栏	<p>多本国外普刊长期征稿面向全科【月刊】</p> <p>2414-1895期刊官网：'http://www.ICJ-E.org'投稿邮箱：'...普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...</p>	进毅细4696	2019-04-17 02:19

## Ei Compendex 收录清单的官方唯一渠道 (动态更新) :

<https://www.elsevier.com/solutions/engineering-village/content>

Compendex and Ei Backfile

The broadest and most complete engineering literature database available in the world.

Learn more >

↓ [Compendex source list \(XLSX, May 2020, 3,5 MB\)](#)

**DISCLAIMER-TERMS&CONDITIONS**

SERIALS

CHINESE JRS on SERIALS LIST

NON-SERIALS

DISCONTINUED

DEFINITIONS

- ◆ 声明
- ◆ 连续出版物/中文连续出版物/非连续出版物/停止收录出版物  
(其中中国出版物: 以英语(英译和直译)和中文列出期刊名称)
- ◆ 定义说明

## “停止收录”的定义与方针

当某一出版物被Ei Compendex “停止收录”时，其被收录的最终卷号/期号/页数会注明在“停止收录出版物目录”中该出版物对应的信息栏内。其最终收录卷号/期号/页数与“Ei Compendex收录出版物目录”的更新及发布时间无关。

EI COMPENDEX SOURCE LIST: UPDATED MAY 7, 2020

Source title	ISSN	EISSN	Publisher	FINAL COVERAGE			
				Year	Volume	Issue	Pagination
Acta Geoscientica Sinica	10063021	-	Science Press	2015	36	6	685-810
Acta Tabacaria Sinica	10045708	-	State Tobacco Monopoly Bureau and China Tobacco Society	2015	21	6	1-131
Advance Journal of Food Science and Technology	20424868	20424876	Maxwell Science Publications	2015	9	12	911-988
Advanced Materials Research	10226680	16628985	Trans Tech Publications Ltd	2014	1059	N/A	1-133
Advances in Information Sciences and Service Sciences	19763700	22339345	Advanced Institute of Convergence Information Technology	2012	4	23	1-820
Advances in Modelling and Analysis A	12585769	-	AMSE Press	2017	54	2	137-383
Advances in Modelling and Analysis B	12404543	-	AMSE Press	2017	60	2	283-524
Advances in Modelling and Analysis C	12404535	-	AMSE Press	2017	72	2	101-180
Agro Food Industry Hi-Tech	17226996	-	TeknoScienze	2017	28	6	4-72
American Journal of Food Technology	15574571	1557458X	Academic Journals Inc.	2016	11	6	240-297
Applied Mechanics and Materials	16609336	16627482	Trans Tech Publications Ltd	2014	694	N/A	1-583
Beijing Gongye Daxue Xuebao/Journal of Beijing University of Technology	02540037	-	Beijing University of Technology	2012	38	12	1761-1920
Biotechnology	1682296X	16822978	ANSI Asian Network for Scientific Information	2018	17	3	104-157
Biotechnology: an Indian Journal	09747435	-	Trade Science Inc	2014	10	12	5791-6875
Boletín Técnico	0376723X	-	Universidad Central de Venezuela	2017	55	20	1-710
C + Ca	00456152	-	Techna Group	2011	41	2	105-145
Cailliao Kexue yu Gongyi/Material Science and Technology	10050299	-	Harbin Institute of Technology	2012	20	6	1-148

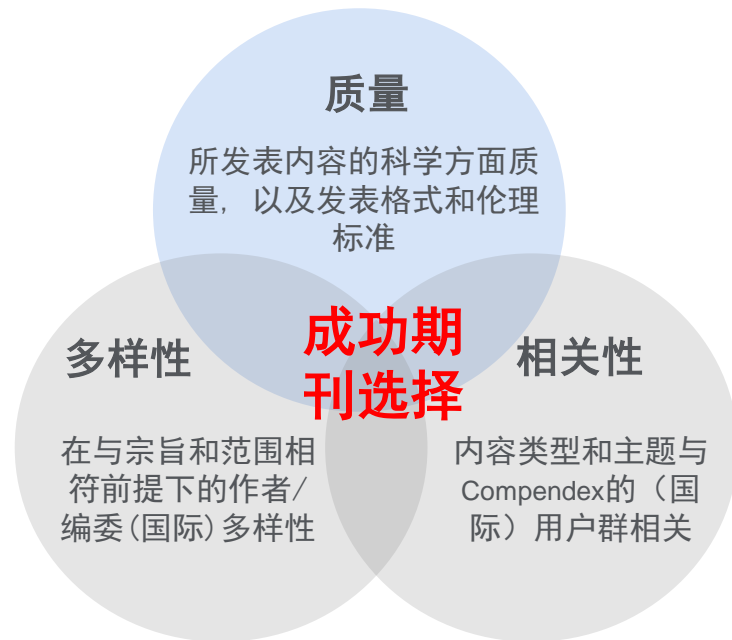
# Curated Content-经过甄选的内容

我们的顾客需要它  
我们的事业依赖它



Ei的创始人Dr. John Butler Johnson创立Ei，只收录具有永久价值的论文是我们今天依然努力坚持的宗旨

# 高水平的出版物选择基于多方面的组合





# Ei Compendex期刊评选标准

根据以下最低要求来初步筛选期刊出版物：

注册并有效的ISSN

同行评审

英文摘要

定期出版

出版伦理声明及数字资源长期保存政策

通过初步筛选的期刊出版物会进一步按照18条定性/定量评选标准进行评审：

期刊方针	内容质量	期刊地位	规律性	在线可用性
<ul style="list-style-type: none"><li>• 有说服力的编辑理念</li><li>• 同行评审类型</li><li>• 编辑的多样性和地域广泛性</li><li>• 作者的多样性和地域广泛性</li></ul>	<ul style="list-style-type: none"><li>• 对相关领域的学术贡献</li><li>• 与所述宗旨的相符性及质量</li><li>• 摘要的清晰度</li><li>• 论文的可读性</li><li>• Roman参考文献</li></ul>	<ul style="list-style-type: none"><li>• 期刊论文的引用情况，包括自引率</li><li>• 对于中国本土期刊，参考ISTIC及其他国内排名</li></ul>	<ul style="list-style-type: none"><li>• 出版无延迟或中断</li><li>• 每卷/期出版频率和论文发表量稳定、可预测</li></ul>	<ul style="list-style-type: none"><li>• 内容在线可访问</li><li>• 数字化政策以及长期保存措施</li><li>• 英文版期刊主页</li><li>• 主页质量</li><li>• 数位物件识别号</li></ul>



英文版评选标准：<https://www.elsevier.com/solutions/engineering-village/content/selection-criteria>

中文版评选标准：<https://bit.ly/2gFt3vm>

Engineering Village™

# Ei Compendex会议论文集评选标准

根据以下最低要求来初步筛选会议论文集：

注册并有效的 ISSN/ISBN	同行评审	具有英语摘要的全文 论文	出版伦理声明	内容在线可访问
---------------------	------	-----------------	--------	---------

通过初步筛选的会议论文集会进一步按照18条定性/定量评选标准进行评审：

会议方针	会议组织	内容质量	会议地位	在线可用性
<ul style="list-style-type: none"><li>• 有说服力且有重点的宗旨范围</li><li>• 透明的同行评审政策</li><li>• 组委会和专家委员会的地域多样性和广泛性</li><li>• 作者的地域多样性和广泛性</li></ul>	<ul style="list-style-type: none"><li>• 公开合作者/赞助商</li><li>• 透明的作者指南和说明</li><li>• 透明的费用结构</li></ul>	<ul style="list-style-type: none"><li>• 题目/摘要的专业、科学、写作质量</li><li>• 对相关领域的学术贡献</li><li>• 论文的可读性</li><li>• 与所述宗旨的相符性以及质量</li><li>• 论文的创新性/真实性</li><li>• Roman字体的参考文献</li></ul>	<ul style="list-style-type: none"><li>• 组委会和专家委员会的声誉/地位</li><li>• 会议是否被列入权威列表</li></ul>	<ul style="list-style-type: none"><li>• 英文版会议主页</li><li>• 主页质量</li><li>• 数位物件识别号</li></ul>



[Recommended Practices to Ensure Technical Conference Content Quality](#)

# 出版伦理及数字资源长期保存



<http://publicationethics.org/about>

<http://publicationethics.org/files/Code%20of%20conduct%20for%20publishers%20Chinese%201.pdf>

**Publishing Ethics Resource Kit  
(PERK)**

<http://www.elsevier.com/editors/perk>



<http://www.clockss.org/clockss/Home>

[https://clockss.org/clocksswiki/files/CLOCKSS\\_Handout\\_Chinese.pdf](https://clockss.org/clocksswiki/files/CLOCKSS_Handout_Chinese.pdf)



PORTICO

<http://www.portico.org/digital-preservation/>

# 致作者的建议

## 请务必...

- 要符合期刊的宗旨和范围以及编辑政策
- 要有道德地进行研究
- 要坚持遵从出版伦理指南
- 要有选择性地决定在哪里发表以及与谁发表
- 要对不切实际的快速审稿及不透明的审稿结果需要警惕
- 要在接受您论文的会议上进行演讲

## 请不要...

- 不要向声称与Ei或爱思唯尔有合作关系或保证Ei Compendex收录的出版代理商或经纪商支付费用
- 不要剽窃
- 不要向期刊和/或会议一稿多投
- 不要向一个假会议提交论文



请参考我们的评选标准

Engineering Village™

# EI收录的常见问题

1、Ei期刊会议收录什么标准及流程？

<https://www.elsevier.com/solutions/engineering-village/content/selection-criteria>

2、有作者反映，投稿期刊写了Ei刊源，为什么一直检索不到文章？

排查：先查刊此刊是否包含在源表：<https://www.elsevier.com/solutions/engineering-village/content>

如果期刊为Ei刊源，请直接联系Ei中文客服查找并按要求提供证明材料。需要注意的是在您提交证明资料后，Ei会和期刊核实信息，得到确认后文章记录就会经过加工后上库。

3、Ei记录有一条信息错了，联系谁？

中文邮箱：[support.china@elsevier.com](mailto:support.china@elsevier.com)

