

# Ei数据库在开题与课题申请前的文献调研中的应用—工程类



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[www.engineeringvillage.com](http://www.engineeringvillage.com)

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



# 提纲

1. 文献收集重点
2. 文献检索
3. Engineering Village简介
4. EI检索全解析
  - Thesaurus
  - Quick Search
  - Expert Search
5. iEI-My Profile
6. Q&A环节

Quick Search

Expert Search

Thesaurus

My Profile

Ask an Expert

Help

# 一、文献收集重点-文献调研阶段

## 确定主题后的**泛调研**

**收集**该领域的综述文献、博士学位论文;重点利用本领域经典或综述文集数据库

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**

确定**研究题目**=实验室研究背景+当前研究热点+自身兴趣点

## 确定题目后的**精调研**

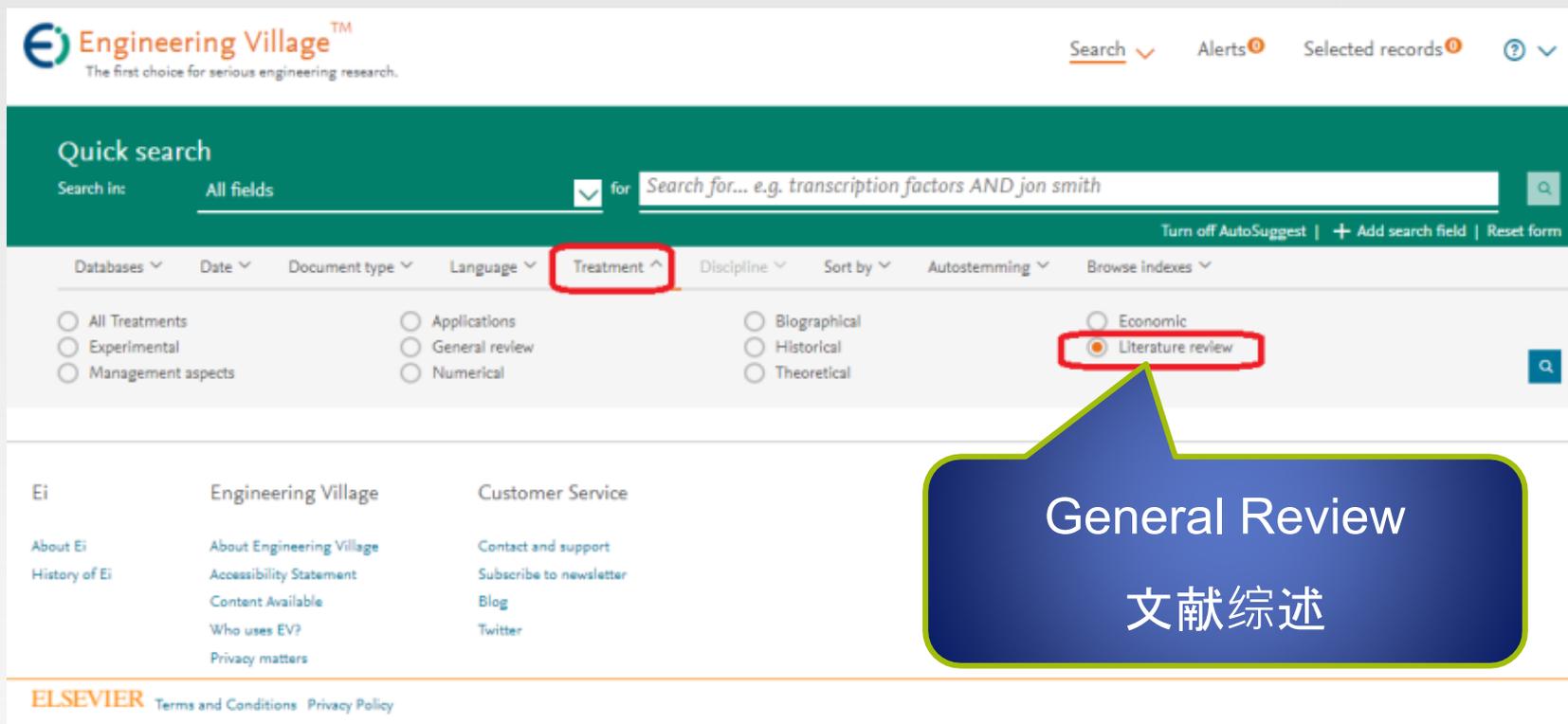
有针对性的收集文献,重点在于**确定内容**;利用数据库的**分析功能**,查找主要的研究者和机构

文献阅读-泛读和**精读**相结合

确定课题实施方案(技术和方法的创新)

## 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. The 'Treatment' dropdown menu is expanded, and 'Literature review' is selected. A callout box points to this selection with the text 'General Review' and '文献综述'.

Engineering Village™  
The first choice for serious engineering research.

Search ▾ Alerts 0 Selected records 0 ? ▾

Quick search  
Search in: All fields ▾ for Search for... e.g. transcription factors AND jon smith

Turn off AutoSuggest | + Add search field | Reset form

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

All Treatments  
 Experimental  
 Management aspects

Applications  
 General review  
 Numerical

Biographical  
 Historical  
 Theoretical

Economic  
 Literature review

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Who uses EV? Twitter  
Privacy matters

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General Review  
文献综述

## 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

Engineering Village™  
The first choice for serious engineering research.

Search Alerts Selected records

Quick search

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

Turn off Auto

Databases Date Document type Language Treatment Discipline Sort by Autostemming

All Document types  Article In Press  Book  Book chapter

Conference article  Conference proceeding  Dissertation  Journal article

Patents (before 1970)  Report chapter  Report review

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Who uses EV? Twitter

Privacy matters

ELSEVIER Terms and Conditions Privacy Policy

ProQuest Dissertation  
学位论文

# 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' panel is open, displaying a 'Controlled vocabulary' section. Two filters are highlighted with red boxes and callouts:

- Author** (作者信息): A list of authors with their respective document counts: Wang, Wei (1194), Zhang, Wei (1139), Li, Wei (1112), Wang, Jun (883), and Wang, Yan (806).
- Author affiliation** (机构信息): A list of institutions with their respective document counts: University Of Chinese Academy Of Sciences (3096), U.S. Geological Survey (2262), State Key Laboratory Of Water Resources And Hydropower Engineering Science, Wuhan University (2049), Csiro Land And Water (1818), and State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology (1705).

The main search results area shows several articles, including 'Sustainable energy: Human factors in geothermal water resource management' by Tomaszewska, Barbara, with a 'Full text' button.

## 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 | SFX

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 | SFX

引文信息

## 数据库分类及选择标准

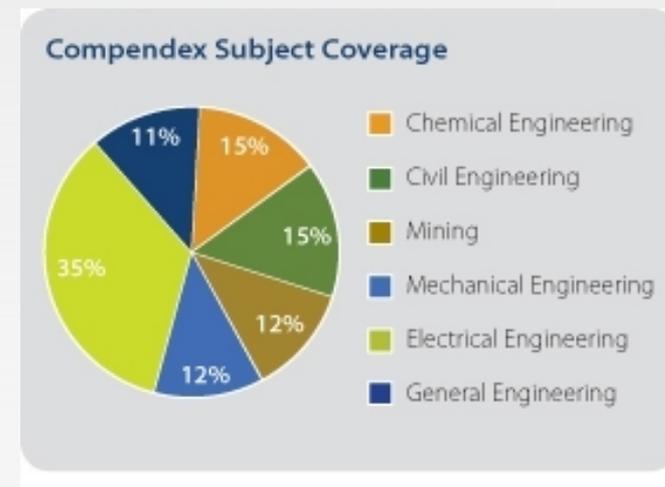
- **分类:**
- **全文型:** 存储内容为各类原始文献的信息。又称一次文献数据库。如: Elsevier SD、中国知网
- **书目型:** 存储描述如目录、题录、文摘等书目线索的数据库, 又称二次文献数据库。为用户指出获取原始信息的线索。如: EI Compendex、SCIE
- **数据、事实型:** 存储内容来源于百科全书、名录、词典、手册、年鉴和统计资料等参考工具书。如: Knovel, Reaxys等
- **标准:**
- - 广和全的专业覆盖面
- - 高质量的检索系统
- - 内容的更新速度
- - 数据库的权威性
- - 利用检索平台实现跨库检索

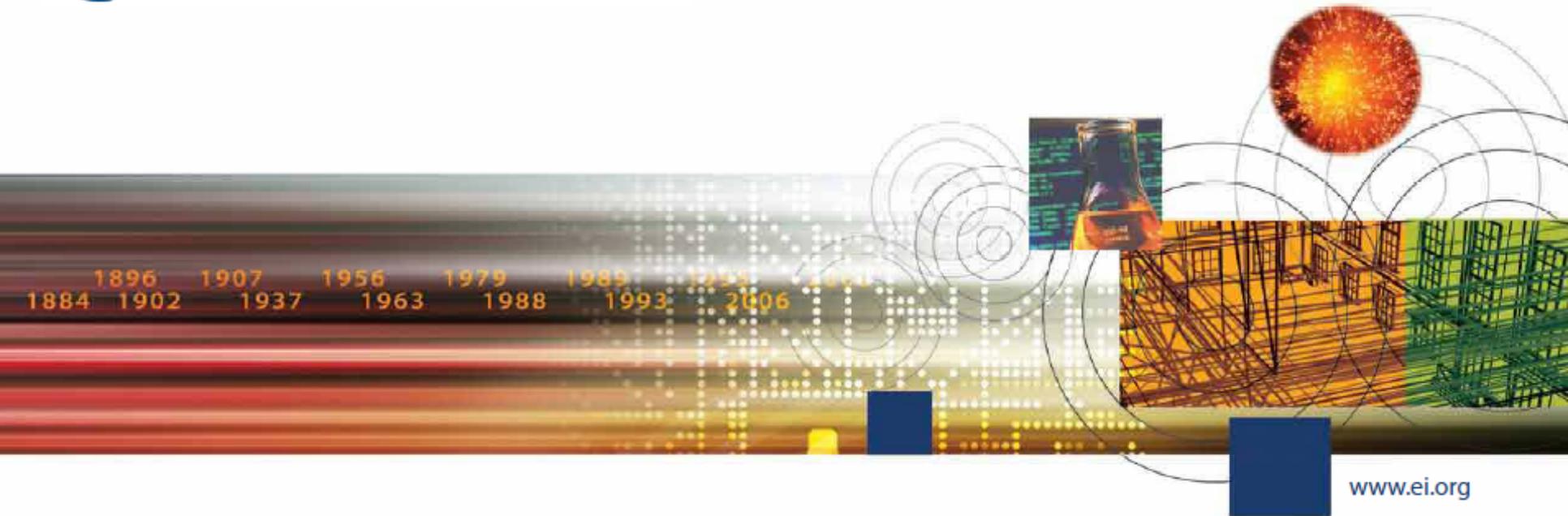
# Engineering Village接口与收 内容

- 由美国Elsevier Engineering Information Inc. 所出版，提供工程 域的信息
- EV 平台接口下 内涵各种多元数据 ：
  - **Compendex**(其中Compendex回溯期刊需另 )
  - INSPEC (需另 )
  - NTIS (需另 )
  - Referex Engineering 子 (需另 )
  - GeoBASE (需另 )
  - GeoRef (需另 )
  - EnCompassLIT & EnCompassPAT (需另 ) Chimica&CBNB (需另 )
  - PaperChem (需另 )
  - USPTO / EPO 利 (需另 )
  - Scirus

