Engineering Village-Compendex
数据库介绍及使用培训

中国石油大学（北京）
CHINA UNIVERSITY OF PETROLEUM

2022.4.13

ELSEVIER

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内容目录：

EI数据库简介

Ei Compendex
是世界上涵盖面最广最完整的工程文献数据库

~31.5M条 文献记录

并正在持续增长

>1.78M条记录
来自Ei Backfile

1884年至1969年

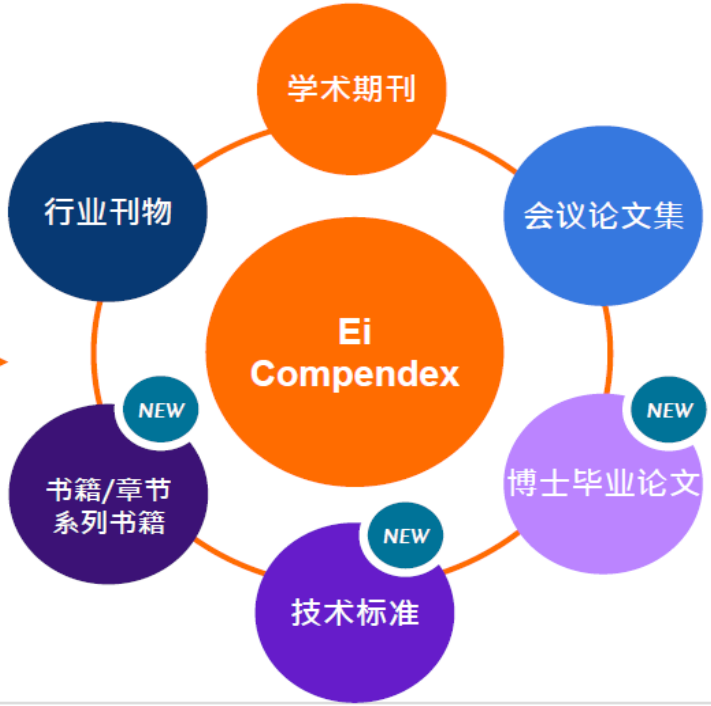
每年增加
1.3M条记录

1970年至今

通过DOIs实现全文链接

涵盖190个工程相关领域

来自78个国家的2,291个出版社



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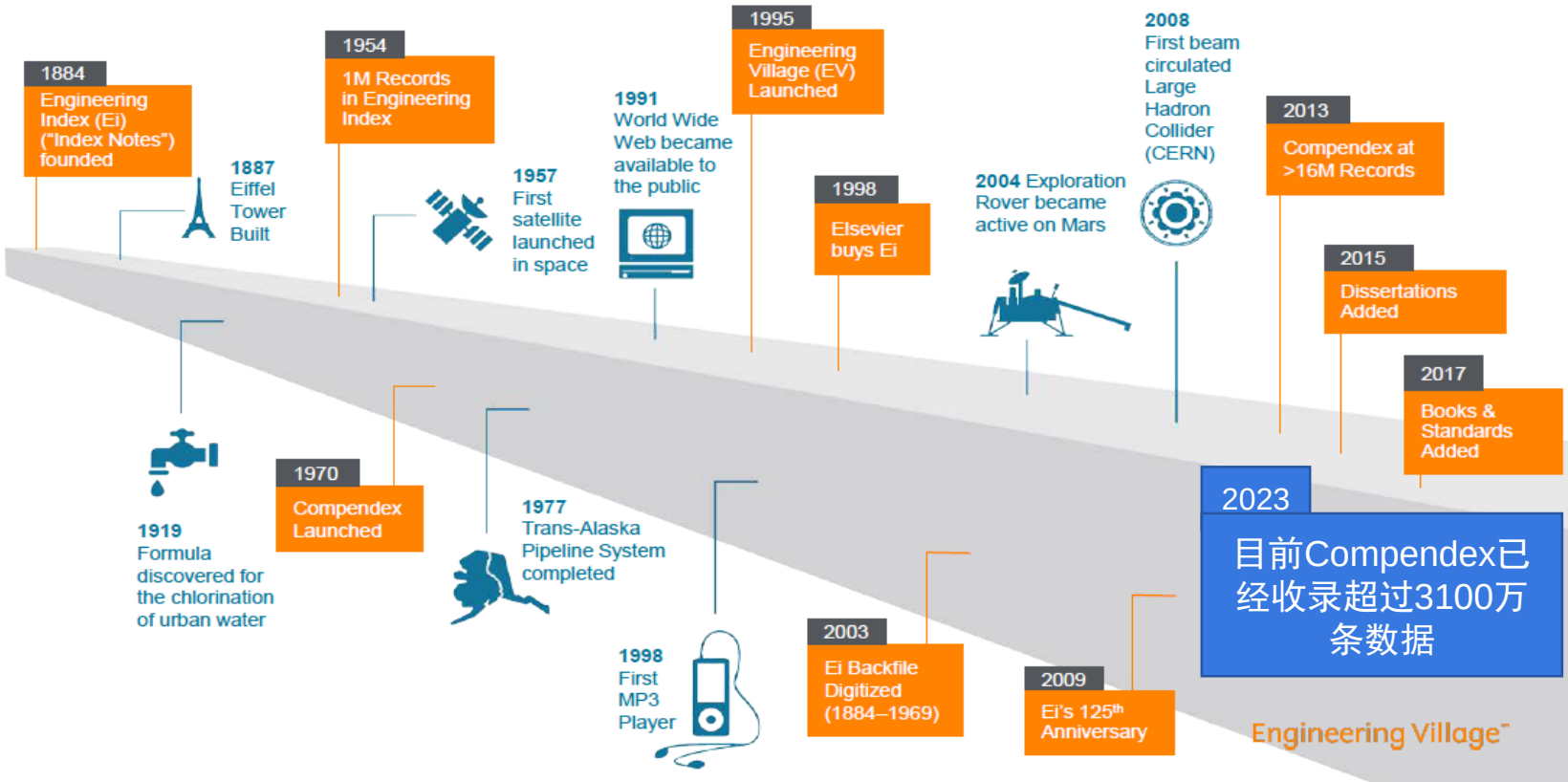
Ei & Engineering Village 的里程碑

Ei 和 Engineering Village 是已确立声誉的品牌

收录工程文献已有134年



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- 拥有13个专注专业文摘索引（ A&I ）数据库的平台

Ei 特指

Ei Compendex
Ei Backfile
Inspec
Inspec Archive

GEOBASE
GeoRef

Chimica
CBNB

EnCompassLIT
EnCompassPAT

PaperChem

NTIS

USPTO
EPO
WIPO

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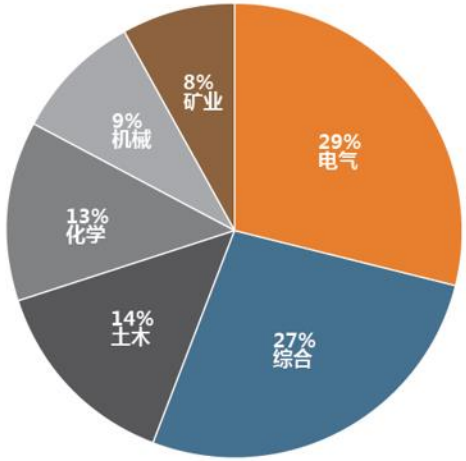
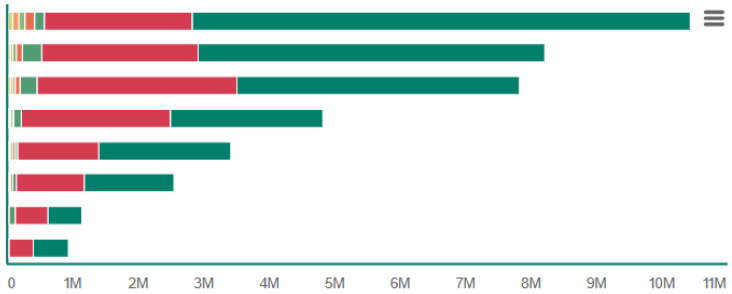
Ei Compendex 工程学科领域

Ei Compendex相关领域

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



Chemical Engineering & Materials Science	10,609,335
Physics	8,357,599
Computer & Control Engineering	7,897,702
Electrical & Electronic Engineering	4,906,811
Civil Engineering	3,490,884
Mechanical Engineering	2,579,713
Aerospace	1,172,806
Petroleum Engineering	963,006



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EI数据库的使用

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检索方式

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

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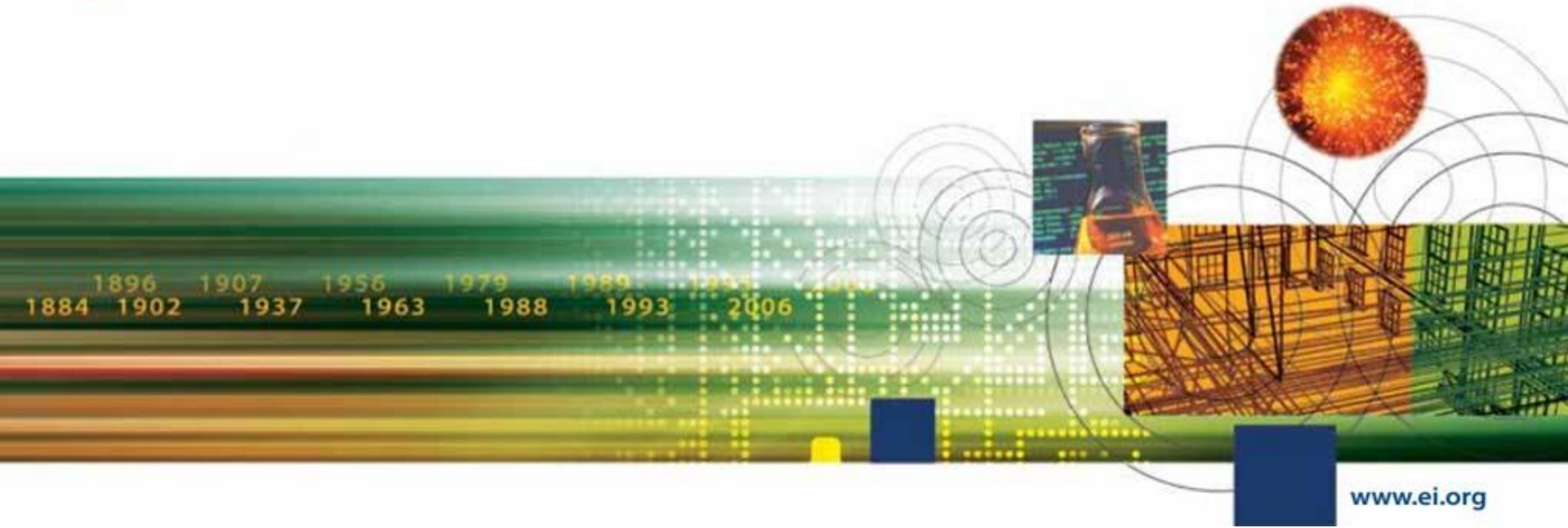
Quick Search - 快速检索