电话：4008426973



# 科研不同阶段-高效的应用EI

## 1、开题阶段

- Quick Search **快速检索**
- Thesaurus search **词库检索**

## 一、开题阶段文献收集重点

### 导师给定方向后泛调研

收集该领域的**综述文献、博士学位论文**；主要利用本领域经典或综述文献数据库

重点阅读英文综述或研究论文标题、摘要：了解**前沿、难点、创新点**、并收集**关键词**

实验室研究背景+当前研究热点+自身兴趣点=确定**研究题目**

### 确定研究题目后的精调研

有针对性的收集文献，**确定内容**；  
利用数据库的**分析功能**，查找主要的研究者和机构

文献阅读注意**泛读**和**精读**相结合

基于技术和方法的创新，确定课题实施方案

## 二、先看综述性论文，再看研究论文。

- 特点：综合性、扼要性和评价性，参考文献多。应作为“起步文献”加以参考利用。
- **方法：以关键词Review限定在Title范围，再键入关键字进行检索。（例如AI）**

Quick search **Title** for Review

AND **All fields** for AI

Suggested terms: Artificial Intelligence, Information Use, Information Systems, Learning Systems, Decision Making

Turn on AutoSuggest | + Add search field | Reset form

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

909 records found in Compendex for 1884-2021: (((Review) WN TI) AND ((AI) WN ALL)) 1 of 37 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

1.  Contributions and risks of artificial intelligence (AI) in building smarter cities: Insights from a systematic review of the literature (Open Access) Feedback



### 三、注重学位论文的检索和阅读。

五个显著特点：

- (1) 数据图表充分详尽
- (2) 参考文献丰富全面

(3) 可得到课题研究现状综述

(4) 可跟踪名校导师的科研进程

(5) 学习学位论文的写作方法

可以获得课题研究的更多相关文献

**方法：键入关键词后，勾选Document type中的Dissertation，直接命中。**

The screenshot shows the Engineering Village search interface. At the top, the logo and tagline 'Engineering Village™ The first choice for serious engineering research.' are visible. Below the search bar, the 'Quick search' section is active. The search criteria are set to 'All fields' for the query 'Search for... e.g. transcription factors AND jon smith'. The 'Document type' filter is expanded, and 'Dissertation' is selected with a radio button. Other options include 'All Document types', 'Conference article', 'Patents (before 1970)', 'Article in Press', 'Conference proceeding', 'Report chapter', 'Book', and 'Report review'. A blue callout box points to the 'Dissertation' option, containing the text 'Dissertation' and '学位论文'. The footer includes the Elsevier logo and navigation links for 'Terms and Conditions' and 'Privacy Policy'.



## 四、阅读本领域的主要研究者/机构的文献

- 利用数据库的分析功能获得。
- **方法：键入关键词后，看左边的数据筛选器，直观获取。**



The screenshot displays the Engineering Village database interface. The 'Refine results' sidebar on the left contains two sections: 'Author' and 'Author affiliation'. The 'Author' section lists names like Wang, Wei (1194) and Zhang, Wei (1139). The 'Author affiliation' section lists institutions like University Of Chinese Academy Of Sciences (3096) and U.S. Geological Survey (2262). Two orange callout boxes with blue borders point to these sections: one labeled 'Author' and '作者信息', and another labeled 'Author Affiliation' and '机构信息'. The main search results area shows several entries with titles like '...ing by trend and harmonic analysis' and '...temperature from air temperature: Using least square method'. Each entry includes a 'Full text' button and a 'Check Local Full text' button.





## 五、阅读高被引次数的文献

- 被引次数是判断一篇论文是否有影响力（价值）的一种比较直观和比较有效的方法。
- **方法：完成一次检索后，引用数据会直接显示在相应的记录上。**

Engineering Village

14. **Prospects of high temperature superconductors for fusion magnets and power applications**  
Fietz, Walter H. (Karlsruhe Institute of Technology, Karlsruhe, Germany); Barth, Christian; Drotziger, Sandra; Goldacker, Wilfried; H  
I.; Weiss, Klaus-Peter Source: *Fusion Engineering and Design*, v 88, n 6-8, p 440-445, 2013  
Database: Compendex  
Abstract | Detailed |  Show preview | Cited by in Scopus (6) | Full Text Link | 

15. **Conduction cooled high temperature superconducting dipole magnet for accelerator applications**  
Zangenberg, Nikolaj (Danfysik A/S, Gregersensvej 8, DK-2630, Taastrup, Denmark); Nielsen, Gunver; Hauge, Nils; Nielsen, Bjarne  
Christian G.; Bräuner, Lars; Ulse, Bo; Miller, Sren Pape Source: *IEEE Transactions on Applied Superconductivity*, v 22, n 3, 2012  
Database: Compendex  
Abstract | Detailed |  Show preview | Cited by in Scopus (6) | Full Text Link | 

引文信息

1884 1896 1902 1907 1937 1956 1963 1979 1988 1989 1993 1998 2006

[www.ei.org](http://www.ei.org)

Quick Search – 快速检索

Quick search: [All fields](#) ▾ for   [?](#)

[Turn on AutoSuggest](#) | [+ Add search field](#) | [Reset form](#)

- [Databases](#) ▾
- [Date](#) ▾
- [Language](#) ▾
- [Document type](#) ▾
- [Sort by](#) ▾
- [Browse indexes](#) ▾
- [Autostemming](#) ▾
- [Discipline](#) ▾
- [Treatment](#) ▾



- ### Engineering Village
- [About Engineering Village](#)
  - [Accessibility Statement](#)
  - [Content Available](#)
  - [Who uses EV?](#)
  - [Privacy principles](#)

- ### Customer Service
- [Contact and support](#)
  - [Subscribe to newsletter](#)
  - [Blog](#)
  - [Twitter](#)

- ### Careers
- [All engineering jobs](#)
  - [By job category](#) ▾
  - [provided by Mendeley Careers](#)

# 一、筛选检索结果

Engineering Village

Search Search history Alerts Selected records Bulletins More ? ? Create account Sign in

**Refine** <<

By physical property  
Filter results by physical properties such as size, temperature, pressure and many more 7.

By category Download all

Limit to Exclude

Add a term

Controlled vocabulary

Classification code

Access type

Document type

Author

Author affiliation

Country/Region

Year

Language

Source title

Publisher

Funding sponsor

Status

- Designing AI to Work with or for People?**  
Wang, Dakuo (Ibm Research, United States); Maes, Pattie; ...  
Database: Compendex  
Document type: Conference article (CA)  
Detailed Show preview Full text Check Local Full-text
- To Be fAIr or Not to Be: Using AI for the Good of Citizens**  
Cortes, Ulises (Barcelona Supercomputing Center, Barcelona, Spain); ...  
Database: Compendex  
Document type: Journal article (JA)  
Detailed Show preview Full text Check Local Full-text
- Building an AI That Feels: AI systems with emotional intelligence could learn faster and be more helpful**  
Czerwinski, Mary; Hernandez, Javier; McDuff, Daniel Source: IEEE Spectrum, v 58, n 5, p 32-38, May 2021  
Database: Compendex  
Document type: Journal article (JA)  
Detailed Show preview Full text Check Local Full-text
- Equilibrating emotional intelligence and AI driven leadership for transnational organizations**  
Dixit, Sweta (School of Business Studies, Sharda University, Greater Noida, India); Maurya, Mohit Source: Proceedings of International Conference on Innovative Practices in Technology and Management, ICIPTM 2021, p 233-237, February 17, 2021, Proceedings of International Conference on Innovative Practices in Technology and Management, ICIPTM 2021  
Database: Compendex  
Document type: Conference article (CA)  
Detailed Show preview Full text Check Local Full-text
- The AI doctor will see you know: assessing the framing of AI in news coverage** (Open Access)  
Bunz, Mercedes (Department of Digital Humanities, King's College London, London, United Kingdom); Braghieri, Marco Source: AI and Society, 2021  
Article in Press  
Database: Compendex  
Document type: Article in Press  
Detailed Show preview Full text Check Local Full-text

Feedback

- 在Refine Results检索结果中进行类别筛选: 受控词、学科、作者、机构、国家、文献种类等, 可Include或是Exclude一个或多个标目
- 在Refine Results中可结合超过一个以上的分析项目, 透过每篇标目前的勾选框勾选要结合的记录

## 控制词汇

Controlled vocabulary		
<input type="checkbox"/> Artificial Intelligence	(26,138)	
<input type="checkbox"/> Learning Systems	(8,064)	
<input type="checkbox"/> Information Use	(7,393)	
<input type="checkbox"/> Information Systems	(7,082)	
<input type="checkbox"/> Automatic Identification	(5,139)	

[View more >](#)

## 作者

Author		
<input type="checkbox"/> Ai, Bo	(623)	
<input type="checkbox"/> Wang, Ai-Jun	(317)	
<input type="checkbox"/> Ai, Xing	(286)	
<input type="checkbox"/> Zhong, Zhangdui	(281)	
<input type="checkbox"/> Ai, Shiyun	(264)	

[View more >](#)

## 作者机构

Author affiliation		
<input type="checkbox"/> Facebook Ai Research	(702)	
<input type="checkbox"/> Tencent Ai Lab	(613)	
<input type="checkbox"/> Carnegie Mellon University	(543)	
<input type="checkbox"/> University Of Chinese Academy Of Sciences	(533)	
<input type="checkbox"/> State Key Laboratory Of Rail Traffic Control And Safety, Beijing Jiaotong University	(387)	

[View more >](#)

## 学科分类

Classification code		
<input type="checkbox"/> Artificial Intelligence	(30,763)	
<input type="checkbox"/> Computer Software, Data Handling and Applications	(19,505)	
<input type="checkbox"/> Data Processing and Image Processing	(13,102)	
<input type="checkbox"/> Computer Applications	(12,789)	
<input type="checkbox"/> Mathematics	(9,830)	

