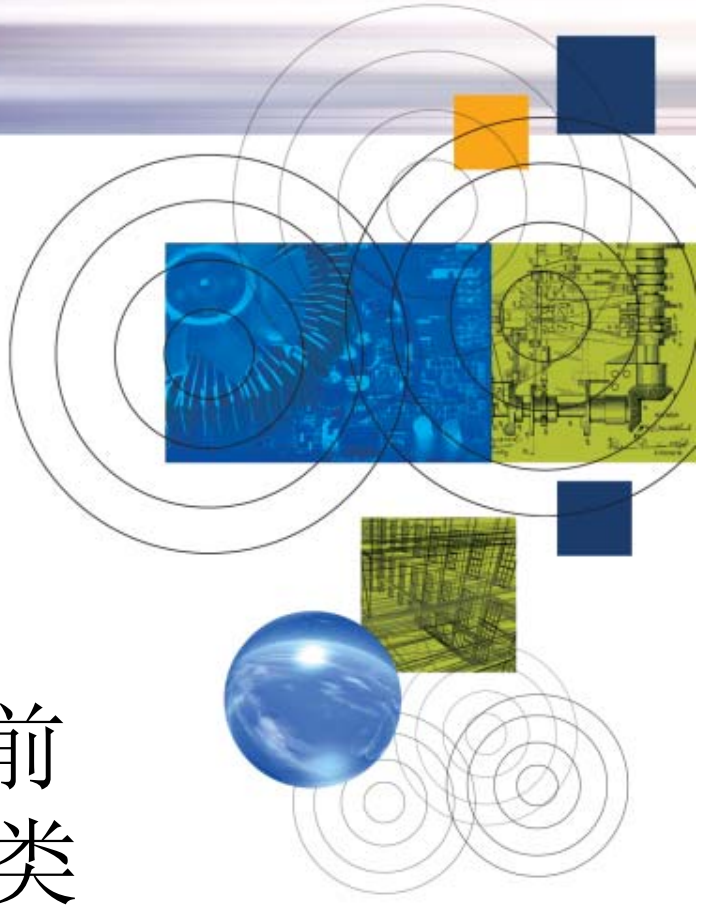
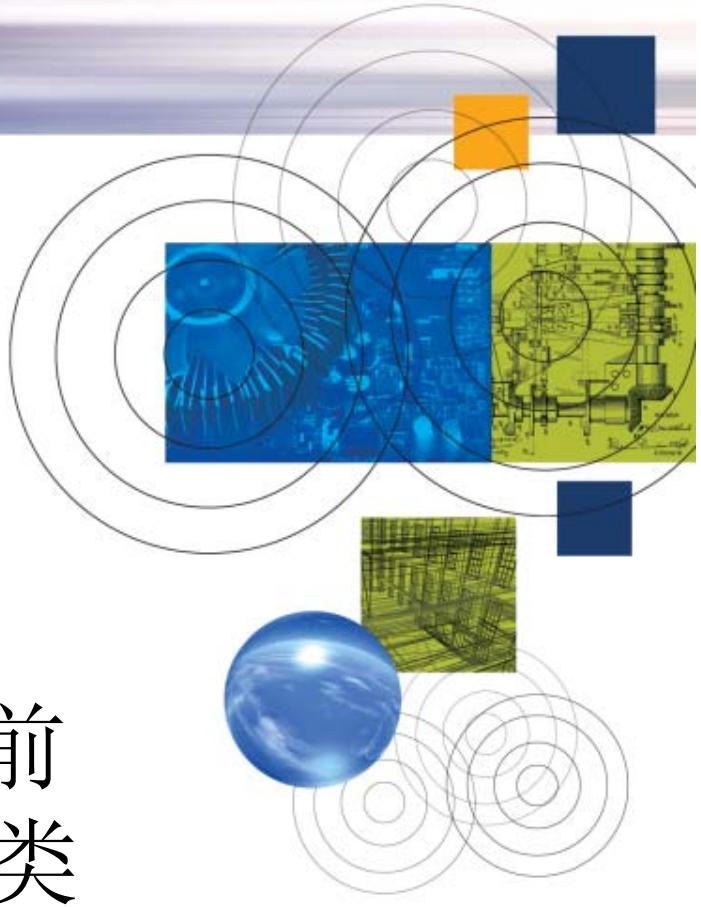


Ei数据库在开题与课题申请前的文献调研中的应用—工程类

Engineering Village

ELSEVIER

www.ei.org



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

Engineering Village

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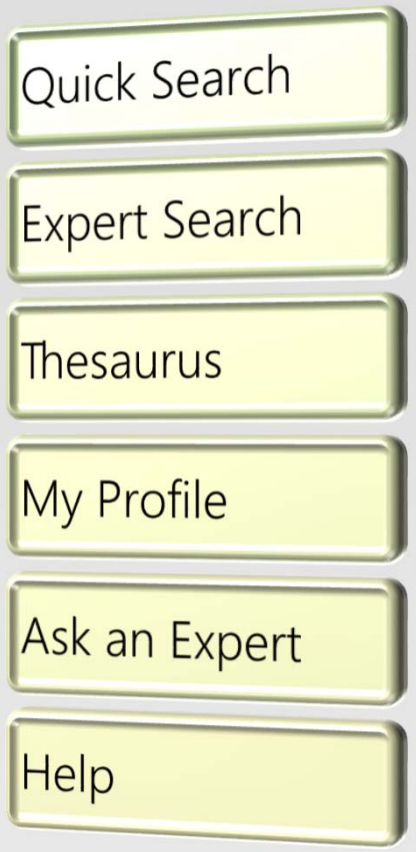
提纲

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



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）

此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

先看综述性论文，再看研究论文。

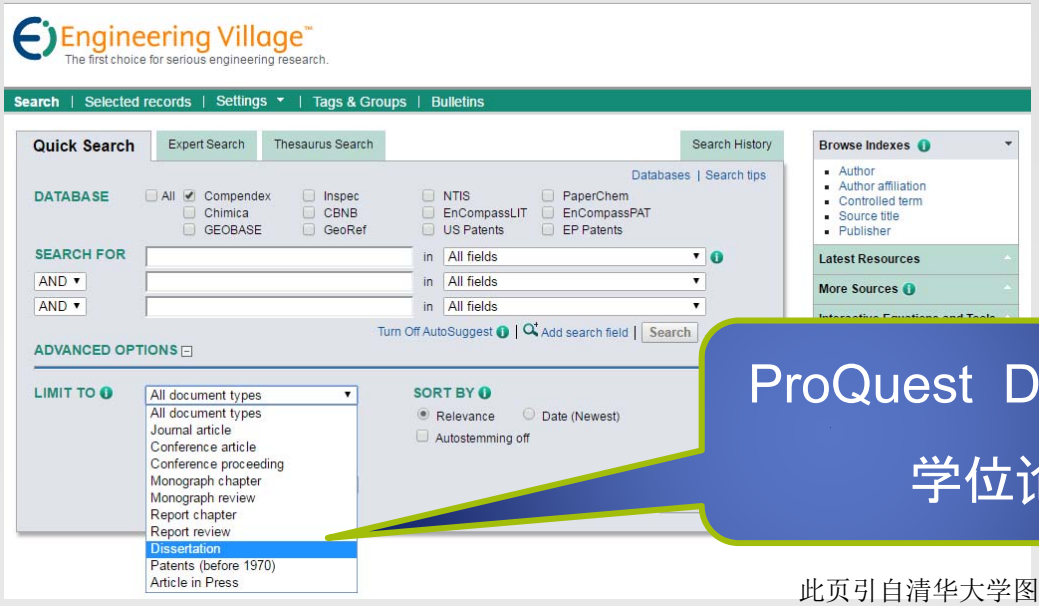
- 特点:综合性、扼要性和评价性，参考文献多。
- 应作为“起步文献”加以参考利用。

此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

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

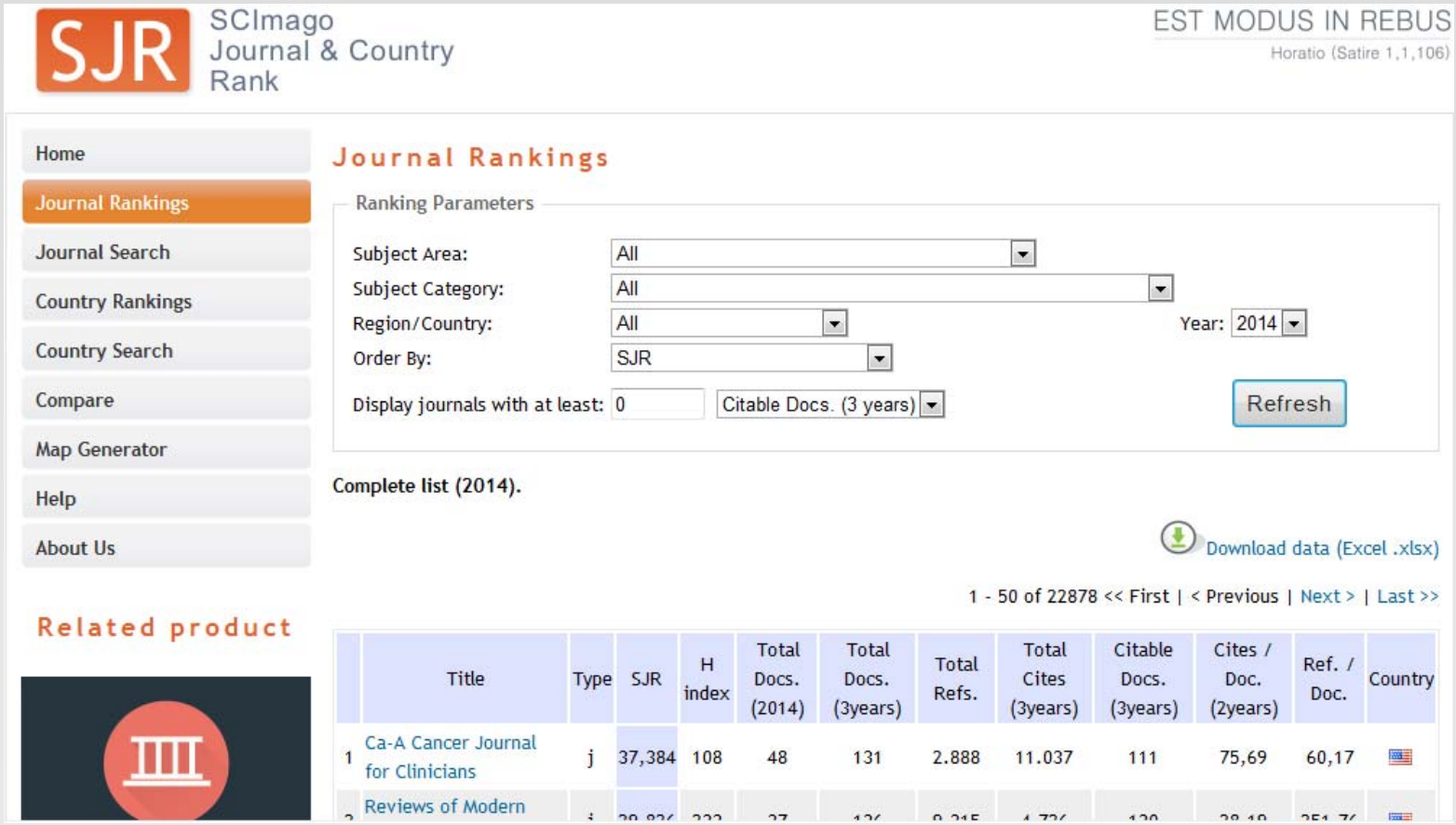
可以获得课题研究的更多相关文献



此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

寻找本研究领域的高品质期刊。

- 参考http://www.scimagojr.com/等知名排名.



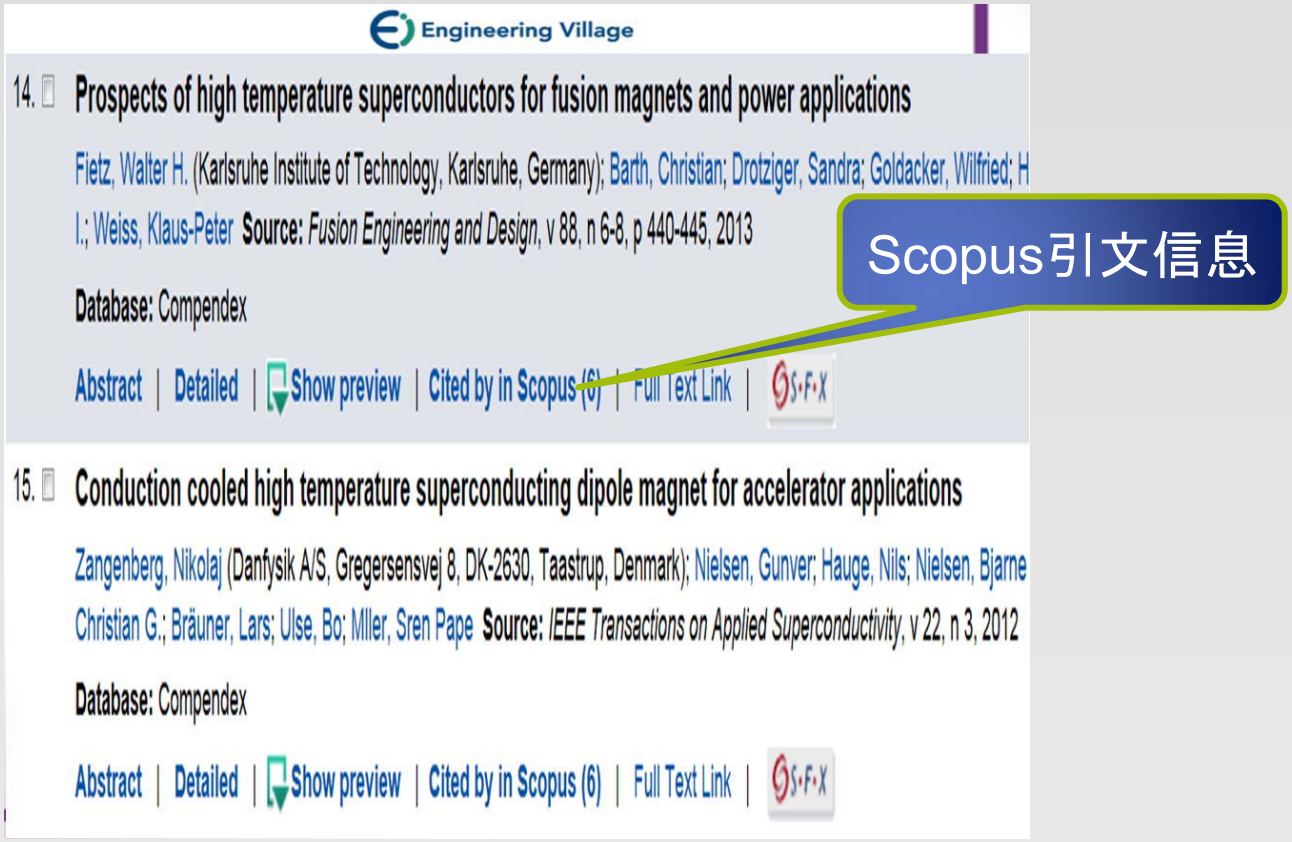
阅读本领域的主要研究者/机构的文献

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

此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

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。



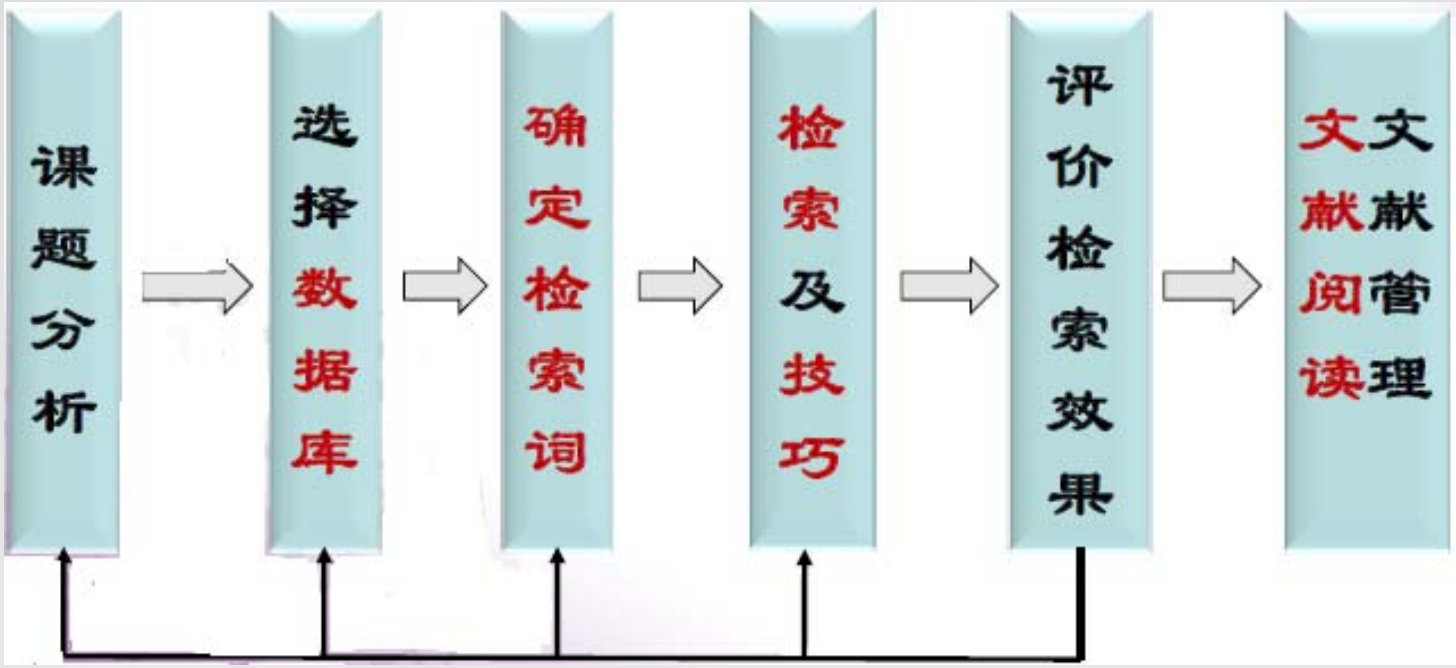
此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

- **选题要小**，而查阅文献的**范围要大**。
- 通过全面的文献检索和阅读，有助于发现新的研究视角，开阔研究思路。
- 少走弯路，提高研究的有效性。

此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

二、文献检索

- 文献检索是以一定的程序和方法从文献集合中查找相关文献的活动，包括相关文献目录、文摘和全文。
- 文献检索一般步骤：



此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

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

此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

与工程领域相关的主要数据库

Knovel **39**个学科

ASABE Journal 美国农业生物工程师学会 **7**个领域

ASME Digital Library 美国机械工程师学会 **8** 个领域

SPIE Digital Library--国际光学工程学会期刊及会议录 **9**个领域

Biotechnology and Bioengineering Abstracts (1982-)--生物技术和生物工程文摘数据库(CSA) **7**个领域

IEEE/IEE Electronic Library (IEL)美国电气电子工程师学会(IEEE)和英国电气工程师学会(IEE)全文数据库**22**个学科 242种期刊 每周增加5,800篇最新文献