Quick Search – 快速检索

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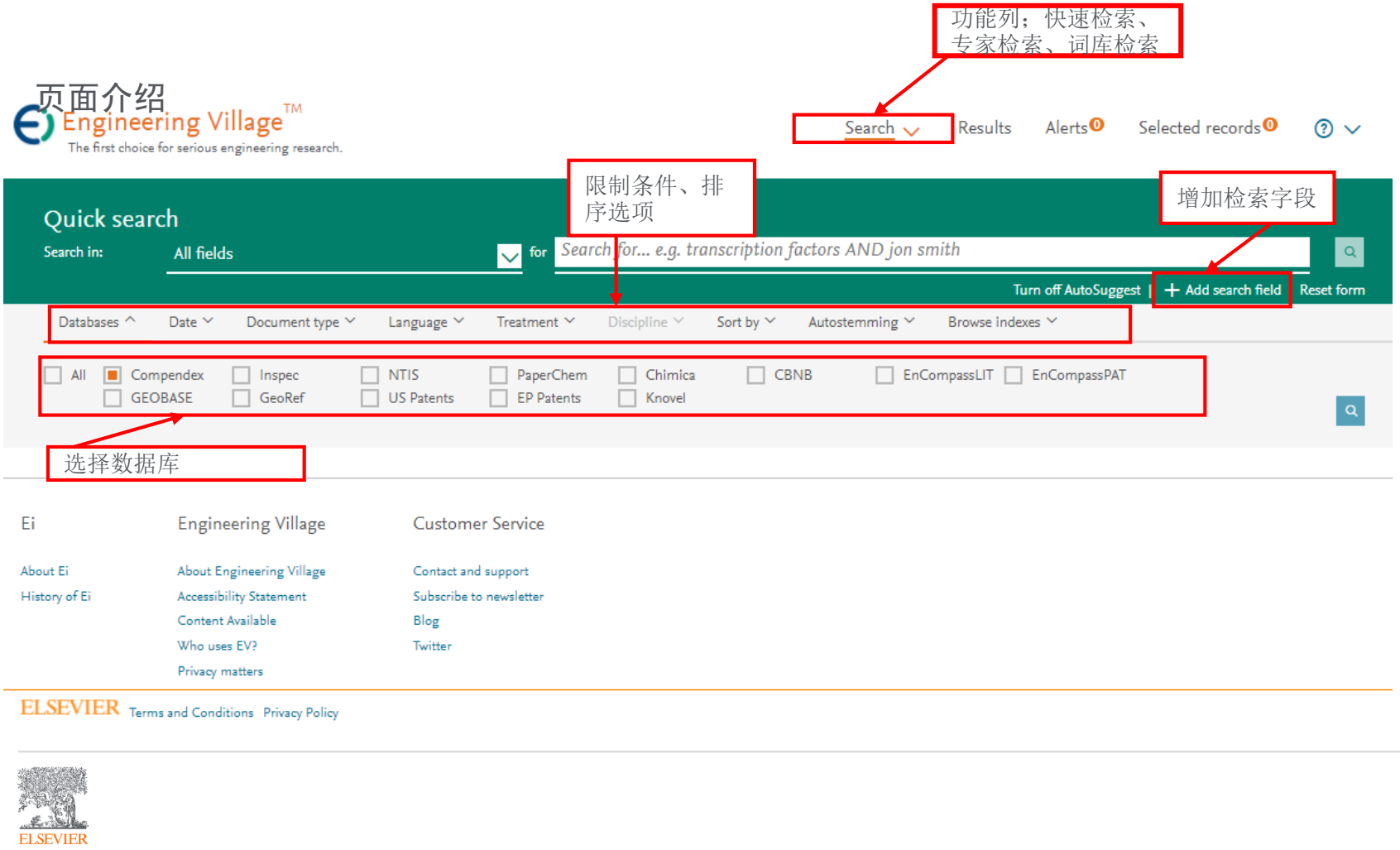
页面介绍


功能列；快速检索、专家检索、词库检索
Engineering Village™
The first choice for serious engineering research.
Search
Results
Alerts
Selected records
限制条件、排序选项
增加检索字段
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
Compendex
Inspec
NTIS
PaperChem
Chimica
CBNB
EnCompassLIT
EnCompassPAT
GEOBASE
GeoRef
US Patents
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Knovel
选择数据库
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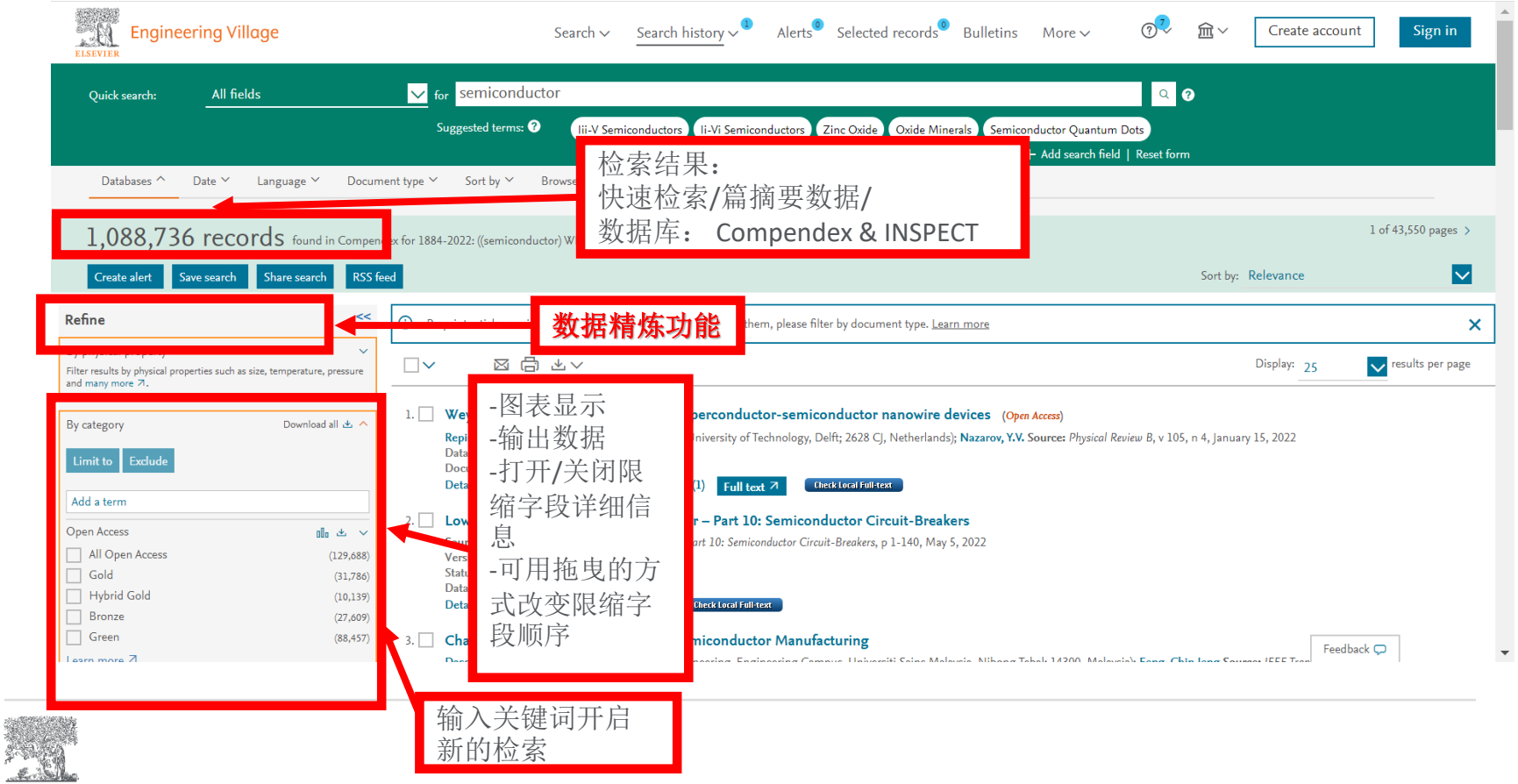
以关键词“semiconductor”检索：结果页面



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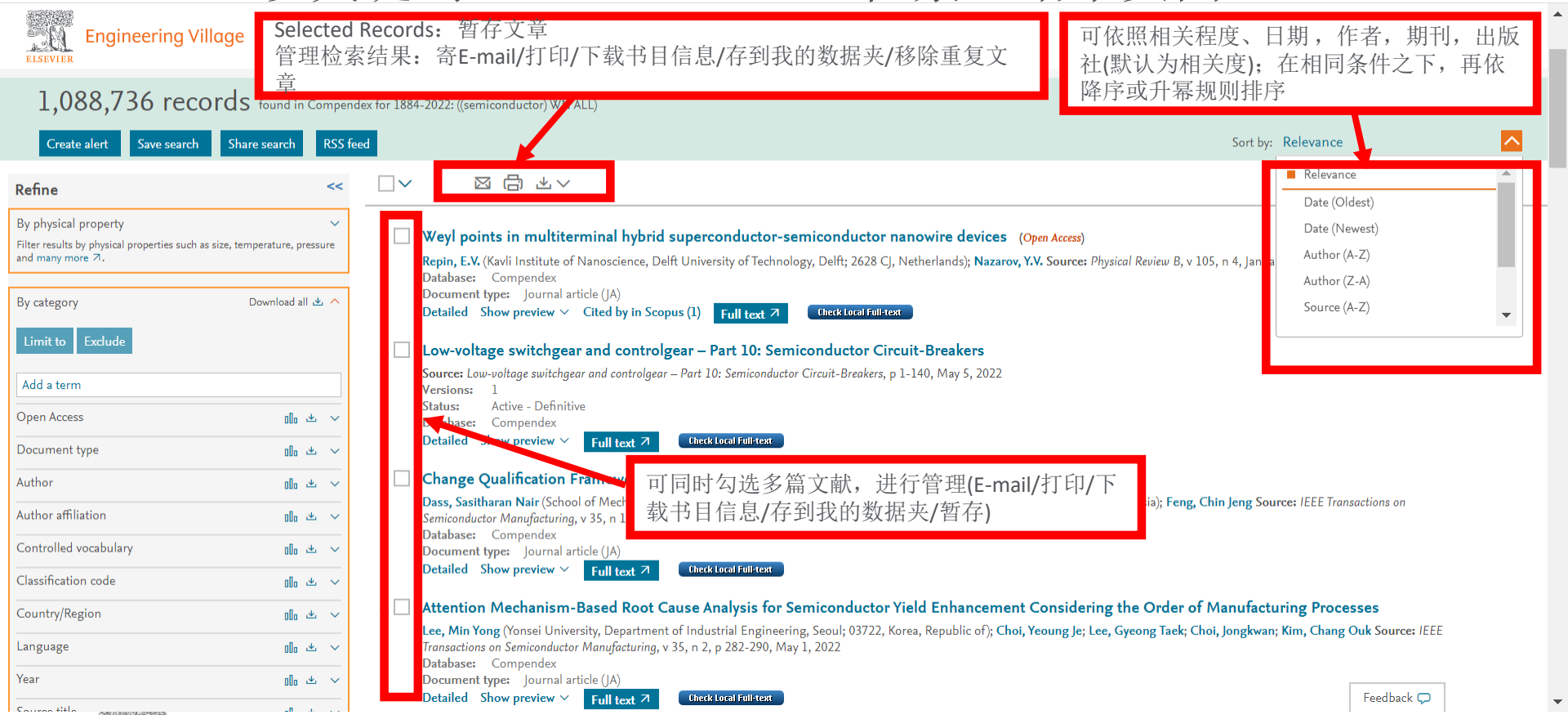
以关键词“semiconductor”检索：结果页面