# Compendex

- 收 年代：1970年至今
- 3,600多种、期刊、商 志、和技 告 料
- 80000多种工程研 会会
- 料量：超 1800 万篇，每年新增 100万篇 料
- 包含 190 种工程 域学科，如：化学工程、土木工程、 机械工程、 子工程、
- 收 超 55个国家的出版品，其中中文期刊200余种。
- 更新 率：每周
- 回溯期刊：1884年-1969年

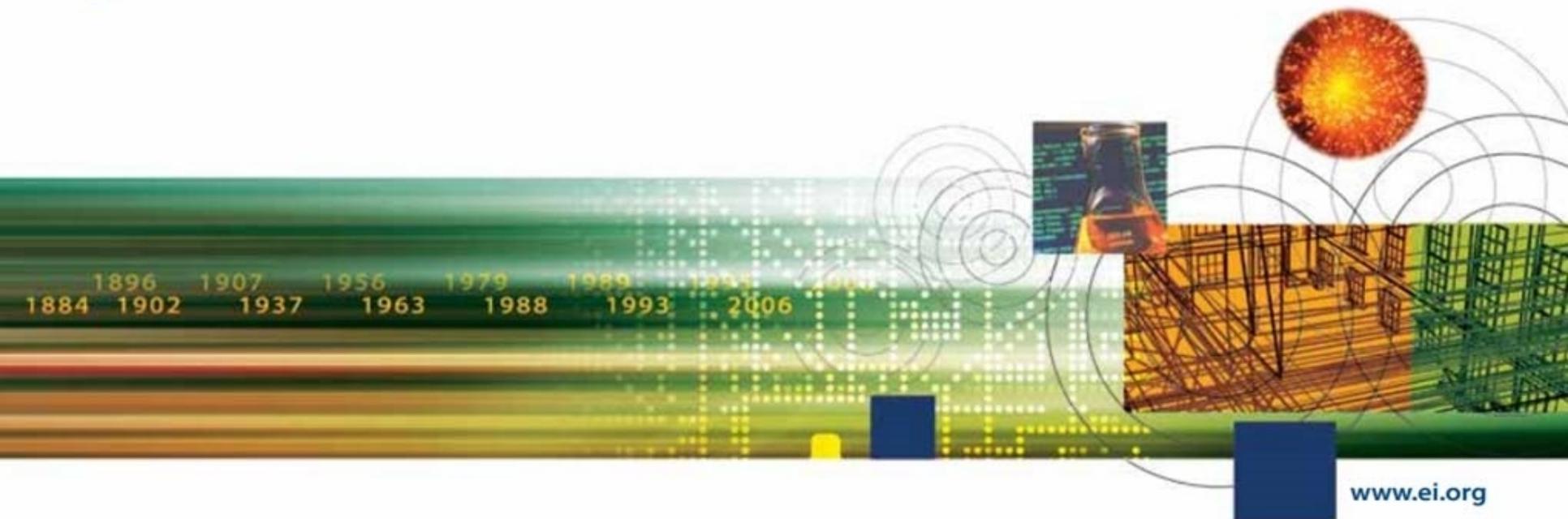




## 索方式

- Quick Search - 快速检索
- Expert Search - 专家检索
- Thesaurus search - 词库检索





Quick Search – 快速 索

# 页面介绍

The screenshot shows the Engineering Village search interface with several red boxes and arrows pointing to specific features, each with a Chinese label:

- 功能列；快速 索、家 索、 索**: Points to the top navigation bar containing 'Search', 'Results', 'Alerts', and 'Selected records'.
- 限制条件、排序**: Points to the filter bar below the search input, which includes options like 'Databases', 'Date', 'Document type', 'Language', 'Treatment', 'Discipline', 'Sort by', 'Autostemming', and 'Browse indexes'.
- 增加 索字段**: Points to the '+ Add search field' button located to the right of the search input.
- 数据**: Points to the footer area containing 'About Ei', 'History of Ei', 'About Engineering Village', 'Accessibility Statement', 'Content Available', 'Who uses EV?', 'Privacy matters', 'Customer Service', 'Contact and support', 'Subscribe to newsletter', 'Blog', and 'Twitter'.

The search interface itself includes a 'Quick search' section with a search input field containing the text 'Search for... e.g. transcription factors AND jon smith'. Below the search bar is a row of filter options with checkboxes for various databases and document types, such as 'All', 'Compendex', 'GEOBASE', 'Inspec', 'GeoRef', 'NTIS', 'US Patents', 'PaperChem', 'EP Patents', 'Chimica', 'Knovel', 'CBNB', 'EnCompassLIT', and 'EnCompassPAT'.

# 果面 - 1

The screenshot shows the Engineering Village search interface. At the top, the search bar contains 'air pollution'. Below the search bar, a navigation menu includes 'Databases', 'Data', 'Document type', 'Language', 'Treatment', 'Discipline', 'Sort by', 'Autostemming', and 'Browse indexes'. A red box highlights the search results count: '123241 records for 1884-2018 ((air pollution) WN All fields)'. Below this, a 'Numeric filter' section is visible. A red box highlights the 'Refine results' sidebar, which lists various filters such as 'Controlled vocabulary', 'Author', 'Author affiliation', 'Classification code', 'Country', 'Document type', 'Language', 'Year', 'Source title', 'Publisher', and 'Funding sponsor'. A red box highlights the 'Data' and 'Sort' options in the navigation menu. A red box highlights the search results list, which includes titles like 'A review on air pollution...', 'Air pollution in China...', 'Modelling air pollution...', and 'Mapping indoor overexposure and air pollution risk...'. A red box highlights the 'Data' and 'Sort' options in the navigation menu.

索引：  
快速索引/篇摘要数据/  
数据：Compendex & INSPECT

数据索引功能

- 表示
- 出数据
- 打开/关闭
- 字段信息
- 可用拖曳的方式
- 限制字段
- 排序

入关  
的索引 开启新

# 果面 - 2

Selected Records : 存文章  
 管理 索引 : 寄E-mail/打印/下 目信息/存到我的数据 /移除重复文章

可依照相关程度、日期, 作者, 期刊, 出版社(默 相关度); 在相同条件之下, 再依降序或升 排序

The screenshot displays a search results page for 'air pollution'. It includes a search bar, various filters (Date, Document type, Language, etc.), and a list of search results. A dropdown menu for sorting is open, showing options like 'Relevance', 'Date (Oldest)', 'Date (Newest)', 'Author (A-Z)', and 'Author (Z-A)'. A 'Batch actions' menu is also visible, containing icons for email, print, download, and save. Red annotations highlight these key interface elements.

可同 勾 多篇文献, 行管理(E-mail/打印/下 目信息/存到我的数据 / 存)

# Browse Index

Quick search  
 Search in: All fields for

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

[Author](#) [Author affiliation](#) [Controlled term](#) [Publisher](#)

[Source title](#)

**Browse Index : 可利用索引功能 / 作者、作者服务机构、Ei控制、期刊名称和出版社**

Engineering village - browse index Lookup - Google Chrome

安全 | <https://www.engineeringvillage.com/search/browseindex.url?d...>

Search for:  Find Submit Selected index: Ei Controlled term

Click on letter below to browse index:  
[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

[Aa](#) [Ab](#) [Ac](#) [Ad](#) [Ae](#) [Af](#) [Ag](#) [Ah](#) [Ai](#) [Aj](#) [Ak](#) [Al](#) [Am](#) [An](#) [Ao](#) [Ap](#) [Aq](#) [Ar](#) [As](#) [At](#) [Au](#) [Av](#) [Aw](#) [Ax](#) [Ay](#) [Az](#)

Select terms below to add to search  
 Connect terms with:  AND  OR Next page >

- A (Compendex)
- A A (Compendex)
- A B (Compendex)
- A B C. (Compendex)
- A C (Compendex)
- A D (Compendex)
- A E (Compendex)
- A F (Compendex)
- A FERREIRA (Compendex)
- A FRAME (Compendex)

# 文献内容： 格式

Authors：点 作者名字找到更多作者 表的文章

Author affiliation：每位作者的所属机构

E-mail：主要作者 信息

ISSN：找到更多关于 本期刊的文章

Corresponding Author：通 作者

Abstract：文章内容摘要

Main heading：主要主

Controlled term：索引 准

Uncontrolled term：相关主 的广分

Classification code：在来源中其它附加 的字 和

Record 21 from Compendex & inspect for: ((stress) WN All fields), 1884-2012

Check record to add to Selected Records

21  Accession number: 2006289991405

Title: **Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom**

Authors: [Brujan, Emil-Alexandru<sup>1, 2</sup>](#)  [Vogel, Alfred<sup>1</sup>](#) 

Author affiliation: <sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-We 4, 23554 Lübeck, Germany  
<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independenței 313, 050042 Bucharest, Romania

Corresponding author: [Vogel, A. \(vogel@bmo.uni-luebeck.de\)](mailto:vogel@bmo.uni-luebeck.de)

Source title: Journal of Fluid Mechanics

Abbreviated source title: J. Fluid Mech.

