



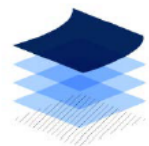
ELSEVIER

# Engineering Village- 开展工程领域研究的首选方案



# 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**

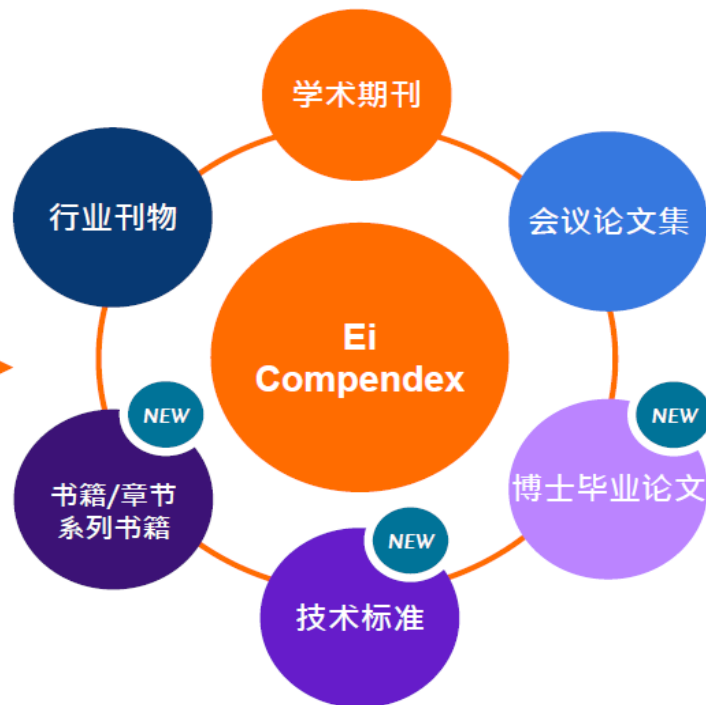
1970年至今



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



# 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



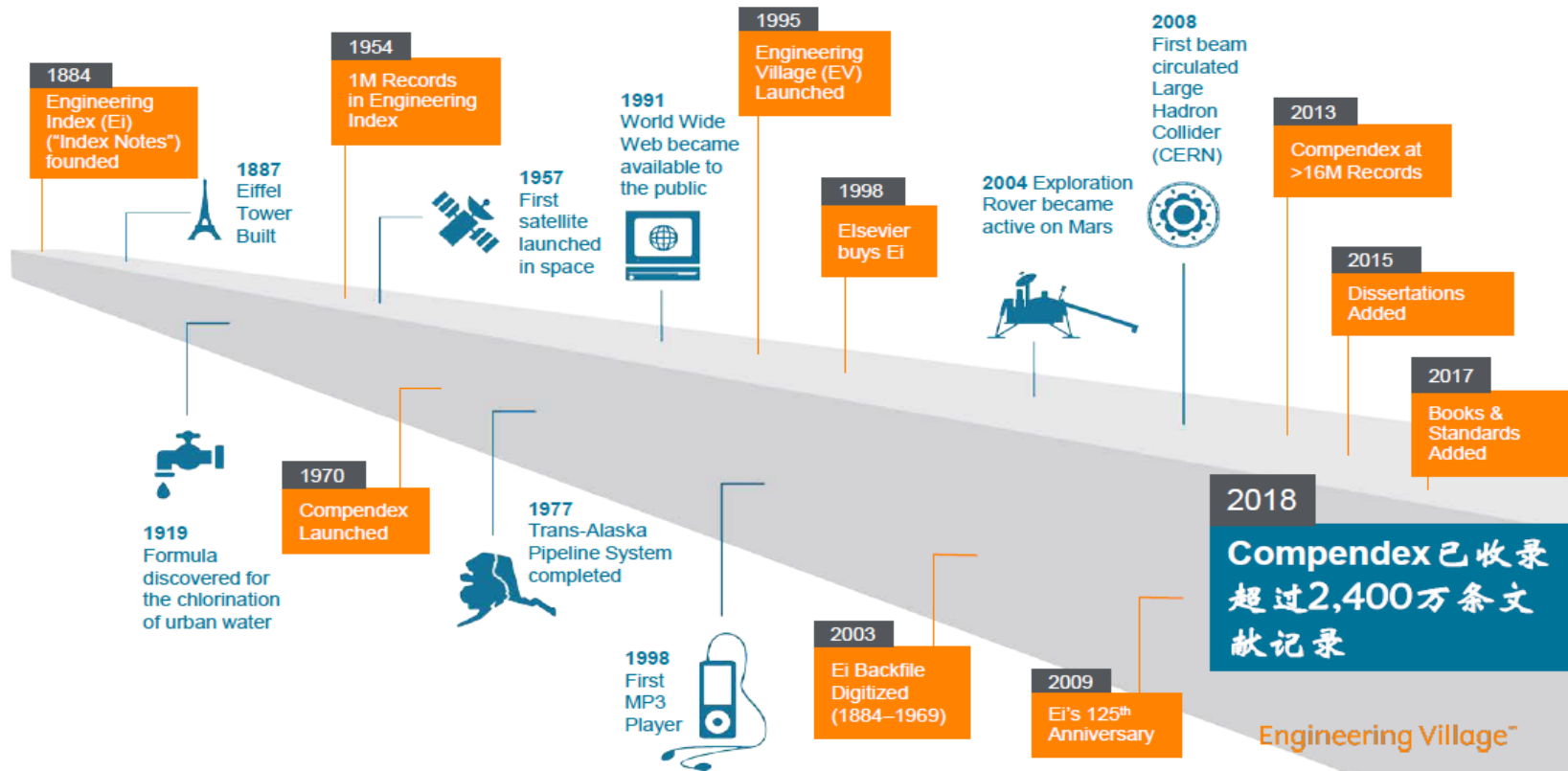
在多个系统中  
重复搜索

以最少的时间和劳力取得最大的成果

# 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



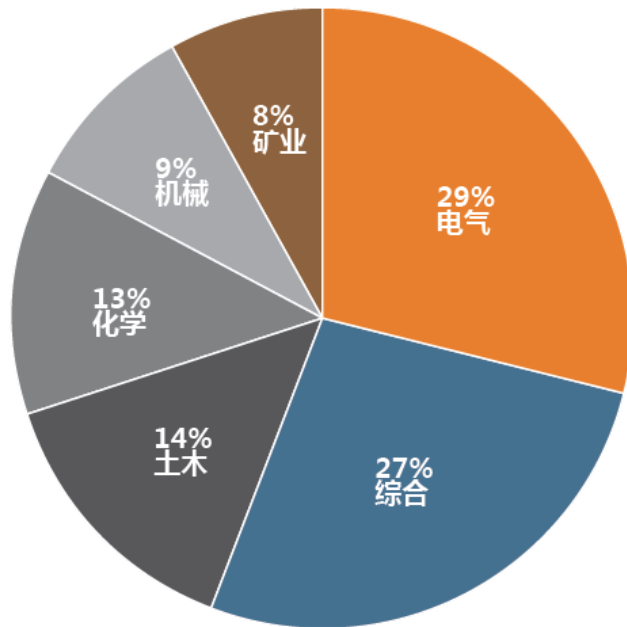
20所全球顶尖大学  
100% 使用  
(US News & World Report)



## 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



# 在工科文献调研中的应用 EI数据库

## 一、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。

The screenshot shows the Engineering Village search interface. At the top, the logo reads "Engineering Village™ The first choice for serious engineering research." To the right are links for "Search", "Alerts", and "Selected records". Below this is a "Quick search" section with a search bar containing the text "Search for... e.g. transcription factors AND jon smith". Underneath the search bar are various filters: "Databases", "Date", "Document type", "Language", "Treatment", "Discipline", "Sort by", "Autostemming", and "Browse indexes". The "Treatment" filter is expanded, showing a list of options: "All Treatments", "Experimental", "Management aspects", "Applications", "General review", "Numerical", "Biographical", "Historical", "Theoretical", "Economic", and "Literature review". The "Literature review" option is selected and highlighted with a red box. Two orange callout boxes with blue borders point to the "General review" and "Literature review" options. The first callout box contains the text "General Review" and "综述". The second callout box contains the text "Literature Review" and "文献综述". At the bottom of the page, the Elsevier logo and "Terms and Conditions Privacy Policy" are visible.





## 二、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

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Search Alerts Selected records ?