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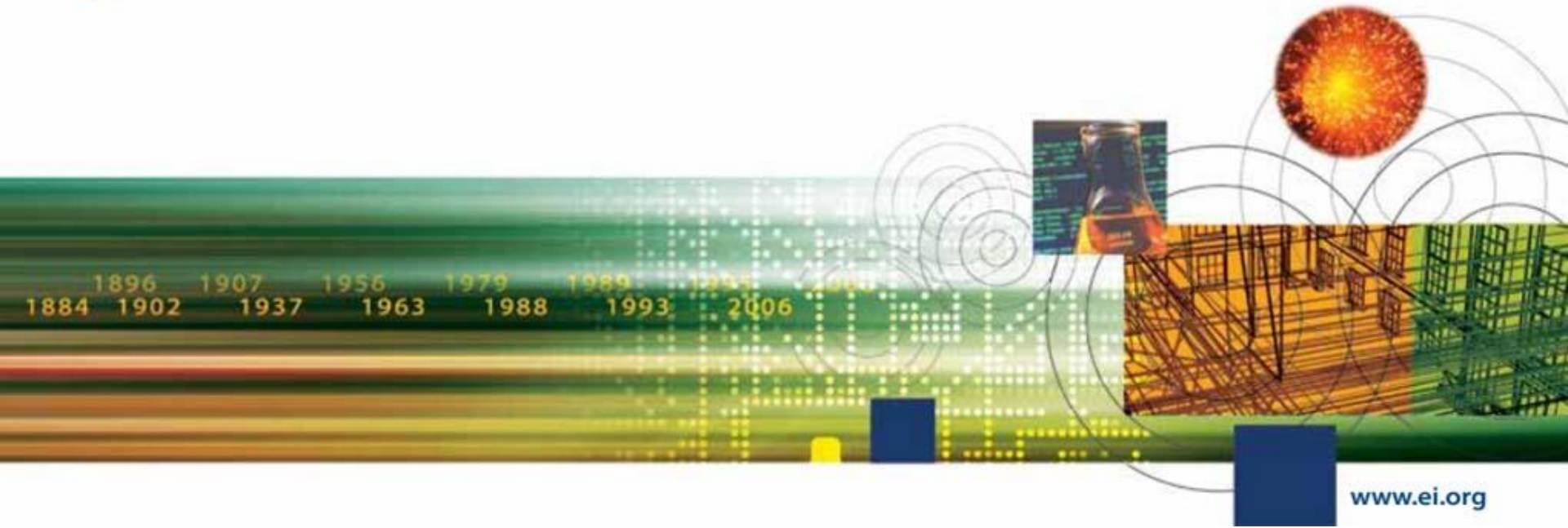
Quick Search - 快速检索



过滤和分析检索结果

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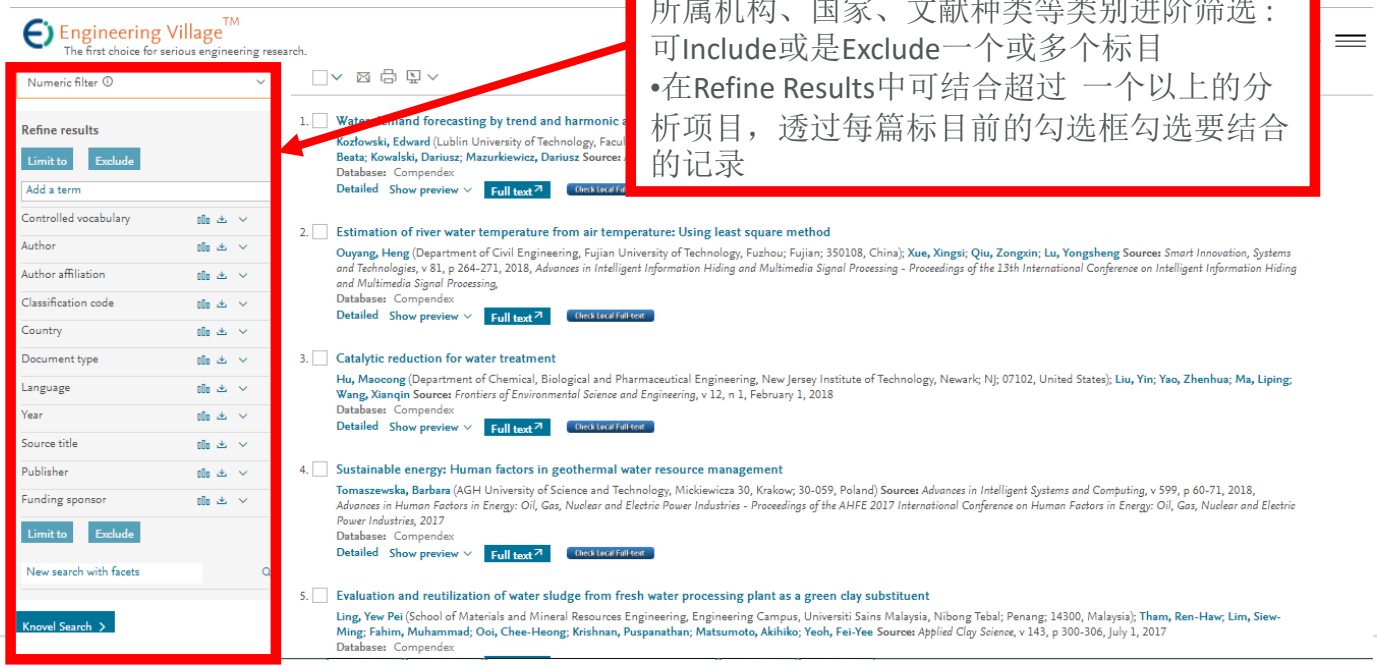
过滤检索结果



- 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

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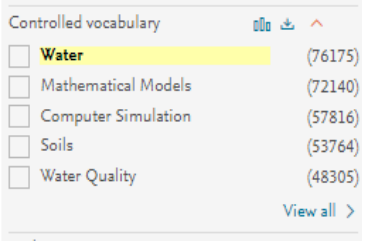
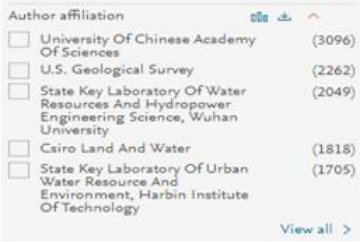
控制词汇

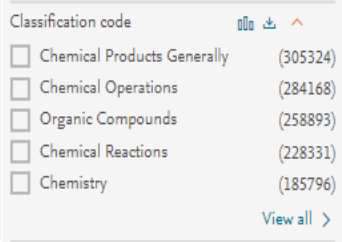


作者

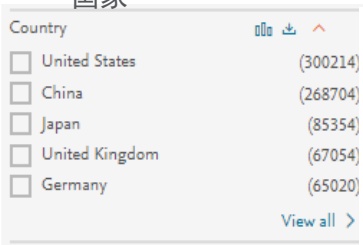
作者机构



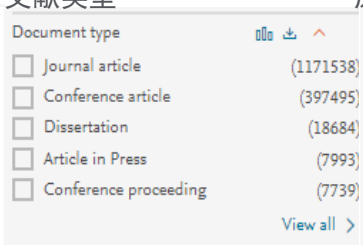
学科分类



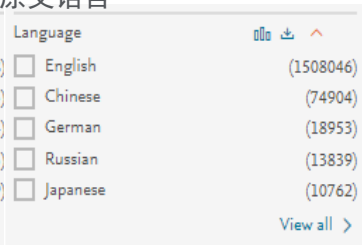
国家



文献类型



原文语言



年

刊源

出版社

赞助机构

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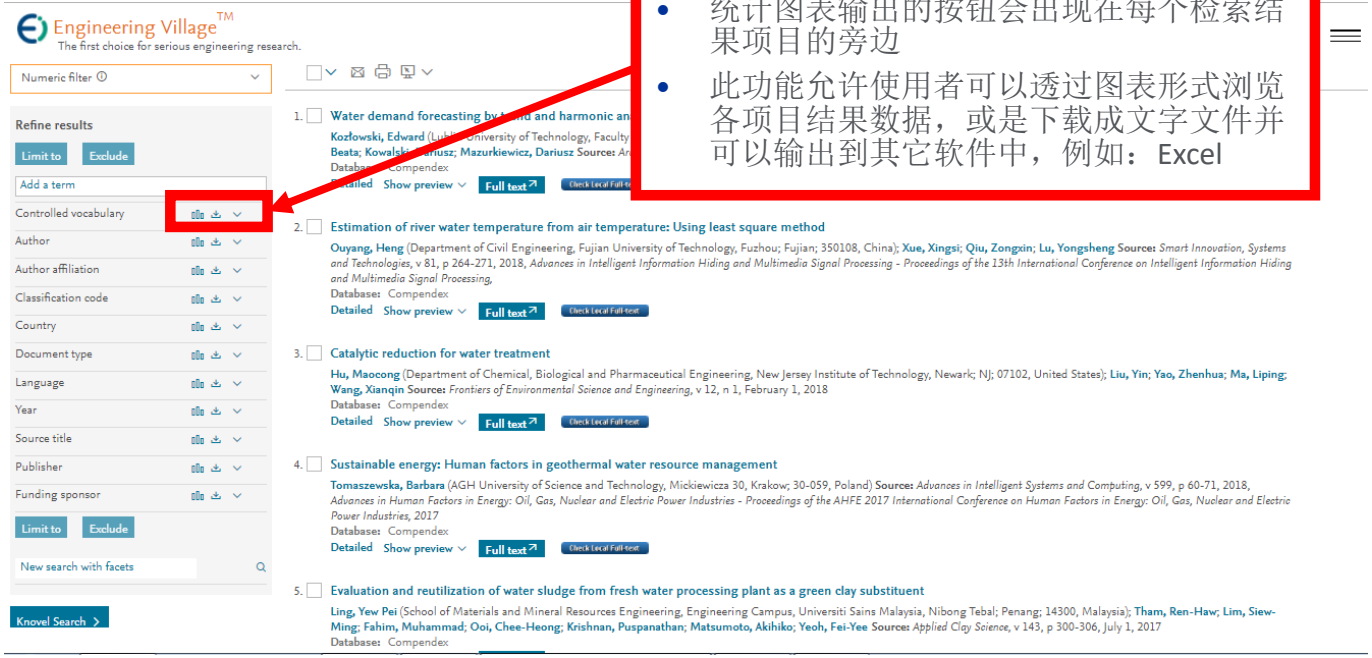
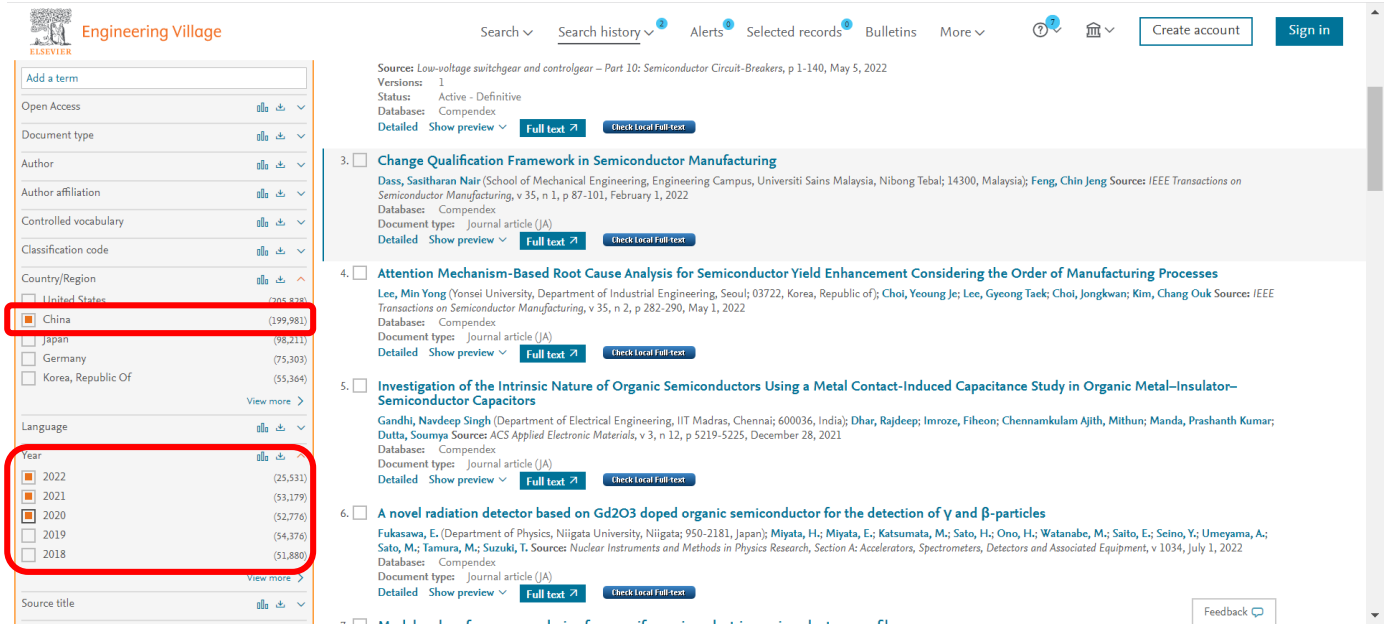
分析检索结果