Volume: 558

Issue date: July 10, 2006

Publication year: 2006

Pages: 281-308

Language: English

ISSN: 00221120

E-ISSN: 14697645

CODEN: JFLSA7

Document type: Journal article (JA)

Publisher: Cambridge University Press

Abstract: **Stress wave emission and cavitation bubble dynamics after optical breakdown in water and a tissue phantom with Nd: YAG laser pulses of ns duration were investigated both experimentally and numerically to obtain a better understanding of the physical mechanisms involved in**

Number of references: 79

Main heading: Acoustic emissions

Controlled terms: Bubbles (in fluids) - Cavitation - Compressive **stress** - Computer simulation - Mechanical properties - Semiconductor lasers - Tensile **stress**

Uncontrolled terms: Cavitation bubble dynamics - Compressive **stress wave** - Optical breakdown

Classification code: 631.1.1 Liquid Dynamics - 723.5 Computer Applications - 744.4.1 Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 931.2 Physical Properties of Gases, Liquids and Solids

Treatment: Theoretical (THR)

DOI: 10.1017/S0022112006000115

Database: Compendex

Compilation and indexing terms, © 2012 Elsevier Inc.

# 果中再 索



# Refine Result 果再 索

Numeric filter

Refine results

[Limit to](#) [Exclude](#)

Add a term

Controlled vocabulary

Author

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Publisher

Funding sponsor

[Limit to](#) [Exclude](#)

New search with facets

[Knowel Search >](#)

1.  **Water demand forecasting by trend and harmonic**  
Kozłowski, Edward (Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland); Kowalski, Dariusz; Mazurkiewicz, Dariusz Sources: *Water Resources Management*, v 32, n 1, February 1, 2018, pp. 1-12. Databases: Compendex  
[Detailed](#) [Show preview](#) [Full text](#) [Check Local 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, Yongshang Sources: *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  
[Detailed](#) [Show preview](#) [Full text](#) [Check Local 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 Sources: *Frontiers of Environmental Science and Engineering*, v 12, n 1, February 1, 2018. Databases: Compendex  
[Detailed](#) [Show preview](#) [Full text](#) [Check Local Full text](#)

4.  **Sustainable energy: Human factors in geothermal water resource management**

Tomaszewska, Barbara (AGH University of Science and Technology, Mickiewiczza 30, Krakow; 30-059, Poland) Sources: *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  
[Detailed](#) [Show preview](#) [Full text](#) [Check Local 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, Fai-Yee Sources: *Applied Clay Science*, v 143, p 300-306, July 1, 2017. Databases: Compendex

- 在Refine Results 索 果中:可依作者、作者所属机构、国家、文献种 等 :可 Include或是Exclude一个或多个 目
- 在Refine Results中可 合超 一个以上的分析 目, 透 每篇 目前的勾 框勾 要 合的

# Refine Results Graphs & Export



The screenshot shows the Engineering Village search results interface. On the left, there is a 'Refine results' sidebar with various filters. A red box highlights the 'Export' button (represented by a download icon) in the 'Controlled vocabulary' section. A red arrow points from this button to a text box on the right. The main search results area displays a list of articles with their titles, authors, and source information. Each article entry includes a 'Full text' button and a 'Check local full text' button.

- 表出的按钮会在每个搜索结果目的旁
- 此功能允许使用者可以透过表格形式各目数据，或是下载成文字文件并可以出到其它件中，例如：Excel

# Refine Result 果再 索

Numeric filter

Refine results

[Limit to](#) [Exclude](#)

Add a term

Controlled vocabulary

Author

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Publisher

Funding sponsor

[Limit to](#) [Exclude](#)

New search with facets

[Knowel Search >](#)

1.  **Water demand forecasting by trend and harmonic**  
Kozłowski, Edward (Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland); Kowalski, Dariusz; Mazurkiewicz, Dariusz Sources: *Water Resources Management*, v 32, n 1, February 1, 2018, p 1-12, 12 p. Databases: Compendex  
Detailed Show preview [Full text](#) [Check Local Full text](#)

2.  **Estimation of river water temperature from air temperature: Using least square method**

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Detailed Show preview [Full text](#) [Check Local Full text](#)

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Detailed Show preview [Full text](#) [Check Local Full text](#)

4.  **Sustainable energy: Human factors in geothermal water resource management**

Tomaszewska, Barbara (AGH University of Science and Technology, Mickiewiczza 30, Krakow; 30-059, Poland) Sources: *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  
Detailed Show preview [Full text](#) [Check Local Full text](#)

5.  **Evaluation and reutilization of water sludge from fresh water processing plant as a green clay substituent**

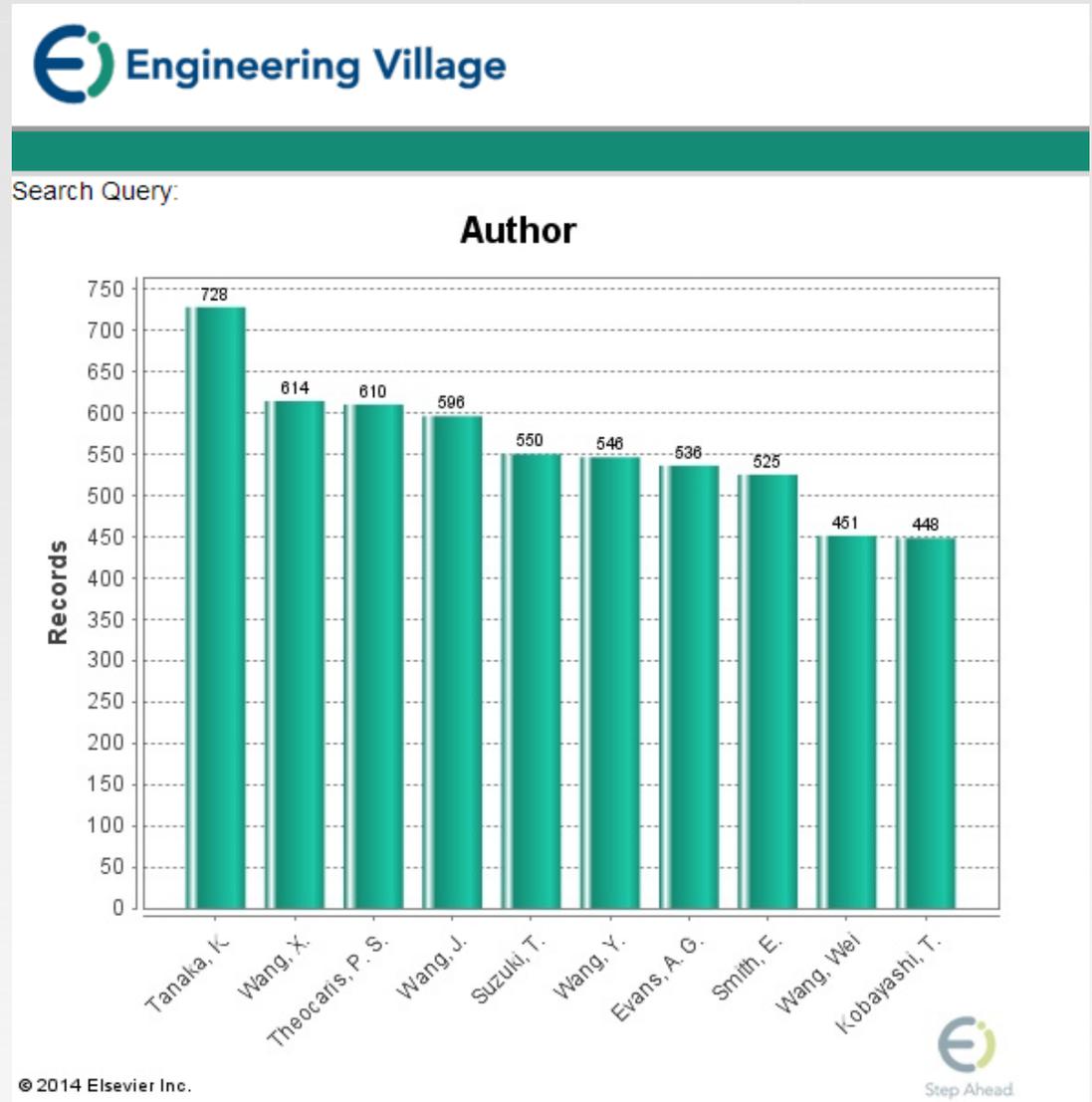
Ling, Yew Pei (School of Materials and Mineral Resources Engineering, Engineering Campus, Universiti Sains Malaysia, Nibong Tebal; Penang; 14300, Malaysia); Tham, Ren-Haw; Lim, Siew-Ming; Fahim, Muhammad; Ooi, Chee-Heong; Krishnan, Puspanathan; Matsumoto, Akihiko; Yeoh, Fai-Yee Sources: *Applied Clay Science*, v 143, p 300-306, July 1, 2017. Databases: Compendex

- 在Refine Results 索 果中:可依作者、作者所属机构、国家、文献种 等 :可 Include或是Exclude一个或多个 目
- 在Refine Results中可 合超 一个以上的分析 目, 透 每篇 目前的勾 框勾 要 合的