万方数据库－中国科学工程期刊文摘数据库 **10**个学科

万方数据库－中国机械工程文摘数据库 **2**个学科 全国机电、仪表行业各类期刊约*750*种以上的专业文献，各种专题文献、会议论文和全文

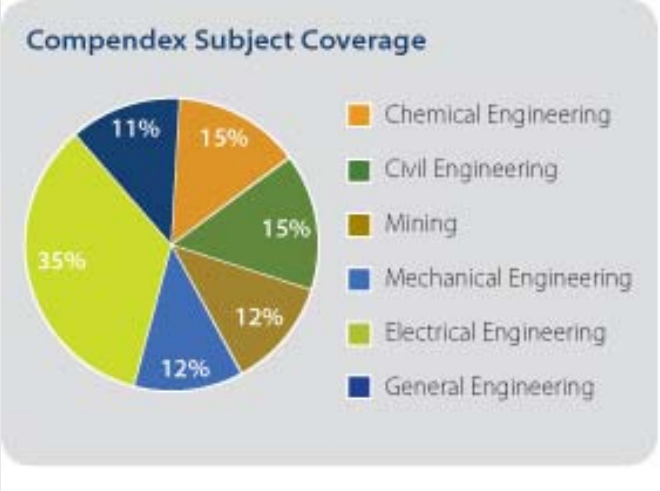
Engineering Village接口与收录内容

- 由美国Elsevier Engineering Information Inc. 所出版，提供工程领域的信息

- EV 平台接口下 内涵各种多元数据库：
  - **Compendex**(其中Compendex回溯期刊需另购)
  - INSPEC (需另购)
  - NTIS (需另购)
  - Referex Engineering 电子书 (需另购)
  - GeoBASE (需另购)
  - GeoRef (需另购)
  - EnCompassLIT & EnCompassPAT (需另购) Chimica&CBNB (需另购)
  - PaperChem (需另购)
  - USPTO / EPO专利 (需另购)
  - Scirus

Compendex

- 收录年代：1970年至今
- 3,600多种、期刊、商业杂志、和技术报告资料
- 80000多种工程研讨会会议记录
- 资料量：超过 1800 万篇，每年新增约 100万篇资料
- 包含 190 种工程领域学科，如：**化学工程、土木工程、矿业、机械工程、电子工程、**
- 收录超过55个国家的出版品，其中中文期刊200余种。
- 更新频率：每周
- 回溯期刊： 1884年-1969年



EI数据库：190个应用科学和工程类别

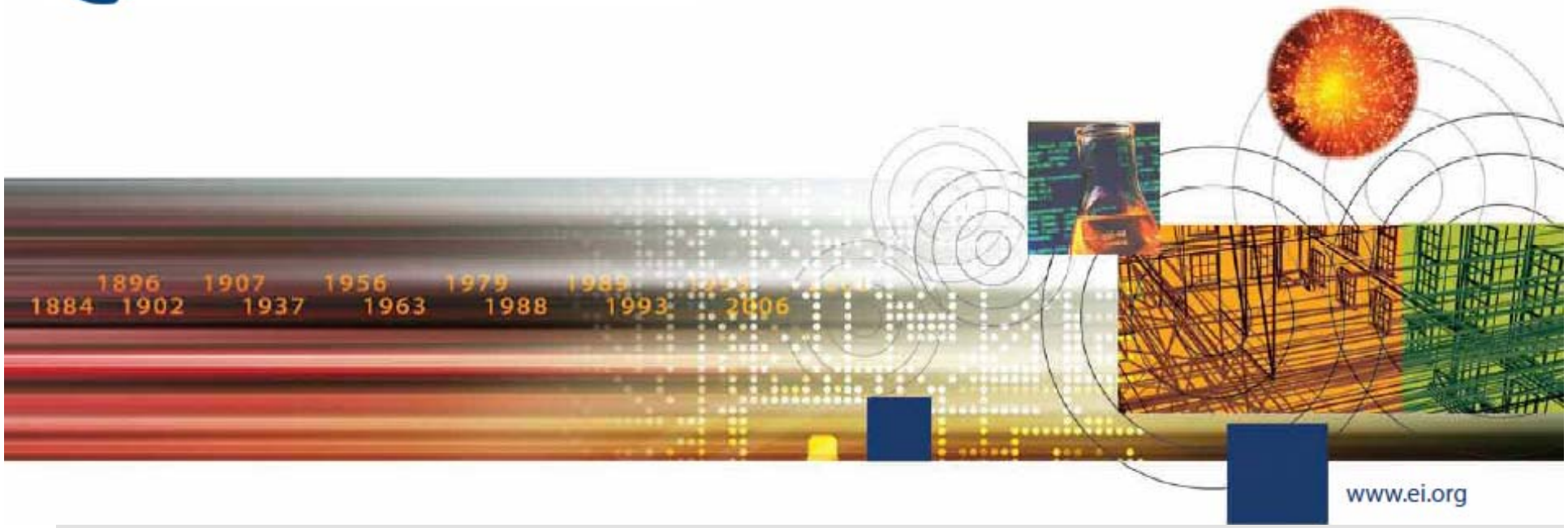
- ✓核技术
- ✓生物工程
- ✓交通运输
- ✓化学和工艺工程
- ✓照明和光学技术
- ✓农业工程和食品技术
- ✓计算机和数据处理
- ✓应用物理
- ✓电子和通信
- ✓控制工程
- ✓土木工程
- ✓机械工程
- ✓材料工程
- ✓石油
- ✓宇航
- ✓汽车工程

以及这些领域的子学科

EI数据库：最详尽的工程文献数据库

Engineering Village

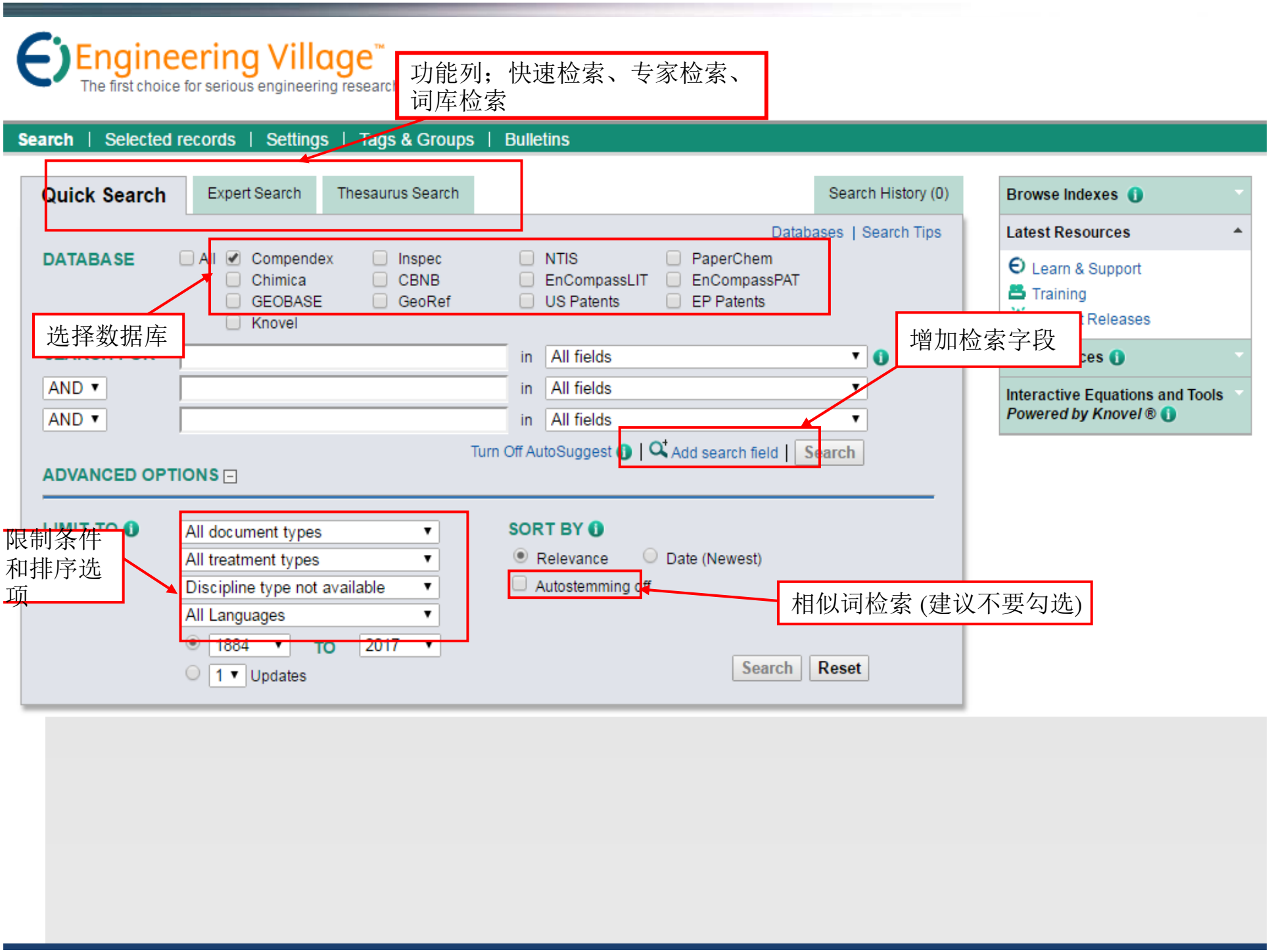
Compendex



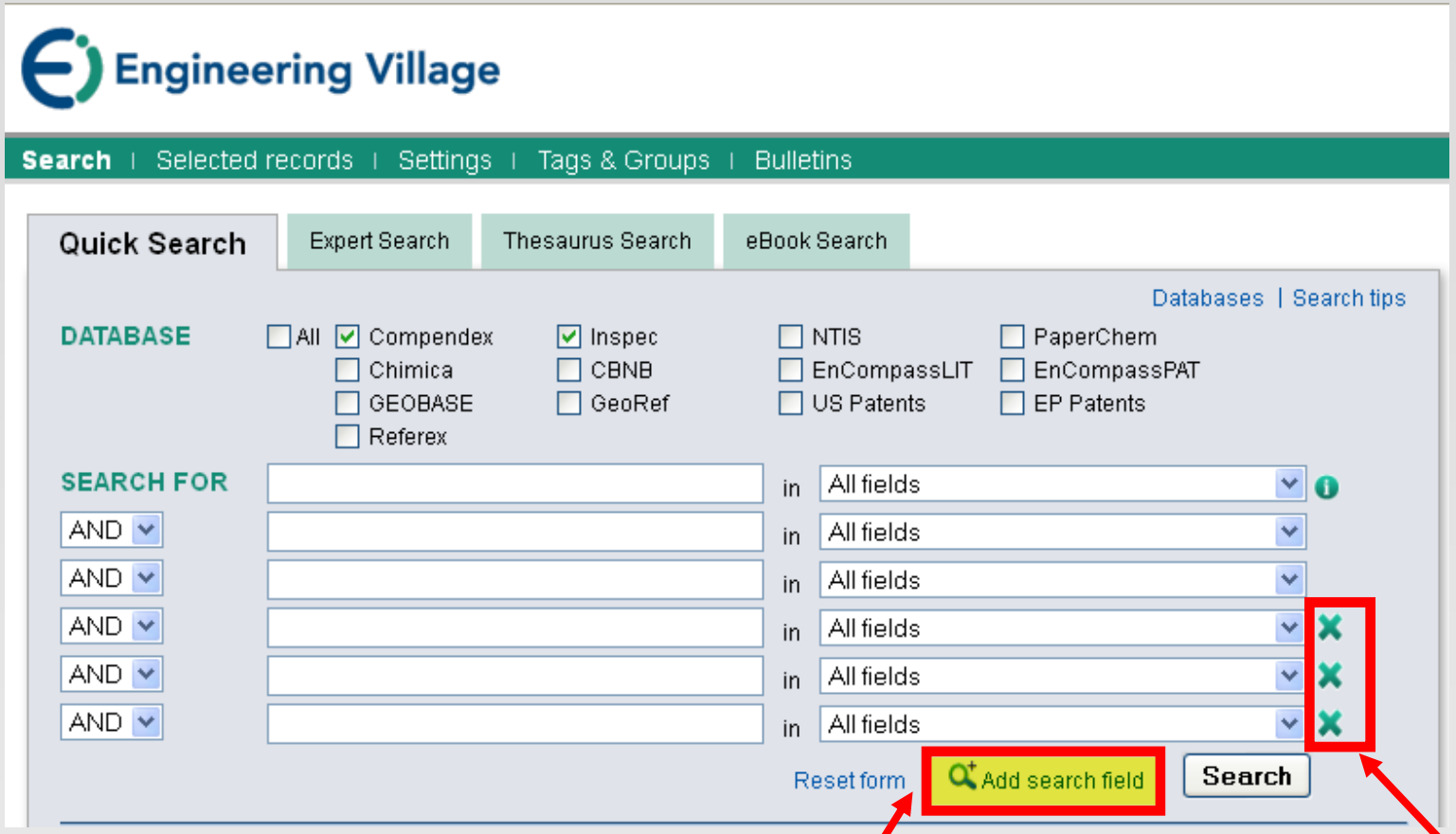
检索方式

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

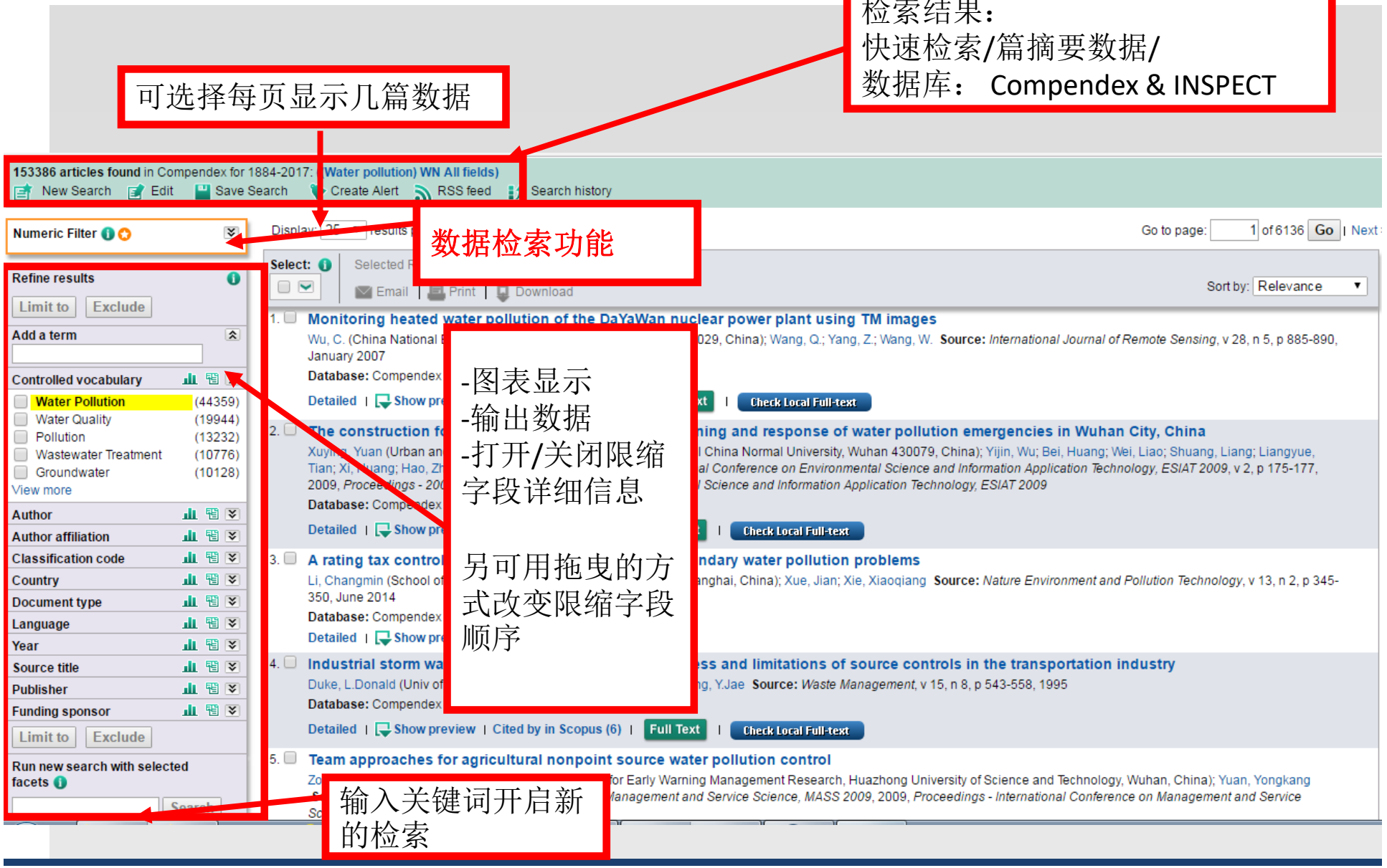
Quick Search – 快速检索


Engineering Village
The first choice for serious engineering research
功能列；快速检索、专家检索、词库检索
Search | Selected records | Settings | Tags & Groups | Bulletins
Quick Search
Expert Search
Thesaurus Search
Search History (0)
Databases | Search Tips
DATABASE
All
Compendex
Inspec
NTIS
PaperChem
Chimica
CBNB
EnCompassLIT
EnCompassPAT
GEOBASE
GeoRef
US Patents
EP Patents
Knovel
选择数据库
in All fields
AND
in All fields
AND
in All fields
增加检索字段
Turn Off AutoSuggest | Add search field | Search
ADVANCED OPTIONS
限制条件和排序选项
All document types
All treatment types
Discipline type not available
All Languages
1884
TO
2017
1
Updates
SORT BY
Relevance
Date (Newest)
Autostemming off
相似词检索 (建议不要勾选)
Search
Reset
Browse Indexes
Latest Resources
Learn & Support
Training
Releases
Interactive Equations and Tools
Powered by Knovel ®