- 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

举例：只关注‘中国’近3年的‘semiconductor’的研究



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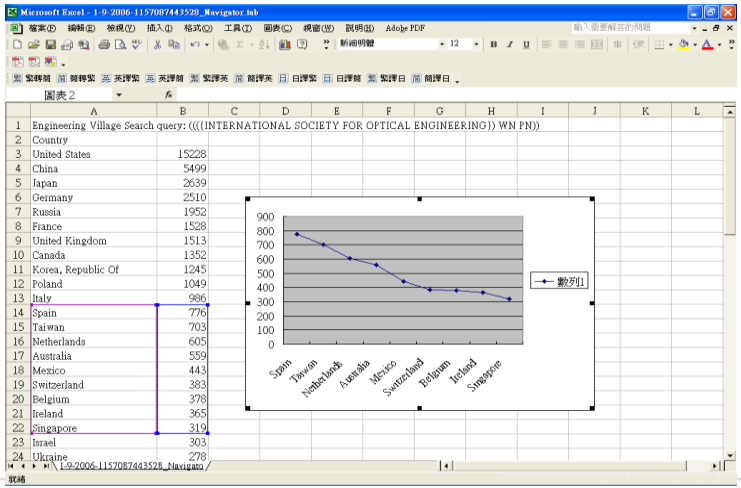
分析检索结果

- 点选 图标可以让您将图表输出成tab档案

- 您也可以将输出的档案以**Excel**软件开启分析管理



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经过整理的记录：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

Corresponding Author： 通讯作者

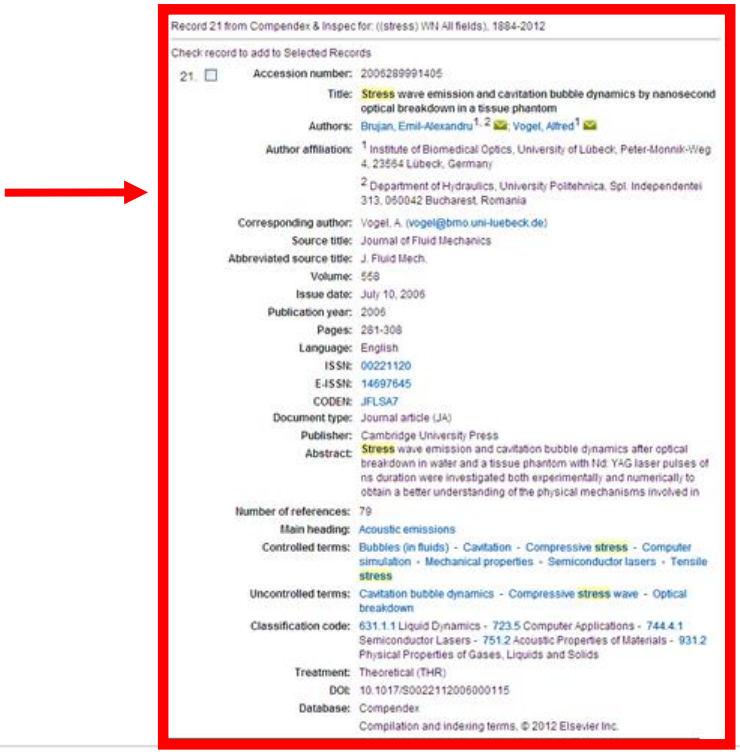
Abstract：文章内容摘要

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



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

Check record to add to Selected Records

21.

Accession number: 20062899991405

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

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

Author affiliation: [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

Corresponding author: Vogel, A. (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

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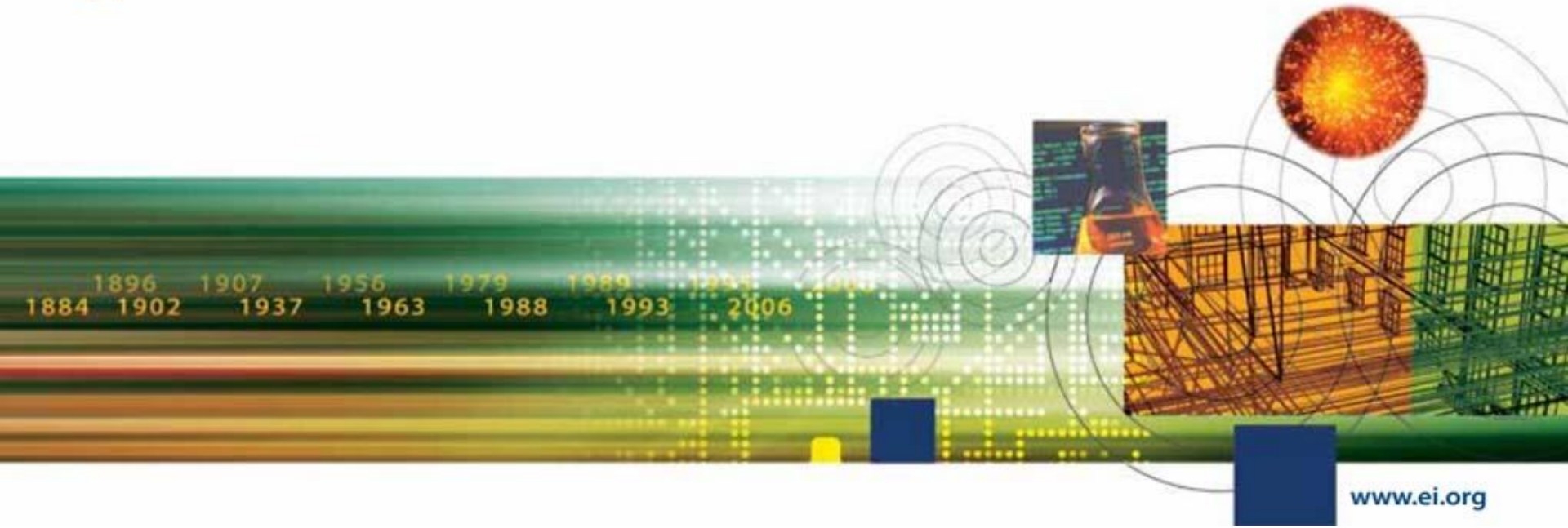
Quick Search - 快速检索



检索结果的管理

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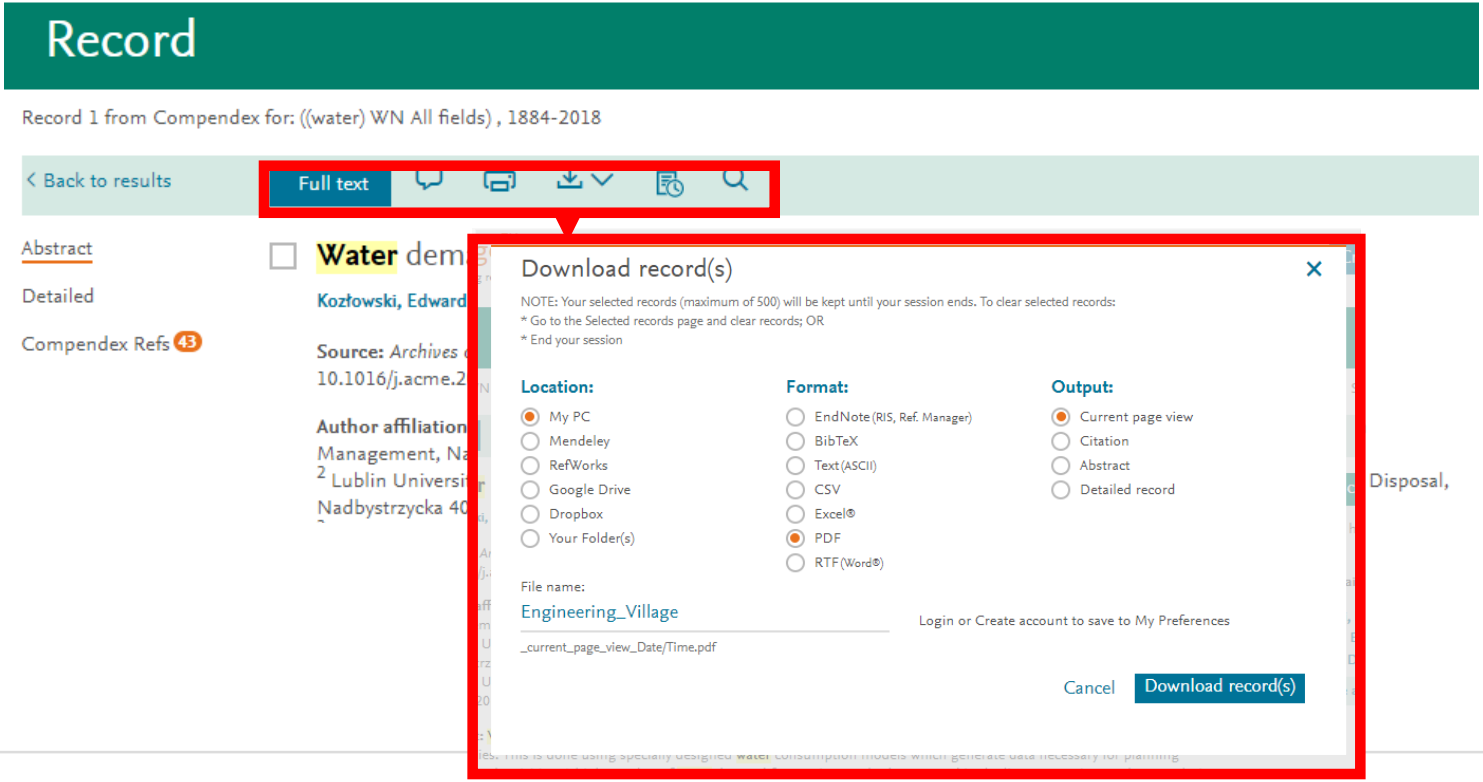
有五种选项保存需要的文章