# Refine Results Graphs & Export

- 当点击  表, 会开启一个新窗口看到在各分析目录中前10篇结果的片。

- 例如：右呈  
索主 各国家的学者所表的文献数量!并可将此片存  
、打印、或是  
Email。

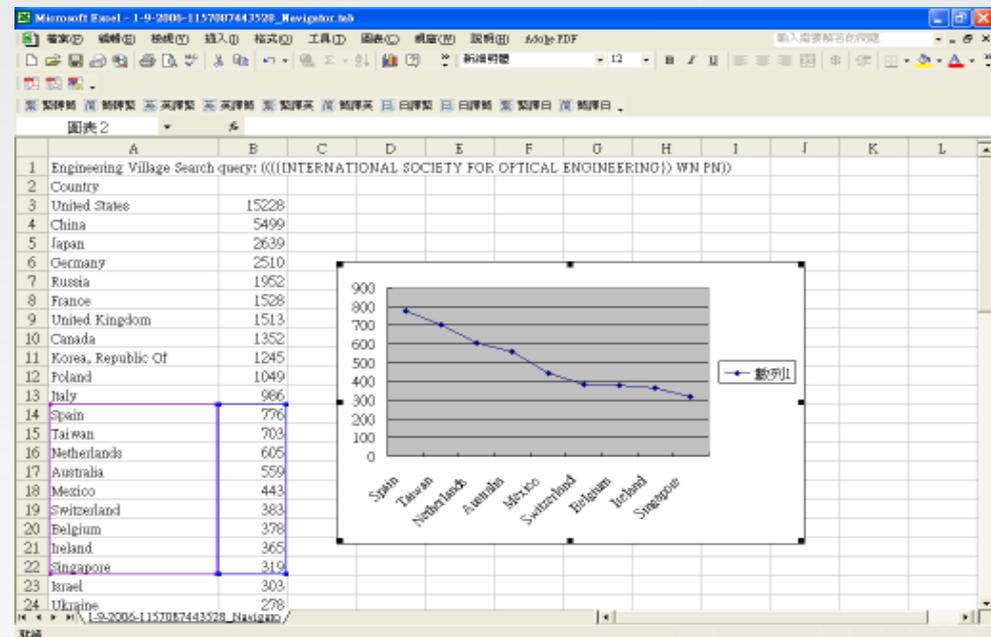


# Refine Results Graphs & Export

- 点  可以将表出成 tab 档案



- 您也可以将 出的档案以 **Excel** 文件开启分析管理



# Refine Results 的作用

- 了解你的同行，他 又有哪些成就呢？
- 了解你关心的 所涉及的 域，是否能 新的研究方向
- 了解 所 的生命周期，通 文献 量的年代分析
- 了解 的 期刊，作 投 文章的
- 通 文献 型了解 文的分布

# 分析功能

## 控制词汇

## 作者

## 作者机构

## 学科分类

Controlled vocabulary	
<input type="checkbox"/> Water	(76175)
<input type="checkbox"/> Mathematical Models	(72140)
<input type="checkbox"/> Computer Simulation	(57816)
<input type="checkbox"/> Soils	(53764)
<input type="checkbox"/> Water Quality	(48305)
<a href="#">View all &gt;</a>	

Author	
<input type="checkbox"/> Wang, Wei	(1194)
<input type="checkbox"/> Zhang, Wei	(1139)
<input type="checkbox"/> Li, Wei	(1112)
<input type="checkbox"/> Wang, Jun	(883)
<input type="checkbox"/> Wang, Yan	(806)
<a href="#">View all &gt;</a>	

Author affiliation	
<input type="checkbox"/> University Of Chinese Academy Of Sciences	(3096)
<input type="checkbox"/> U.S. Geological Survey	(2262)
<input type="checkbox"/> State Key Laboratory Of Water Resources And Hydropower Engineering Science, Wuhan University	(2049)
<input type="checkbox"/> Csiro Land And Water	(1818)
<input type="checkbox"/> State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology	(1705)
<a href="#">View all &gt;</a>	

Classification code	
<input type="checkbox"/> Chemical Products Generally	(305324)
<input type="checkbox"/> Chemical Operations	(284168)
<input type="checkbox"/> Organic Compounds	(258893)
<input type="checkbox"/> Chemical Reactions	(228331)
<input type="checkbox"/> Chemistry	(185796)
<a href="#">View all &gt;</a>	

## 国家

## 文献类型

## 原文语言

## 年

Country	
<input type="checkbox"/> United States	(300214)
<input type="checkbox"/> China	(268704)
<input type="checkbox"/> Japan	(85354)
<input type="checkbox"/> United Kingdom	(67054)
<input type="checkbox"/> Germany	(65020)
<a href="#">View all &gt;</a>	

Document type	
<input type="checkbox"/> Journal article	(1171538)
<input type="checkbox"/> Conference article	(397495)
<input type="checkbox"/> Dissertation	(18684)
<input type="checkbox"/> Article in Press	(7993)
<input type="checkbox"/> Conference proceeding	(7739)
<a href="#">View all &gt;</a>	

Language	
<input type="checkbox"/> English	(1508046)
<input type="checkbox"/> Chinese	(74904)
<input type="checkbox"/> German	(18953)
<input type="checkbox"/> Russian	(13839)
<input type="checkbox"/> Japanese	(10762)
<a href="#">View all &gt;</a>	

Year	
<input type="checkbox"/> 2018	(269)
<input type="checkbox"/> 2017	(64800)
<input type="checkbox"/> 2016	(94832)
<input type="checkbox"/> 2015	(92476)
<input type="checkbox"/> 2014	(97399)
<a href="#">View all &gt;</a>	

## 刊源

## 出版社

## 赞助机构

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)
<a href="#">View all &gt;</a>	

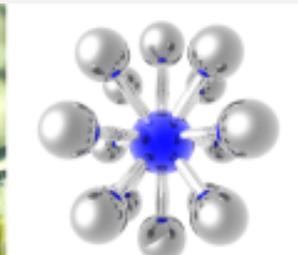
Publisher	
<input type="checkbox"/> Elsevier Ltd	(144352)
<input type="checkbox"/> Elsevier	(121944)
<input type="checkbox"/> American Chemical Society	(67892)
<input type="checkbox"/> Institute Of Electrical And Electronics Engineers Inc.	(26782)
<input type="checkbox"/> Springer Verlag	(25231)
<a href="#">View all &gt;</a>	

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)
<a href="#">View all &gt;</a>	

# 管理 索 果

[Blog/E-mail/打印/](#)

[下 目信息/存到我的数据](#)



# 有五种 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** dema  
**Kozłowski, Edward**  
 Source: Archives o  
 10.1016/j.acme.2  
 Author affiliation  
 Management, Na  
 2 Lublin Universit  
 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

<b>Location:</b> <input checked="" type="radio"/> My PC <input type="radio"/> Mendeley <input type="radio"/> RefWorks <input type="radio"/> Google Drive <input type="radio"/> Dropbox <input type="radio"/> Your Folder(s)	<b>Format:</b> <input type="radio"/> EndNote (RIS, Ref. Manager) <input type="radio"/> BibTeX <input type="radio"/> Text (ASCII) <input type="radio"/> CSV <input type="radio"/> Excel® <input checked="" type="radio"/> PDF <input type="radio"/> RTF (Word®)	<b>Output:</b> <input checked="" type="radio"/> Current page view <input type="radio"/> Citation <input type="radio"/> Abstract <input type="radio"/> Detailed record
---	---	---

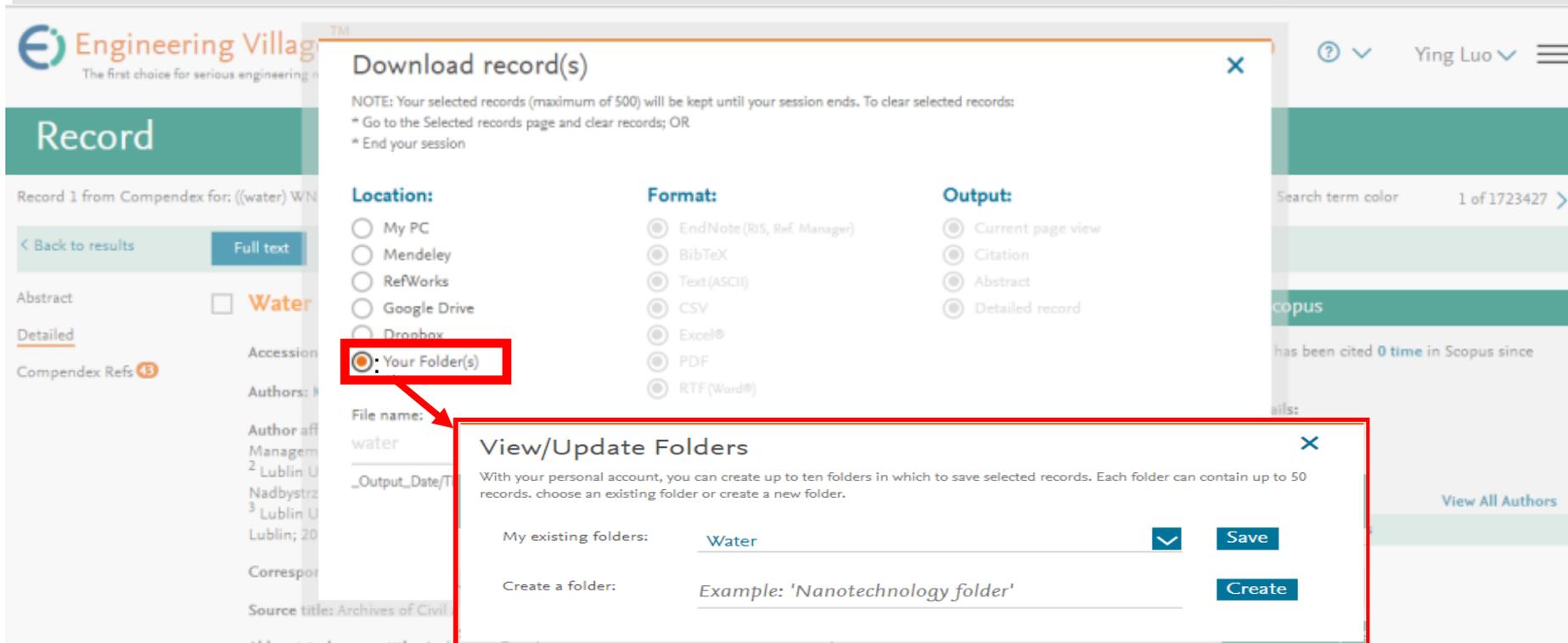
File name:  
**Engineering\_Village**  
 \_\_\_\_\_  
 \_current\_page\_view\_Date/Time.pdf