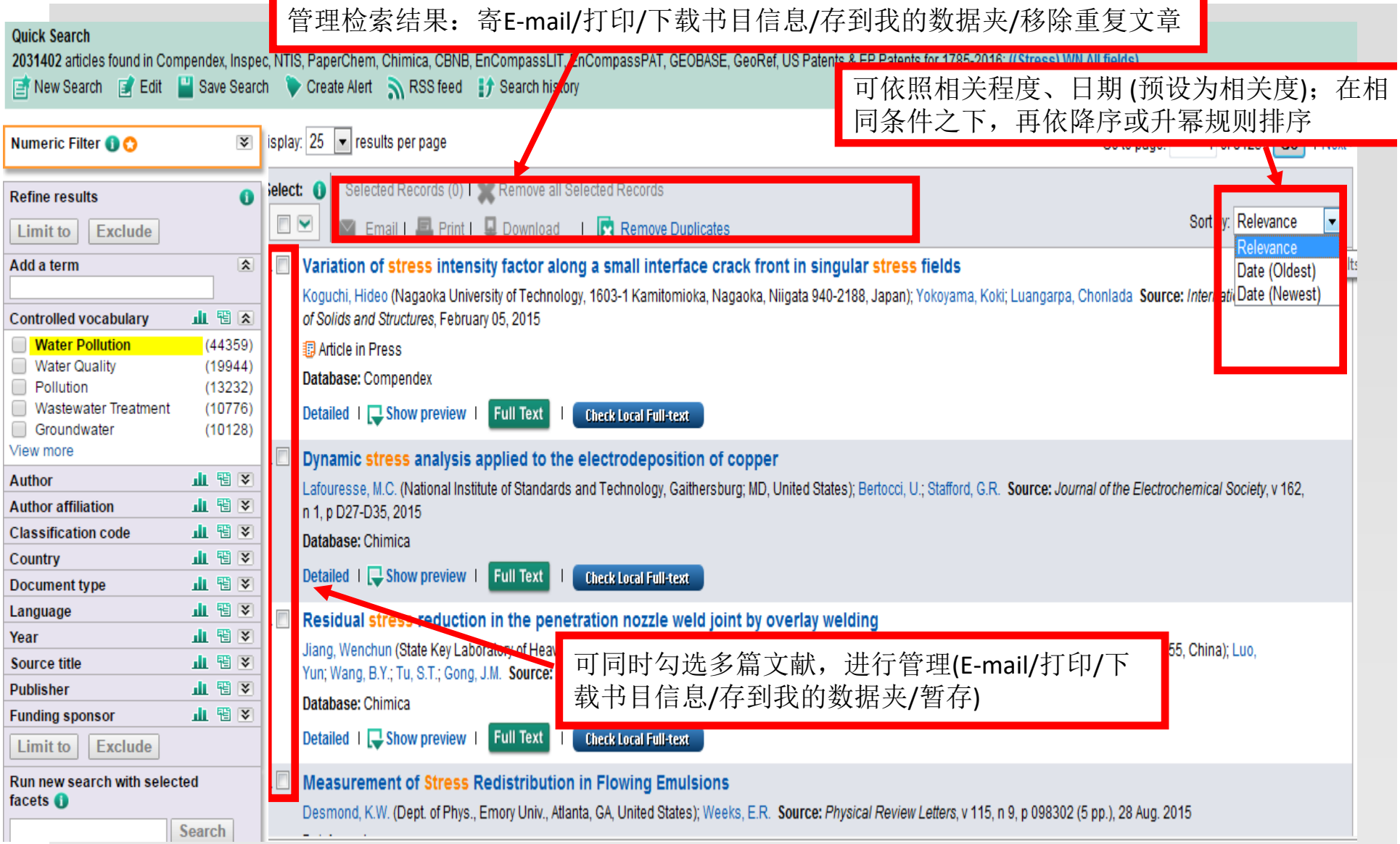
Add Search field – 增加检索字段



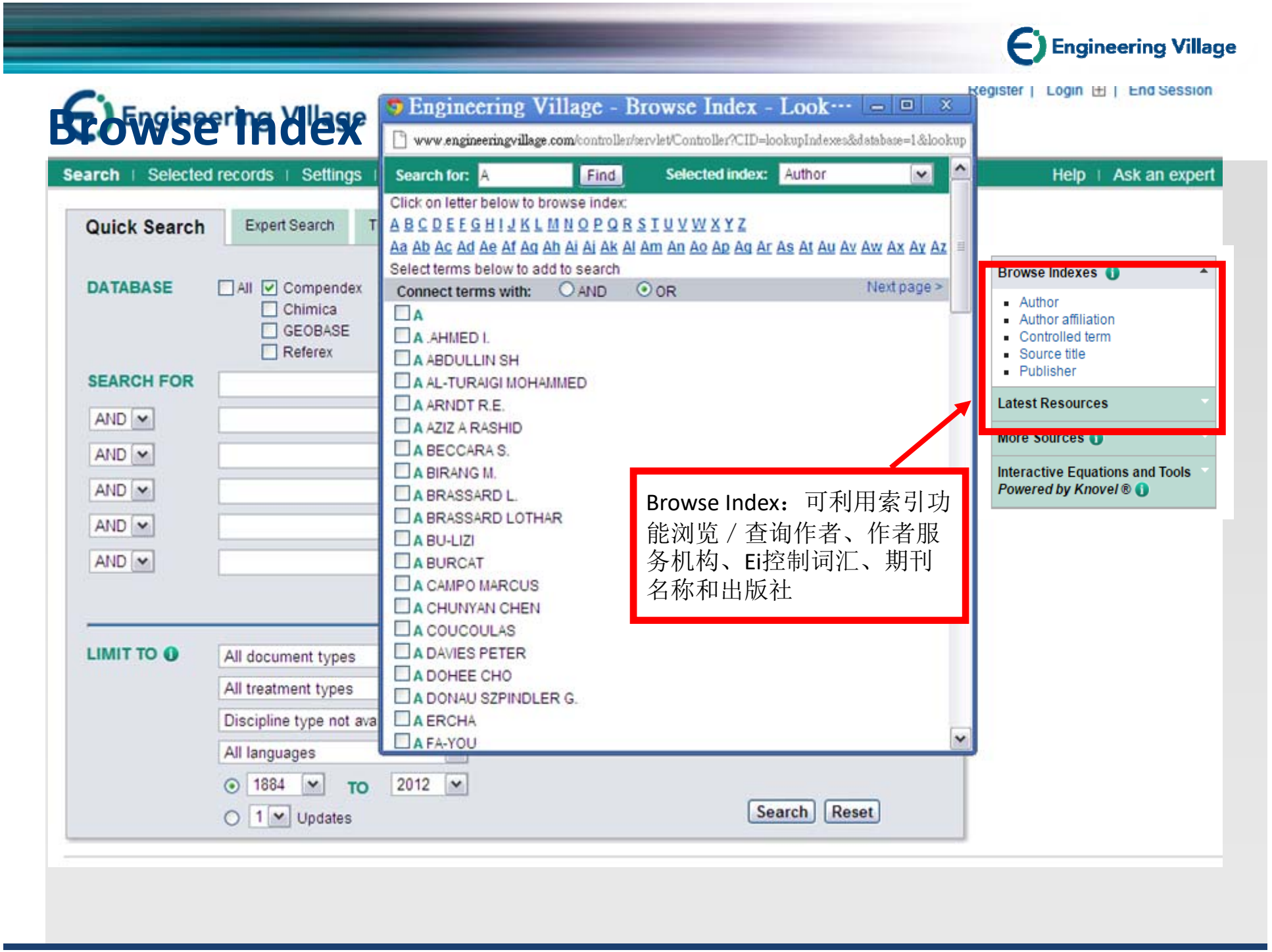
结果页面 - 1


检索结果：
快速检索/篇摘要数据/
数据库： Compendex & INSPECT
可选择每页显示几篇数据
153386 articles found in Compendex for 1884-2017: (Water pollution) WN All fields)
New Search
Edit
Save Search
Create Alert
RSS feed
Search history
数据检索功能
Numeric Filter
Refine results
Limit to
Exclude
Add a term
Controlled vocabulary
Water Pollution (44359)
Water Quality (19944)
Pollution (13232)
Wastewater Treatment (10776)
Groundwater (10128)
View more
Author
Author affiliation
Classification code
Country
Document type
Language
Year
Source title
Publisher
Funding sponsor
Limit to
Exclude
Run new search with selected facets
Search
Display
Go to page: 1 of 6136 Go Next
Select:
Email
Print
Download
Sort by: Relevance
1. Monitoring heated water pollution of the DaYaWan nuclear power plant using TM images
Wu, C. (China National
029, China); Wang, Q.; Yang, Z.; Wang, W. Source: International Journal of Remote Sensing, v 28, n 5, p 885-890, January 2007
Database: Compendex
Detailed
Check Local Full-text
2. The construction fo
ning and response of water pollution emergencies in Wuhan City, China
Xuyin Yuan (Urban an
l China Normal University, Wuhan 430079, China); Yijin, Wu; Bei, Huang; Wei, Liao; Shuang, Liang; Liangyue, Tian; Xi, Huang; Hao, Zh
al Conference on Environmental Science and Information Application Technology, ESIAT 2009, v 2, p 175-177, 2009, Proceedings - 200
l Science and Information Application Technology, ESIAT 2009
Database: Compendex
Detailed
Show pre
Check Local Full-text
3. A rating tax control
ndary water pollution problems
Li, Changmin (School of
anghai, China); Xue, Jian; Xie, Xiaoqiang Source: Nature Environment and Pollution Technology, v 13, n 2, p 345-350, June 2014
Database: Compendex
Detailed
Show pre
4. Industrial storm wa
ess and limitations of source controls in the transportation industry
Duke, L.Donald (Univ of
g, Y.Jae Source: Waste Management, v 15, n 8, p 543-558, 1995
Database: Compendex
Detailed
Show preview
Cited by in Scopus (6)
Full Text
Check Local Full-text
5. Team approaches for agricultural nonpoint source water pollution control
Zo
for Early Warning Management Research, Huazhong University of Science and Technology, Wuhan, China); Yuan, Yongkang
Management and Service Science, MASS 2009, 2009, Proceedings - International Conference on Management and Service
-图表显示
-输出数据
-打开/关闭限缩字段详细信息
另可用拖曳的方式改变限缩字段顺序
输入关键词开启新的检索

结果页面 - 2


Selected Records：暂存文章
管理检索结果：寄E-mail/打印/下载书目信息/存到我的数据夹/移除重复文章
可依照相关程度、日期 (预设为相关度)；在相同条件之下，再依降序或升幂规则排序
可同时勾选多篇文献，进行管理(E-mail/打印/下载书目信息/存到我的数据夹/暂存)
Quick Search
2031402 articles found in Compendex, Inspec, NTIS, PaperChem, Chimica, CBNB, EnCompassLIT, EnCompassPAT, GEOBASE, GeoRef, US Patents & EP Patents for 1785-2016: ((Stress) WN All fields)
New Search
Edit
Save Search
Create Alert
RSS feed
Search history
Numeric Filter
Refine results
Limit to
Exclude
Add a term
Controlled vocabulary
Water Pollution (44359)
Water Quality (19944)
Pollution (13232)
Wastewater Treatment (10776)
Groundwater (10128)
View more
Author
Author affiliation
Classification code
Country
Document type
Language
Year
Source title
Publisher
Funding sponsor
Limit to
Exclude
Run new search with selected facets
Search
Display: 25 results per page
Select:
Selected Records (0)
Remove all Selected Records
Email
Print
Download
Remove Duplicates
Sort by: Relevance
Relevance
Date (Oldest)
Date (Newest)
Variation of stress intensity factor along a small interface crack front in singular stress fields
Koguchi, Hideo (Nagaoka University of Technology, 1603-1 Kamitomioka, Nagaoka, Niigata 940-2188, Japan); Yokoyama, Koki; Luangarpa, Chonlada Source: International Journal of Solids and Structures, February 05, 2015
Article in Press
Database: Compendex
Detailed
Show preview
Full Text
Check Local Full-text
Dynamic stress analysis applied to the electrodeposition of copper
Lafouresse, M.C. (National Institute of Standards and Technology, Gaithersburg; MD, United States); Bertocci, U.; Stafford, G.R. Source: Journal of the Electrochemical Society, v 162, n 1, p D27-D35, 2015
Database: Chimica
Detailed
Show preview
Full Text
Check Local Full-text
Residual stress reduction in the penetration nozzle weld joint by overlay welding
Jiang, Wenchun (State Key Laboratory of Heavy
55, China); Luo, Yun; Wang, B.Y.; Tu, S.T.; Gong, J.M. Source:
Database: Chimica
Detailed
Show preview
Full Text
Check Local Full-text
Measurement of Stress Redistribution in Flowing Emulsions
Desmond, K.W. (Dept. of Phys., Emory Univ., Atlanta, GA, United States); Weeks, E.R. Source: Physical Review Letters, v 115, n 9, p 098302 (5 pp.), 28 Aug. 2015

Browse Index



文献内容：摘要形式

Engineering Village
Register | Login | End Session
在Scopus中引用之文献，
点选连至Scopus数据库!
Search | Selected records | Settings | Tags & Groups | Bulletins Help |
New Search | View search history | Back to results | < Previous 21 of 1093117 Next >
Full text | Blog This | Email | Print | Download | Save to Folder
Abstract | Detailed
Highlight search terms
Record 21 from Compendex & Inspec for: ((stress) WN All fields), 1884-2012
Check record to add to Selected Records
21. Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom
Brujan, Emil-Alexandru[1, 2]; Vogel, Alfred[1]
Source: Journal of Fluid Mechanics, v 558, p 281-308, July 10, 2006; ISSN: 00221120, E-ISSN: 14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University Press
Author affiliations:
[1] Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany
[2] Department of Hydraulics, University Politehnica, Spl. Independentei 313, 060042 Bucharest, Romania
Abstract:
Stress wave emission and cavitation bubble dynamics after optical breakdown in water and a tissue phantom with Nd: YAG laser pulses of 6 ns duration were investigated both experimentally and numerically to obtain a better understanding of the physical mechanisms involved in plasma- as two orders of magnitude from the static values. The discovery of a tensile stress wave after optical breakdown in tissue-like media is of great importance for the assessment of collateral damage in laser surgery because biological tissues are much more susceptible to tensile stress than to compressive stress. © 2006 Cambridge University Press.(79 refs)
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)
Database: Compendex
Tools in Scopus
Cited by: This article has been cited 41 times in Scopus since 1996.
Brujan, E.A.; Ikeda, T.; Matsumoto, Y.
Shock wave emission from a cloud of bubbles
(2012) Soft Matter
Delbos, A.; Cui, J.; Fakhouri, S.; Crosby, A.J.
Cavity growth in a triblock copolymer polymer gel
(2012) Soft Matter
Author details: View Author Details in Scopus.
Brujan, E.-A.
Vogel, A.
Learn more about Scopus
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Public
Add
del.icio.us

文献内容：详细格式

Authors：点选作者名字找到更多该作者发表的文章

Author affiliation：每位作者的所属机构

E-mail：主要作者联络信息
ISSN：找到更多关于这本期刊的文章

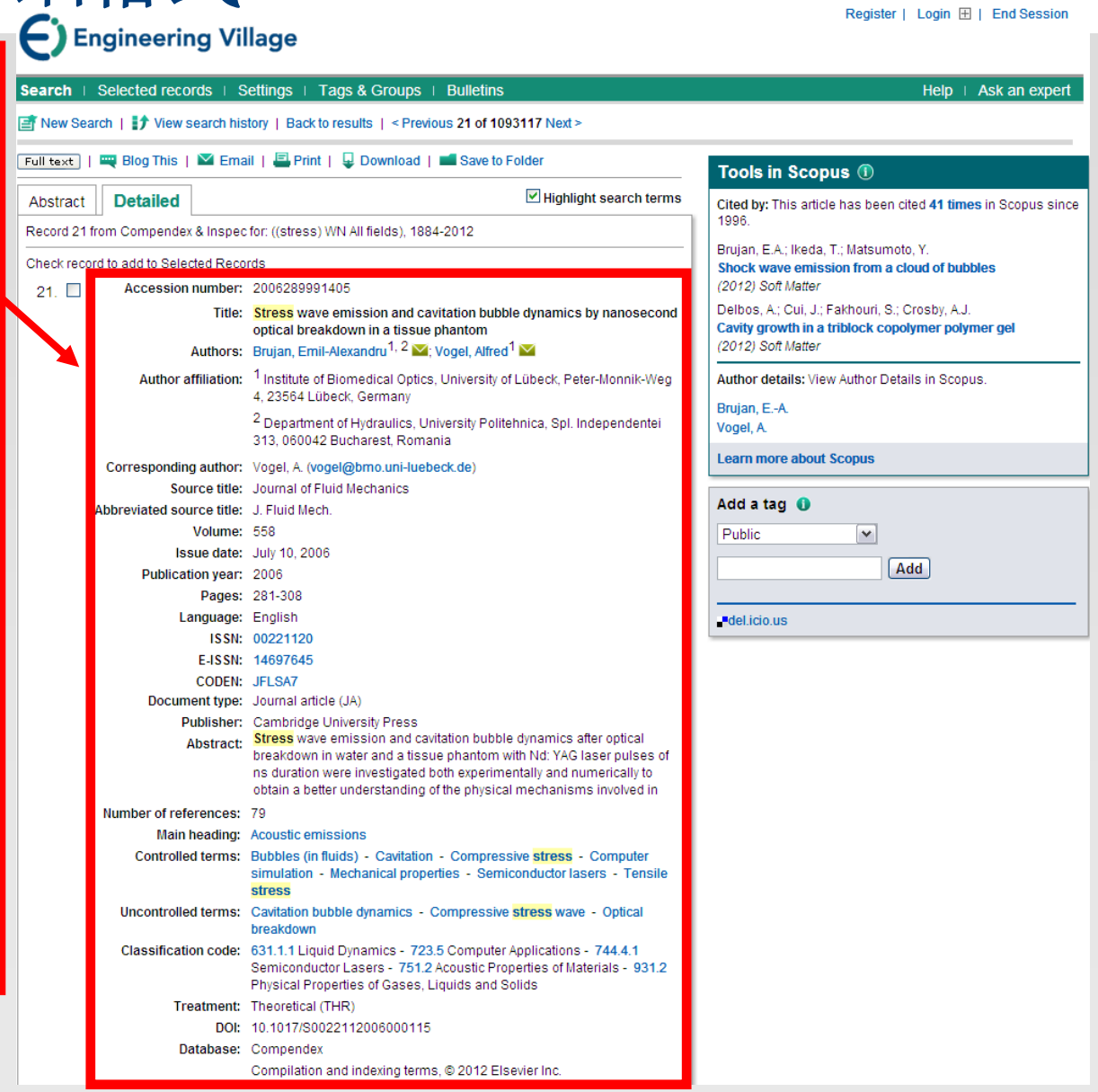
Abstract：文章内容摘要

Main heading：主要主题

Controlled term：索引词汇标准

Uncontrolled term：相关主题的广义分类

Classification code：在来源中其它附加优势的字汇和词组



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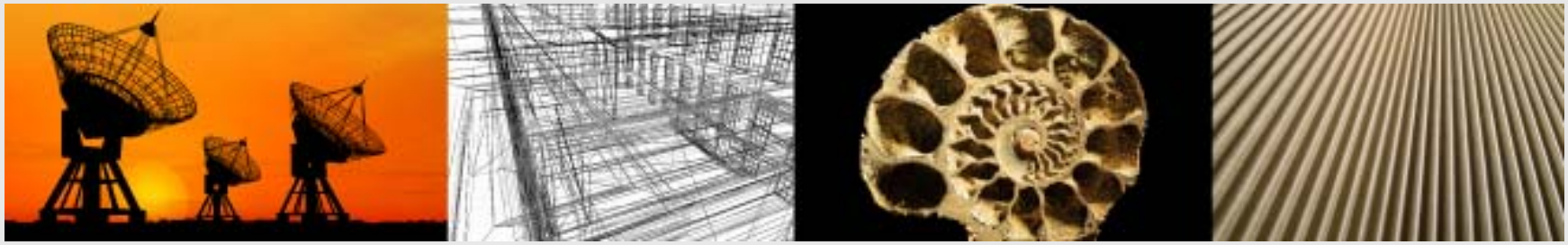
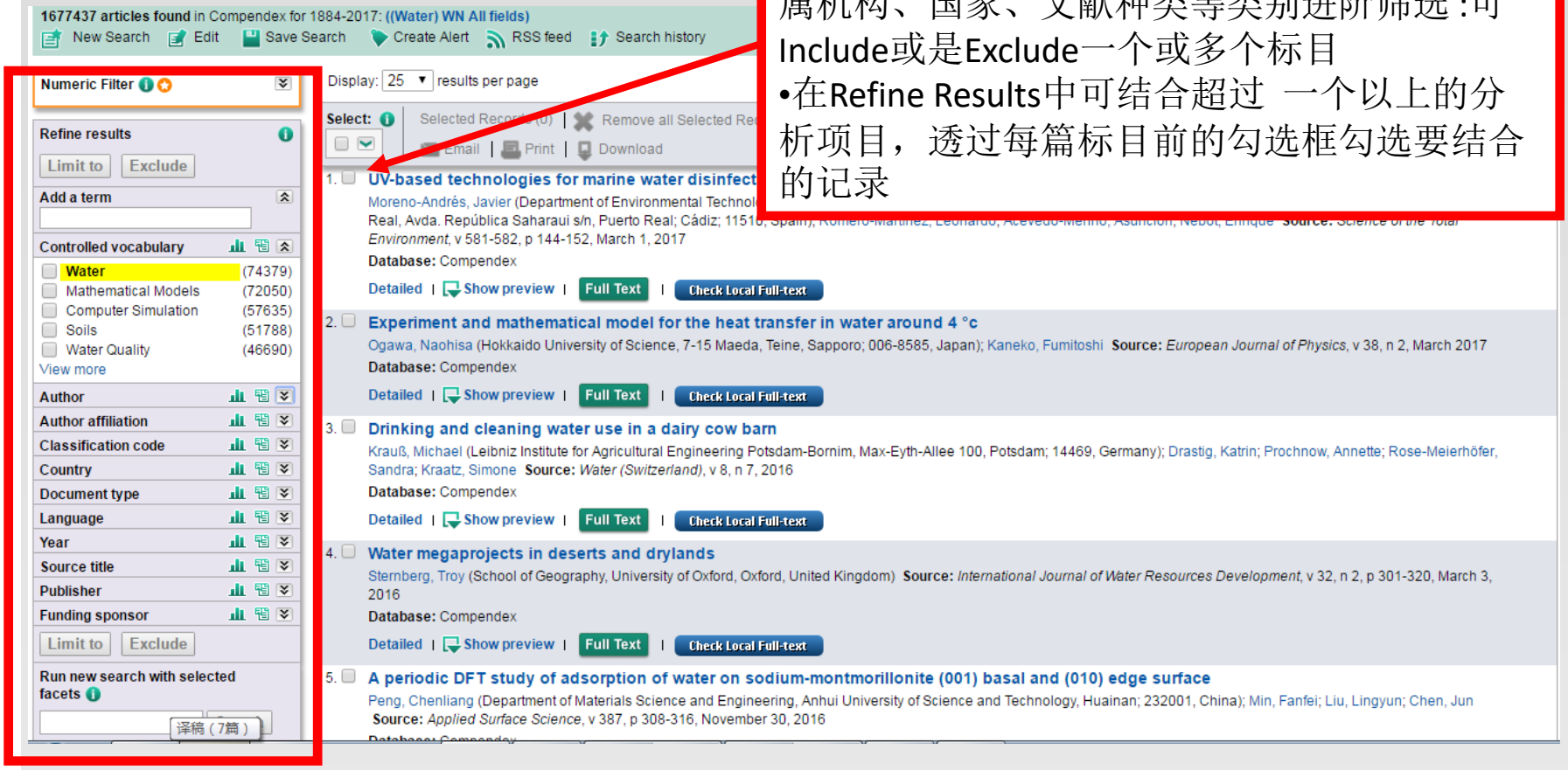
结果中再检索