Quick search

Search in: All fields for Search for... e.g., transcription factors AND jon smith

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

- All Document types
- Conference article
- Patents (before 1970)
- Article in Press
- Conference proceeding
- Report chapter
- Book
- Dissertation
- Report review
- Journal article

ProQuest Dissertation  
学位论文

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Who uses EV?  
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### 三、阅读本领域的主要研究者/机构的文献

- 如何知道主要的研究者/机构？
- 利用数据库的分析功能获得。
- 通过本领域作者发文量、重要国际会议中的特邀报告人信息获得。



The screenshot shows the Engineering Village search interface. On the left, the 'Refine results' sidebar is visible, with 'Author' and 'Author affiliation' sections highlighted by red boxes. Two orange callout boxes with blue borders point to these sections: one labeled 'Author' and '作者信息' points to the 'Author' list, and another labeled 'Author Affiliation' and '机构信息' points to the 'Author affiliation' list. The main search results area shows several entries with their respective authors and affiliations. For example, one entry lists authors 'Xue, Xingsi; Qiu, Zongxin; Lu, Yongsheng' and their affiliation 'Fujian University of Technology, Fuzhou; Fujian; 350108, China;'. Another entry lists authors 'Liu, Yin; Yao, Zhenhua' and their affiliation 'New Jersey Institute of Technology, Newark; NJ; 07102, United States;'. The interface also includes search filters, a search bar, and navigation options like 'Search', 'Results', 'Alerts', and 'Selected records'.





## 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。

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  
l.; 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

# 文摘索引过程



## Nickel-based HVOF coatings promoting high temperature corrosion resistance of biomass-fired power plant boilers

Maria Oksa\*, Pertti Auerkari, Jorma Salonen, Tommi Varis

VTT Technical Research Centre of Finland, P.O. Box 1000, 02044 VTT Espoo, Finland

### ARTICLE INFO

Article history:  
Received 13 November 2013  
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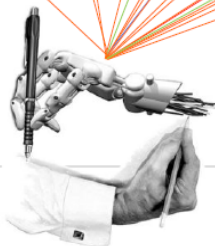
### Keywords:

Thermal spray coating  
Inconel  
High temperature corrosion  
Biomass combustion  
Corrosion protection  
Chlorine induced corrosion

### ABSTRACT

There are over 1000 biomass boilers in Europe, and the number is increasing due to actions for reducing greenhouse gas emissions. Biomass boilers often experience strong corrosion due to harmful elements in flue. In biomass burning, detrimental components include especially chlorine, potassium and heavy metals, which can cause chlorine-induced active oxidation or hot corrosion by molten phases even at fairly low temperature. In order to increase the corrosion resistance of heat exchanger components, either more alloyed steels or protective coatings should be applied. High velocity oxygen fuel (HVOF) spray coating may provide corrosion protection for low alloy tube materials. Three nickel based thermal spray coatings (Inconel 625, Inconel 718, Ni-20Cr-10Al-5Si-10Fe) were tested for two years in a 20 MW circulating fluidized boiler (CFB), which had experienced severe corrosion and a tube failure. The coated tubes were installed to the cold and the hot economizer. After the stoppage the coating and the substrate materials were analyzed with SEM-EDS. The uncoated boiler tubes corroded strongly, whereas the thermal spray coating exhibited excellent corrosion performance. This paper presents the tube failure at site conditions, exposure conditions, the analysis of the coated and uncoated samples, and the corrosion mechanisms of the steel tubes.

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受控词及非受控词

分类码

会议信息

会议码

NEW

数值数据索引

NEW

化学索引

- 根据Ei工程索引叙词表进行索引 (始于1884年)
- 受控词汇由各个学科专家设计并维护
- 学科领域特制索引：
  - 实现高精度度及查全率
  - 节省时间
  - 解决拼写不同、缩写问题
  - 同义词及同形异义词均得到考虑
- 数值数据索引以及化学索引