Login or Create account to save to My Preferences

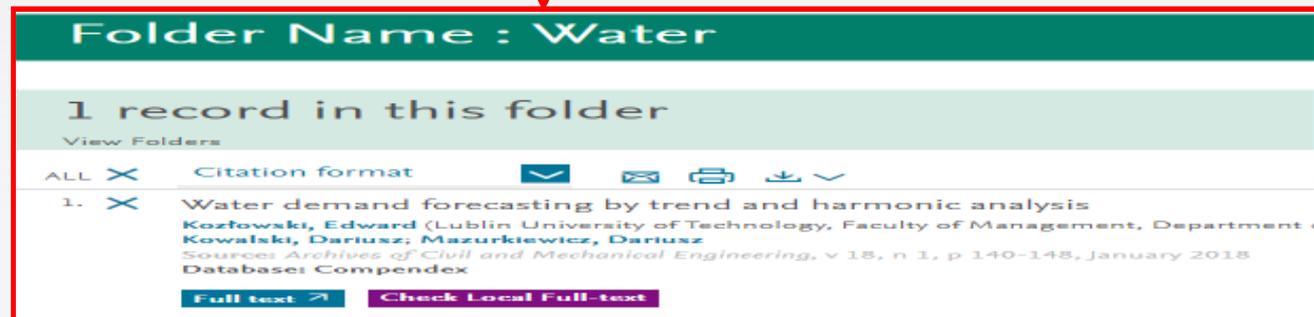
Disposal

# 存到我的料

注意，此个人化功能，需注册及登录后才能使用。



The screenshot shows the Engineering Village interface with a 'Download record(s)' dialog box open. The dialog box has three sections: 'Location', 'Format', and 'Output'. The 'Location' section has radio buttons for 'My PC', 'Mendeley', 'RefWorks', 'Google Drive', 'Dropbox', and 'Your Folder(s)'. The 'Format' section has radio buttons for 'EndNote (RIS, Ref. Manager)', 'BibTeX', 'Text (ASCII)', 'CSV', 'Excel', 'PDF', and 'RTF (Word)'. The 'Output' section has radio buttons for 'Current page view', 'Citation', 'Abstract', and 'Detailed record'. The 'Your Folder(s)' option is selected and highlighted with a red box. Below the dialog box, the 'View/Update Folders' dialog box is shown, which allows users to create or update folders. It has a text input field for 'My existing folders' with 'Water' entered, and a 'Save' button. It also has a text input field for 'Create a folder:' with 'Example: 'Nanotechnology folder'' entered, and a 'Create' button. A red arrow points from the 'Your Folder(s)' option in the first dialog box to the 'View/Update Folders' dialog box.



The screenshot shows the 'Folder Name : Water' view. It displays '1 record in this folder' and a list of records. The first record is 'Water demand forecasting by trend and harmonic analysis' by Kozłowski, Edward (Lublin University of Technology, Faculty of Management, Department of Management, Kowalski, Dariusz; Mazurkiewicz, Dariusz). The record is from the 'Archives of Civil and Mechanical Engineering' database, volume 15, number 1, pages 140-148, January 2018. The record is in 'Citation format' and has a 'Full text' button and a 'Check Local Full-text' button.

# 标签功能

## Tags & Groups

[Browse tags](#) [Search tags](#) [View/Edit groups](#) [Rename/Delete tags](#)

Display: [Public](#) 

1 123 Ad Hoc networks AP Arabidopsis thaliana assessment BUPT cao Capillary electrophoresis Cloud Index Conducting polymers Contact resistance Data sets Datasets E12 Electro  
Electronics cooling ESJP Fault diagnosis folksonomy Gene expression Gulf of Mexico Hydrogen production Informatics Information Literacy irr irrelevant Lead Free solder  
Metamaterials Microchannels Modeling My Nanoparticles Ni Chen Noise sources nope Numerical modeling Oil Spills Paper Ontology Optical Burst Switching OBS Optical netwo  
fibers Photonic crystals Power Quality Room temperature Sea Surface Temperature SST Sensor networks Silicon photonics Soil properties Stars Suction Support Vector Machine SVM Support vector machines survey  
paper tag clouds tagging TEST Thermal aging Thermal management Triaxial tests Unsaturated Soils ustc Volume rendering Water content Water management waynestate Web Services Wireless Sensor Networks  
xionghui yes

- My preferences
- Personal details
- Change password
- Alerts & Saved searches
- Folders
- Tags & groups**
- Bulletins
- Interactive equations

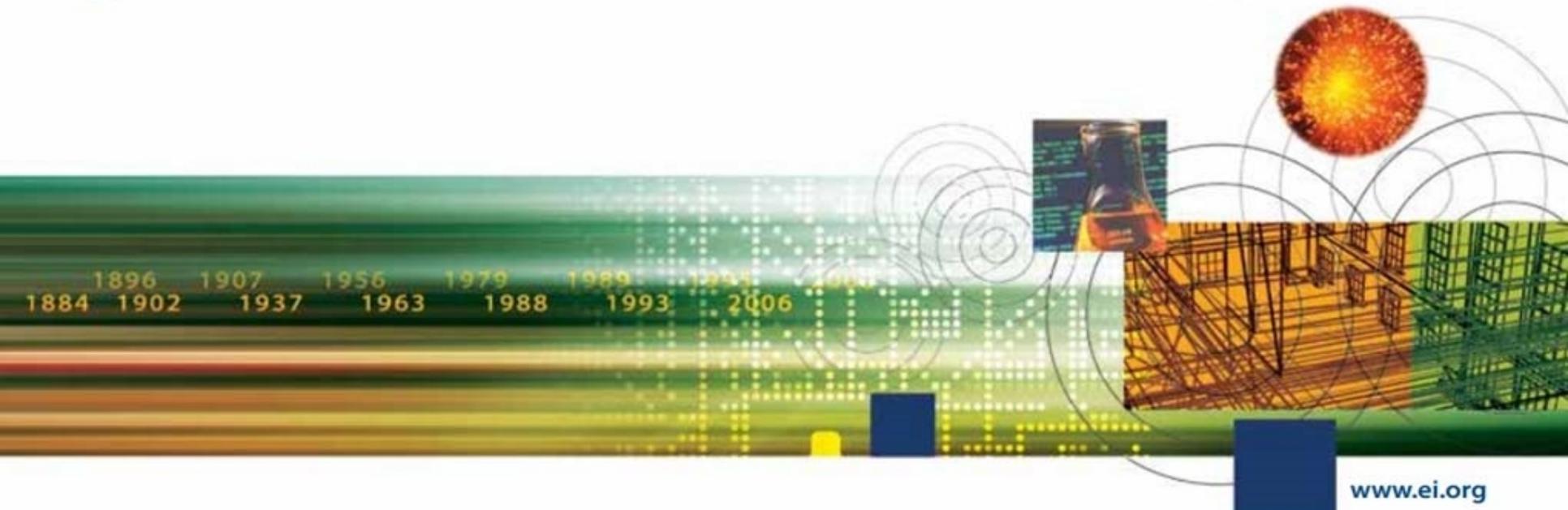
标签功能

# Tag ( ) 的功能

- 使用者可 任何的数据指定其关 ( )
- 使用者可透 行 索
- 使用者可 将自己的 其他人公开
  - 所有的EV使用者
  - 只在个人所属的研究
  - 只限个人使用, 不 其他人公开

注意, 此 个人化功能, 需注册及登 后才能使用。

Expert Search - 专家检索



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

Expert Search - 专家检索



# Expert Search – 家 索

入 索 和 索字段代

0

Selected records 0

?

Create account

## Expert search

Search for:

Eg.:smith wn AU and ("autonomous navigation" or radar\*)



Reset form

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

索代

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 = Chimica	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 = GFORBASE	CR = CAS registry number (cm,cb,el,ep)	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**
- ?有限截词-问号个数代表字符数
- 如**distance?** 可检出复数; **Wom?n** 命中**woman, women**
- **\$**词根运算符等价于Auto stemming功能
- **\$ manage** 命中 **manage, managing, managed, manager,**
- **managers, management, managements。**

## 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
- ■ 词组检索不能使用通配符与字根符
  
- **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**
  
- **Near/n-** 两个词之间可插入0—n个词，词序可以颠倒，如
- **Distance near/3 learning**

## 查收-人名检索

- ◆EI数据库的作者有九种写法：以**娃哈哈** (Wa Haha) 老师为例 Wa haha or Wa ha-ha or Wa hh or Wa h-h or Wa h or haha wa or ha-ha wa or haha w or ha-ha w
- ◆建议大家采用截词符 “\*”，以三种形式来代替，并用其他检索字段来限制 **Wa H\* or haha w\* or ha-ha w \***
- ◆利用作者单位提高查准率➤  
**((Wa H\* ) or (haha w\* ) or (ha-ha w \*)) wn au  
AND (XXX onear univ\* ) wn af )**
- ◆用作者查不到某篇文章时，可用篇名试试

## 查收-机构检索

- 推荐检索式：
- 以清华大学为例
- (tsinghua onear univ\* and (beijing or 100084 or china)) wn af and 2015 wn yr
- 由refine results — author affiliation可知，均为清华大学。
- (此检索式只供参考，在借鉴使用时一定要考虑自身情况优化)

## 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。

## 叙词表概述

- **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

## 叙词表概述

- **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

# 层次

## 叙词表层次

设备\*

反应器

炼焦器

裂解器

催化裂解器

裂解炉

氢化裂解器

蒸汽裂解器

微分反应器

发酵器

细颈瓶

流反应器

气化炉

液态排渣气化炉

甲烷转化器

下雨固体反应器

裂化炉 .....