[View more >](#)

## 国家

Country/Region		
<input type="checkbox"/> China	(40,798)	
<input type="checkbox"/> United States	(29,901)	
<input type="checkbox"/> United Kingdom	(7,872)	
<input type="checkbox"/> Germany	(6,822)	
<input type="checkbox"/> Canada	(5,472)	

[View more >](#)

## 文献类型

Document type		
<input type="checkbox"/> Conference article	(77,486)	
<input type="checkbox"/> Journal article	(57,146)	
<input type="checkbox"/> Conference proceeding	(1,622)	
<input type="checkbox"/> Article in Press	(1,395)	
<input type="checkbox"/> Book chapter	(904)	

[View more >](#)

[Bar chart](#)

## 原文语言

Language		
<input type="checkbox"/> English	(127,013)	
<input type="checkbox"/> Chinese	(10,275)	
<input type="checkbox"/> Japanese	(250)	
<input type="checkbox"/> Russian	(245)	
<input type="checkbox"/> Italian	(189)	

[View more >](#)

## 年

Year		
<input type="checkbox"/> 2021	(5,811)	
<input type="checkbox"/> 2020	(15,279)	
<input type="checkbox"/> 2019	(13,772)	
<input type="checkbox"/> 2018	(9,984)	
<input type="checkbox"/> 2017	(6,628)	

[View more >](#)

## 刊源

Source title		
<input type="checkbox"/> Water Science And Technology	(21535)	
<input type="checkbox"/> Proquest Dissertations And Theses Global	(18684)	
<input type="checkbox"/> Water Research	(16333)	
<input type="checkbox"/> Advanced Materials Research	(14270)	
<input type="checkbox"/> Proceedings Of Spie - The International Society For Optical Engineering	(14068)	

[View all >](#)

## 出版社

Publisher		
<input type="checkbox"/> Elsevier Ltd	(144352)	
<input type="checkbox"/> Elsevier	(121944)	
<input type="checkbox"/> American Chemical Society	(67892)	
<input type="checkbox"/> Institute Of Electrical And Electronics Engineers Inc.	(26782)	
<input type="checkbox"/> Springer Verlag	(25231)	

[View all >](#)

## 赞助机构

Funding sponsor		
<input type="checkbox"/> National Natural Science Foundation Of China	(16140)	
<input type="checkbox"/> National Science Foundation	(2324)	
<input type="checkbox"/> Natural Sciences and Engineering Research Council of Canada	(1002)	
<input type="checkbox"/> National Research Foundation of Korea	(842)	
<input type="checkbox"/> U.S. Department of Energy	(826)	

[View all >](#)

## 开放获取

Open Access		
<input type="checkbox"/> All Open Access	(388)	
<input type="checkbox"/> Gold	(86)	
<input type="checkbox"/> Hybrid Gold	(16)	
<input type="checkbox"/> Bronze	(147)	
<input type="checkbox"/> Green	(195)	

[Learn more ↗](#)

# 快速检索实例：

- 以关键词AI和Learning System进行Ei检索，使用or连接得到相关结果23,303条，需进一步过滤筛选；

The screenshot displays the Engineering Village search interface. At the top, the search bar contains the query: "AND All fields for AI AND All fields for Learning systems". Below the search bar, there are suggested terms: Artificial Intelligence, Deep Learning, Machine Learning, Learning Algorithms, and Reinforcement Learning. The search results section shows "23,303 records found in Compendex for 1884-2022: ((AI) WN ALL) AND ((Learning systems) WN ALL)". The results are sorted by Relevance and displayed in a list format. The first three results are:

- Systematic literature mapping on AI-enabled contemporary learning systems**  
Kabudi, Tumaini (University of Agder, Norway); Pappas, Illias; Oslén, Dag-Håkon Sources: 26th Americas Conference on Information Systems, AMCIS 2020, 2020, 26th Americas Conference on Information Systems, AMCIS 2020  
Database: Compendex  
Document type: Conference article (CA)  
Detailed Show preview Check Local Full text
- Identifying gaps in use of and research on adaptive learning systems**  
Wang, Shuai (SRI Education, SRI International, 1100 Wilson Blvd., Suite 2800, Arlington; VA; 22209, United States); Christensen, Claire; McBride, Elizabeth; Kelly, Hannah; Cui, Wei; Tong, Richard; Shear, Linda; Yarnall, Louise; Feng, Mingyu Sources: CSEdu 2020 - Proceedings of the 12th International Conference on Computer Supported Education, v 1, p 118-124, 2020, CSEdu 2020 - Proceedings of the 12th International Conference on Computer Supported Education  
Database: Compendex  
Document type: Conference article (CA)  
Detailed Show preview Check Local Full text
- AdversarialStyle: GAN Based Style Guided Verification Framework for Deep Learning Systems**  
Wei, Jiefei (Loughborough University, Department of Computer Science, Loughborough, United Kingdom); Meng, Qinggang Sources: IEEE International Conference on Industrial Informatics (INDIN) 2020, 2020, IEEE 18th International Conference on Industrial Informatics (INDIN) 2020  
Database: IEEE Xplore  
Document type: Conference article (CA)  
Detailed Show preview Check Local Full text



# 快速检索实例续一：

- 例如，勾选了最近3年，国家为China和United States，学科限定后点击limit得到相关检索结果1327条，后续可以根据需求再次筛选检索结果

The image shows a search interface with a search bar containing the query: `(((((AI) WN ALL) AND ((Learning systems) WN ALL))) AND ((({723.4} OR {723}) WN CL) AND ((({united states} OR {china}) WN CO) AND ((2022 OR 2021 OR 2020) WN YR)))`. The search results show 1,327 records found in Compendex for 1884-2022. The interface includes a 'Refine' sidebar with filters for 'By physical property', 'By category', 'Year', 'Country/Region', and 'Classification code'. The 'Year' filter shows 2022 (3,83), 2021 (4,42), and 2020 (4,12) selected. The 'Country/Region' filter shows United States (7,45) and China (3,47) selected. The 'Classification code' filter shows Artificial Intelligence (7,85) and Computer Software, Data Handling and (4,93) selected. The search results list three records, each with a title, author, source, and options for 'Full text' and 'Check Local Full-Text'.

**Refine** <<

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

By category  
Download all [Download all](#) [Download all](#)

Limit to Exclude

Add a term

Year [View more](#)

2022 (3,83)  
2021 (4,42)  
2020 (4,12)  
2019 (3,52)  
2018 (2,364)

Country/Region [View more](#)

United States (7,45)  
China (3,47)  
United Kingdom (2,571)  
Germany (1,272)  
Canada (1,239)

Classification code [View more](#)

Artificial Intelligence (7,85)  
Computer Software, Data Handling and (4,93)  
Data Processing and Image Processing (4,044)

Expert search: `(((((AI) WN ALL) AND ((Learning systems) WN ALL))) AND ((({723.4} OR {723}) WN CL) AND ((({united states} OR {china}) WN CO) AND ((2022 OR 2021 OR 2020) WN YR)))` [Reset form](#)

Databases Date Sort by Autostemming Search codes Browse indexes

1,327 records found in Compendex for 1884-2022: `(((((AI) WN ALL) AND ((Learning systems) WN ALL)) + ((({723.4} OR {723}) WN CL) AND ((({united states} OR {china}) WN CO) AND ((2022 OR 2021 OR 2020) WN YR)))` 1 of 54 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 [Download all](#) [Download all](#)

Limit to Exclude

Add a term

Open Access [View more](#)

All Open Access (388)  
Gold (86)  
Hybrid Gold (16)  
Bronze (147)  
Green (195)

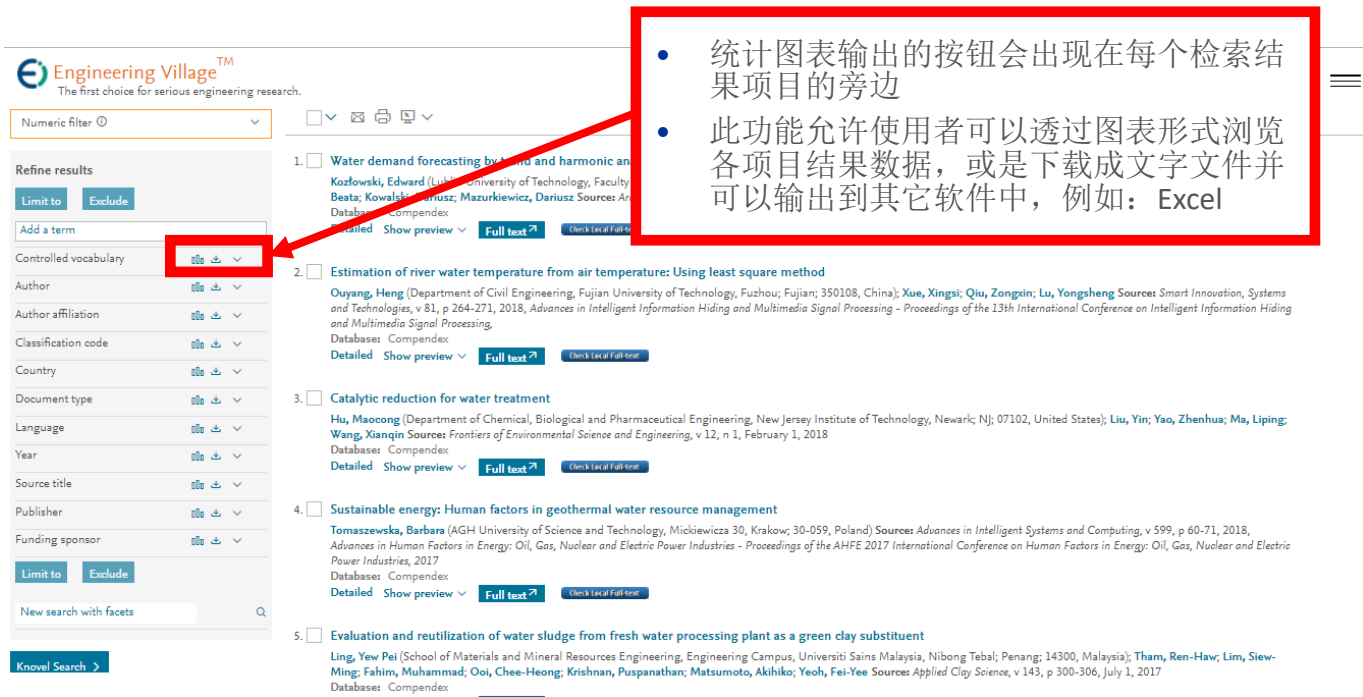
Learn more ?