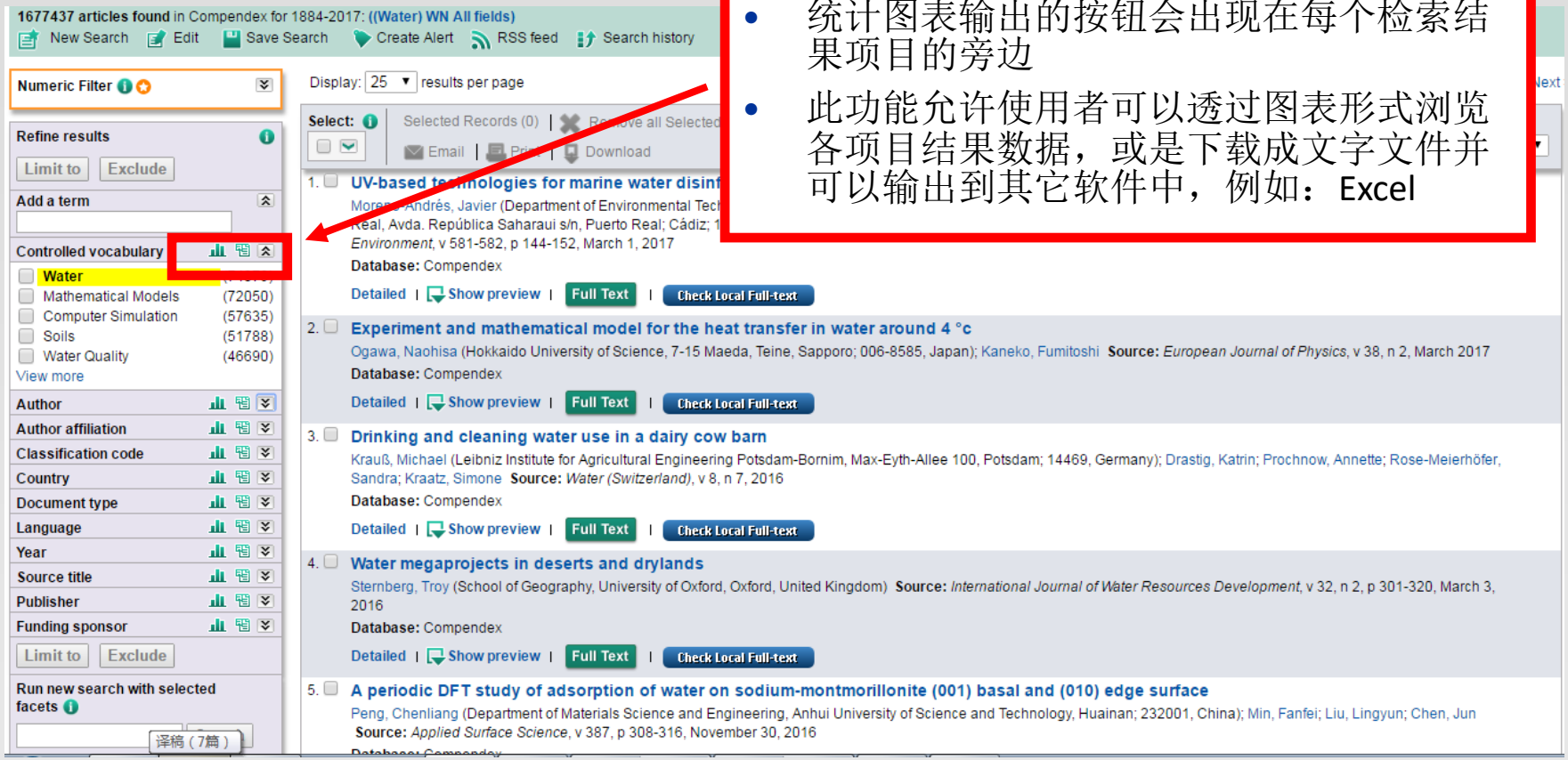


Refine Result 结果再检索



- 在Refine Results检索结果中:可依作者、作者所属机构、国家、文献种类等类别进阶筛选 :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

Refine Results Graphs & Export

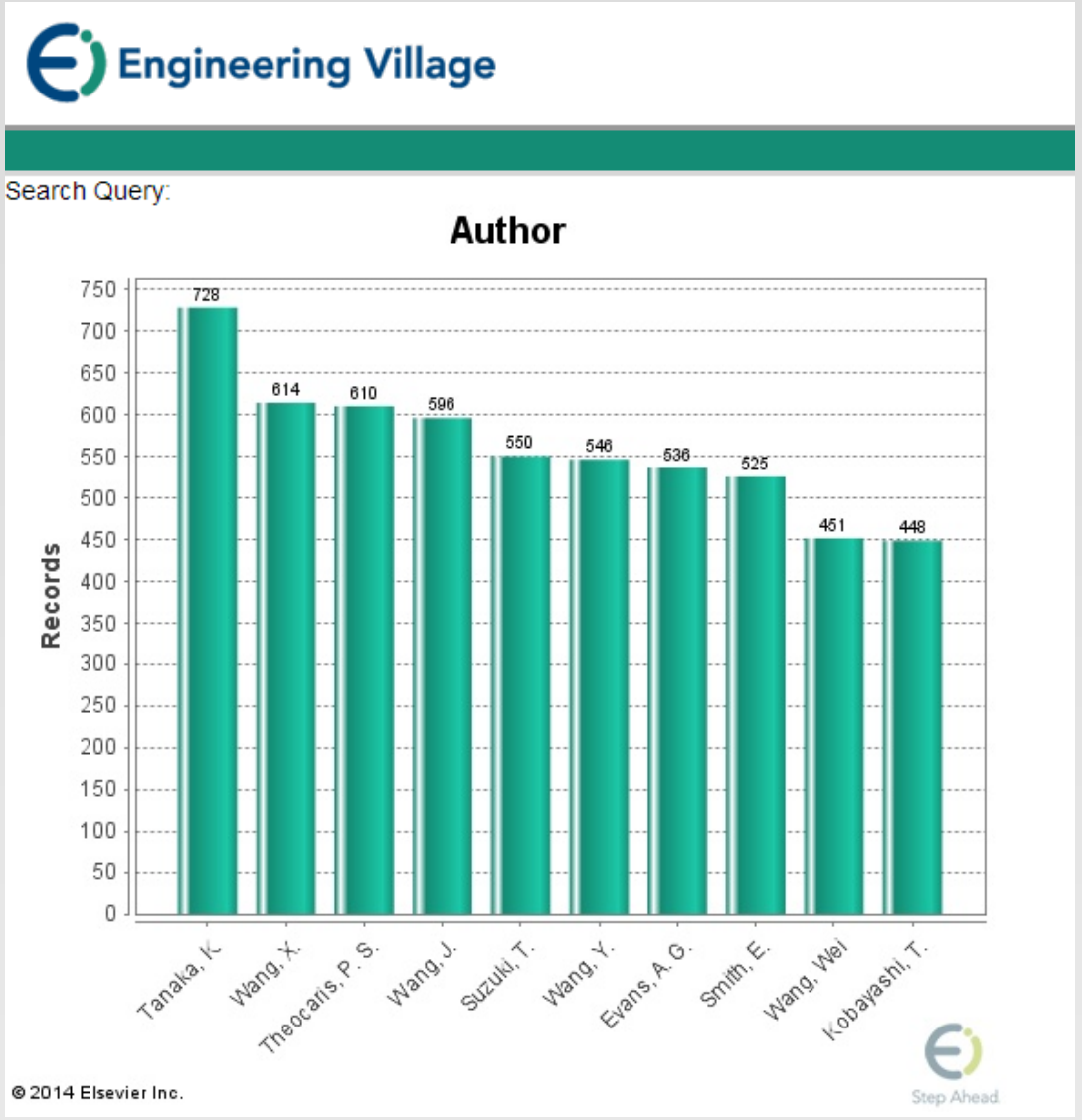


- 统计图表输出的按钮会出现在每个检索结果项目的旁边
- 此功能允许使用者可以透过图表形式浏览各项目结果数据，或是下载成文字文件并可以输出到其它软件中，例如：Excel

Refine Results Graphs & Export

- 当点选 图表，会开启一个新窗口看到在各分析项目中前10篇结果的图片。

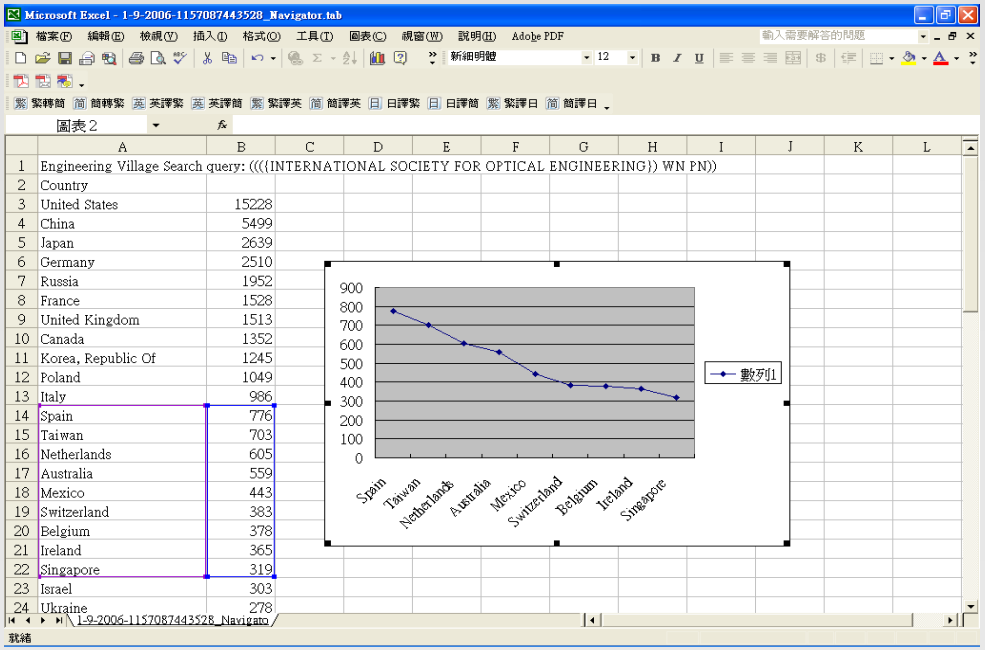
- 例如：右图呈现该检索主题各国家的学者所发表的文献数量!并可将此图片存盘、打印、或是Email。



Refine Results Graphs & Export

- 点选 图标可以让您将图表输出成tab档案

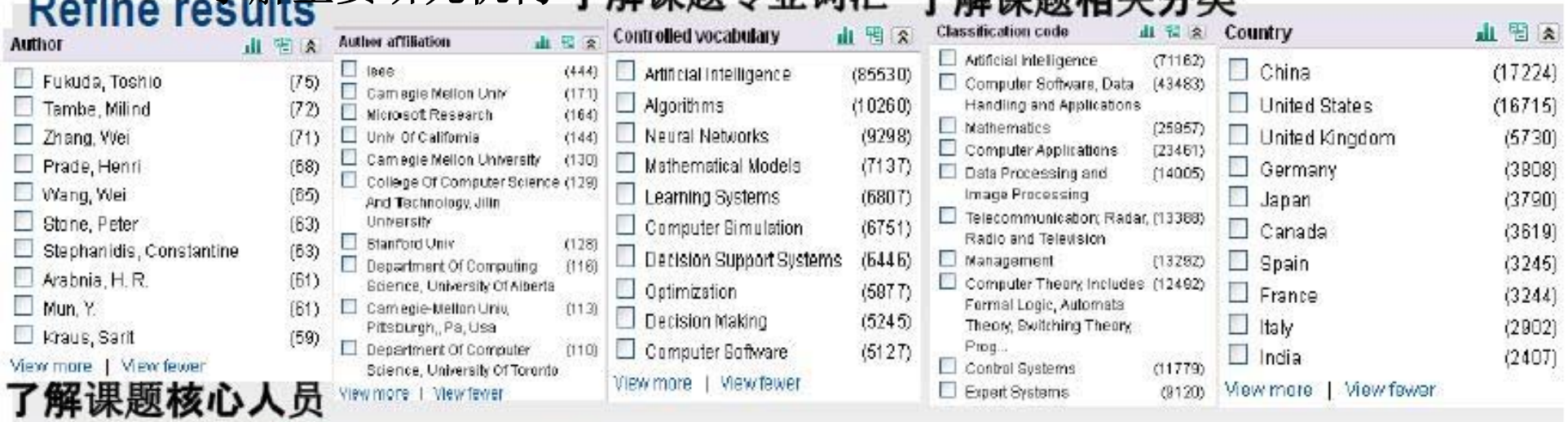
- 您也可以将输出的档案以**Excel**软件开启分析管理



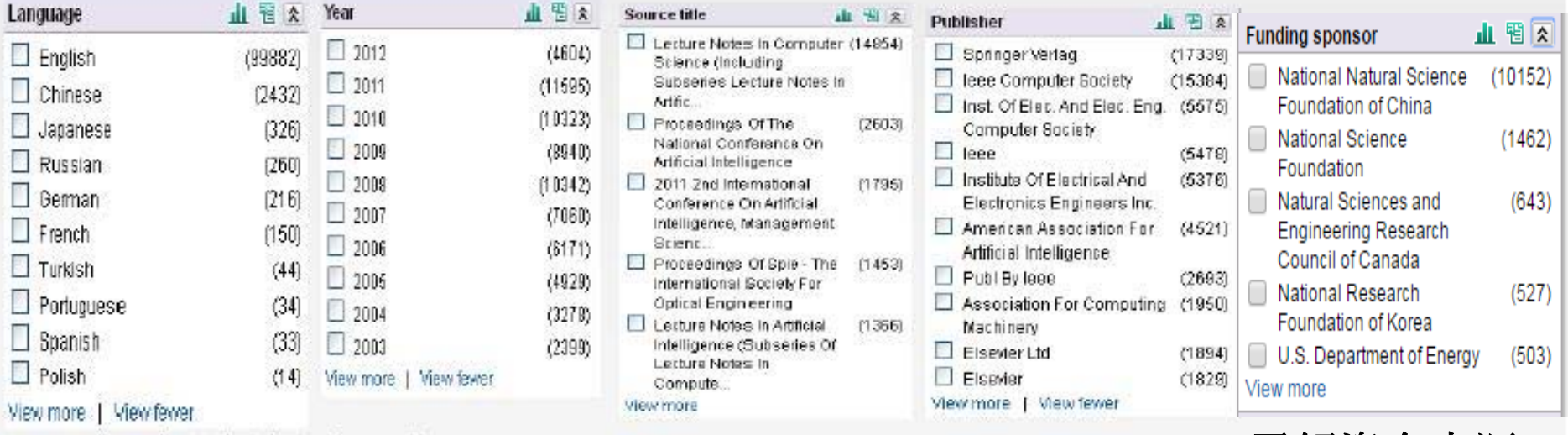
Refine Results 的作用

- 了解你的同行吗，他们又有哪些成就呢？
- 了解你关心的课题所涉及的领域，是否能发现新的研究方向
- 了解课题所处的生命周期，通过文献计量的年代分析
- 了解课题的热门期刊，作为投递文章的选择
- 通过文献类型了解论文的分布

了解主要研究机构 了解课题专业词汇 了解课题相关分类



了解课题核心人员



了解课题生命周期 了解课题核心期刊 了解资金来源

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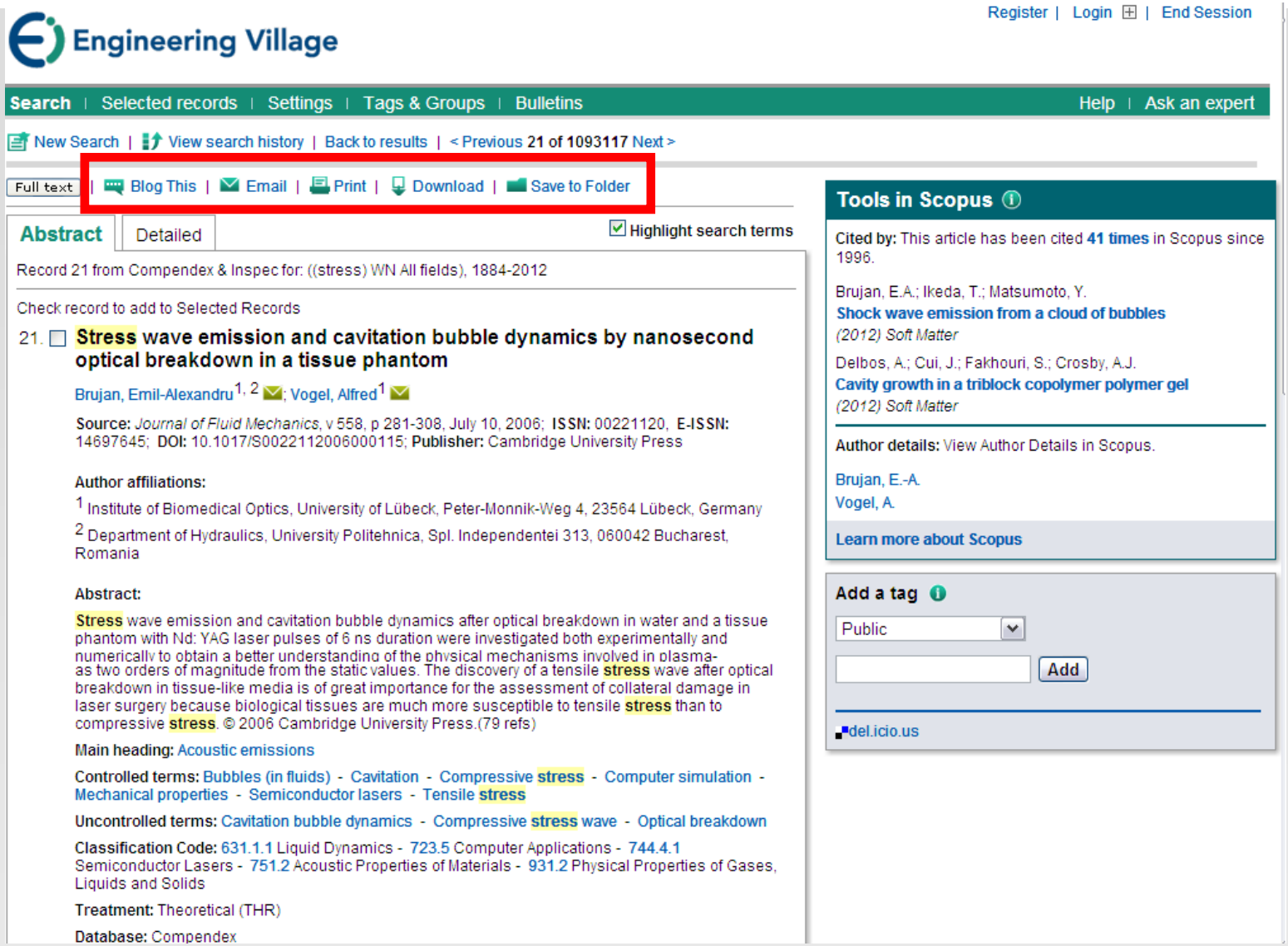

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Abstract | Detailed Highlight search terms

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

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

Brujan, Emil-Alexandru[1, 2]; Vogel, Alfred[1]