如果在层次结构中的一个术语后面有一个\*，该术语就不能被它下面的下位词自动显示出来。

# EI的主题标引字段: Ei main heading/controlled term/Uncontrolled term

- 采用受控词标引—提高主题检索效率
  - 标引词取自叙词表
  - 相应字段
  - ◆ EI controlled term, CV
  - ◆ Ei main heading, MH
- 非受控词标引字段—解决词表更新滞后的问题
  - 标引词直接取自文中词，如关键词及摘要
  - 相应的字段: Uncontrolled term, FL

The screenshot shows a record from Compendex for the article "Water quality monitoring of water resources conservation area in city of Shanghai based on remote sensing". The record includes the title, authors (Yanling Qiu, Hongen Zhang, Xiaohua Tong, Ling Chen, Jianfu Zhao), source information (IGARSS 2006), and a detailed abstract. The abstract discusses the use of remote sensing for water quality monitoring in the Huangpu River area of Shanghai, highlighting the advantages of large-scale, cost-effective monitoring compared to conventional methods. It also lists classification codes, treatment types, and database information.

**Abstract** | Detailed Highlight search terms

Record 1 from Compendex for: ((water resources-conservation) WN All fields), 1884-2016

Check record to add to Selected Records

**Water quality monitoring of water resources conservation area in city of Shanghai based on remote sensing**

Yanling Qiu<sup>1</sup>, Hongen Zhang<sup>1</sup>, Xiaohua Tong<sup>2</sup>, Ling Chen<sup>3</sup>, Jianfu Zhao<sup>3</sup>

**Source:** International Geoscience and Remote Sensing Symposium (IGARSS), p 3434-3437, 2006, 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS. ISBN-10: 0780395107. ISBN-13: 9780780395107. DOI: 10.1109/IGARSS.2006.881. Article number: 4242029. Conference: 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, July 31, 2006 - August 4, 2006. Sponsors: IEEE Geoscience and Remote Sensing Society, Canadian Remote Sensing Society, National Aeronautics and Space Administration, NASA, National Oceanic and Atmospheric Administration, Office of Naval Research. Publisher: Institute of Electrical and Electronics Engineers Inc.

**Author affiliations:**

<sup>1</sup> Key Laboratory of Yangtze Aquatic Environment, Tongji University, Ministry of Education, Shanghai, China

<sup>2</sup> Department of Survey and Geo-Informatics, Tongji University, Shanghai, China

<sup>3</sup> State Key Laboratory of Pollution Control and Resource Reuse, College of Environmental Science and Engineering, Tongji University, Shanghai, China

**Abstract:**

Water pollution of upstream Huangpu River is regarded as one of the most significant environmental problems in Shanghai. As a necessary complement to conventional water quality monitoring methods, remote sensing based water monitoring has the advantages of large scale, speediness, cost-effective and so on. In this study, LANDSAT 5 Thematic Mapper (TM) image was selected as the satellite data source. Inversion models of representative water quality parameters in upstream Huangpu River based on remote sensing were established. The universality of these models was verified. The average fitting deviation between the estimated and real value of dissolved oxygen (DO) and chemical oxygen demand (COD) were less than 19% and 17%, indicating the inversion models could meet the needs of remote sensing based water quality monitoring (13 refs)

**Main heading:** Remote sensing

**Controlled terms:** Condition monitoring - Cost effectiveness - Water conservation - Water quality

**Uncontrolled terms:** Inversion model - TM image - Water quality monitoring

**Classification Code:** 444 Water Resources - 445.2 Water Analysis - 731.1 Control Systems - 911.2 Industrial Economics

**Treatment:** Theoretical (THR) - Experimental (EXP)

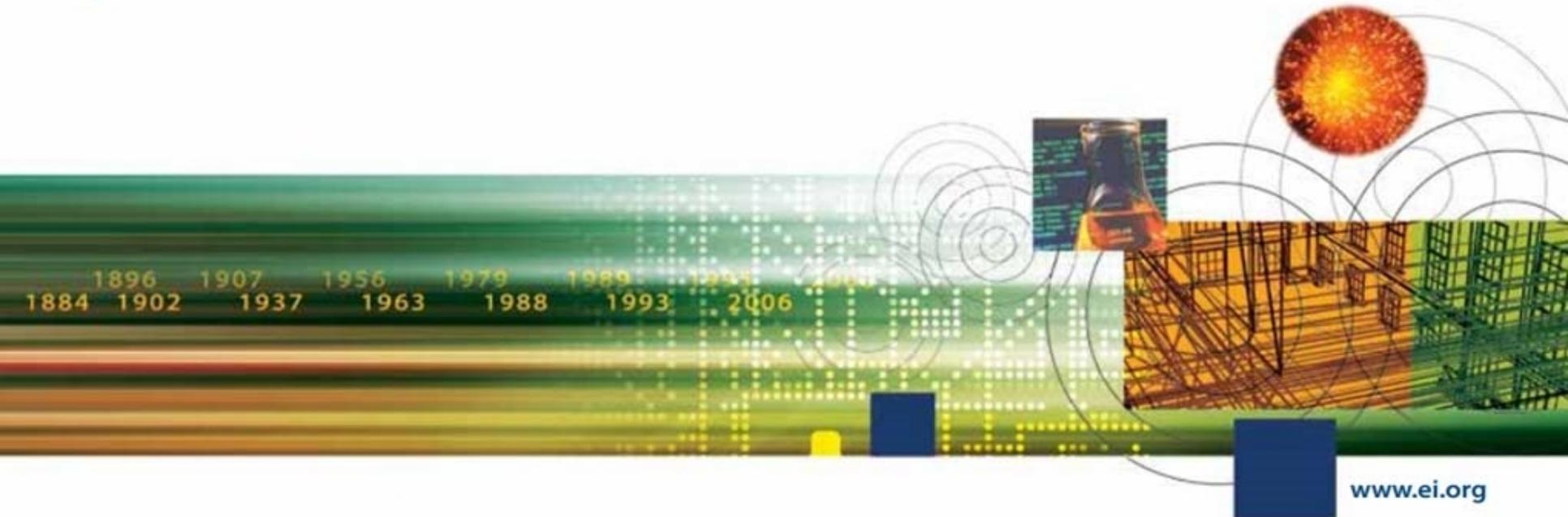
**Database:** Compendex

Full-text and Local Holdings Links

Check Local Full-text

Full Text

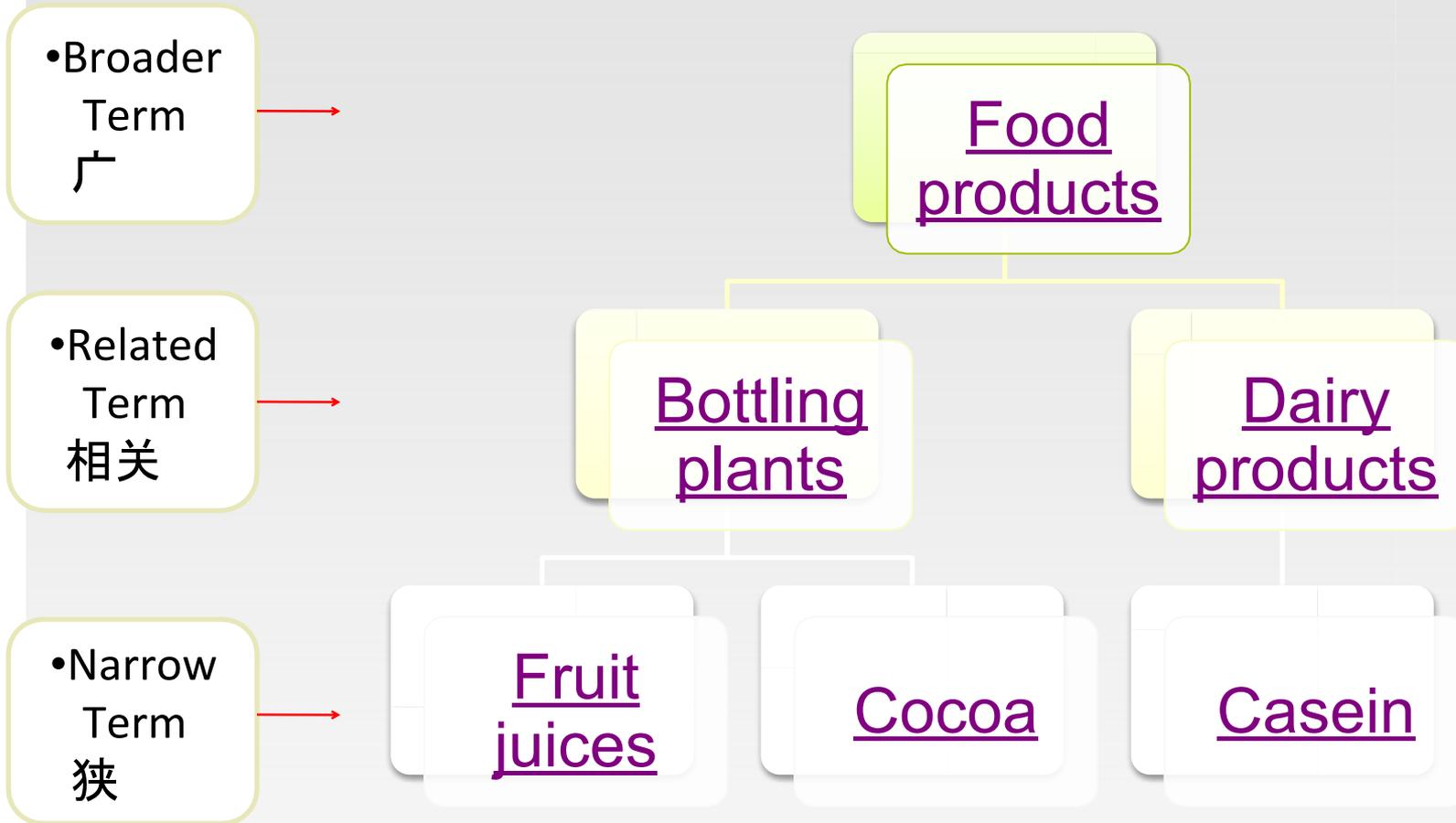
# Thesaurus Search - 词库检索



## Thesaurus Search – 索



# THESAURUS -Beverages ( 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
- 检索式：
- ((({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

Engineering Village  
The first choice for serious engineering research.