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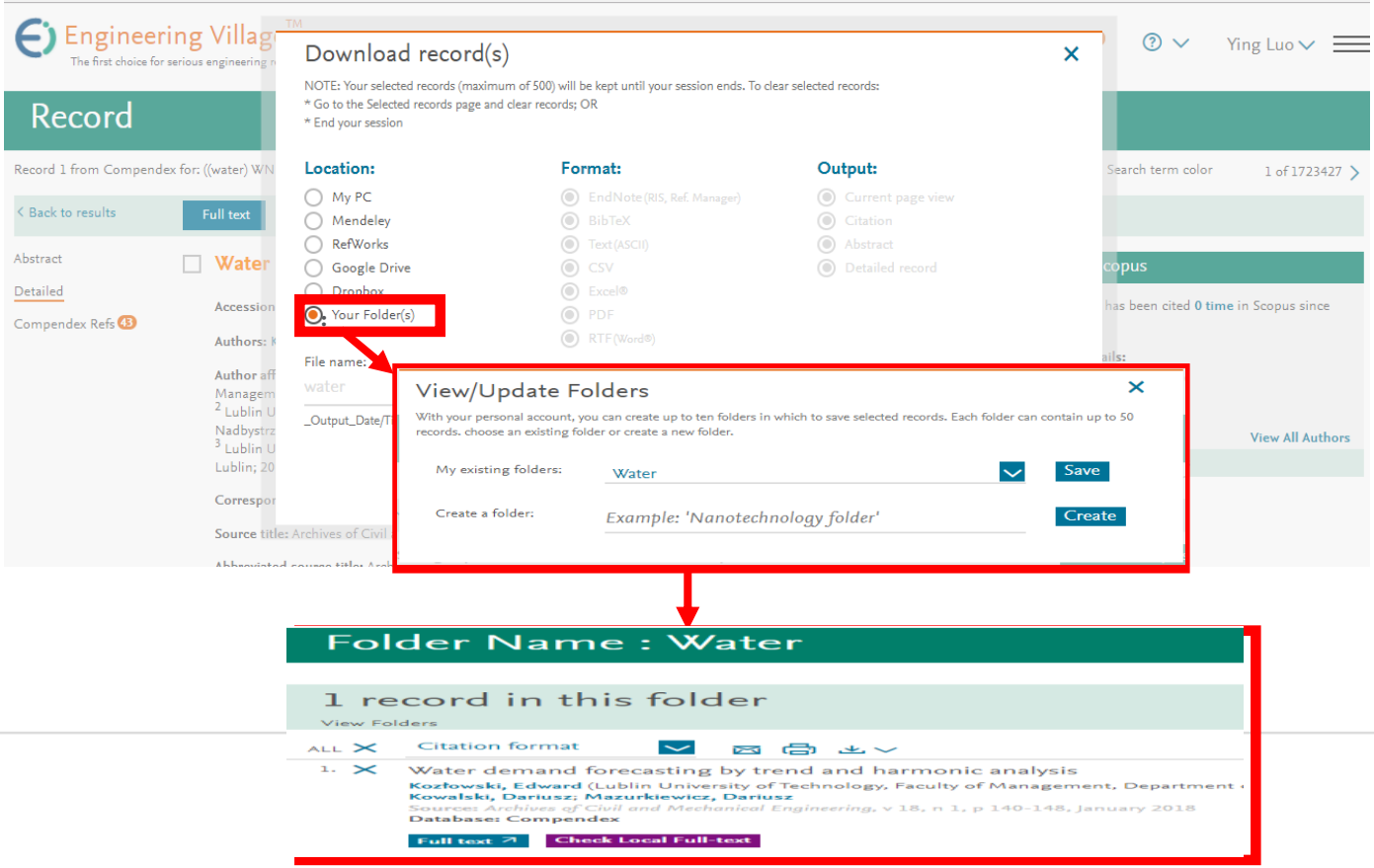
存到我的资料夹

注意，此为个人化功能，需注册及登录后才能使用。



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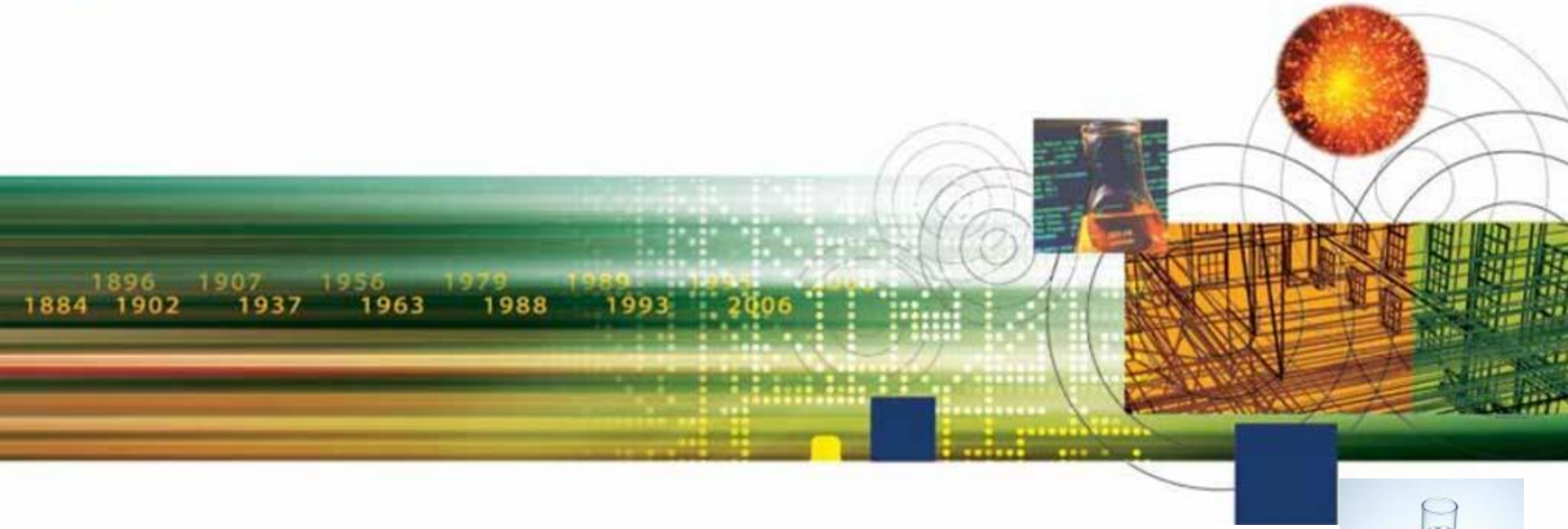
Expert Search - 专家检索



Expert Search – 专家检索

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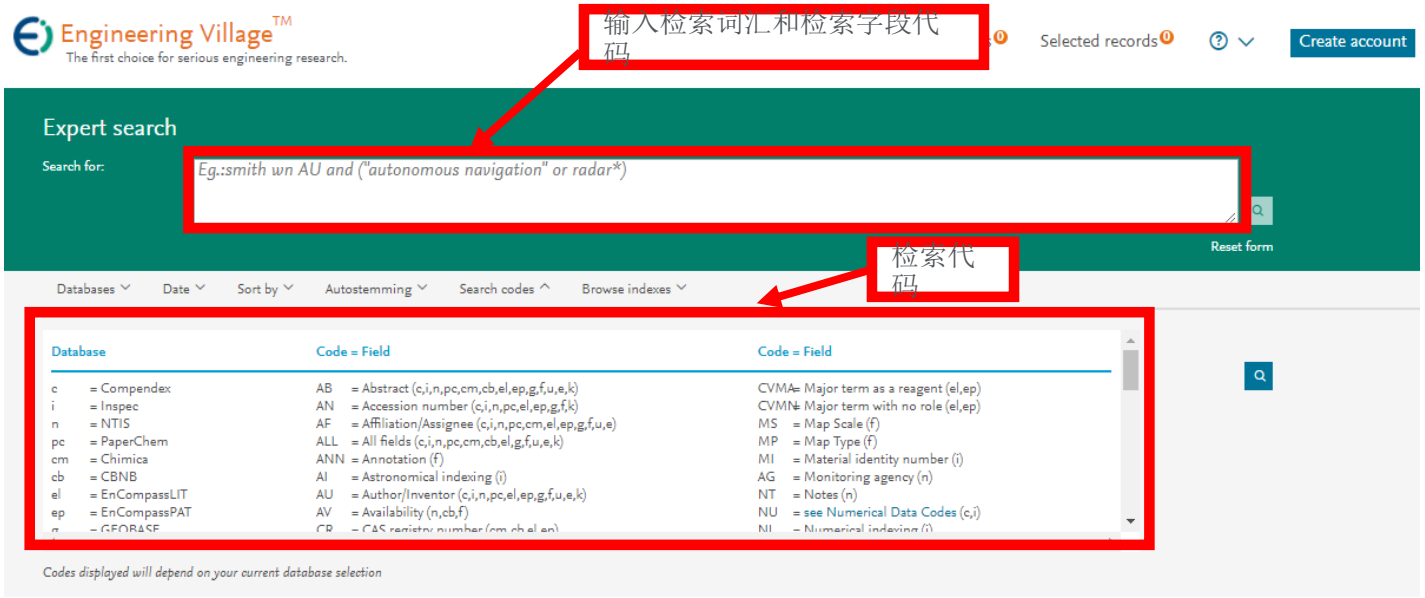
专家检索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输入检索词汇和检索字段代码
Selected records
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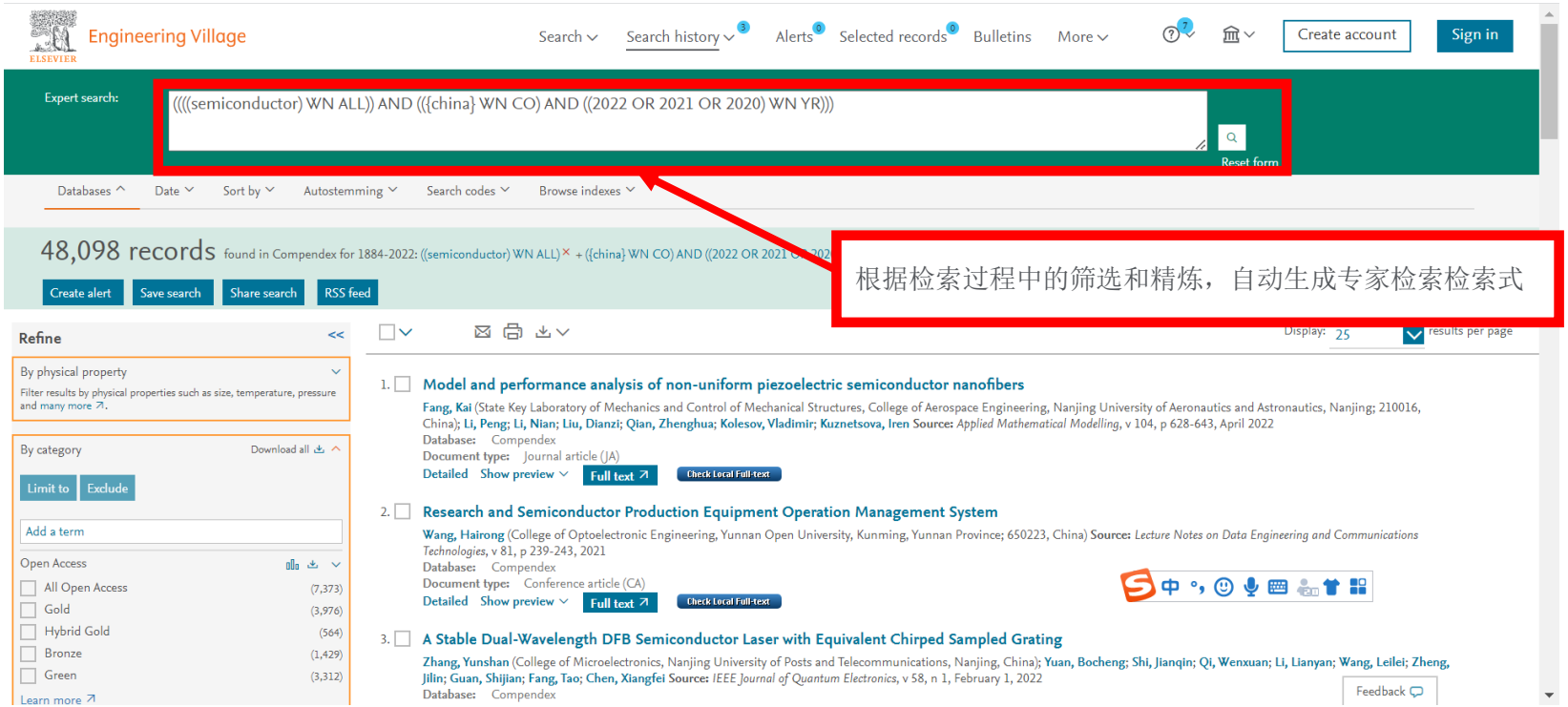
Eg.:smith wn AU and ("autonomous navigation" or radar*)
Reset form
检索代码
Databases
Date
Sort by
Autostemming
Search codes
Browse indexes
Database
Code = Field
Code = Field
c = Compendex
i = Inspec
n = NTIS
pc = PaperChem
cm = Chimica
cb = CBNB
el = EnCompassLIT
ep = EnCompassPAT
AB = Abstract (c,i,n,pc,cm,cb,el,ep,g,f,u,e,k)
AN = Accession number (c,i,n,pc,el,ep,g,f,k)
AF = Affiliation/Assignee (c,i,n,pc,cm,el,ep,g,f,u,e)
ALL = All fields (c,i,n,pc,cm,cb,el,g,f,u,e,k)
ANN = Annotation (f)
AI = Astronomical indexing (i)
AU = Author/Inventor (c,i,n,pc,el,ep,g,f,u,e,k)
AV = Availability (n,cb,f)
CVMA = Major term as a reagent (el,ep)
CVMN = Major term with no role (el,ep)
MS = Map Scale (f)
MP = Map Type (f)
MI = Material identity number (i)
AG = Monitoring agency (n)
NT = Notes (n)
NU = see Numerical Data Codes (c,i)
Codes displayed will depend on your current database selection