Source: *Journal of Fluid Mechanics*, v 558, p 281-308, July 10, 2006; **ISSN:** 00221120, **E-ISSN:** 14697645; **DOI:** 10.1017/S0022112006000115; **Publisher:** Cambridge University Press

Author affiliations:

[1] Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany

[2] Department of Hydraulics, University Politehnica, Spl. Independentei 313, 060042 Bucharest, Romania

Abstract:

Stress wave emission and cavitation bubble dynamics after optical breakdown in water and a tissue phantom with Nd: YAG laser pulses of 6 ns duration were investigated both experimentally and numerically to obtain a better understanding of the physical mechanisms involved in plasma- as two orders of magnitude from the static values. The discovery of a tensile stress wave after optical breakdown in tissue-like media is of great importance for the assessment of collateral damage in laser surgery because biological tissues are much more susceptible to tensile stress than to compressive stress. © 2006 Cambridge University Press.(79 refs)

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)

Database: Compendex

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Brujan, E.A.; Ikeda, T.; Matsumoto, Y.
Shock wave emission from a cloud of bubbles
(2012) Soft Matter

Delbos, A.; Cui, J.; Fakhouri, S.; Crosby, A.J.
Cavity growth in a triblock copolymer polymer gel
(2012) Soft Matter

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Brujan, E.-A.
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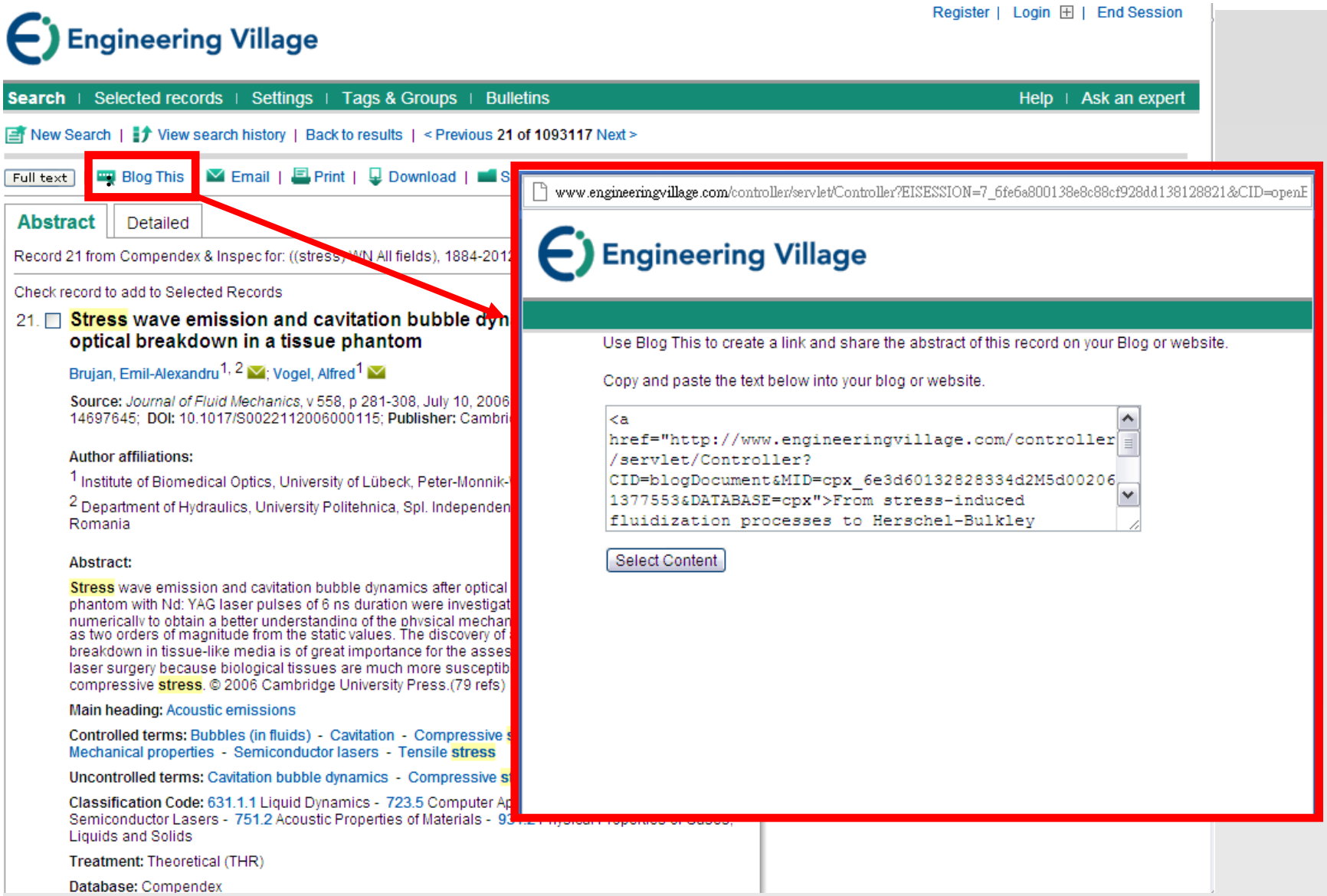
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21.
Stress wave emission and cavitation bubble dyn
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Brujan, Emil-Alexandru[1, 2]; Vogel, Alfred[1]
Source: Journal of Fluid Mechanics, v 558, p 281-308, July 10, 2006
14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambri
Author affiliations:
[1] Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-
[2] Department of Hydraulics, University Politehnica, Spl. Independen
Romania
Abstract:
Stress wave emission and cavitation bubble dynamics after optical
phantom with Nd: YAG laser pulses of 6 ns duration were investigat
numerically to obtain a better understanding of the physical mechan
as two orders of magnitude from the static values. The discovery of
breakdown in tissue-like media is of great importance for the asses
laser surgery because biological tissues are much more susceptib
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Uncontrolled terms: Cavitation bubble dynamics - Compressive
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Semiconductor Lasers - 751.2 Acoustic Properties of Materials -
Liquids and Solids
Treatment: Theoretical (THR)
Database: Compendex
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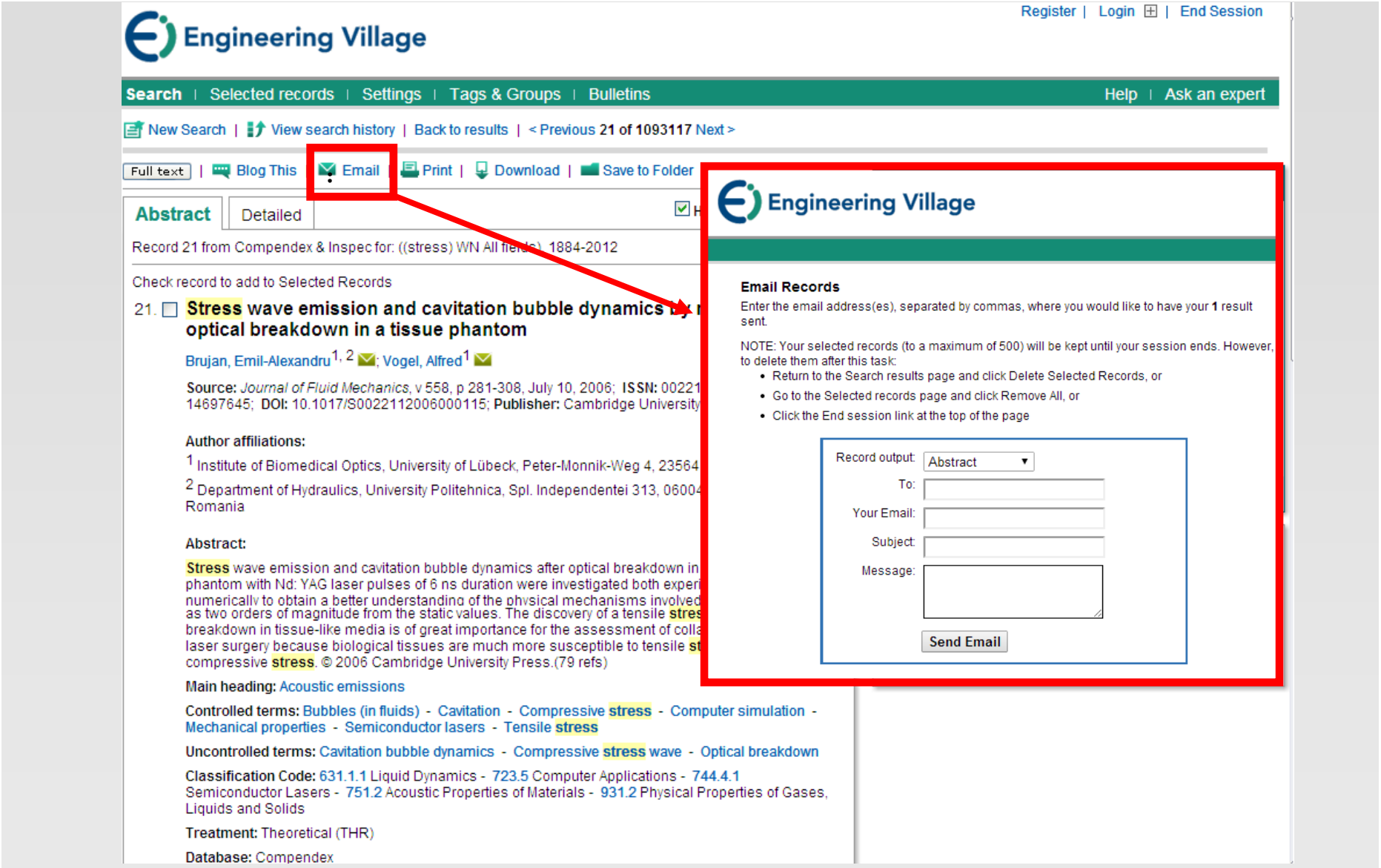

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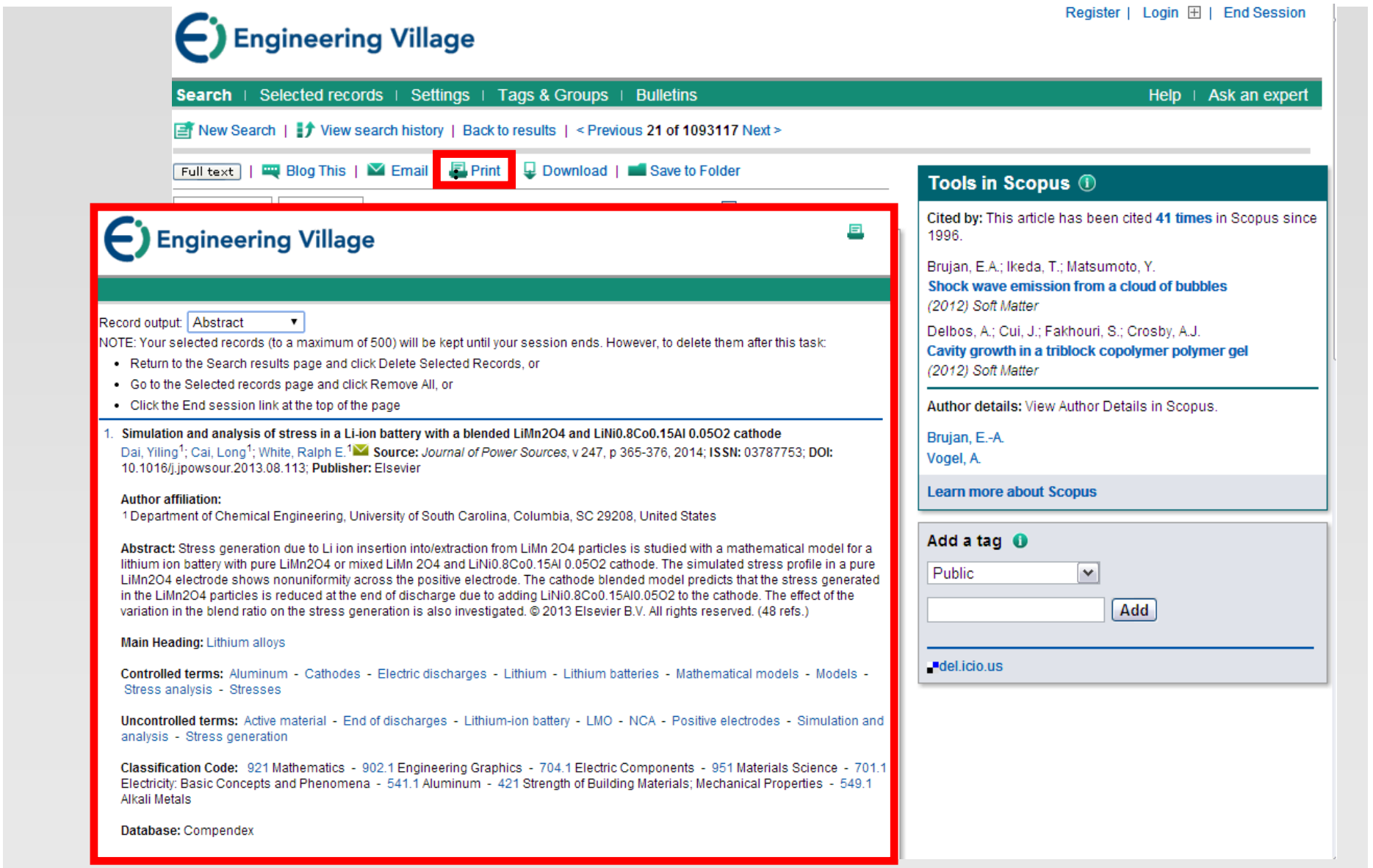
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1. Simulation and analysis of stress in a Li-ion battery with a blended LiMn2O4 and LiNi0.8Co0.15Al 0.05O2 cathode
Dai, Yiling[1]; Cai, Long[1]; White, Ralph E.[1] Source: Journal of Power Sources, v 247, p 365-376, 2014; ISSN: 03787753; DOI: 10.1016/j.jpowsour.2013.08.113; Publisher: Elsevier
Author affiliation:
[1] Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, United States
Abstract: Stress generation due to Li ion insertion into/extraction from LiMn 2O4 particles is studied with a mathematical model for a lithium ion battery with pure LiMn2O4 or mixed LiMn 2O4 and LiNi0.8Co0.15Al 0.05O2 cathode. The simulated stress profile in a pure LiMn2O4 electrode shows nonuniformity across the positive electrode. The cathode blended model predicts that the stress generated in the LiMn2O4 particles is reduced at the end of discharge due to adding LiNi0.8Co0.15Al0.05O2 to the cathode. The effect of the variation in the blend ratio on the stress generation is also investigated. © 2013 Elsevier B.V. All rights reserved. (48 refs.)
Main Heading: Lithium alloys
Controlled terms: Aluminum - Cathodes - Electric discharges - Lithium - Lithium batteries - Mathematical models - Models - Stress analysis - Stresses
Uncontrolled terms: Active material - End of discharges - Lithium-ion battery - LMO - NCA - Positive electrodes - Simulation and analysis - Stress generation
Classification Code: 921 Mathematics - 902.1 Engineering Graphics - 704.1 Electric Components - 951 Materials Science - 701.1 Electricity: Basic Concepts and Phenomena - 541.1 Aluminum - 421 Strength of Building Materials; Mechanical Properties - 549.1 Alkali Metals
Database: Compendex
Tools in Scopus
Cited by: This article has been cited 41 times in Scopus since 1996.
Brujan, E.A.; Ikeda, T.; Matsumoto, Y.
Shock wave emission from a cloud of bubbles
(2012) Soft Matter
Delbos, A.; Cui, J.; Fakhouri, S.; Crosby, A.J.
Cavity growth in a triblock copolymer polymer gel
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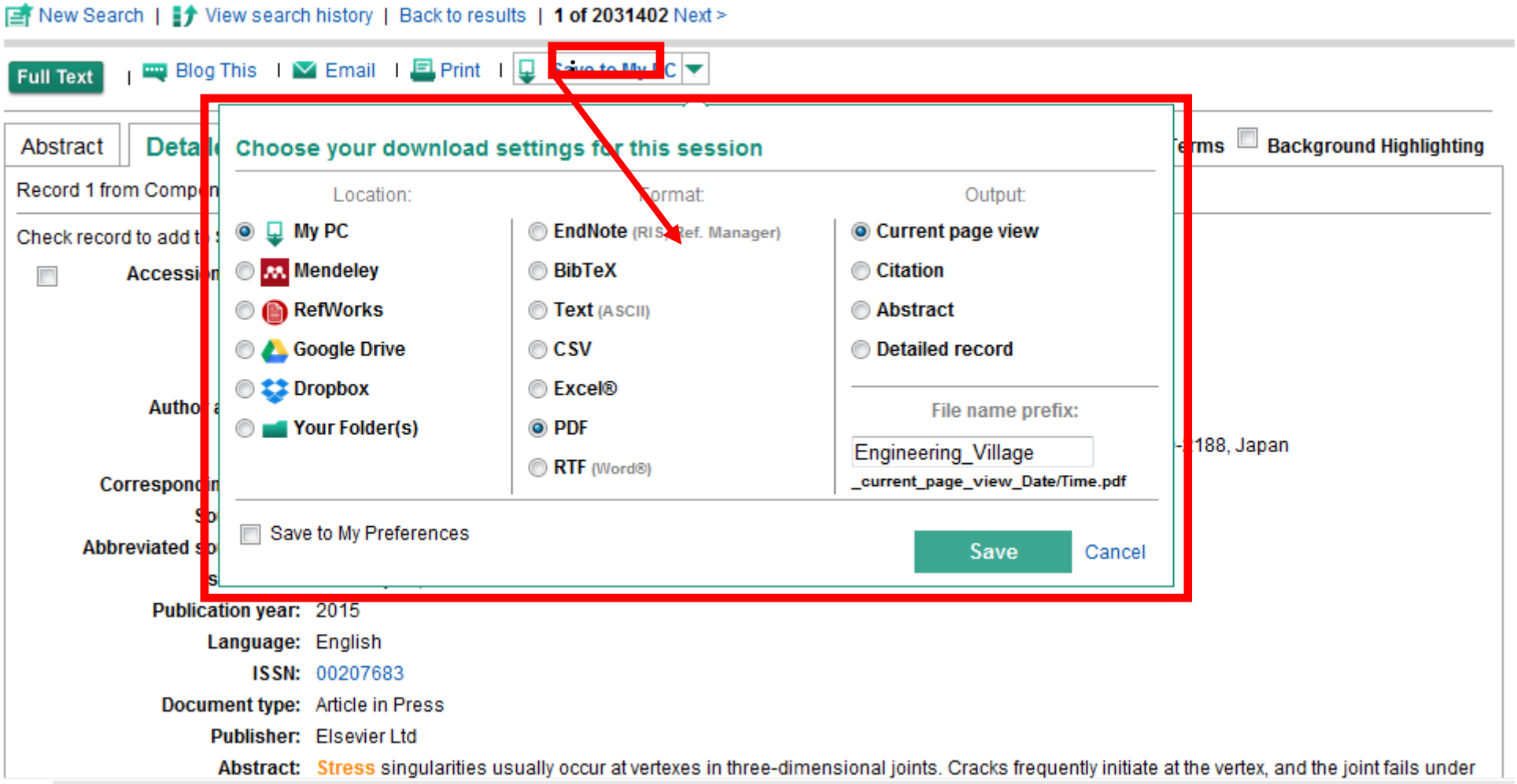