Records 0 ? v 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 v Document type v Language v Discipline v Treatment v Sort by v

# EI叙词表(Thesaurus)

- **EI**标引用词
- 表中的词已规范化, 故也称为受控词(**controlled term**)
- 词表由字顺表和等级结构表组成。以下显示的为等级结构表

## 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

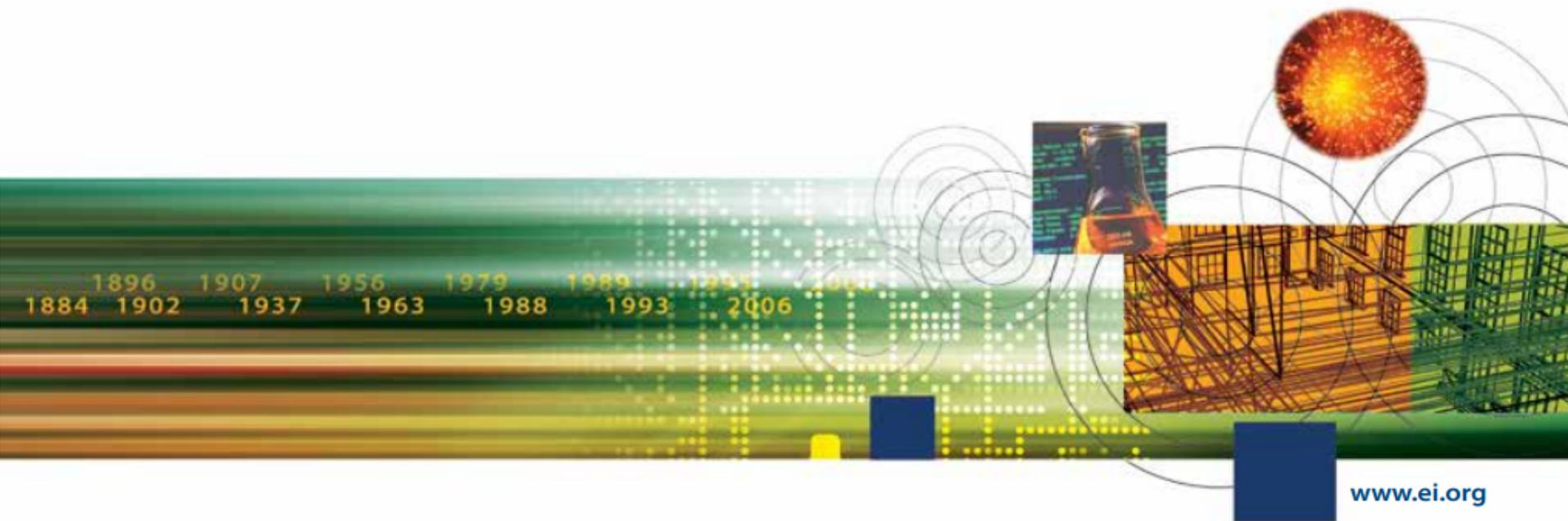
Selected term(s) >

Climatology ✕

Greenhouse effect ✕

AND  
 OR

Date ▾
Document type ▾
Language ▾
Discipline ▾
Treatment ▾
Sort by ▾



# 个人化功能



# My Profile

- 功能
  - 存 索策略 (125个)
  - 建立E-mail Alert (25篇)
  - 建立个人数据
    - 3个 料
    - 每个数据 可 存50篇
  - 修改个人 号信息



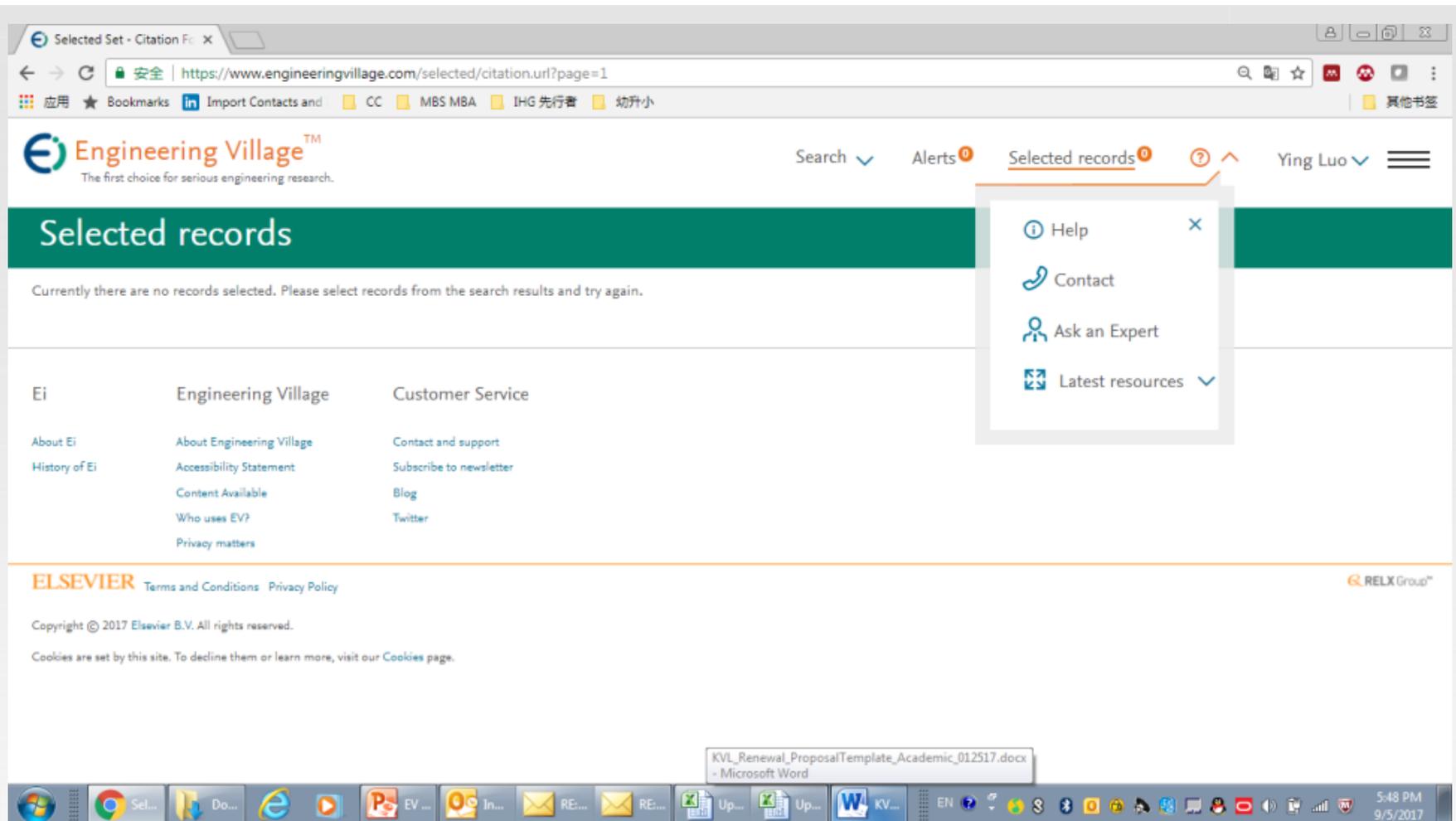
# EV特色

## 索利器

1. Refine Results : 提供**多种字段**支持精确 索, 并可做成 表  
如: 控制 、 索 号、文件形式、刊名等(共10种)
2. 家思 : 控制 - Thesaurus
3. 使用者思 : 自然 - Tag
4. 的 家 索模式: 可自行 入 索 法



# 在



The screenshot shows a web browser window displaying the Engineering Village website. The address bar shows the URL: <https://www.engineeringvillage.com/selected/citation.url?page=1>. The page title is "Selected records". A dropdown menu is open over the "Selected records" link in the navigation bar, showing options: "Help", "Contact", "Ask an Expert", and "Latest resources".

The main content area displays the text: "Currently there are no records selected. Please select records from the search results and try again."

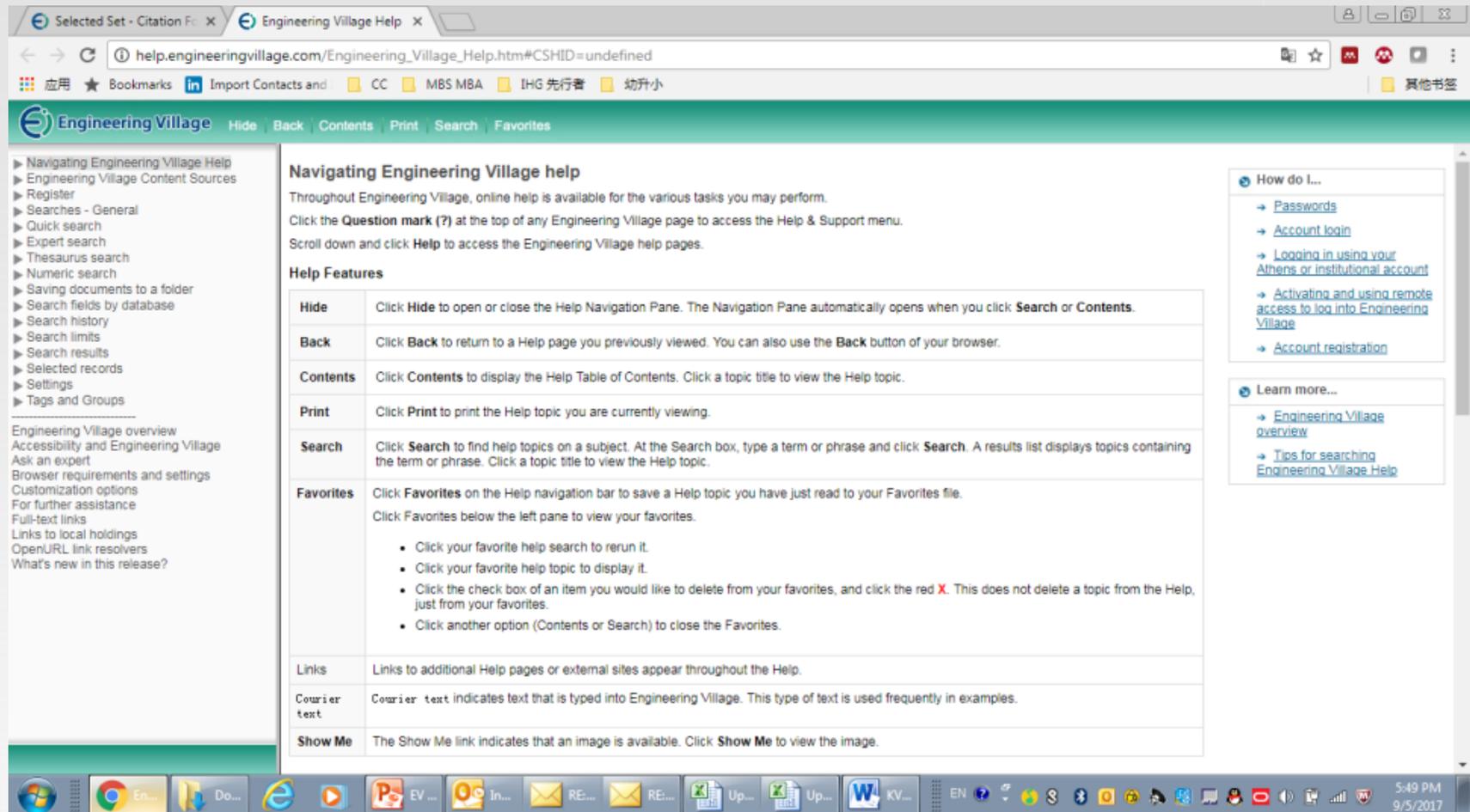
Below this, there is a navigation menu with three columns:

Ei	Engineering Village	Customer Service
About Ei	About Engineering Village	Contact and support
History of Ei	Accessibility Statement	Subscribe to newsletter
	Content Available	Blog
	Who uses EV?	Twitter
	Privacy matters	

At the bottom of the page, there is a footer with the Elsevier logo, "Terms and Conditions", "Privacy Policy", and "RELX Group" logo. Copyright information states: "Copyright © 2017 Elsevier B.V. All rights reserved." and "Cookies are set by this site. To decline them or learn more, visit our Cookies page."

The Windows taskbar at the bottom shows several open applications, including Microsoft Word with the file "KVL\_Renewal\_ProposalTemplate\_Academic\_012517.docx". The system clock shows 5:48 PM on 9/5/2017.

# Help-全面了解Ei



Selected Set - Citation F... Engineering Village Help

help.engineeringvillage.com/Engineering\_Village\_Help.htm#CSHID=undefined

应用 ★ Bookmarks Import Contacts and CC MBS MBA IHG 先行者 幼升小 其他书签

Engineering Village Hide Back Contents Print Search Favorites

▶ Navigating Engineering Village Help  
 ▶ Engineering Village Content Sources  
 ▶ Register  
 ▶ Searches - General  
 ▶ Quick search  
 ▶ Expert search  
 ▶ Thesaurus search  
 ▶ Numeric search  
 ▶ Saving documents to a folder  
 ▶ Search fields by database  
 ▶ Search history  
 ▶ Search limits  
 ▶ Search results  
 ▶ Selected records  
 ▶ Settings  
 ▶ Tags and Groups

Engineering Village overview  
 Accessibility and Engineering Village  
 Ask an expert  
 Browser requirements and settings  
 Customization options  
 For further assistance  
 Full-text links  
 Links to local holdings  
 OpenURL link resolvers  
 What's new in this release?

## Navigating Engineering Village help

Throughout Engineering Village, online help is available for the various tasks you may perform.

Click the **Question mark (?)** at the top of any Engineering Village page to access the Help & Support menu.

Scroll down and click **Help** to access the Engineering Village help pages.

### Help Features

<b>Hide</b>	Click <b>Hide</b> to open or close the Help Navigation Pane. The Navigation Pane automatically opens when you click <b>Search</b> or <b>Contents</b> .
<b>Back</b>	Click <b>Back</b> to return to a Help page you previously viewed. You can also use the <b>Back</b> button of your browser.
<b>Contents</b>	Click <b>Contents</b> to display the Help Table of Contents. Click a topic title to view the Help topic.
<b>Print</b>	Click <b>Print</b> to print the Help topic you are currently viewing.
<b>Search</b>	Click <b>Search</b> to find help topics on a subject. At the Search box, type a term or phrase and click <b>Search</b> . A results list displays topics containing the term or phrase. Click a topic title to view the Help topic.
<b>Favorites</b>	<p>Click <b>Favorites</b> on the Help navigation bar to save a Help topic you have just read to your Favorites file.</p> <p>Click Favorites below the left pane to view your favorites.</p> <ul style="list-style-type: none"> <li>Click your favorite help search to rerun it.</li> <li>Click your favorite help topic to display it.</li> <li>Click the check box of an item you would like to delete from your favorites, and click the red <b>X</b>. This does not delete a topic from the Help, just from your favorites.</li> <li>Click another option (Contents or Search) to close the Favorites.</li> </ul>
<b>Links</b>	Links to additional Help pages or external sites appear throughout the Help.
<b>Courier text</b>	Courier text indicates text that is typed into Engineering Village. This type of text is used frequently in examples.
<b>Show Me</b>	The Show Me link indicates that an image is available. Click <b>Show Me</b> to view the image.

How do I...

- [Passwords](#)
- [Account login](#)
- [Logging in using your Athens or institutional account](#)
- [Activating and using remote access to log into Engineering Village](#)
- [Account registration](#)

Learn more...

- [Engineering Village overview](#)
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5:49 PM 9/5/2017

# Contact Us-直接提问

[Click Here to visit our Help Database](#)

Contact Us



## Ask a Question

Your Contact Details

\* Denotes a required field

Title \*

First Name \*

Last Name \*

Email Address \*

Country/Region \*

How can we help you?

Subject \*

To help us resolve your question quickly, please provide as much of the following information as possible.

Attach Files:

Additional Details

Send Message

# Ask An Expert - FAQ

## Ask an expert

Frequently asked questions

[When is full text available?](#)

How can I obtain a full-text document if it is not available to me?

What are "facets" and how do they help my search?

Which groups of results data (facets) are available to me?

Why would I export the grouped result data (facets) into a chart and/or spreadsheet?

How often is content updated into Engineering Village?

How can I manage my results and save my searches?

What is the benefit of email alerts and RSS

Why would I share a record?

What are tags and how can I use them?

What does it mean to "Browse indexes"?

How can the thesaurus help me when searching for content?

Ask an expert

[Ask a product specialist](#)

[Ask a librarian](#)

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- 中文使用指南, 培训课件和Webex视频培训: 爱思唯尔 :  
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## 2016年更新

- 拨款资助 (Grant Funding): 提供拨款资助的信息。
- Knovel 检索 (Knovel Content): 加入Knovel数据库的辅助工具和参考工具书的引文信息
- 快速开始向导 (Getting Started tutorials)
- 数据检索 (Numeric search Filte): 从文摘中提取数值信息并提供数值检索新功能。

# 拨款资助：精炼检索，快速检索和专家检索中的体现

**Publisher**   

**Funding sponsor**   

- National Natural Science Foundation of China (20404)
- National Science Foundation (3977)
- Engineering and Physical Sciences Research Council (1579)
- Natural Sciences and Engineering Research Council of Canada (1558)
- National Research Foundation of Korea (1249)

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 GeoRef  US Patents  EP Patents

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# 数据检索

## Comparison of geotechnical properties from large-diameter long cores and borings in deep water Gulf of Mexico

**Authors:** Young, A.G. (1); Honganen, C.D. (1); Silva, A.J. (1); Bryant, W.R. (1)

**Author affiliation:** (1) Marsco Inc.

**Corresponding author:** Young, A.G.

**Source title:** Proceedings of the Annual Offshore Technology Conference

**Conference name:** 32nd Annual Offshore Technology Conference - OTC 2000

**Conference date:** May 1, 2000 - May 4, 2000

**Conference location:** Houston, TX, USA

**Publisher:** Offshore Technol Conf, United States

**Abstract:** Large-diameter long piston cores (Jumbo Piston Corer, JPC) and Large-diameter Gravity Cores (LGC) were taken immediately adjacent to previously drilled geotechnical borings at three floating platform sites: Auger, Jolliet, and Marlin. This task was included as part of a more comprehensive NSF program on seabed processes in the deep water Gulf of Mexico. Sediment properties measured included bulk density, magnetic susceptibility, compression wave velocity, vane shear strength, and unconsolidated-undrained triaxial strength. A comprehensive geotechnical-testing program confirms the samples are high quality and shear strengths within the 63-ft core depth were comparable to the results of tests on the geotechnical borings. The exception occurred when gassy deposits were encountered. The use of the LGC and Multi-Sensor Core Logger (MSCL) in conjunction with the JPC proved to be valuable in assessing the quality and continuity of the piston cores. At the Auger and Marlin sites, there was good agreement between the sediment properties obtained from the borings and cores over the cored depth of 63 ft. At the Jolliet site, the values of strength obtained from the core in the upper 10 to 20-ft. were considerably higher than those obtained from the nearby boring. With modifications, the long coring system can be extended to take 100-ft samples. The use of large-diameter piston and gravity cores can provide an economical alternative to traditional borings for the design of shallow foundations for subsea completions, pipelines, suction caissons, and identification of geohazards.

**Numerical data indexing:** Size 1.92e+01m, Size 3.05e+00m to 6.10e+00m, Size 3.05e+01m

**Database:** Compendex

**Data Provider:** Engineering Village

**Numeric Filter** ⓘ

Size ▾

Foot (ft) ▾

Equals ▾ 63

Continue

Greater than

Greater or equal ⓘ

Less than

Less or equal

Range

Nanometer (nm)   ▾

Picometer (pm)   ▾

Yard (yd)   ▾

RotationalSpeed   ▾

**Size**   ▾

Specific Energy   ▾

Specific Surface Area   ▾

Surface Charge Density   ▾

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