专家检索



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查收-机构检索

- 推荐检索式：
- 以清华大学为例
- (tsinghua near univ* and (beijing or 100084 or china)) wn af and 2021 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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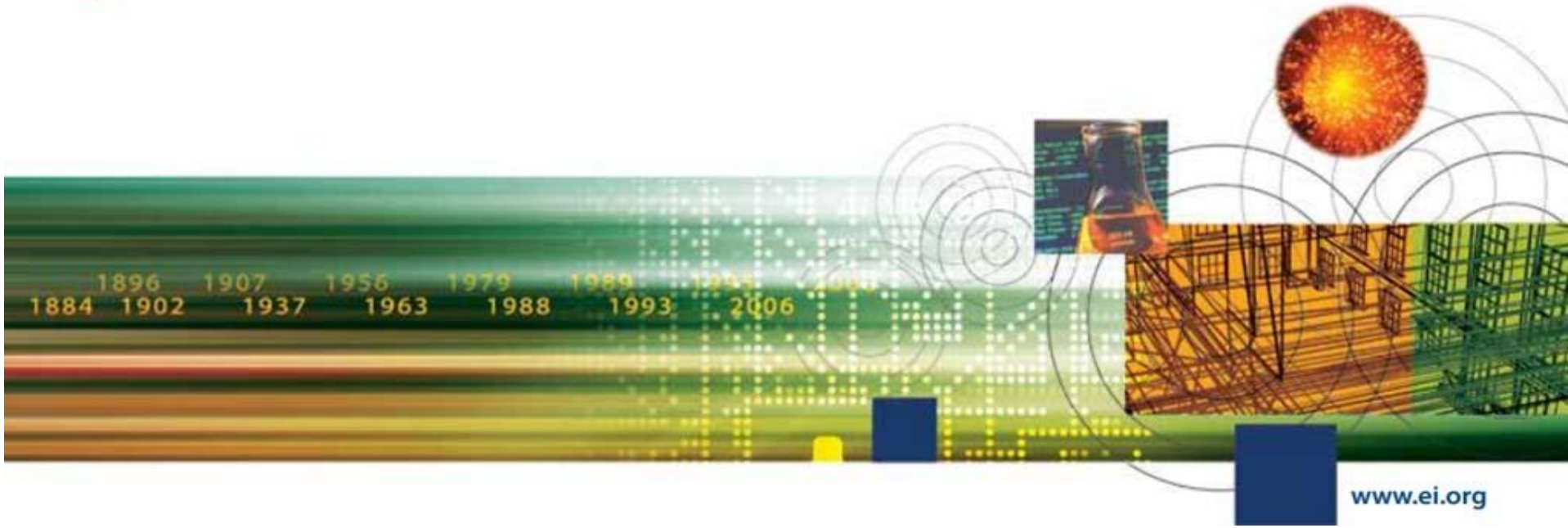
Thesaurus Search - 词库检索



Thesaurus Search – 叙词检索

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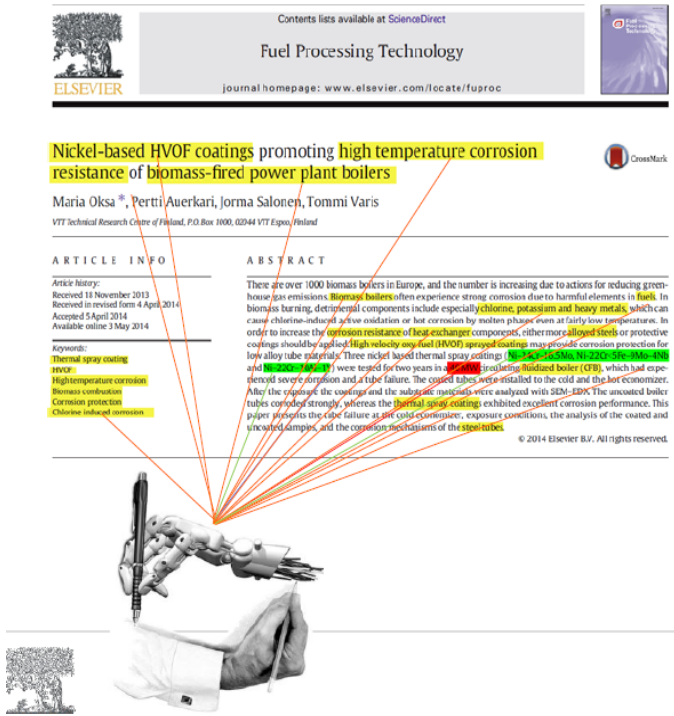
文摘索引过程



受控词及非受控词 | 分类码

会议信息 | 会议码

NEW 数值数据索引 | NEW 化学索引

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

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叙词表的作用

- 叙词表是由专业的规范词组成，它可以将同一主题不同表述的词，按主题内容规范在标准的专业词下，避免了由于词汇书写不同造成漏检，或词义概念混淆导致错检的问题。
- 用户利用叙词表可从主题角度检索文献，进而提高文献的查准率。
- 利用叙词表还可以从主题概念的角度扩展或缩小检索范围。

- **控制词汇**
  - 不使用其他的术语
- **每年更新**
  - 词汇工作组和索引工作人员决定变化
  - 叙词表新版本
- **具体范围标记**
  - 受控词的信息

- **分面层次**
  - 分面: 按类别分组
  - 层次: 上位类/下位类
- **自动显示的款目**
  - 有信心检索专属性的任一层次
- **相互参照**
  - 引导用户使用有效款目

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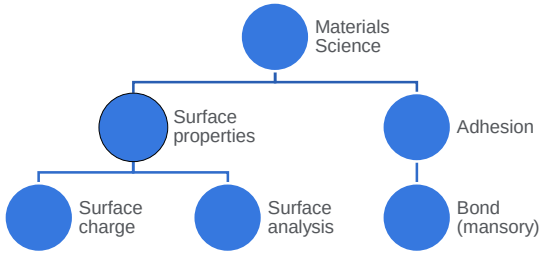
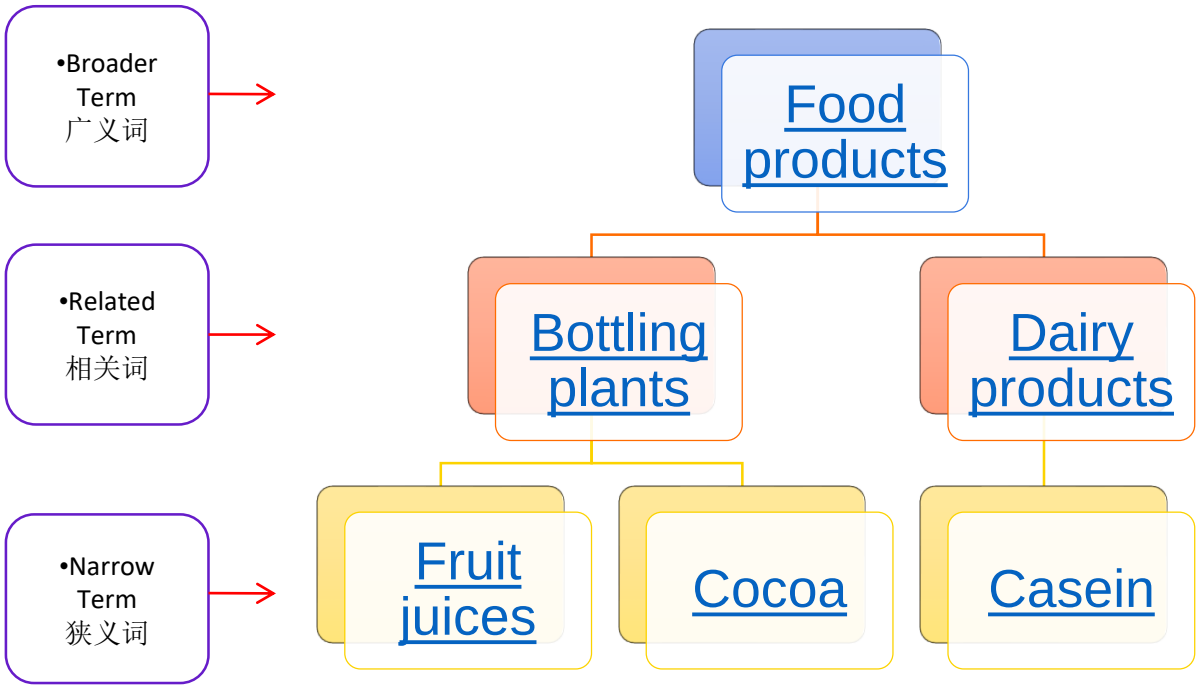
Ei工程索引叙词表