Controlled vocabulary [View more](#)

- Quality Management of Machine Learning Systems** (Open Access)  
Santhanam, P. (IBM Research AI, T.J. Watson Research Center, Yorktown Heights; NY, United States) Sources: *Communications in Computer and Information Science*, v 1272, p 1-13, 2020, *Engineering Dependable and Secure Machine Learning Systems - Third International Workshop, EDSMLS 2020, Revised Selected Papers*  
Database: Compendex  
Document type: Conference article (CA)  
Detailed Show preview Cited by in Scopus (2) Full text ? Check Local Full-Text
- Scalability in modeling and simulation systems for multi-agent, AI, and machine learning applications**  
Newton, Charles (Soar Technology Inc., 3600 Green Ct Ste 600, Ann Arbor; MI, United States); Singleton, John; Copland, Cameron; Kitchen, Sarah; Hudack, Jeffrey Sources: *Proceedings of SPIE - The International Conference for Optical Engineering*, v 11746, 2021, *Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications III*  
Database: Compendex  
Document type: Conference article (CA)  
Detailed Show preview Full text ? Check Local Full-Text
- Understanding human-AI cooperation through game-theory and reinforcement learning models**  
Schelbe, Beau G. (Human-Centered Computing, Clemson University, United States); Flathmann, Christopher; McNeese, Nathan; Canonico, Lorenzo Barberis Sources: *Proceedings of the Annual Hawaii International Conference on System Sciences*, v 2020-January, p 348-357, 2021, *Proceedings of the 54th Annual Hawaii International Conference on System Sciences, HICSS 2021*  
Database: Compendex  
Document type: Conference article (CA)  
Detailed Show preview Full text ? Check Local Full-Text

Feedback

## 二、分析检索结果



Engineering Village™  
The first choice for serious engineering research.


Numeric filter 0

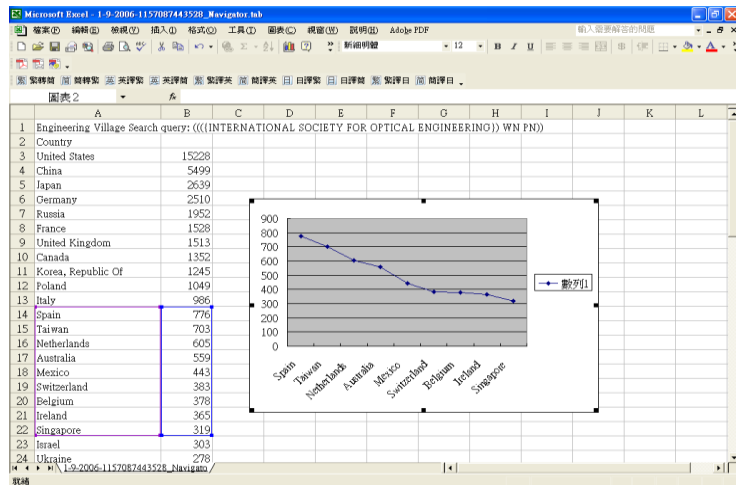
Refine results  
Limit to Exclude  
Add a term  
Controlled vocabulary 统计图 统计图 统计图  
Author 统计图 统计图 统计图  
Author affiliation 统计图 统计图 统计图  
Classification code 统计图 统计图 统计图  
Country 统计图 统计图 统计图  
Document type 统计图 统计图 统计图  
Language 统计图 统计图 统计图  
Year 统计图 统计图 统计图  
Source title 统计图 统计图 统计图  
Publisher 统计图 统计图 统计图  
Funding sponsor 统计图 统计图 统计图  
Limit to Exclude  
New search with facets Q

Knovel Search >

- 1.  **Water demand forecasting by trend and harmonic analysis**  
Kozłowski, Edward (Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland); Kowalczyk, Beata; Kowalczyk, Marcin; Mazurkiewicz, Dariusz Source: *Applied Mathematical Modelling*, v 52, p 1-12, February 1, 2018, 12 p. Databases: Compendex Plus  
Detailed Show preview Full text Click to download full text
- 2.  **Estimation of river water temperature from air temperature: Using least square method**  
Ouyang, Heng (Department of Civil Engineering, Fujian University of Technology, Fuzhou; Fujian; 350108, China); Xue, Xingsi; Qiu, Zongxin; Lu, Yongsheng Source: *Smart Innovation, Systems and Technologies*, v 81, p 264-271, 2018, *Advances in Intelligent Information Hiding and Multimedia Signal Processing - Proceedings of the 13th International Conference on Intelligent Information Hiding and Multimedia Signal Processing*. Databases: Compendex Plus  
Detailed Show preview Full text Click to download full text
- 3.  **Catalytic reduction for water treatment**  
Hu, Maocong (Department of Chemical, Biological and Pharmaceutical Engineering, New Jersey Institute of Technology, Newark NJ; 07102, United States); Liu, Yin; Yao, Zhenhua; Ma, Liping; Wang, Xianqin Source: *Frontiers of Environmental Science and Engineering*, v 12, n 1, February 1, 2018, 1 p. Databases: Compendex Plus  
Detailed Show preview Full text Click to download full text
- 4.  **Sustainable energy: Human factors in geothermal water resource management**  
Tomaszewska, Barbara (AGH University of Science and Technology, Mickiewicza 30, Krakow; 30-059, Poland) Source: *Advances in Intelligent Systems and Computing*, v 599, p 60-71, 2018, *Advances in Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries - Proceedings of the AHFE 2017 International Conference on Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries, 2017*. Databases: Compendex Plus  
Detailed Show preview Full text Click to download full text
- 5.  **Evaluation and reutilization of water sludge from fresh water processing plant as a green clay substituent**  
Ling, Yew Pei (School of Materials and Mineral Resources Engineering, Engineering Campus, Universiti Sains Malaysia, Nibong Tebal; Penang; 14300, Malaysia); Tham, Ren-Haw; Lim, Siew-Ming; Fahim, Muhammad; Ooi, Chee-Heong; Krishnan, Puspanathan; Matsumoto, Akihiko; Yeoh, Fei-Yee Source: *Applied Clay Science*, v 143, p 300-306, July 1, 2017, 7 p. Databases: Compendex Plus  
Detailed Show preview Full text Click to download full text

# 分析检索结果

- 点选  图标可以让您将图表输出成tab档案
- 您也可以将输出的档案以 **Excel** 软件开启分析管理



# 快速检索实例续二：分析检索领域研究热点

- AI和学习系统的检索，在使用年、国家和学科精简后，找到受控词 Controlled Vocabulary，并下载数据库。

The screenshot shows the Engineering Village interface with 1,327 records. A 'Controlled vocabulary' pop-up window is displayed, listing various terms and their counts. An orange arrow points from the 'Controlled vocabulary' header to the search query table on the right.

Controlled vocabulary	Count
Learning Systems	472
Artificial Intelligence	427
Deep Learning	329
Reinforcement Learning	308
Learning Algorithms	138
Internet Of Things	128
Decision Making	113
Machine Learning	106
Natural Language Processing Systems	95
Intelligent Systems	84
Network Security	77
Forecasting	76
Support Vector Machines	76
Deep Neural Networks	72
Students	71
Convolutional Neural Networks	66
Multi Agent Systems	62
Neural Networks	59
E-Learning	57
Semantics	53
Decision Support Systems	37
Big Data	35
Diagnosis	35
Intelligent Computing	35
Stochastic Systems	35
Digital Storage	34
Long Short-Term Memory	34
Predictive Analytics	34
Transfer Learning	34
Data Handling	33
Privacy By Design	33
Education Computing	32
Human Computer Interaction	32
Embedded Systems	31
Behavioral Research	30
Convolution	30
Image Enhancement	30
Information Management	30
Recurrent Neural Networks	30
Application Programs	29
Large Dataset	29

Engineering Village	
Search Query	((((AI) WN ALL) AND ((Learning systems) WN ALL))) AND ((({723.4} OR {723}) WN CL) AND ((({united states} OR {china}) WN CO) AND ((2022 OR 2021 OR 2020) WN YR)))
Databases	Compendex
Report Generated on	11/9/2021
Controlled vocabulary	Count
Learning Systems	472
Artificial Intelligence	427
Deep Learning	329
Reinforcement Learning	308
Learning Algorithms	138
Internet Of Things	128
Decision Making	113
Machine Learning	106

# Refine Results 的作用

- 所在领域的标杆作者和机构的研究动态：看作者**Autor**和机构**Affiliation**
- 所在领域的热点，他们又有哪些成就：看**Controlled Vocabulary**
- 你关心的课题所涉及的领域，是否能有新的切入点发现新的研究方向：看学科**Classification**
- 课题所处的生命周期，通过文献计量的年代分析：看年**year**
- 课题的热门期刊，作为投递文章的选择：看期刊或会议**Source title**

1896 1907 1956 1979 1989 1993 2006  
1884 1902 1937 1963 1988 1993 2006

[www.ei.org](http://www.ei.org)

## Thesaurus Search – 叙词检索



# 索引实现检索的查全和查准



## Example

An engineer wants to evaluate peer-reviewed literature on rechargeable batteries.

They need to survey all recent publications and don't want to miss anything.