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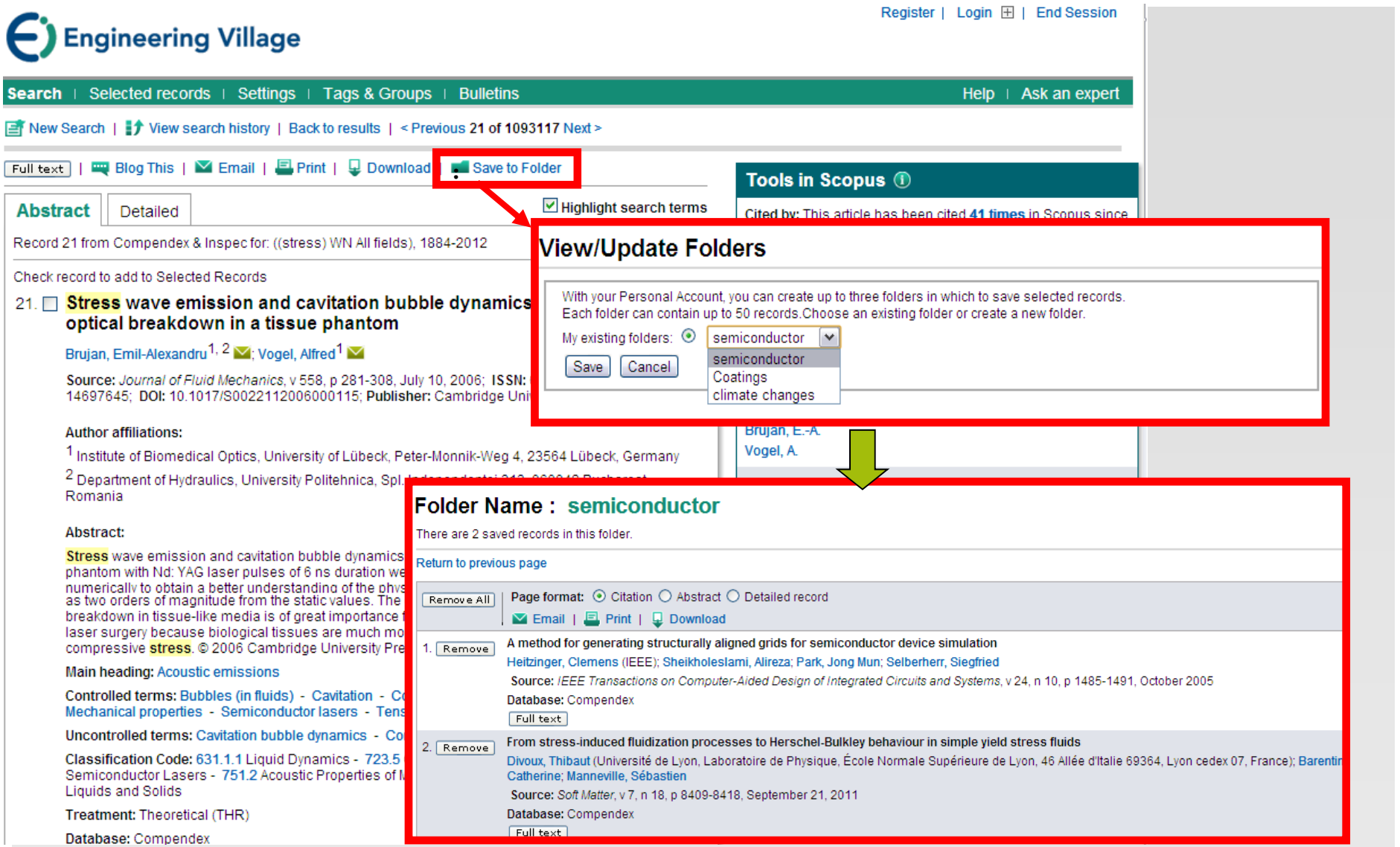

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- 使用者可对任何的数据指定其关键词（标签）
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  - 个人所属机构中的使用者
  - 只在个人所属的研究团队
  - 只限个人使用，不对其他人公开

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•Private = 只有 “我” 可看到此标签 (建议使用)
•My Institution= 只有来自同一所属机构的使用者可看到此标签
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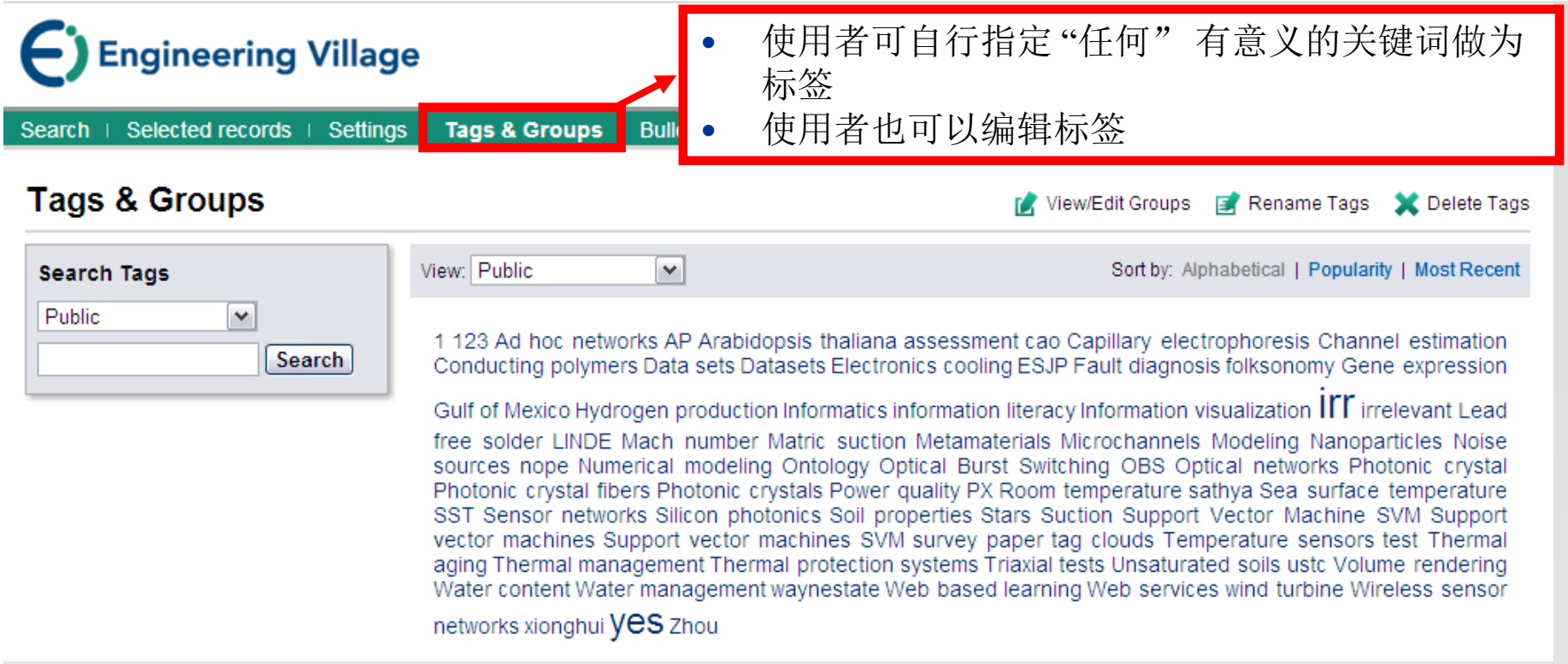
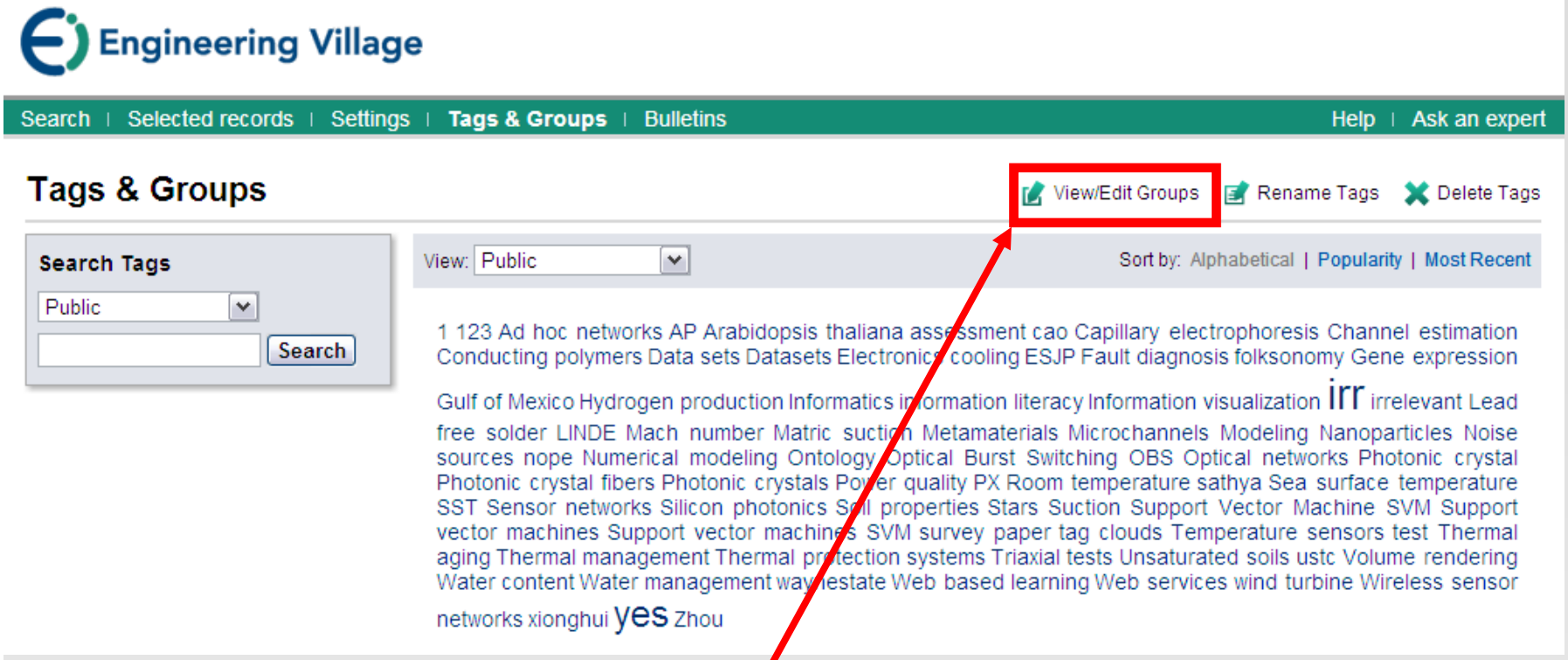


- 使用者可自行指定“任何” 有意义的关键词做为标签
- 使用者也可以编辑标签

- 使用者的标签可成为新的检索关键词
- 检视“标签云”大小：可依照
  其字母顺序、受欢迎程度或新颖程度排序

Tag 团队间的分享



- 可为研究团队、合作者、友人建立特定分组
- 所有标签数据将只为分组成员所用
- 分组成员可看到所属团队的所有标签
- 可选择透过电子邮件将新增的标签数据分享给分组成员

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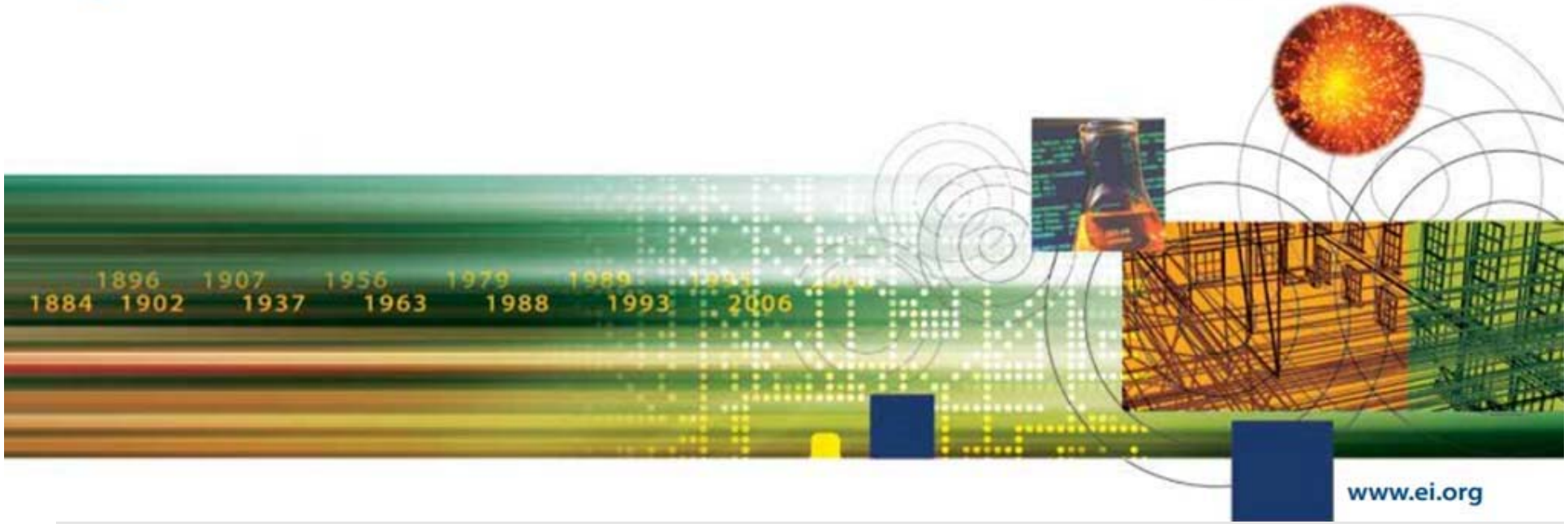
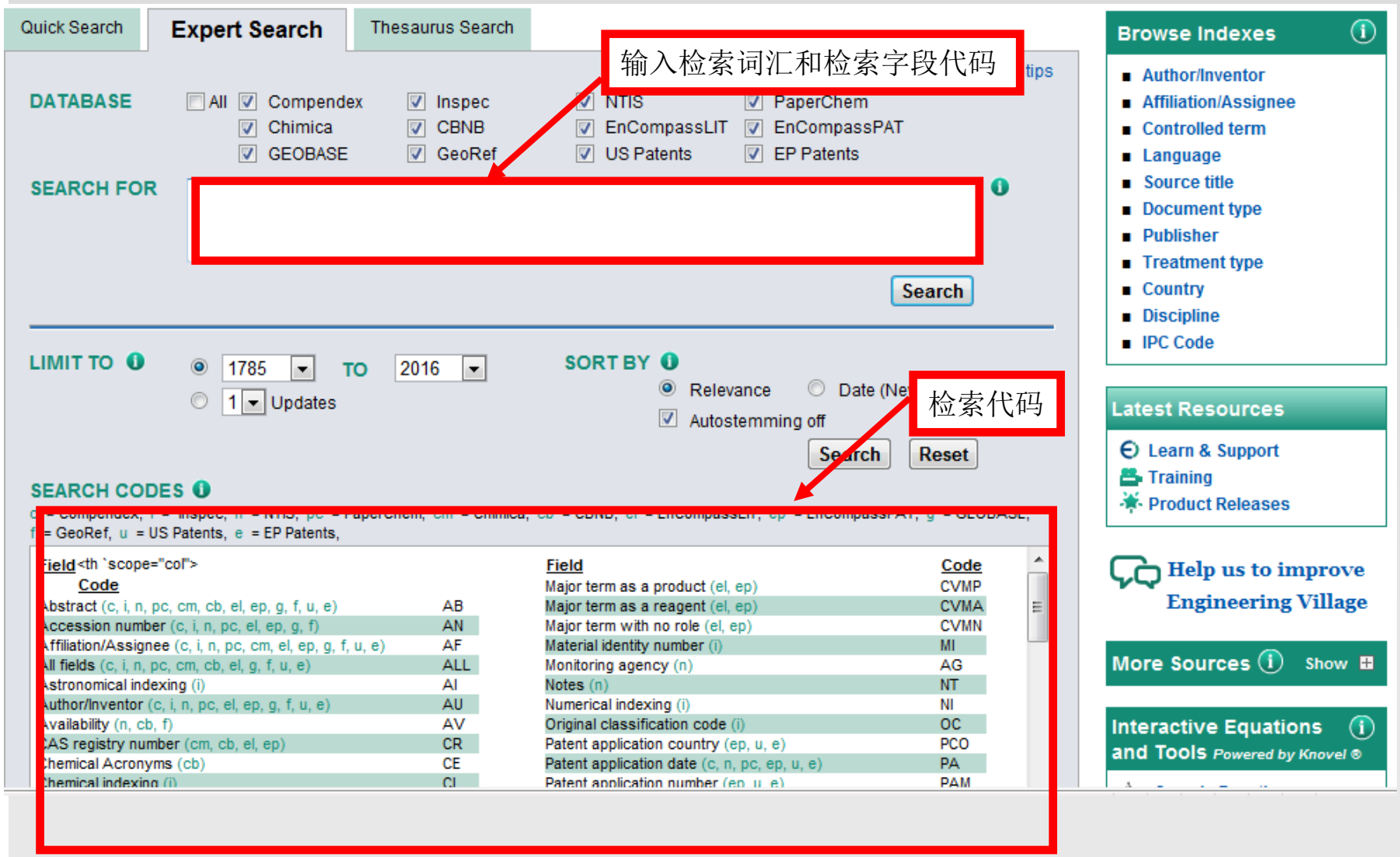


Expert Search – 专家检索

Expert Search – 专家检索



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。**

此页引自清华大学图书馆花芳《文摘库**Ei**在文献调研中的应用》

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

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i = Inspec	AN = Accession number (c, i, n, pc, el, ep, g, f)	CVMA = Major term as a reagent (el, ep)
n = NTIS	AF = Affiliation/Assignee (c, i, n, pc, cm, el, ep, g, f, u,	CVMN = Major term with no role (el, ep)
pc = PaperChem	ALL = All fields (c, i, n, pc, cm, cb, el, g, f, u, e)	MI = Material identity number (i)
cm = Chimica	AI = Astronomical indexing (i)	AG = Monitoring agency (n)
cb = CBNB	AU = Author/Inventor (c, i, n, pc, el, ep, g, f, u, e)	NT = Notes (n)
el = EnCompassLIT	AV = Availability (n, cb, f)	NI = Numerical indexing (i)
ep = EnCompassPAT	CR = CAS registry number (cm, cb, el, ep)	OC = Original classification code (i)
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f = GeoRef	CI = Chemical indexing (i)	PA = Patent application date (c, n, pc, ep, u, e)
u = US Patents	CM = Chemicals (cb)	PAM = Patent application number (ep, u, e)

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◆**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

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- 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）

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常用关键词检索存在的问题

- 关键词取自原文中具有关键概念的词或词组，它来自于标题、文摘、全文（全记录）或标引人员给出的标引词
  - 新概念，缩写和全名
  - 产品或公司名称
  - 地名
  - 化学制品（无机化合物分子式，有机化合物名称）
  - 数字数据
  - 非专业或技术性词或词组（俗称）

用关键词检索常会遇到的问题

- 词及词义的变化
  - 拼写
  - 首字母缩略词
  - 术语
  - 书写方式的不同

注：如果忽略上述变化，漏检率就会提高

拼写的不同

colour	color
defence	defense
Atomisation	atomization
aluminium	aluminum
fibre	fiber
catalogue	catalog
sulphur	sulfur
modeling	modelling
Haemodynamics	hemodynamics
disc	disk
programme	program
grey	gray

注：忽略拼写的变化就会导致漏检。

缩写会检索出来意义不同的结果

- 作者名称中的缩写包括的名称多
- 缩写代表多个含义
  - PC (microcomputers or printed circuits or programmable controllers)
  - HV (high vacuum or high voltage)
  - FEA (finite element analysis or field emitter arrays)

注：检出非相关文献,降低检准率

专业术语不同

- 美国与英国
  - aerial vs antenna（天线）
  - lift vs elevator（电梯)
  - assisted vs aided（辅助）
- 专业表述不同
  - PC, desk-top computer, microcomputer, laptop（桌上电脑、微型电脑、膝上电脑）

书写方式的变化

infrared　infra red　infra-red　IR

注：造成误检或漏检

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

此页引自清华大学图书馆花芳《文摘库**Ei**在文献调研中的应用》

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。

EnCompass 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

叙词表层次

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

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[1]; Hongen, Zhang[1]; Xiaohua, Tong[2]; Ling, Chen[3]; Jianfu, Zhao[3]

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; **Sponsor:** 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:

[1] Key Laboratory of Yangtze Aquatic Environment, Tongji University, Ministry of Education, Shanghai, China