Engineering Village™



# 索引实现精确搜索和检索



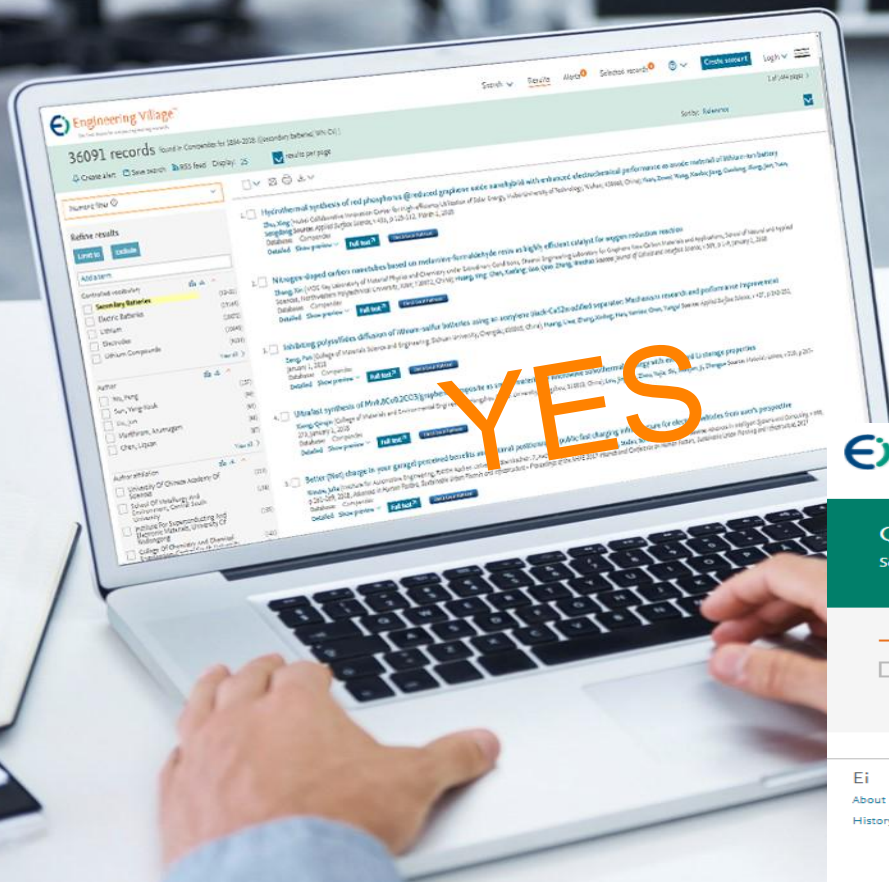
Engineer

# 如果没有Engineering Village上的Ei Compendex

NO

工程师需要花上2页半长的  
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

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## Quick search

Search in: All fields for

Databases <sup>^</sup> Date <sup>v</sup> Language <sup>v</sup> Document type <sup>v</sup> Sort by <sup>v</sup>

<input type="checkbox"/> All	<input checked="" type="checkbox"/> Compendex	<input type="checkbox"/> Inspec	<input type="checkbox"/> NTIS	<input type="checkbox"/> Paper
<input type="checkbox"/> GEOBASE	<input type="checkbox"/> GeoRef	<input type="checkbox"/> US Patents	<input type="checkbox"/> EP Patents	<input type="checkbox"/> EP Patents

recharj

Rechargeable batteries

Recommended terms: Secondary batteries

Recharging (underground waters)

Auto Suggest. Powered by Ei Thesaurus

Ei

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# 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
- **Onear/n-** 两个词之间可插入0—n个词，词序不能颠倒,如
- **Distance Onear/3 learning**



## 提高主题检索效率的方法（准且全）

- 从文中选词检索易漏检或误检
  - 一个概念有多种表示—**导致漏检** (检索时需要收集同义词，费时麻烦且易漏检)
  - 一个词可以表示多个概念—**导致误检** (cell 细胞、电池 Cell wn ti, 检出的文献中有solar cell, tumor cells等)
- **EI**的解决方案：对文献进行主题标引
  - 做到**标引词与概念一一对应**，
  - 标引词来源于词表，故EI的标引词也称为受控词