源自1884年，目前仍在发展中



THESAURUS词库-Beverages（饮料）

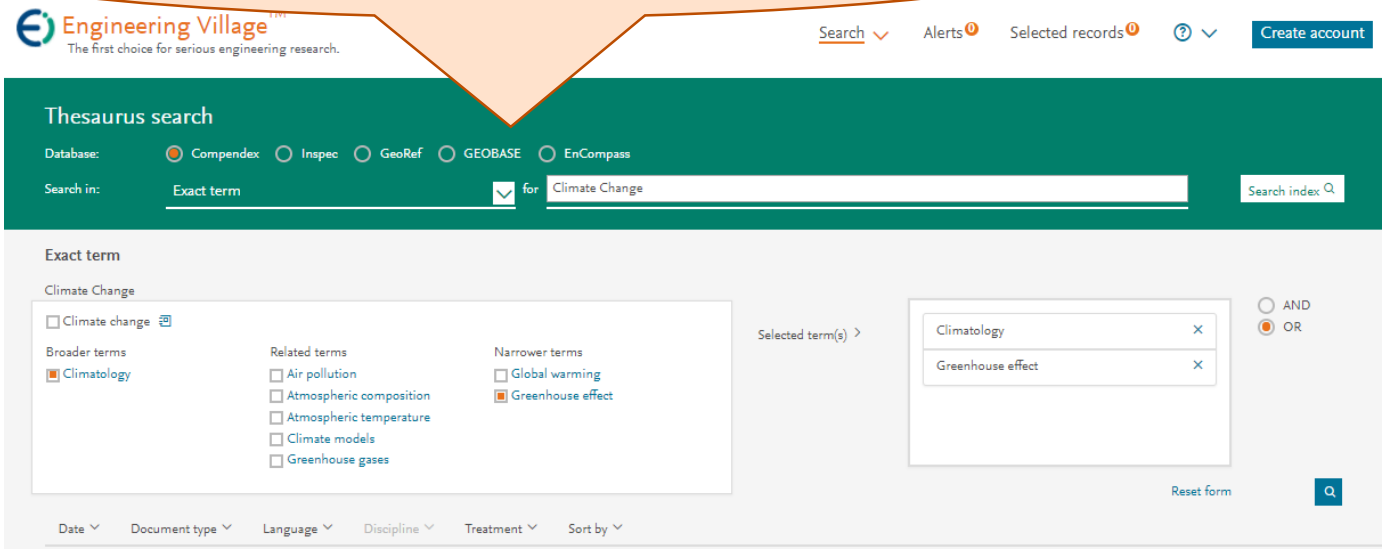


实例－用叙词表选词进行主题检索

- 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
- 专家检索式写法：
- ((({Climatology} WN CV) AND ({Climate change} WN CV) AND ({Greenhouse effect} WN CV)))

用EI叙词表选词

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



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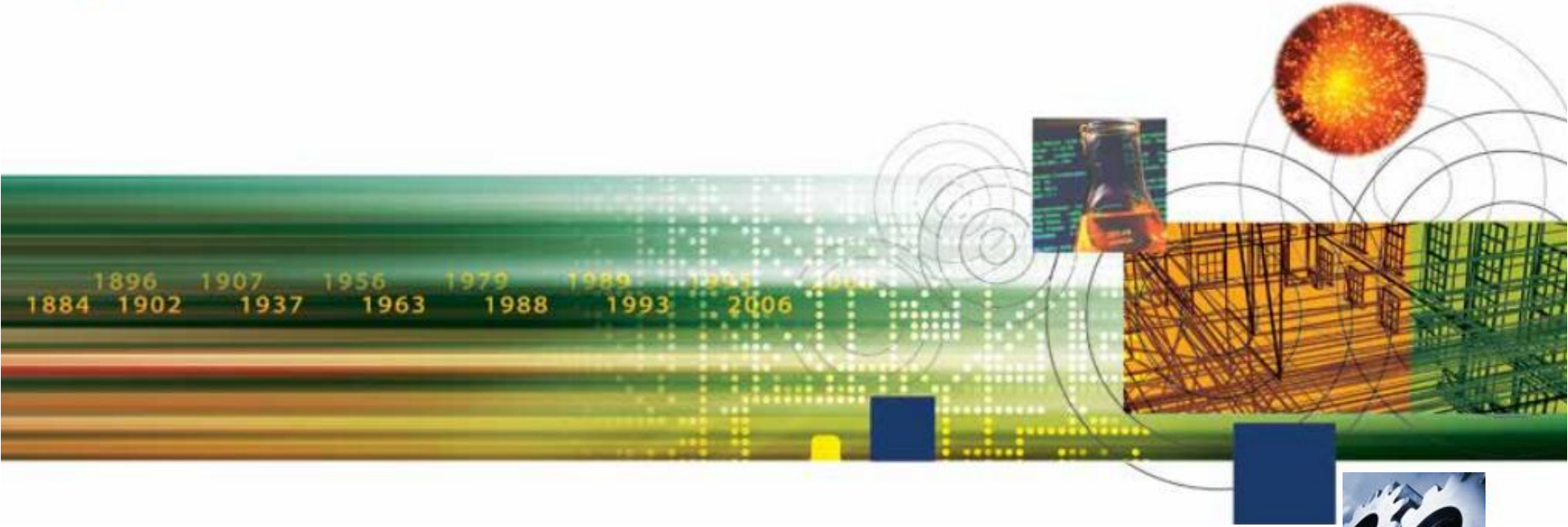

其他功能

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数值检索-来自数值数据的更多信息

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

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.

Controlled terms: Core drilling - Density (specific gravity) - Geotechnical engineering - Hazards - Magnetic susceptibility - Mooring - Offshore pipelines - Petroleum geology - Production platforms - Sediments - Shear strength

Uncontrolled terms: Compression wave velocity - Geotechnical properties - Large diameter long piston cores - Sensor core logger

Classification code: 481.1Geology - 483.2Foundations - 511.1Oil Field Production Operations - 674.2Marine Drilling Rigs and Platforms - 701.2Magnetism: Basic Concepts and Phenomena - 931.2Physical Properties of Gases, Liquids and Solids

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

//CODiE//
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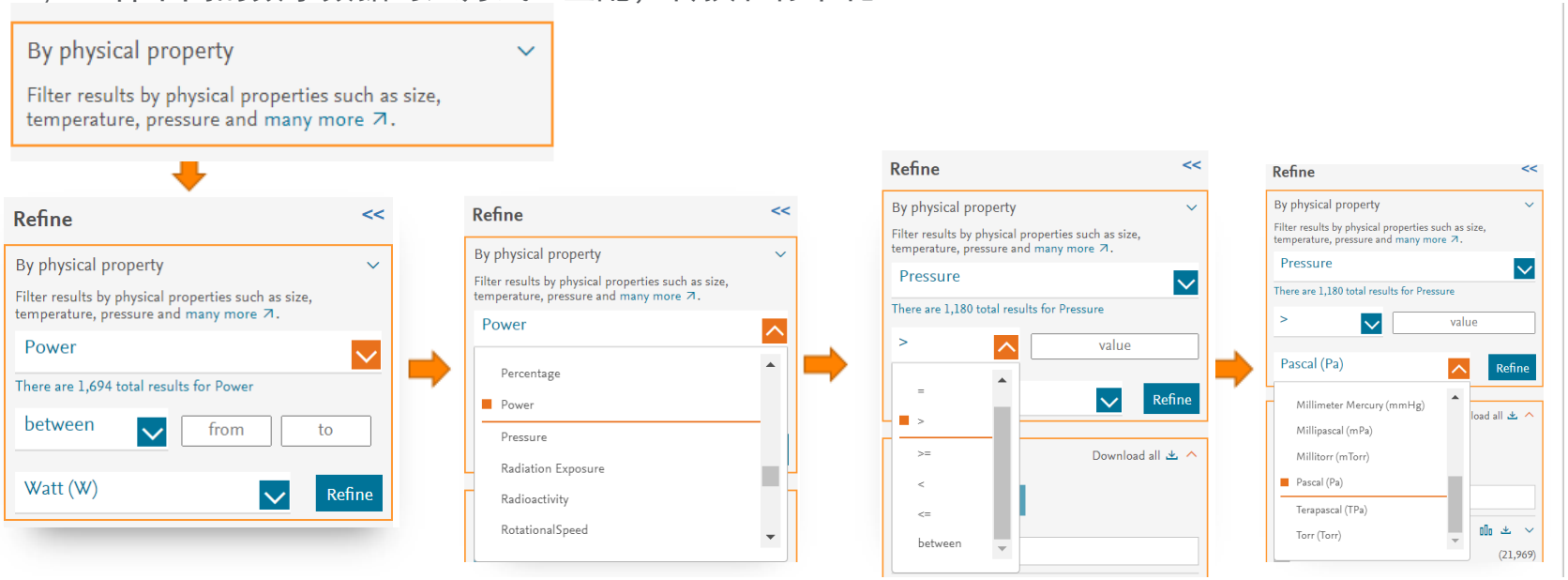
数值检索

Engineering Village是唯一支持Compendex和Inspec数值搜索的平台。 数值数据通常描述工程文献中最重要的方面。 通过数字数据索引，研究人员可以访问可能未通过纯文本搜索发现的文档。

-为Compendex索引的62种不同的物理和化学性质。

-在Compendex和Inspec数据库中可用于交叉搜索的记录超过650万条。

-460,000种不同的数字数据写入方式 - 匹配，转换和标准化。



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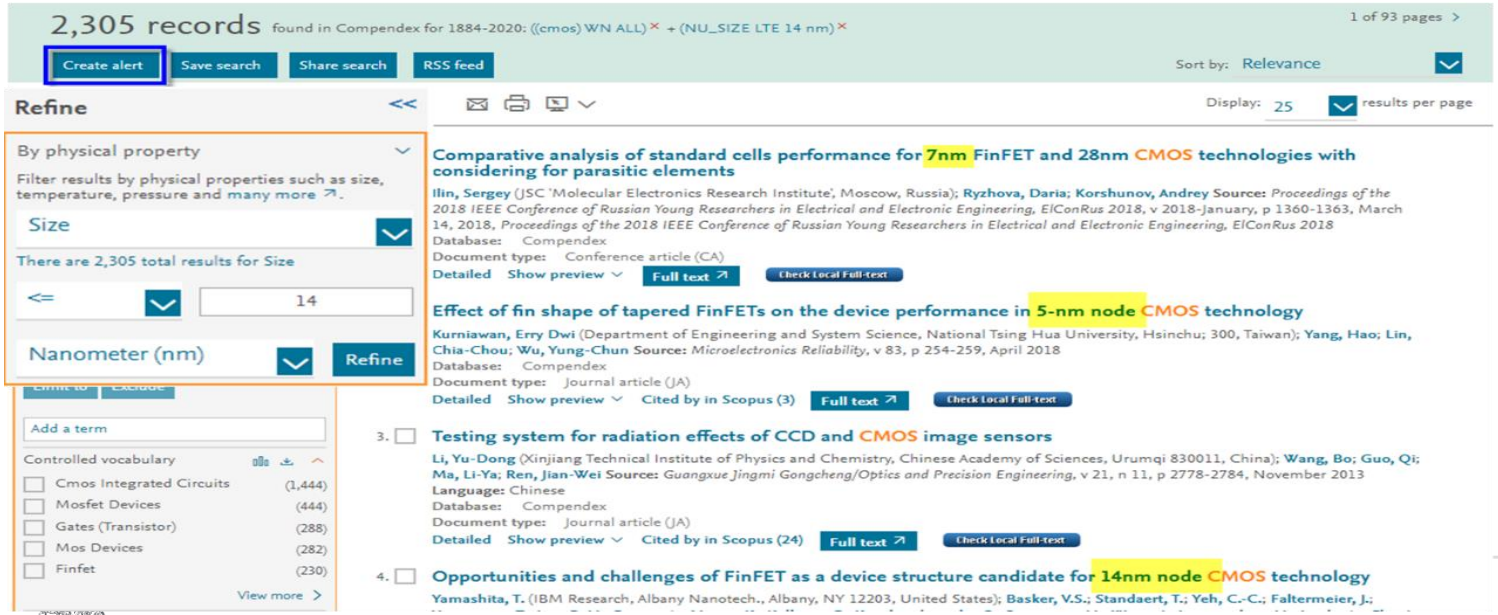
数值检索优势

一：打破计量单位限制
二：提高查全率-数值检索比关键词检索的结果多出一倍
三：高效便捷地跟踪前沿

Refine your results to the latest cutting edge research for electronic circuits using an easy-to-use numeric search filter.