[2] Department of Survey and Geo-Informatics, Tongji University, Shanghai, China

[3] 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

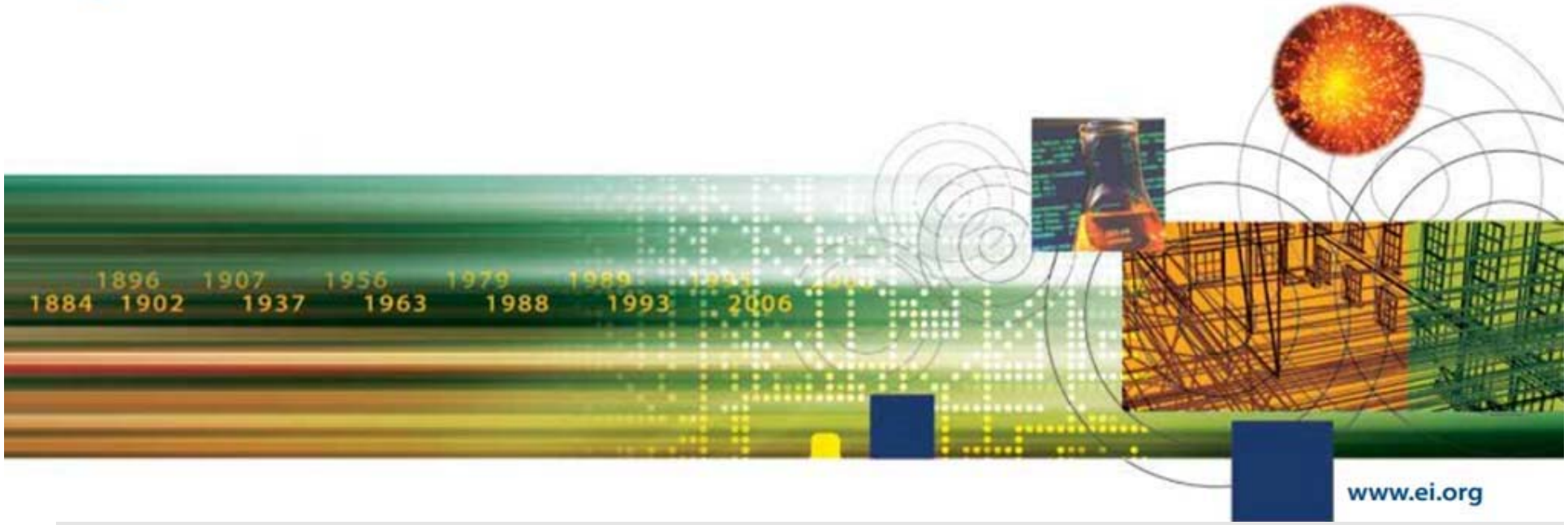
Check Local Full-text

Full Text

此页引自清华大学图书馆花芳《文摘库**Ei**在文献调研中的应用》

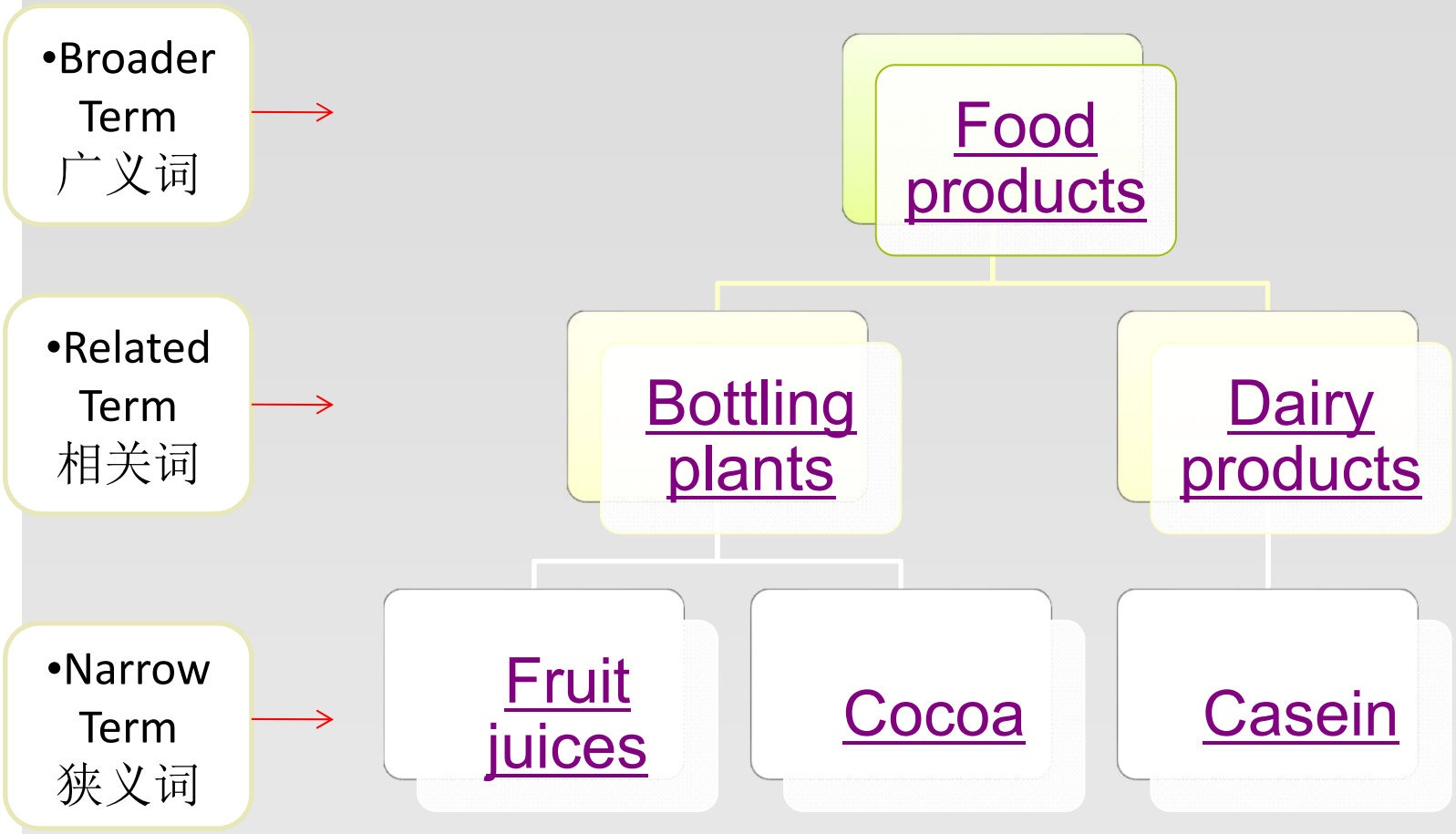
Engineering Village

Thesaurus Search - 词库检索



Thesaurus Search – 词库检索

THESAURUS词库-Beverages（饮料）

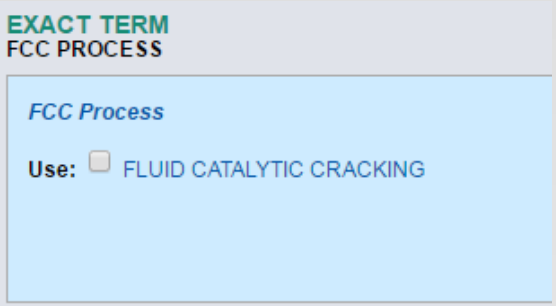


相互参照

- FCC PROCESS流化催化裂化过程

  use: FLUID CATALYTIC CRACKING流化催化裂化

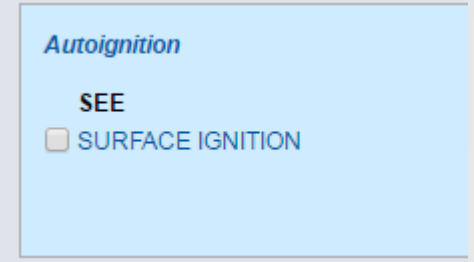
use:…表示直接参照



- AUTOIGNITION自燃

  SEE: SURFACE IGNITION表面着火

See:…列出可参考的有效条目

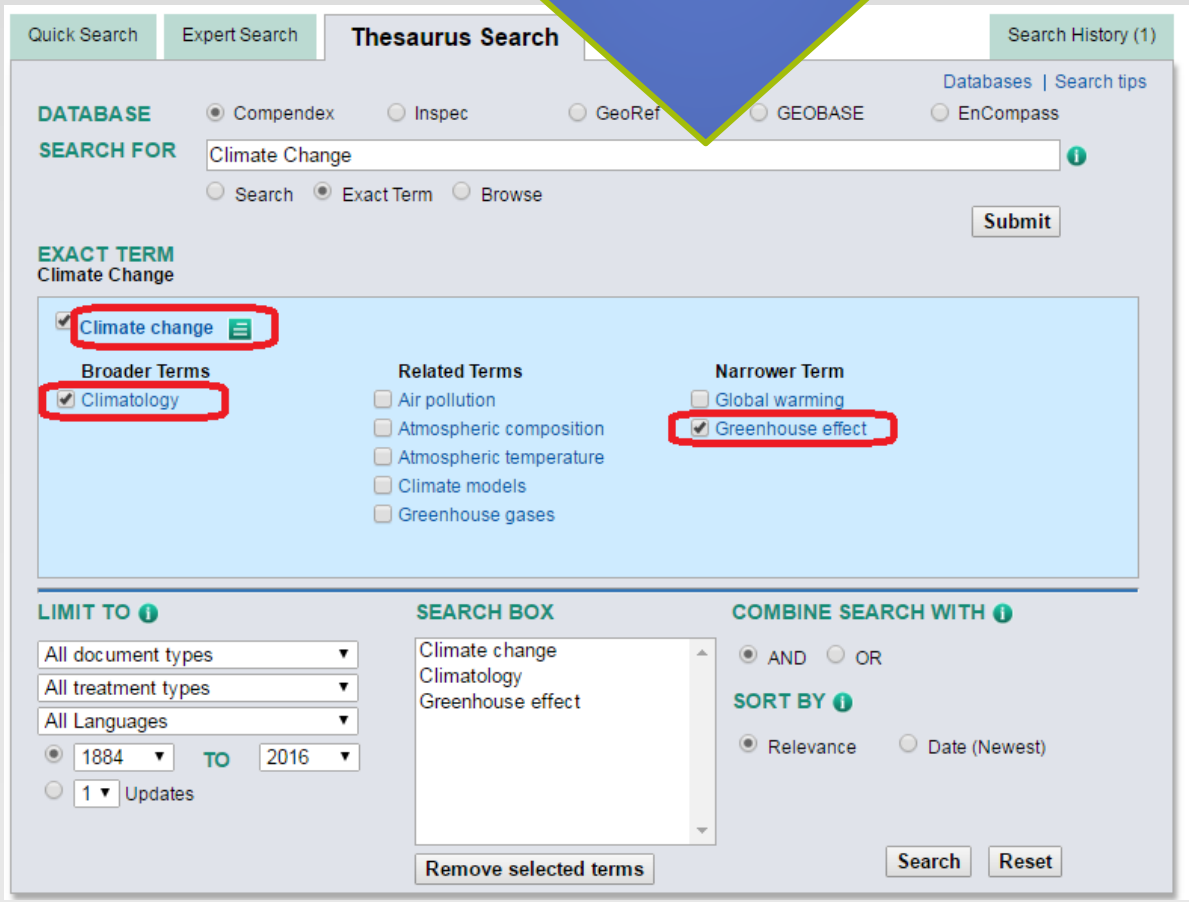


实例－用叙词表选词进行主题检索

- 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)))

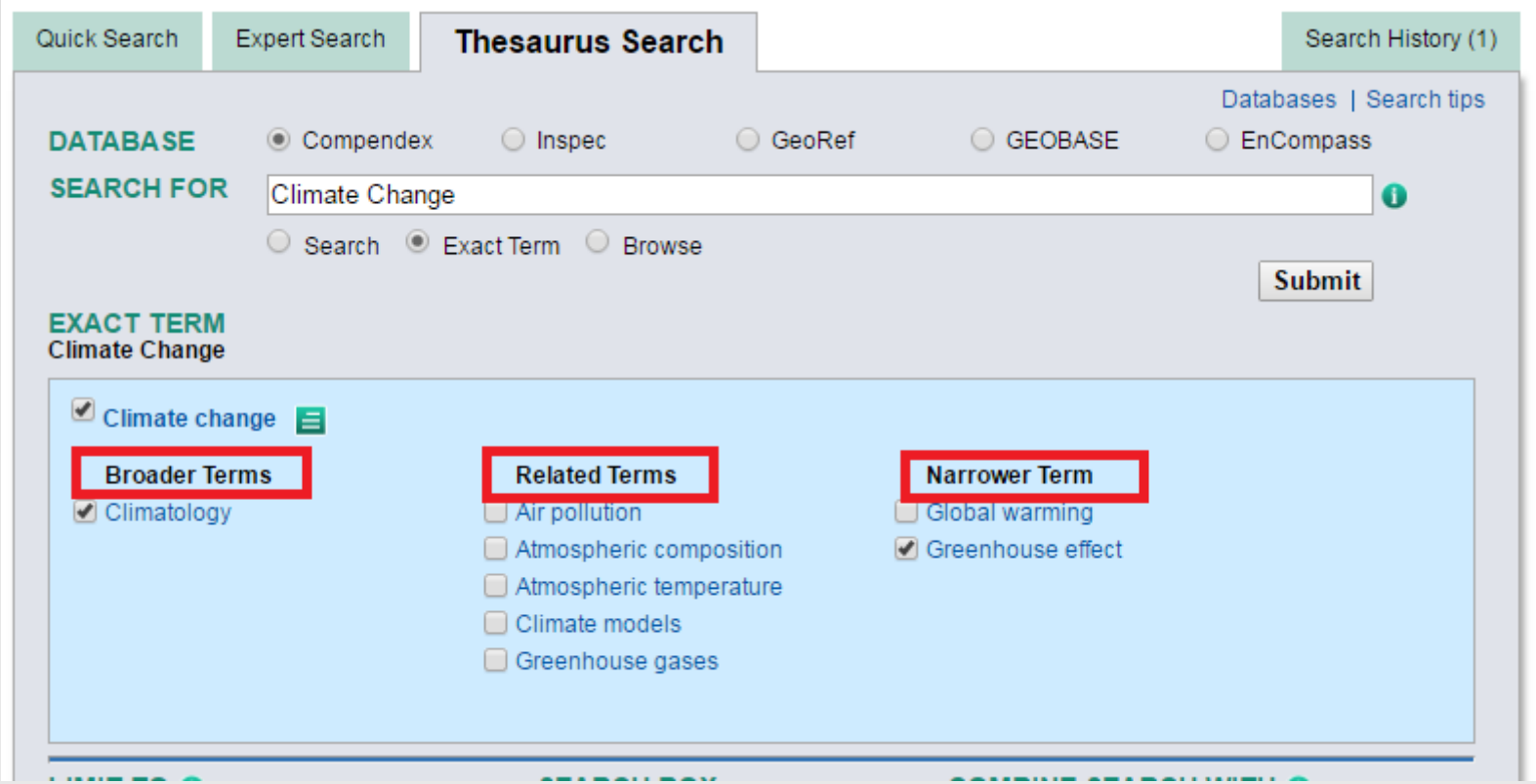
用EI叙词表选词

点击“Thesaurus”，打开叙词表，输入关键词，点击“submit”，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

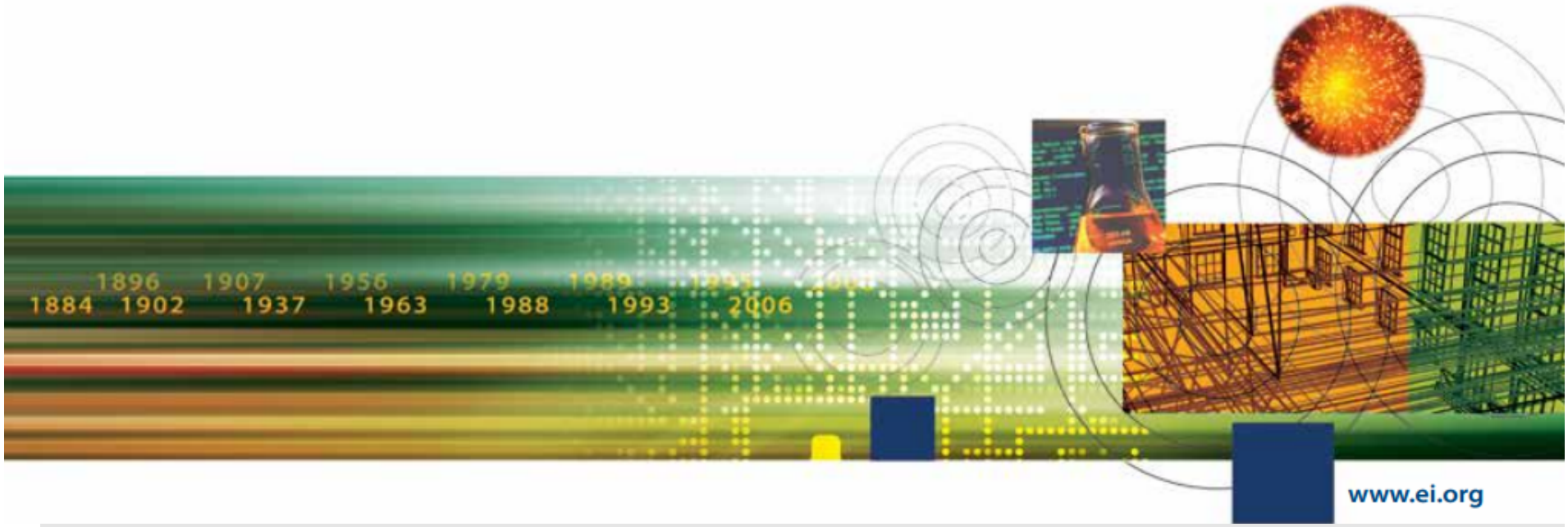


EI叙词表(Thesaurus)

- **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



Engineering Village

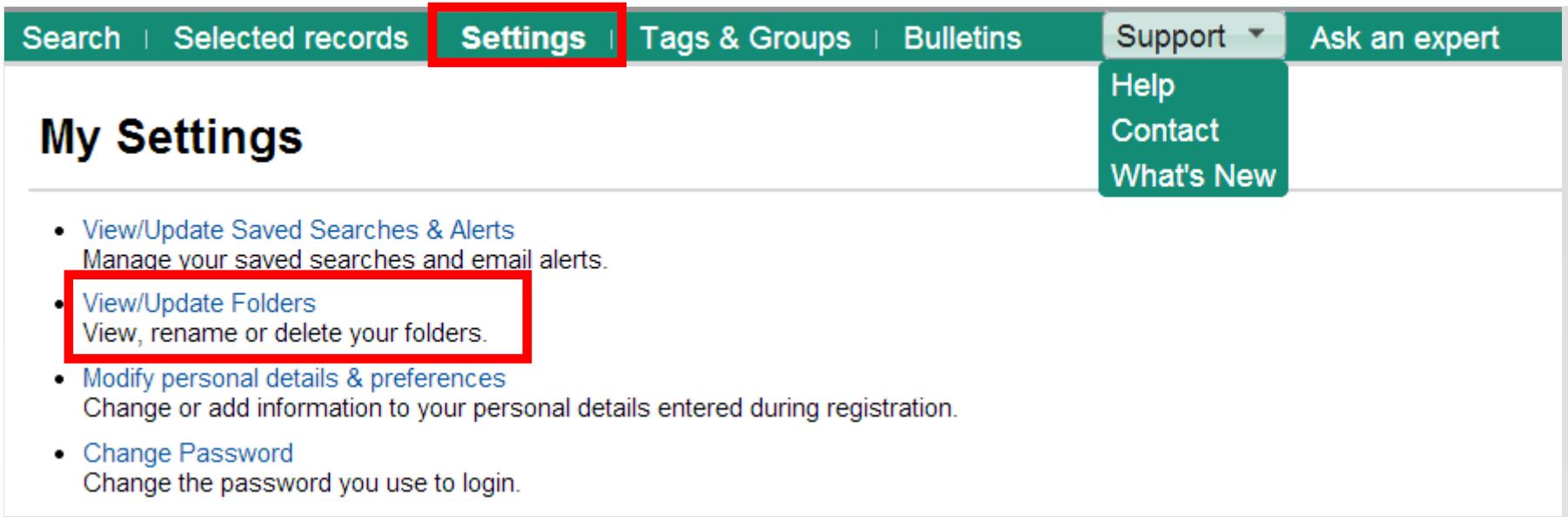


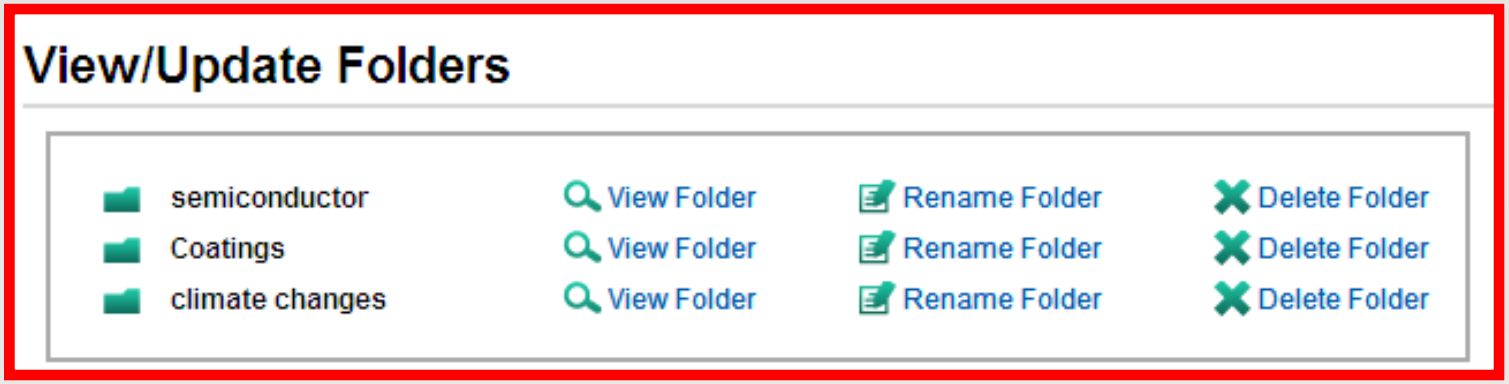
个人化功能

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

My Setting List





My Saved Search & Alerts

Search | Selected records | **Settings** | Tags & Groups | Bulletins | Support | Ask an expert