术语表达

材料种类

不同机理

电池类型

Engineer

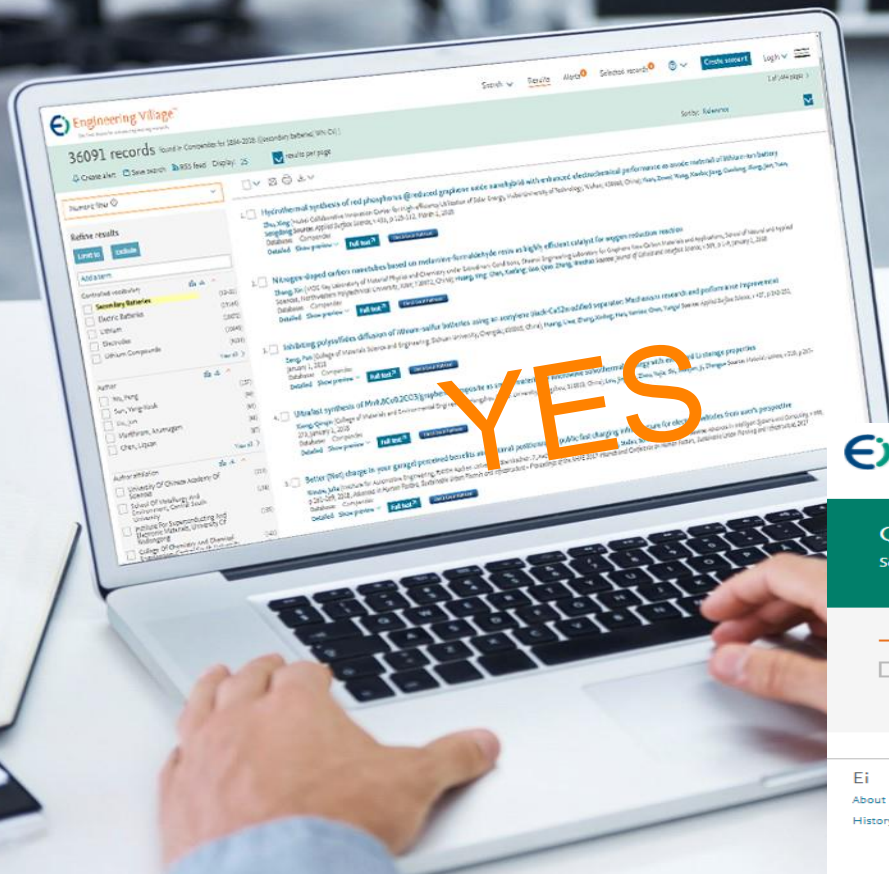
# 如果没有Engineering Village上的Ei Compendex



工程师需要花上2页半长的  
的搜索查询才能相当于Ei  
Compendex叙词表的贡献



# 而在Engineering Village上的Ei Compendex...



工程师只需通过叙词表中的“Secondary batteries”在Engineering Village上检索所需结果

 Engineering Village™  
The first choice for serious engineering research.

Search  Results

Quick search

Search in: All fields for

Databases  All  Compendex  GEOBASE  Inspec  GeoRef  NTIS  US Patents  Paper  EP Patents

Sort by

Rechargeable batteries

Recommended terms: Secondary batteries

Recharging (underground waters)

Auto Suggest. Powered by Ei Thesaurus

## 二、精确查找特定研究领域： Ei独有的工程索引叙词表

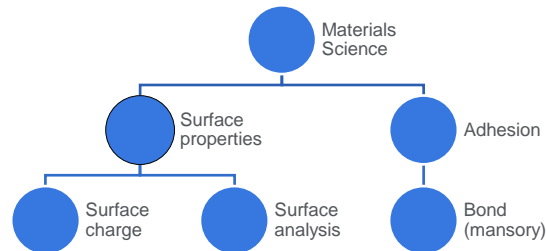
从1884年起，一直在发展中



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。

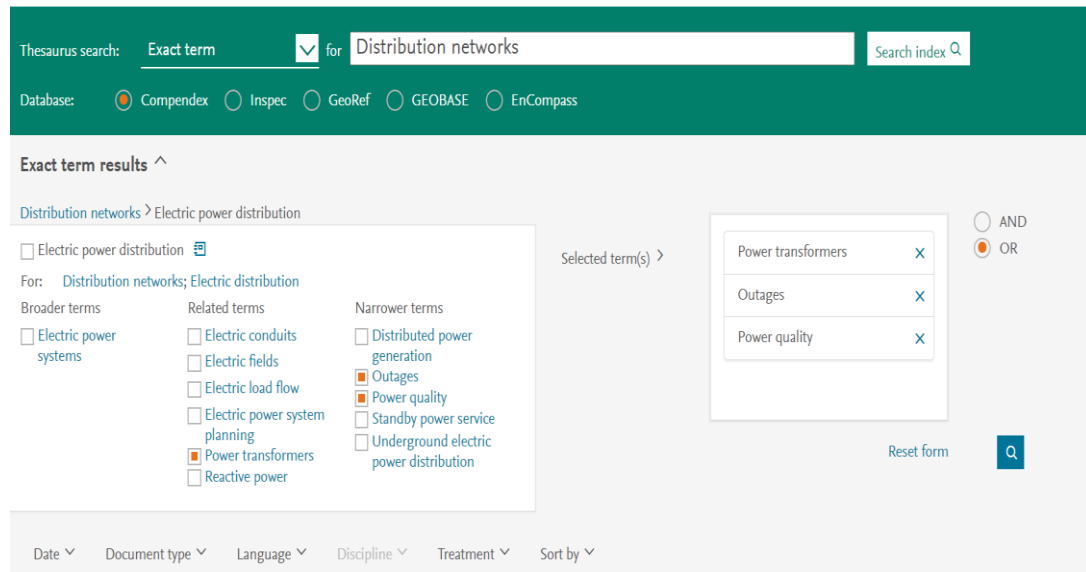
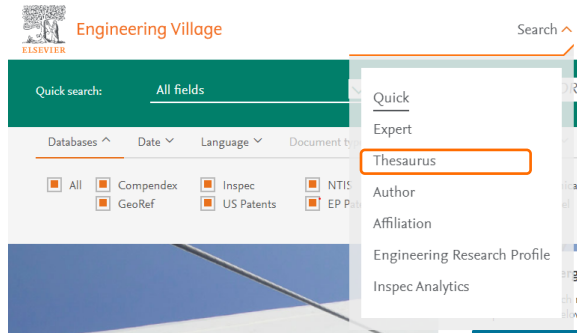
用户利用叙词表可从主题角度检索文献，进而提高文献的查准率。

利用叙词表还可以从主题概念的角度扩展或缩小检索范围。



# 实例：

在Search中切换到Thesaurus：以关键词Distribution networks进行Thesaurus Search：点击“Thesaurus”，打开叙词表，输入关键词，点击“Search Index”，系统显示与之相应的叙词；



# 不同科研时期EI的正确应用：

## 二、后续科研

- Expert Search **专家检索**
- Refine by physical property **物性检索**
- Engineering Research Profile **工科研究档案**

Quick search: All fields for

Suggested terms:

Turn on AutoSuggest | + Add search field | Reset form

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

909,324 records found in Compendex for 1884-2020: ((Semiconductor) WN ALL) 1 of 3

Sort by: Relevance

**实时追踪科研动态**

Search v Results <sup>7</sup> Alerts <sup>2</sup> Selected records <sup>0</sup> More v

### Alerts and Saved searches

Name	Search query	Status	Recent pub	
<input type="checkbox"/> ((petroleum) WN ALL) <input type="button" value="edit"/>	<((petroleum) WN ALL) > More details v	<input checked="" type="checkbox"/> Alert	<input type="checkbox"/> Off	<input type="button" value="envelope"/>
<input type="checkbox"/> ((Semiconductor) WN ALL) <input type="button" value="edit"/>	<((Semiconductor) WN ALL) > More details v	<input checked="" type="checkbox"/> Alert	<input type="checkbox"/> Off	<input type="button" value="envelope"/>



# 重复查找很 辛苦



## Search history

6 searches



Combine searches:

e.g. (#1 AND #2) NOT #3



View

Combine searches	Search query	Actions
#6 <input type="checkbox"/>	422073 results in (Compendex) for: ((petroleum) WN All fields) Details ▾	
#5 <input type="checkbox"/>	385 results in (Compendex) for: (((Li, Jianrong)) WN AU) Details ▾	
#4 <input type="checkbox"/>	1269 results in (Compendex) for: ((blueberry) WN All fields) Details ▾	
#3 <input type="checkbox"/>	124 results in (Compendex) for: (((Blueberry) WN ALL)) AND ((2018) WN YR) Details ▾	
#2 <input type="checkbox"/>	1269 results in (Compendex) for: ((Blueberry) WN All fields)	

# 选定标杆持续关注

Expert search:

(Semiconductor wn TI and Tsinghua University wn AF)

Improved noise characteristics of mutually injection locked **semiconductor** lasers in a weak coupling regime [\(Open Access\)](#)

**Ke, Xu** (Beijing National Research Center for Information Science and Technology (BNRist), Department of Electronic Engineering, **Tsinghua University**, Beijing; 100084, China); **Ma, Weichao**; **Xiong, Bing**; **Sun, Changzheng**; **Hao, Zhibiao**; **Han, Yanjun**; **Wang, Jian**; **Wang, Lai**; **Li, Hongtao**; **Yu, Jiadong**; **Luo, Yi** Source: *Japanese Journal of Applied Physics*, v 58, n 6, 2019

Database: Compendex

Document type: Journal article (JA)

Detailed Show preview  [Full text ↗](#)

315 records found in Compendex for 1884-2020: (Semiconductor wn TI and Tsinghua University wn AF)

Create alert

Remove search

Share search

RSS feed

1884 1896 1902 1907 1937 1956 1963 1979 1988 1989 1993 1998 2006

## Expert Search – 专家检索



# Expert Search – 专家检索

Engineering Village™  
The first choice for serious engineering research.