# 叙词表的作用

- 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。

- **控制词汇**

- 不使用其他的术语

- **每年更新**

- 词汇工作组和索引工作人员决定变化
- 叙词表新版本

- **具体范围标记**

- 受控词的信息

- **分面层次**

- 分面: 按类别分组
- 层次: 上位类/下位类

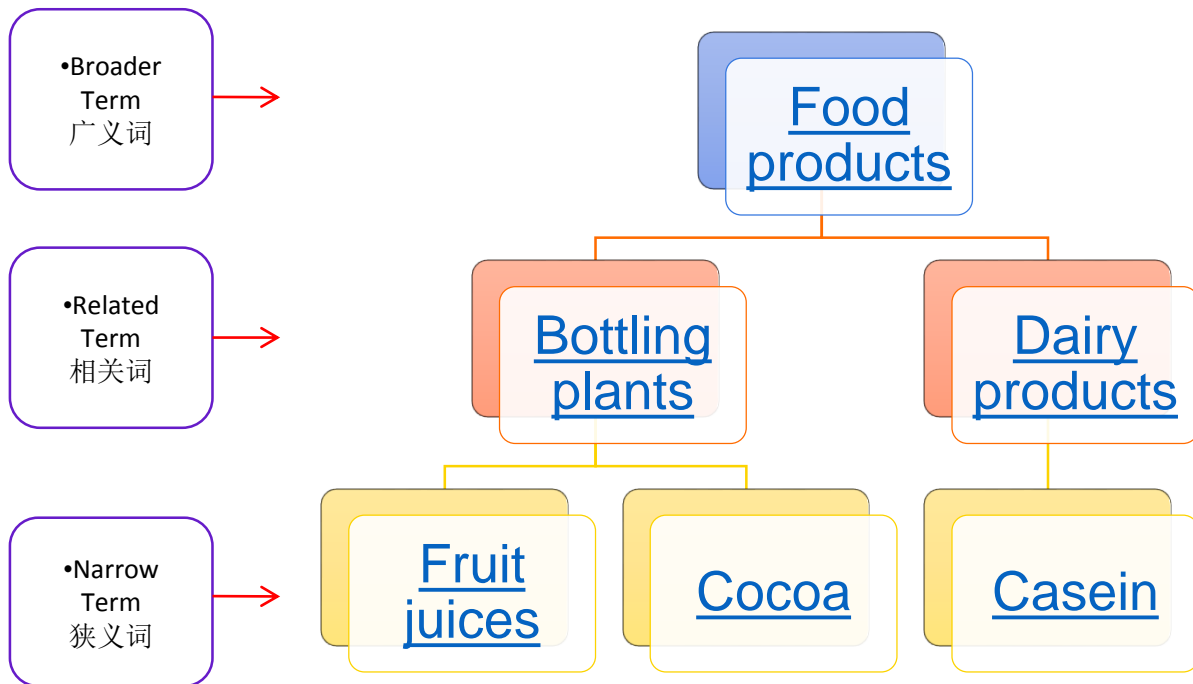
- **自动显示的款目**

- 有信心检索专属性的任一层次

- **相互参照**

- 引导用户使用有效款目

# THESAURUS词库-Beverages (饮料)



## 实例一用叙词表选词进行主题检索

- 用Thesaurus方式检索有关气候学中气候变化的温室效应
- 构设计方面的文献。
- 从课题名称中提取概念
  - 气候学 Climatology
  - 气候变化 Climate Change
  - 温室效应 Greenhouse effect
- 专家检索式写法：
- ((({Climatology} WN CV) AND ({Climate change} WN CV) AND ({Greenhouse effect} WN CV)))

# 用EI叙词表选词

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，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

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Search Alerts Selected records ? Create account

### Thesaurus search

Database:  Compendex  Inspec  GeoRef  GEOBASE  EnCompass

Search in: Exact term for

#### Exact term

Climate Change

Climate change

Broader terms:  Climatology

Related terms:  Air pollution,  Atmospheric composition,  Atmospheric temperature,  Climate models,  Greenhouse gases

Narrower terms:  Global warming,  Greenhouse effect

Selected term(s) >

AND  OR

Date Document type Language Discipline Treatment Sort by

# My Profile

- 功能
  - 储存检索策略 (125个)
  - 建立E-mail Alert (25篇)
  - 建立个人数据夹
    - 3个资料夹
    - 每个数据夹可储存50篇记录
  - 修改个人账号信息

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（中文）<https://service.elsevier.com/app/contact/supporthub/engineering-village/>

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- 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？

排查一：先查刊此刊是否包含在源表：<https://www.elsevier.com/solutions/engineering-village/content>

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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。

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<https://service.elsevier.com/app/contact/supporthub/engineering-village/>
  - 电话：010-85208765（邮件开case后使用）
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# 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Webex视频培训：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)**

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