Help
Contact
What's New

View/Update Saved Searches & Alerts

My Saved Searches

No.	Type	Search	Auto-stem	Sort	Results	Year(s)	Database	Date Saved	Add Email Alert
1. Delete	Thesaurus	(({Electromagnetic waves} AND {Solar radiation}) WN CV)		Relevance	510	1969-2012	Compendex	03/05/2012	☐
2. Delete	Expert	((((semiconductor) WN ALL)) AND ({ieee} WN AF))	On	Relevance	2,396	1969-2012	Compendex	03/27/2012	☐
3. Delete	Thesaurus	(({Electromagnetic waves} AND {Solar radiation}) WN CV)		Relevance	510	1969-2012	Compendex	04/25/2012	☐
4. Delete	Thesaurus	((({Solar radiation} WN CV) AND ({Electromagnetic waves} WN CV)))		Relevance	512	1969-2014	Compendex	12/04/2013	☐

Delete All

Save Email Alerts

建立Email 新知通报
(先勾选再储存)

EV特色

检索利器

1.Refine Results ： 提供多种字段支持精确检索，并可做成图表

如：控制词汇、索书号、文件形式、刊名等(共10种)

2.专家思维：控制词汇 – Thesaurus 词库

3.使用者思维：自然语汇 – Tag 标签

4.专业的专家检索模式：可自行输入检索语法

在线询问

可在线询问EV的三种专家 1.EV专业工程师
2.EV产品专员
3.图书馆员

Search | Selected records | Settings | Tags & Groups | Bulletins | Help | Ask an expert

Ask an Engineer

Our Senior Engineers can help you:

- Answer technical engineering questions
- Identify appropriate related resources

Ask a Product Specialist

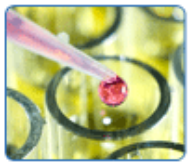
Our Product Specialist can help you:

- Learn to use EV features effectively
- Analyze results
- Register for online seminars or trainings

Ask a Librarian

A librarian can help you:

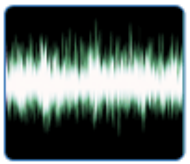
- Formulate searches
- Locate a content source (book, journal, conference paper, etc.)
- Find additional resources


Chemical

Industrial

Mechanical

Electrical


Signal Processing

Manufacturing

Materials

Engineering Management

Computer

相关网站资源

- 中文使用指南，培训课件和Webex视频培训：爱思唯尔：*http://china.elsevier.com/elsevierdnn/ch/%E8%AE%B2%E5%BA%A7%E4%B8%8E%E6%B4%BB%E5%8A%A8/%E4%BA%A7%E5%93%81%E8%A7%A3%E5%86%B3%E6%96%B9%E6%A1%88%E5%9C%A8%E7%BA%BF%E5%9F%B9%E8%AE%AD/tabid/2698/Default.aspx*
- 英文产品相关信息：*www.elsevier.com/engineering-village*
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- Ei最新刊源信息公布链接为http://www.elsevier.com/online-tools/engineering-village/contentdatabase-overview
-

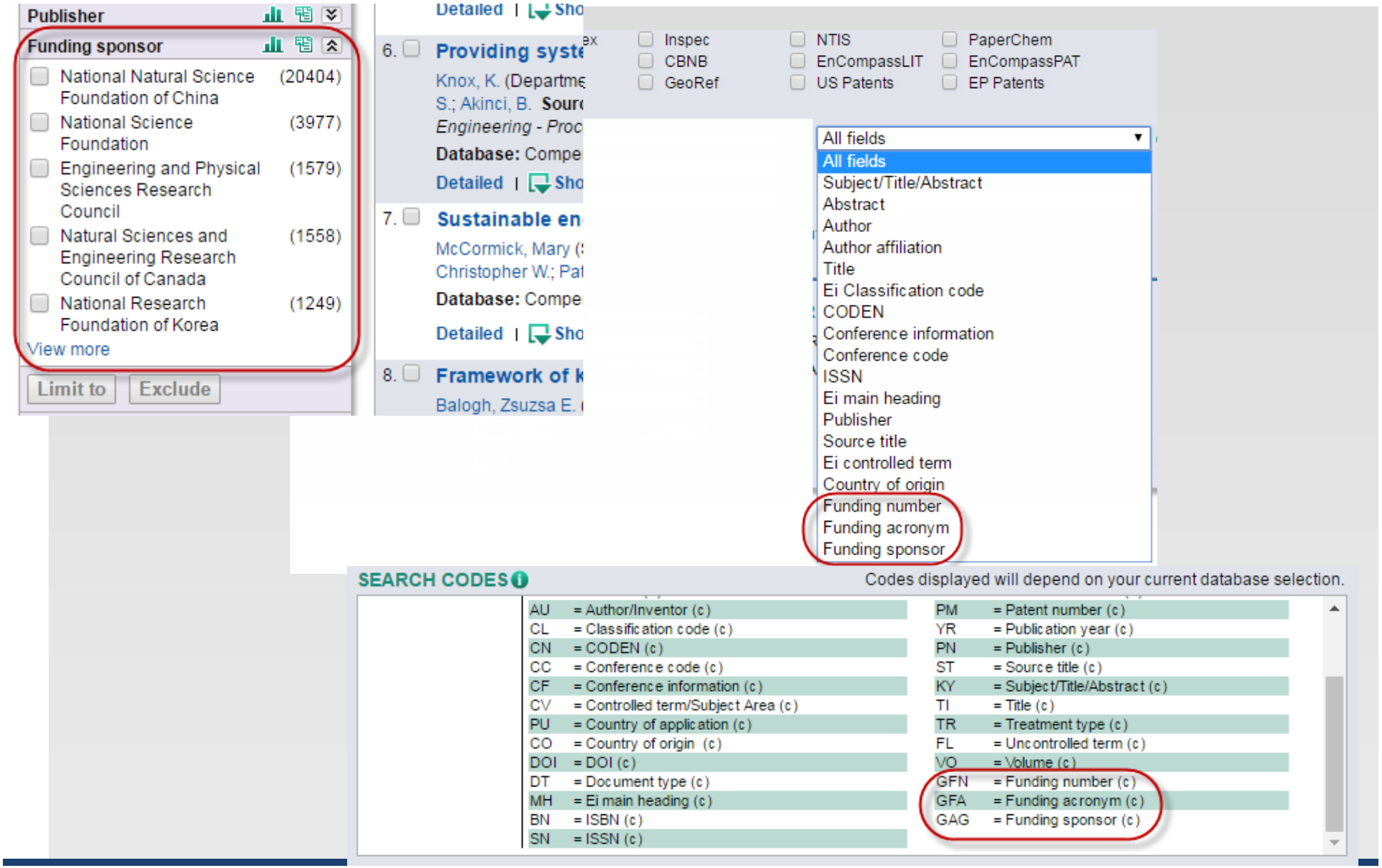
常见问题

- 1 现在Ei收录内容还有核心非核心的区别么？
- 没有。Ei Compendex数据库从2009年1月起所收录的中国期刊数据不再区分核心和非核心数据。
- 2. 期刊论文从刊出到收录大约需要多长时间？
- 这取决于Ei编辑何时收到期刊寄出的纸本论文；编辑收到纸本论文到Ei收录的时间大约为6～8周。

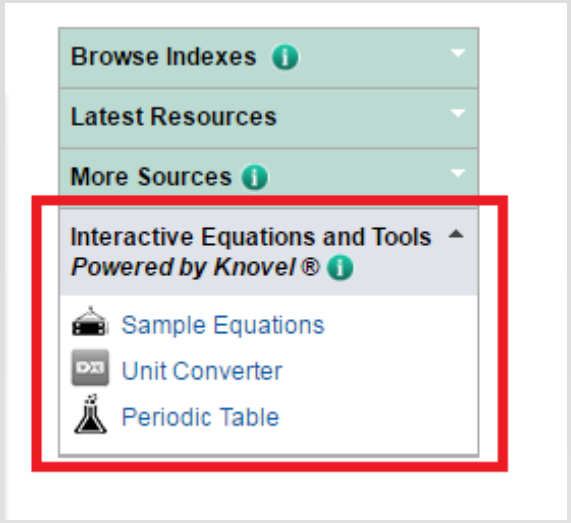
2016年更新

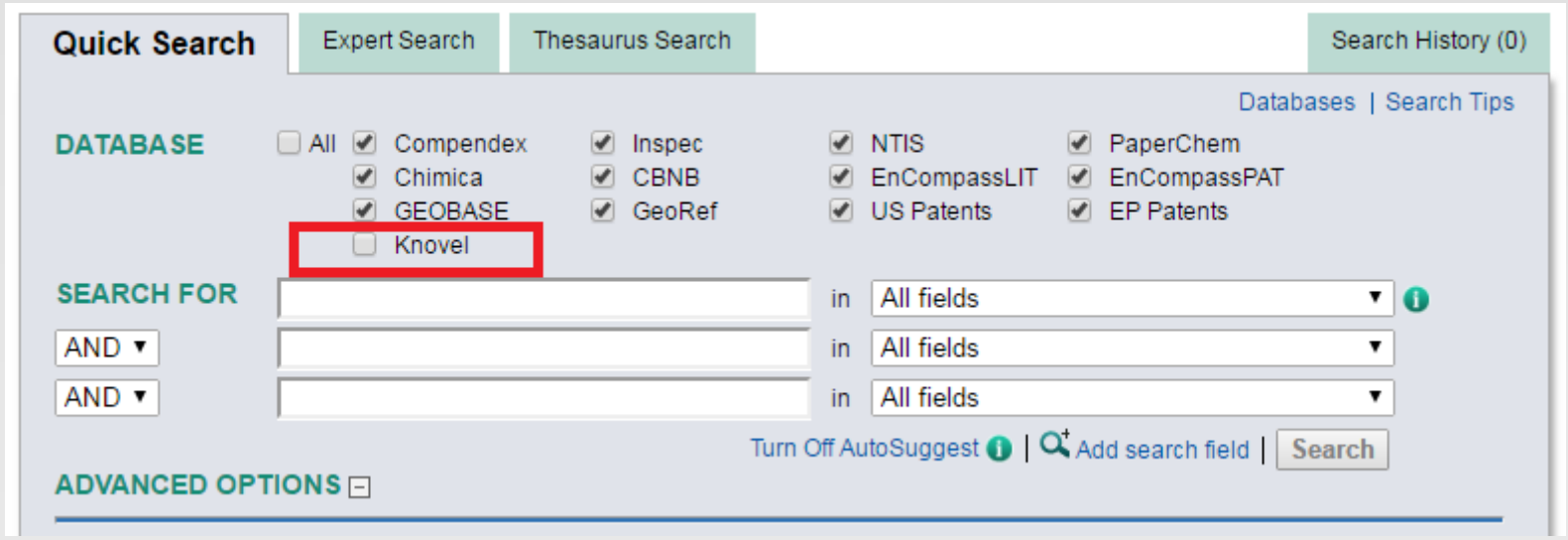
- 拨款资助 (Grant Funding)：提供拨款资助的信息。
- Knovel 检索（Knovel Content）：加入Knovel数据库的辅助工具和参考工具书的引文信息
- 快速开始向导（Getting Started tutorials）
- 数据检索（Numeric search Filte）：从文摘中提取数值信息并提供数值检索新功能。

拨款资助：精炼检索，快速检索和专家检索中的体现

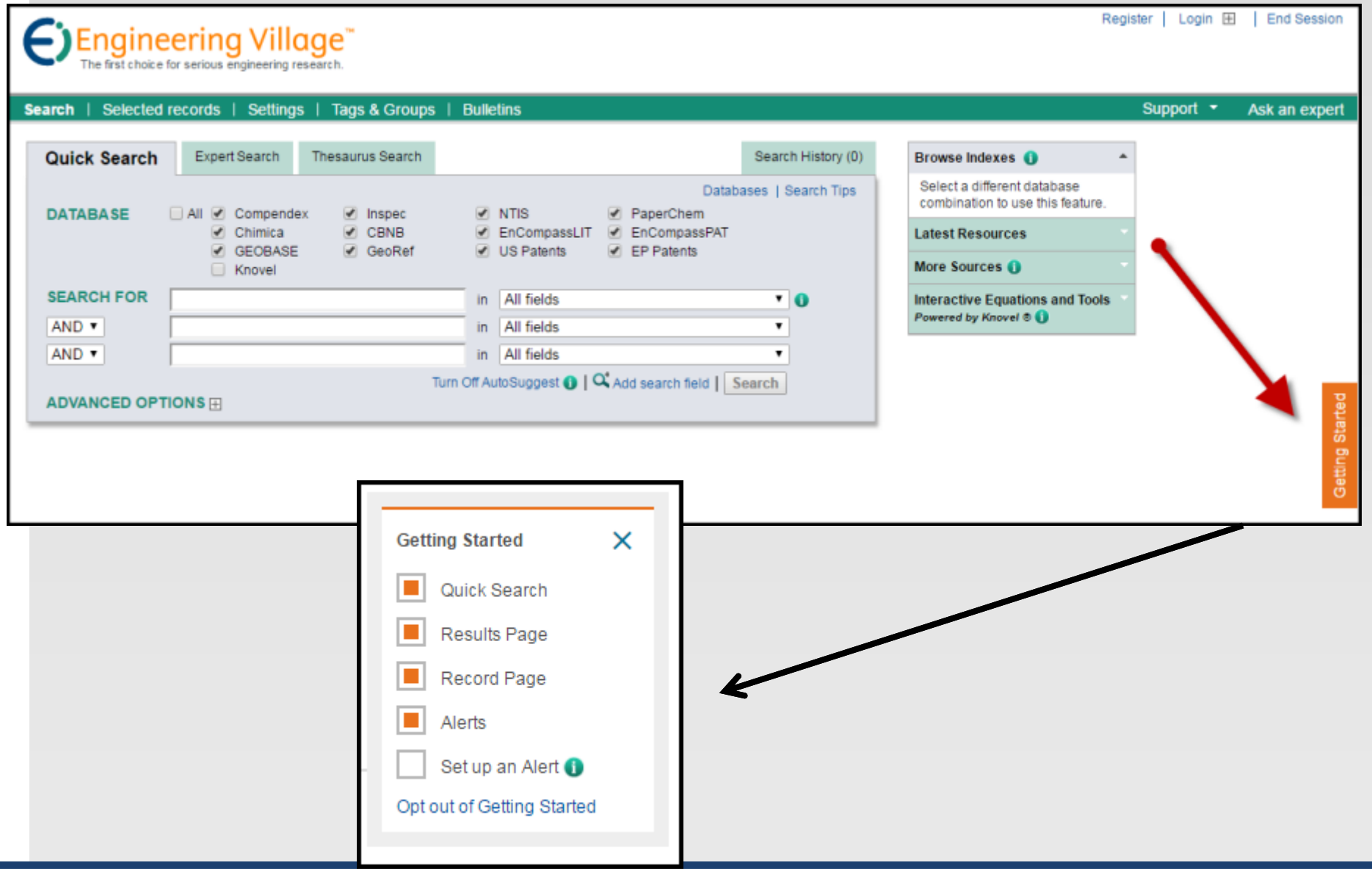


Knovel 检索：工具快速链接和Knovel摘要检索





快速开始向导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Compendex
Inspec
NTIS
PaperChem
Chimica
CBNB
EnCompassLIT
EnCompassPAT
GEOBASE
GeoRef
US Patents
EP Patents
Knovel
SEARCH FOR
in
All fields
AND
Turn Off AutoSuggest
Add search field
Search
ADVANCED OPTIONS
Browse Indexes
Select a different database combination to use this feature.
Latest Resources
More Sources
Interactive Equations and Tools
Powered by Knovel
Getting Started
Getting Started
Quick Search
Results Page
Record Page
Alerts
Set up an Alert
Opt out of Getting Started

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

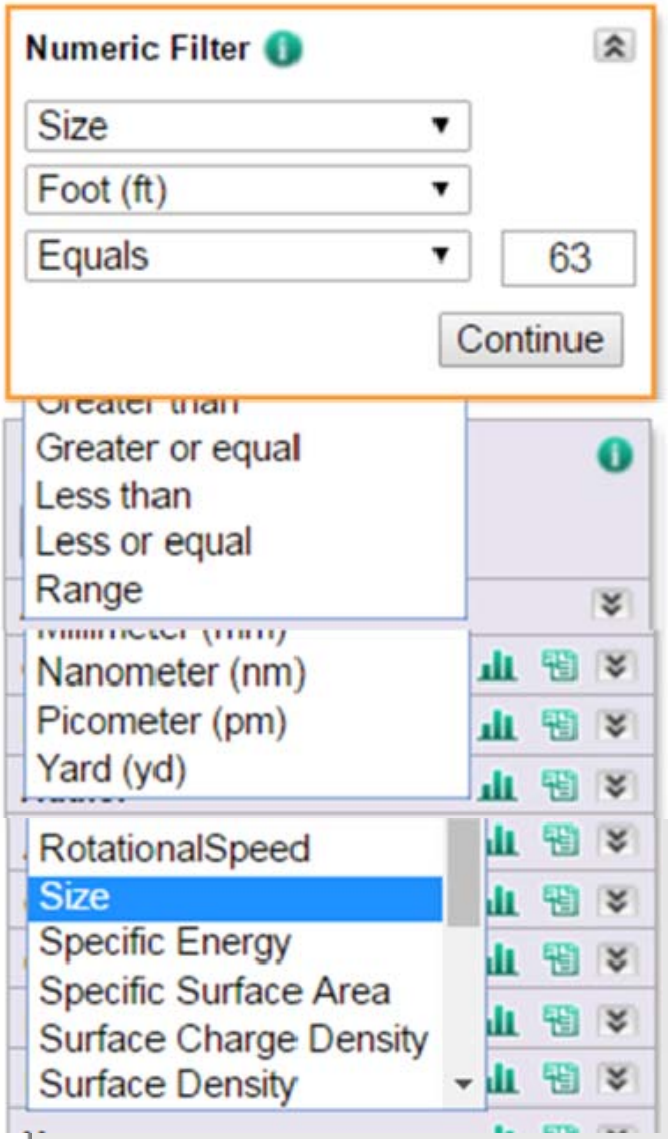
Publisher: Offshore Technol Conf, United States

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



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Engineering Village

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