Selected records 0 ? v Create account

## Expert search

Search for:

Reset form

Databases v Date v Sort by v Autostemming v Search codes ^ Browse indexes v

检索代码

Database	Code = Field	Code = Field
c = Compendex	AB = Abstract (c,i,n,pc,cm,cb,el,ep,g,f,u,e,k)	CVMA= Major term as a reagent (el,ep)
i = Inspec	AN = Accession number (c,i,n,pc,el,ep,g,f,k)	CVMN= Major term with no role (el,ep)
n = NTIS	AF = Affiliation/Assignee (c,i,n,pc,cm,el,ep,g,f,u,e)	MS = Map Scale (f)
pc = PaperChem	ALL = All fields (c,i,n,pc,cm,cb,el,g,f,u,e,k)	MP = Map Type (f)
cm = Chemica	ANN = Annotation (f)	MI = Material identity number (i)
cb = CBNB	AI = Astronomical indexing (i)	AG = Monitoring agency (n)
el = EnCompassLIT	AU = Author/Inventor (c,i,n,pc,el,ep,g,f,u,e,k)	NT = Notes (n)
ep = EnCompassPAT	AV = Availability (n,cb,f)	NU = see Numerical Data Codes (c,i)
n = CFOR&SE	CR = CAS registry number (cm,cb,el,en)	NI = Numerical indexing (i)

Codes displayed will depend on your current database selection

# 通配符

- \*右截词-命中检索词起始部分相同的记录
- Learn\* 命中learn, learns, learning, learned, learnt, learner(s), learner's, learnability, learnable

## 位置算符

- 词组检索 “ ” 或{}- 词间不能插词，词序不能颠倒
- “International Space Station”命中包含有词组“International Space Station”的记录

1884 1896 1902 1907 1937 1956 1963 1979 1988 1983 1993 1995 2006

Refine by physical property 物性检索

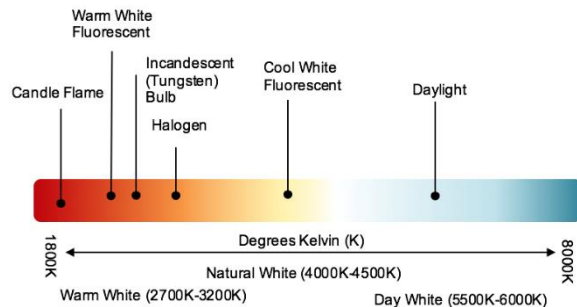


## 检索科研前沿（收录预出版及数值检索）：

Engineering Village支持Compendex和Inspec数值搜索（Refine by physical property）的平台。数值数据通常描述工程文献中最重要的方面。通过数字数据索引，用户可以发现通过纯文本搜索无法发现的文档。Compendex索引的62种不同的物理和化学性质。在Compendex和Inspec数据库中可用于交叉搜索的记录超过650万条。460,000种不同的数字数据写入方式 - 匹配，转换和标准化。帮助用户进行科学前沿跟踪。

# 案例介绍：白色LED的研发

LED的发光色取决于其温度。



Quick search: All fields



for



Turn off AutoSuggest | + Add search field | Reset form

By physical property ^

Filter results by physical properties such as size, temperature, pressure and [many more](#).

Temperature ▾

There are 4,386 total results for Temperature

between ▾

Kelvin (K) ▾

Refine

*Title:* White light-emitting diodes based on ultrasmall CdSe nanocrystal electroluminescence

*Abstract.* ... these LEDs have excellent color characteristics, defined by their pure white CIE color coordinates (0.333, 0.333), correlated color temperatures of **5461-6007 K**, and color rendering Indexes as high as 96.6.

...

Numerical data indexing: temperature 5.46e+03K to 6.01e+03K

# 实例：纳米技术

2,305 records found in Compendex for 1884-2020: ((cmos) WN ALL) \* + (NU\_SIZE LTE 14 nm) \* 1 of 93 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 >.

Size

There are 2,305 total results for Size

14

Nanometer (nm) Refine

Controlled vocabulary

- Cmos Integrated Circuits (1,444)
- Mosfet Devices (444)
- Gates (Transistor) (288)
- Mos Devices (282)
- Finfet (230)

View more >

Comparative analysis of standard cells performance for 7nm FinFET and 28nm CMOS technologies with considering for parasitic elements

Ilin, Sergey (JSC 'Molecular Electronics Research Institute', Moscow, Russia); Ryzhova, Daria; Korshunov, Andrey Sources: *Proceedings of the 2018 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, EICoN Rus 2018*, v 2018-January, p 1360-1363, March 14, 2018, *Proceedings of the 2018 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, EICoN Rus 2018*

Database: Compendex

Document type: Conference article (CA)

Detailed Show preview Full text Check Local Full text

Effect of fin shape of tapered FinFETs on the device performance in 5-nm node CMOS technology

Kurniawan, Erry Dwi (Department of Engineering and System Science, National Tsing Hua University, Hsinchu, 300, Taiwan); Yang, Hao; Lin, Chia-Chou; Wu, Yung-Chun Sources: *Microelectronics Reliability*, v 83, p 254-259, April 2018

Database: Compendex

Document type: Journal article (JA)

Detailed Show preview Cited by in Scopus (3) Full text Check Local Full text

3. Testing system for radiation effects of CCD and CMOS image sensors

Li, Yu-Dong (Xinjiang Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Urumqi 830011, China); Wang, Bo; Guo, Qi; Ma, Li-Ya; Ren, Jian-Wei Sources: *Guangxue Jingmi Gongcheng/Optics and Precision Engineering*, v 21, n 11, p 2778-2784, November 2013

Language: Chinese

Database: Compendex

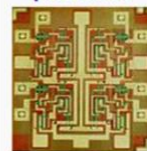
Document type: Journal article (JA)

Detailed Show preview Cited by in Scopus (24) Full text Check Local Full text

4. Opportunities and challenges of FinFET as a device structure candidate for 14nm node CMOS technology

Yamashita, T. (IBM Research, Albany Nanotech., Albany, NY 12203, United States); Basker, V.S.; Standaert, T.; Yeh, C.-C.; Faltermier, J.

## Semiconductor manufacturing processes



10 μm – 1971  
6 μm – 1974  
3 μm – 1977  
1.5 μm – 1982  
1 μm – 1985  
800 nm – 1989  
600 nm – 1994  
350 nm – 1995  
250 nm – 1997  
180 nm – 1999  
130 nm – 2001  
90 nm – 2004  
65 nm – 2006  
45 nm – 2008  
32 nm – 2010  
22 nm – 2012  
14 nm – 2014  
10 nm – 2017  
7 nm – ~2018  
5 nm – ~2020

用户受益:

一：打破计量单位限制

二：提高查全率-数值检索比关键词检索的结果多出一倍

三：高效便捷地跟踪前沿

1884 1896 1907 1956 1979 1983 1993 2006  
1902 1937 1963 1988 1993 2006

Engineering research profile 工程机构检索  
Author/Affiliation Search 作者/单位检索

# 工程机构概述报告 (Engineering research Profile)

NEW FEATURE

## Engineering Research Profile

Summary of engineering research output for schools and research institutions.

Analysis includes:

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

Publishing trend

▶ Go to Engineering Research Profile Page



最多的基金源是哪里？



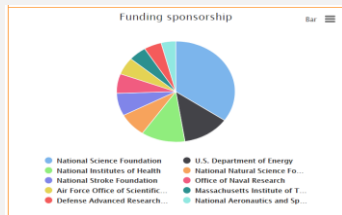
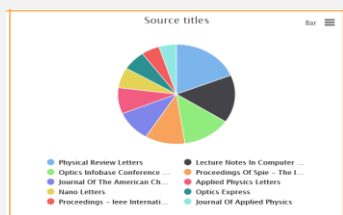
谁在发表？



教职员在哪里发表论文？



最热的研究主题是什么？



弄清自己机构的工科类研究并追踪论文发表情况: 只需单个界面



Engineering Village™



## Institutions & groups



Search & add

Search institution by name...

- Massachusetts Institute of Technology + X
- Jilin University + X

Remove all X

# Engineering research profile ?

Jilin University ☆

39,365 records in Compendex

Filter by: 2010



to 2020



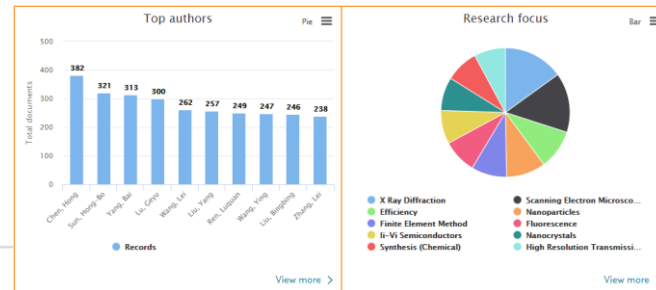
AND

Select subject Area



Reset filters

Top authors  
Research focus  
Funding  
Publishing trend  
Subject area  
Source titles

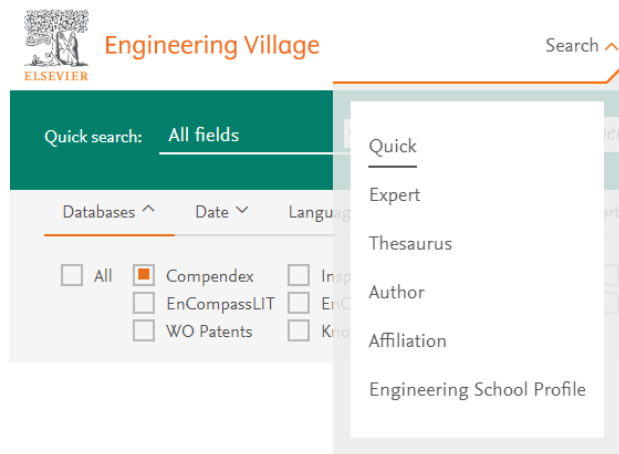


# 2021年新推出作者/单位检索

**问题：** 由于作者的名字有表述差异，难以找全特定作者/单位所发表的文献

**我们的方案：** 用户们现在可以在Engineering Village的Compendex中利用经过标准化/消歧处理的作者、机构记录查询作者和机构信息。

**实现的价值：** 能够更精确、更快得到Compendex中的作者和机构信息



## Author search

Last name  First name

Affiliation   Show exact matches only | [Reset form](#)

\* Searches are limited to authors within Compendex records

193 author results in Compendex for Last name: "Smith", First name: "J", Affiliation: "California"

1 of 8 pages >

Display: 25  results per page

Sort on: Relevance

### Refine results

Source Title

Science (48)

Affiliation name:

Show exact matches only

\* Searches are limited to affiliations within Compendex records

7 affiliation results in Compendex for Affiliation: "Chinese academy of science"

1 of 1 pages

Display: 100  results per page

Sort by: Count (DESC)

### Refine <<

By category

Country

China (5)

City

Beijing (2)

Nanjing (1)

Urumqi (1)

	Name	Documents	City	Country
1.	<b>Institute of High Energy Physics Chinese Academy of Science</b> Chinese Academy Of Sciences	<a href="#">View 6,957 records</a>	Beijing	China
2.	<b>Institute of Policy and Management Chinese Academy of Science</b> Chinese Academy Of Sciences	<a href="#">View 642 records</a>	Beijing	China
3.	<b>Institute of Botany, Jiangsu Province and Chinese Academy of Science</b> Jiangsu Province And Chinese Academy Of Sciences	<a href="#">View 96 records</a>	Nanjing	China
4.	<b>Graduate University of Chinese Academy of Science</b> Graduate University of Chinese Academy of Science	<a href="#">View 1 records</a>		
-	<b>Institute of Remote Sensing Applications of</b>	<a href="#">View 1 records</a>		



ELSEVIER

Feedback

Engineering Village™

# 文献阅读和管理习惯的养成

以第一作者身份（含共一）发表SCI论文17篇；总影响因子200+；

ESI高被引论文9篇，ESI热点论文1篇，总引用超2600次；

2015年 获得美国材料研究学会研究生奖。

2017年 获评清华大学“学术新秀”称号。

2017年 获评清华大学特等奖学金



彭翊杰

清华大学2013级博士生



# 钢铁是怎样炼成的



Ironman



Superman

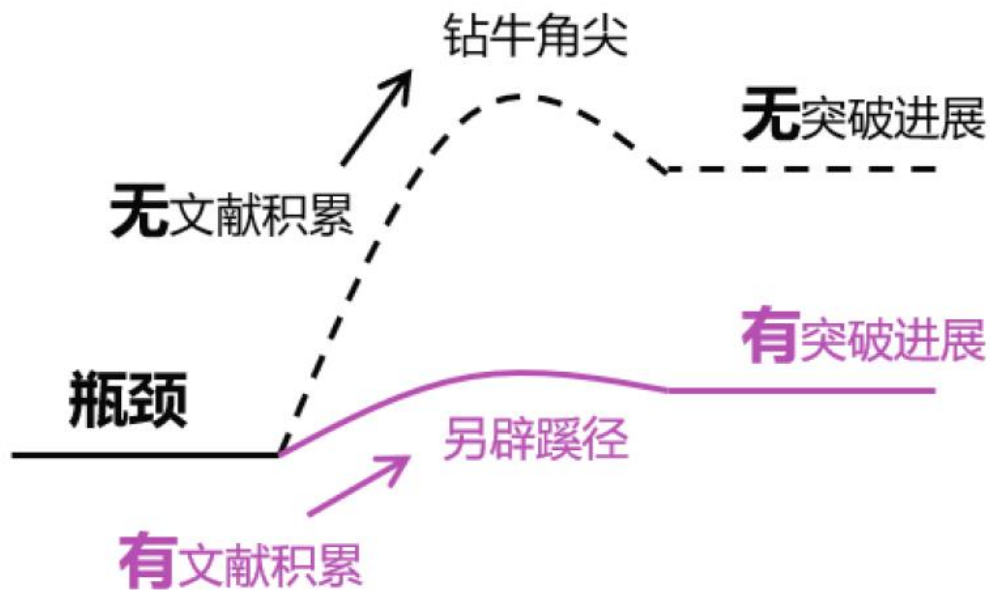
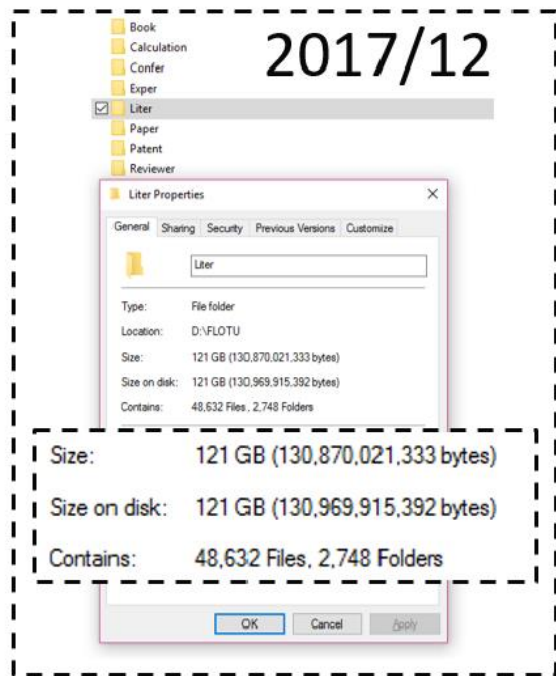


Spiderman

**No!**  
It's  
**Folderman!**  
文件夹哥  
100Gの男

---

# 文献积累与知识储备-厚积薄发



# 有五种选项保存需要的文章

## Record

Record 1 from Compendex for: ((water) WN All fields), 1884-2018

< Back to results

Full text



Abstract

Detailed

Compendex Refs 43

**Water dem**

Kozłowski, Edward

Source: Archives  
10.1016/j.acme.2

Author affiliation  
Management, Na  
Lublin Universi  
Nadbystrzycka 40

### Download record(s)

NOTE: Your selected records (maximum of 500) will be kept until your session ends. To clear selected records:  
\* Go to the Selected records page and clear records; OR  
\* End your session

#### Location:

- My PC
- Mendeley
- RefWorks
- Google Drive
- Dropbox
- Your Folder(s)

#### Format:

- EndNote(RIS, Ref. Manager)
- BibTeX
- Text(ASCII)
- CSV
- Excel®
- PDF
- RTF(Word®)

#### Output:

- Current page view
- Citation
- Abstract
- Detailed record

File name:

Engineering\_Village

Login or Create account to save to My Preferences

\_current\_page\_view\_Date/Time.pdf

Cancel

Download record(s)

Disposal,





# 文献管理

# 文献管理

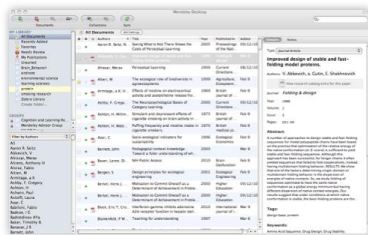


参考文献管理工具  
学术社交平台

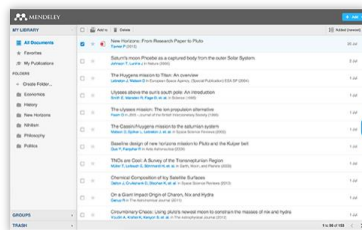
## •使用我们的iOS和Android应用程序移动阅读论文

- All references and full text articles stored in cloud and available on

- Desktop software for offline access
- Web browsers for easy access
- Mobile for travelling



Desktop



Web



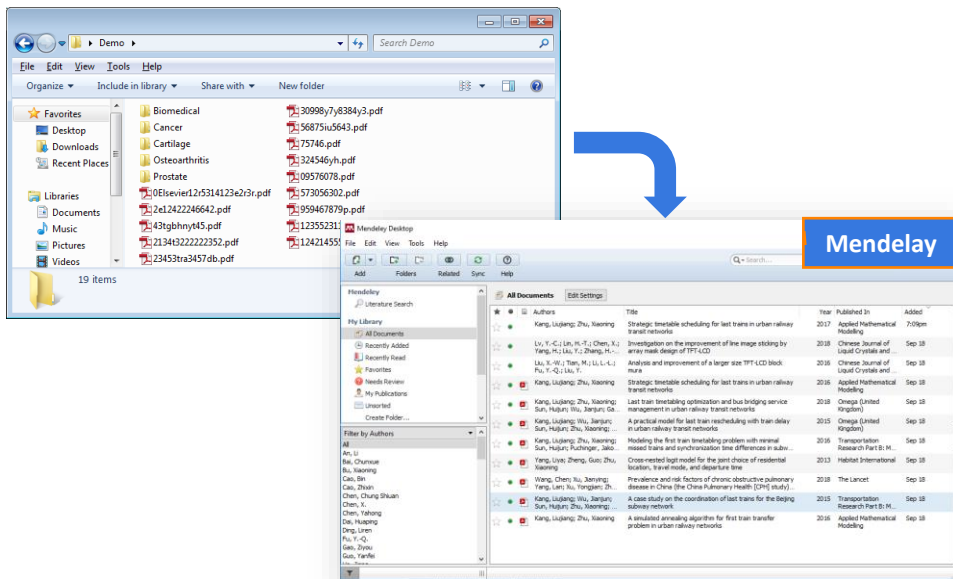
Mobile

# 文献管理



参考文献管理工具  
学术社交平台

•随时随地在线访问您的论文



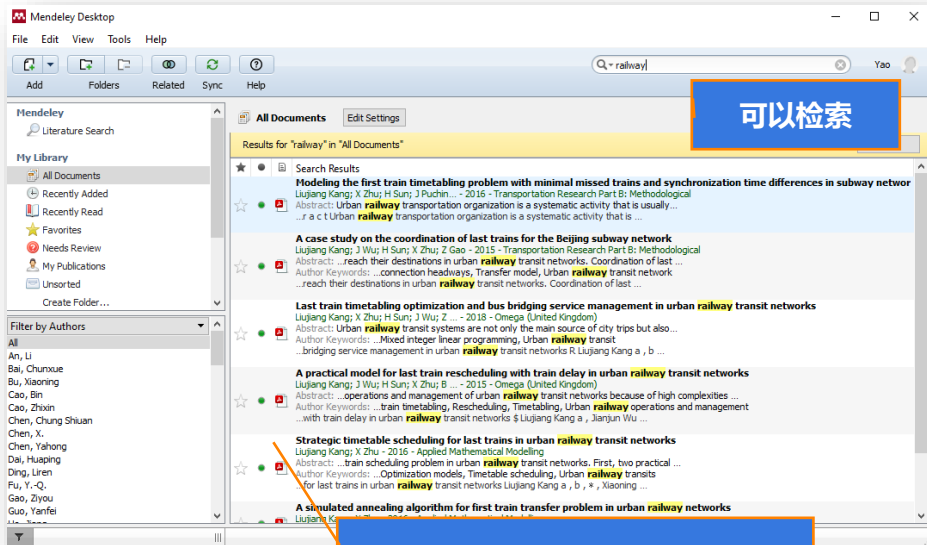
# 文献管理



参考文献管理工具

学术社交平台

## 免费的2G云空间



可以检索

已保存全文，可直接调取

# 文献管理



参考文献管理工具

学术社交平台

# 阅读笔记

The screenshot shows the Mendeley Desktop interface. The main window displays a research article titled "of young athletes" by T. Golditz, S. Steib, K. Pfeifer, M. Uder, K. Gelse, R. Janka, F.F. Hennig, and G.H. Welsch. The article includes an abstract, a summary, and a methods section. A note is added to the article, stating: "Ankle stability proves to be a very important element to prevent spine injuries as it acts as a base to carry the body weight of individual. It also has a important function which is to improve posture of individual. Ankle injuries are often the most frustrating injury as compared to other joints because it is the most frequent used part". The note is highlighted in blue.

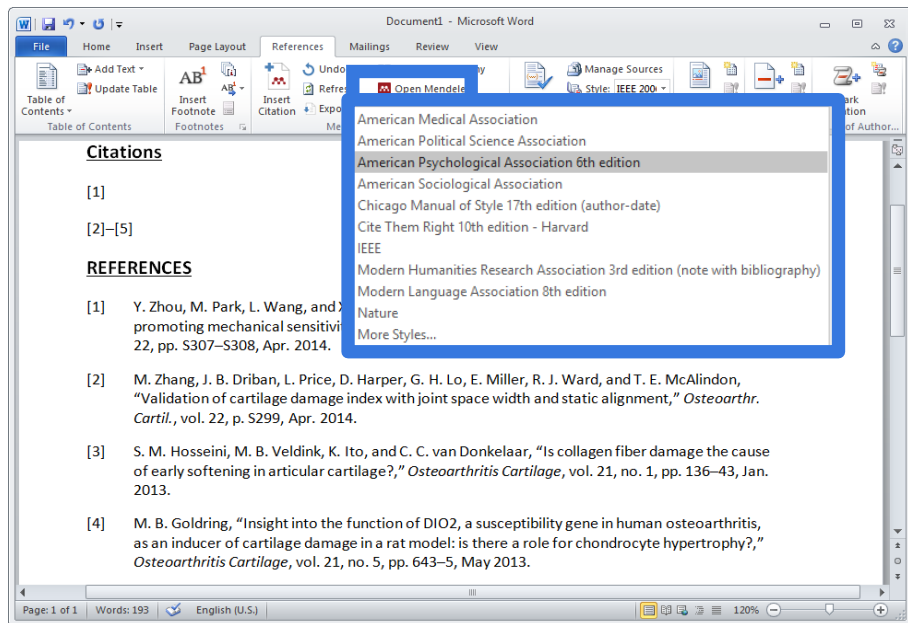
增加备注

# 文献管理

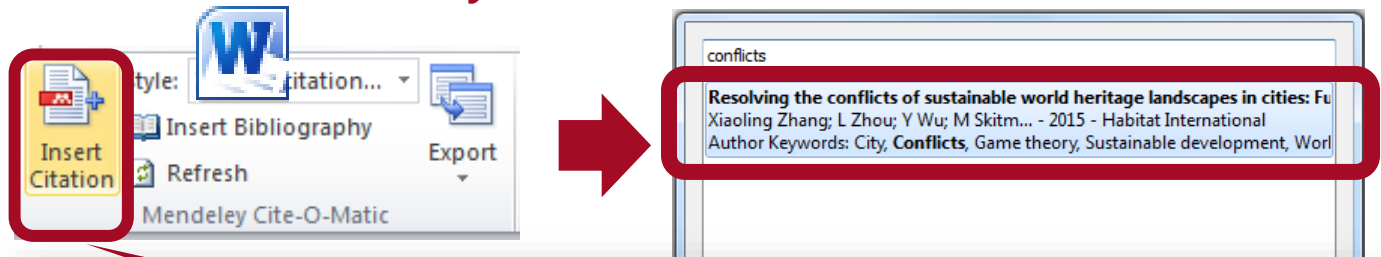


参考文献管理工具  
学术社交平台

## Word插件

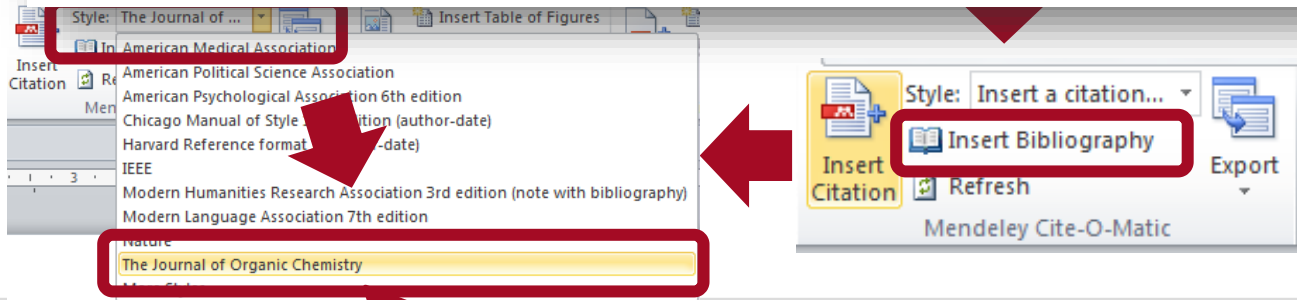


# 将文献通过Mendeley引用至您的手稿中



(1) Zhang, X.; Zhou, L.; Wu, Y.; Skitmore, M.; Deng, Z. *Habitat Int.* 2015, 46, 91–100.

将文献以指定方式插入手稿中



选择相应期刊接受的引用格式

# EV特色

## 检索利器

- 1.有效筛选和分析：提供**多种字段**支持精确检索，并可做成图表如：控制词汇、学科、作者、机构、文件类型、年刊名等(共10种)
- 2.知识图谱：叙词词表及检索
- 3.专业的专家检索模式：可自行输入检索语法
- 4.专为科研人员打造的追踪前沿利器：数值检索
- 5.一键获取学校Ei收录概览：工科机构档案和作者/机构检索





## 帮助

Search ▾ Alerts <sup>0</sup> Selected records <sup>0</sup> More ▾ ? ^

Create account Sign in

ing) AND {social media}

Turn on AutoSuggest |

Discipline ▾ Treatment ▾

EnCompassLIT  EnCompassPAT

- Help
- Contact
- Ask an expert
- Product releases
- Quick search tutorial
- Video help

## 售后服务

- 对于与Engineering Village相关的一般查询，例如数据库访问问题，IP授权，产品使用（例如检索问题和检索式优化等），内容（例如，缺失文章和索引问题），请直接联系我们的客户支持团队（支持中文）：  
  
爱思唯尔客户服务联系信息：
  - 电话: 4008426973
  - E-mail: [support.china@elsevier.com](mailto:support.china@elsevier.com)
- 有关Ei Compendex和GEOBASE覆盖范围建议的任何疑问，请直接用英文联系：[titlesuggestion@engineeringvillage.com](mailto:titlesuggestion@engineeringvillage.com)

# 相关网站资源

- **Ei最新刊源信息公布链接为**  
**<https://www.elsevier.com/solutions/engineering-village/content>**
- 中文使用指南，培训课件和培训视频：爱思唯尔：  
<https://www.elsevier.com/zh-cn/solutions/engineering-village>
- 英文产品相关信息：**[www.elsevier.com/engineering-village](http://www.elsevier.com/engineering-village)**

## 科学世界的变化给研究人员带来新挑战



# 2021年 Engineering Village 检索竞赛

活动时间：2021年10月21日—12月10日

用户参与答题即可获得爱思唯尔思唯社30能量积分，一二三等奖（按成绩排名计算，共6名）、团体奖（按团体参与人数排名计算，共3名）和幸运奖（随机抽取20名）还将赢得限定礼品奖励。

## 一等奖 (1名)

Beats Solo3无线头戴式耳机  
(价值人民币1389元)



## 二等奖 (2名)

Kindle电子书阅读器  
(价值人民币726元)



## 三等奖 (3名)

无线键盘鼠标  
(价值人民币200元)



## 幸运奖 (20名)

乐歌便携充电宝  
(价值人民币80元)



## 团体奖 (3名)

小米空气净化器  
(价值人民币825元)



# 参赛通道



扫描二维码提交个人信息，报名成功后根据提示参与答题。

Elsevier

谢谢!



**Engineering Village info site:** <https://www.elsevier.com/solutions/engineering-village/content>  
**Engineering Village China Site:** <https://www.elsevier.com/zh-cn/solutions/engineering-village>  
**Engineering Village blog:** <https://blog.engineeringvillage.com/>  
**Twitter:** <https://twitter.com/engvillage>  
**Helpdesk:** <https://service.elsevier.com/app/contact/supporthub/engineering-village/>  
**For Author:** [editorial@engineeringvillage.com](mailto:editorial@engineeringvillage.com)  
**For Publishers:** [titlesuggestion@engineeringvillage.com](mailto:titlesuggestion@engineeringvillage.com)