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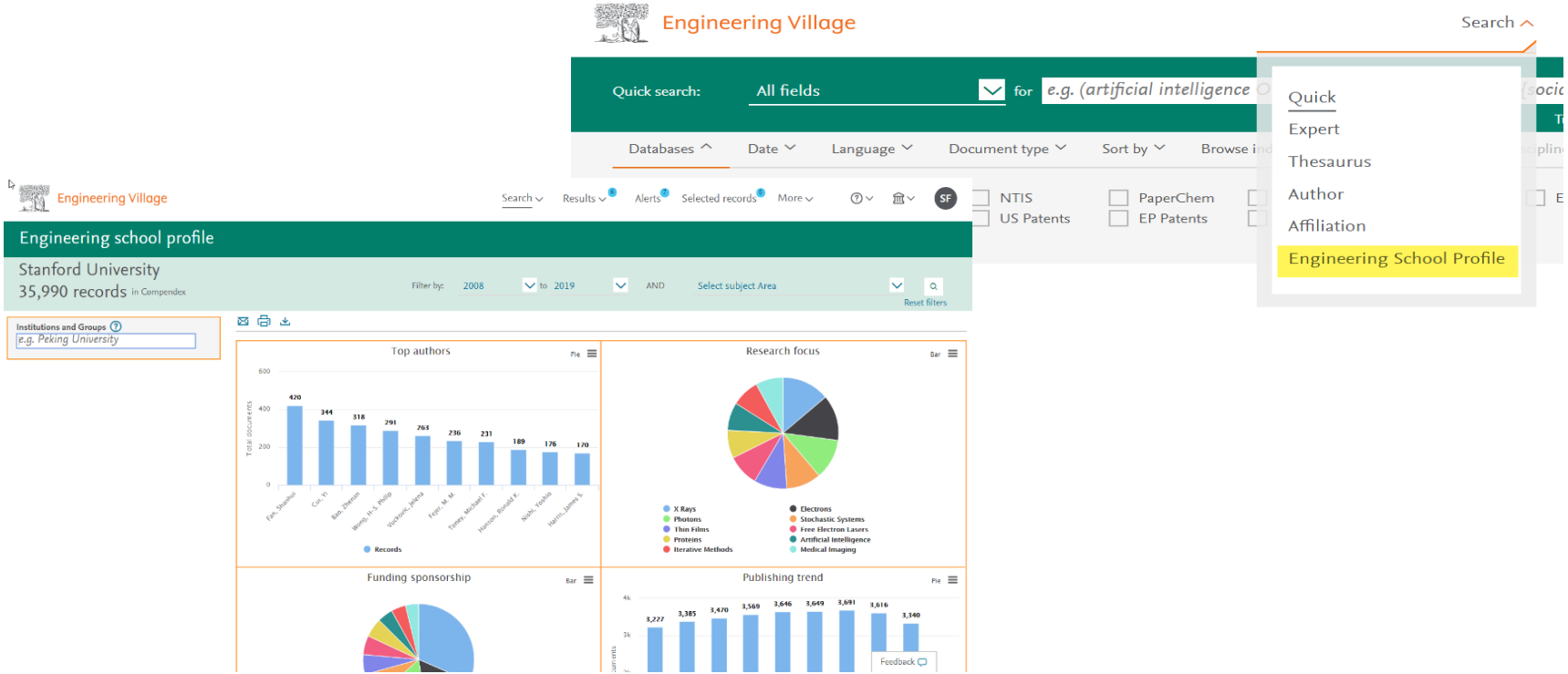

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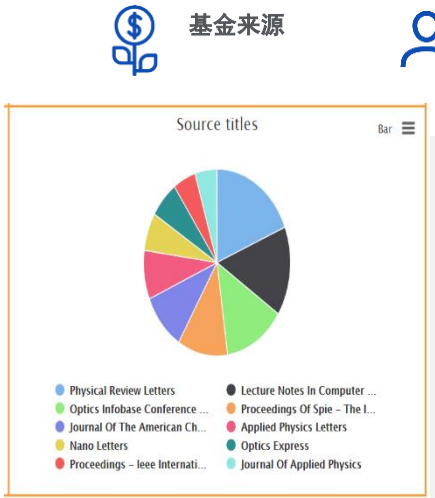
工科院校Ei档案 Engineering Research Profile

综合基金、研究重点和综合情况做出基于数据的科学决策

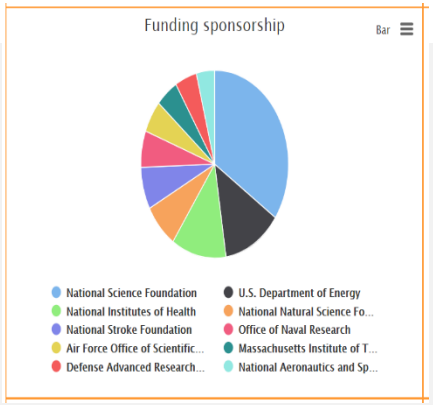
基于EI Compendex数据库分析并回答：

基金来源

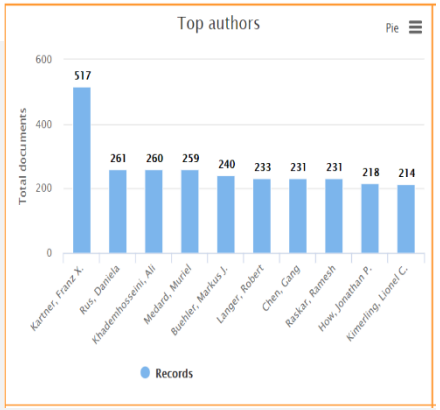


出版去向

主要科学家



最强学科



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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。

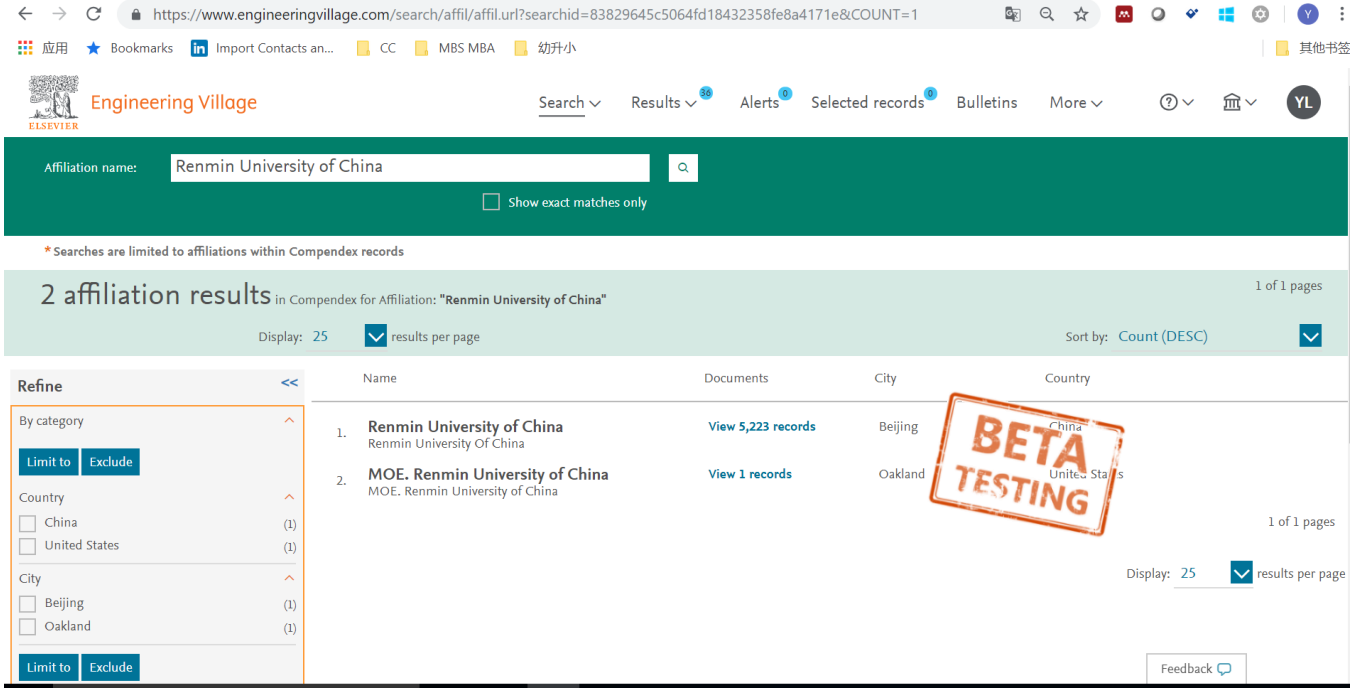
全新的界面

检索历史

- 可快速访问最近5个检索式
- 可链接到该对话期中所有的检索式
- 可简便地再次进行检索

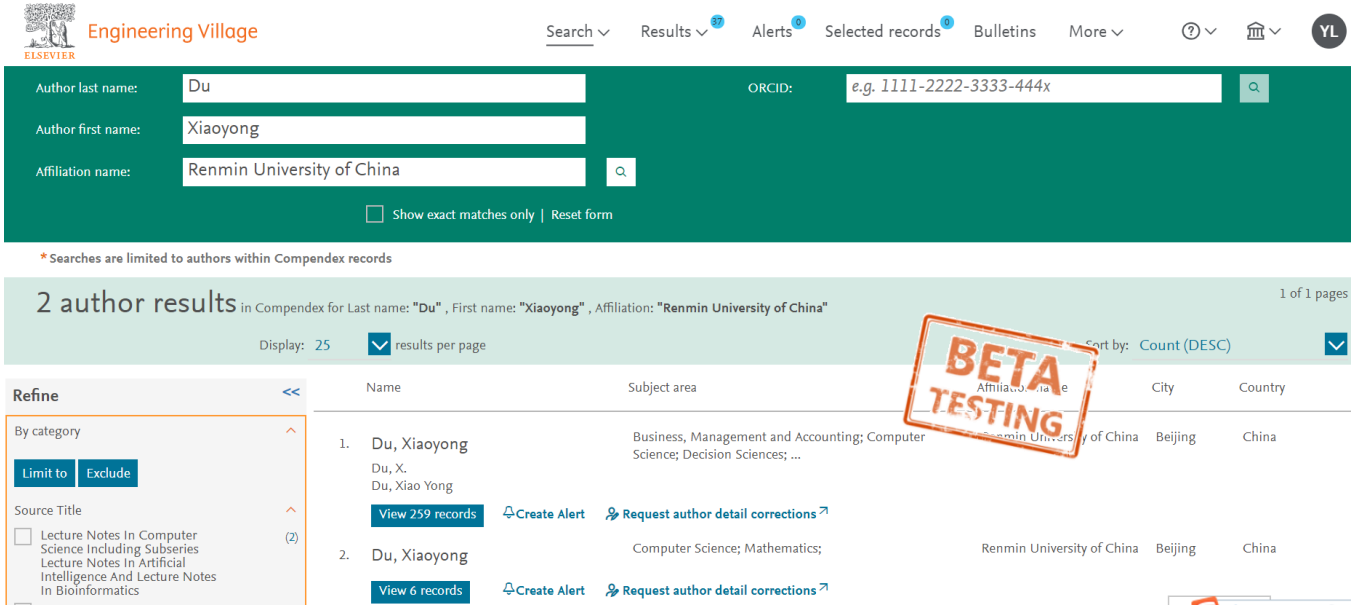
机构检索 Affiliation Search

基于机构ID查询高校或研究机构的发文信息，提高检索准确性



作者检索 Author Search

基于ORCID的检索，提升查准性



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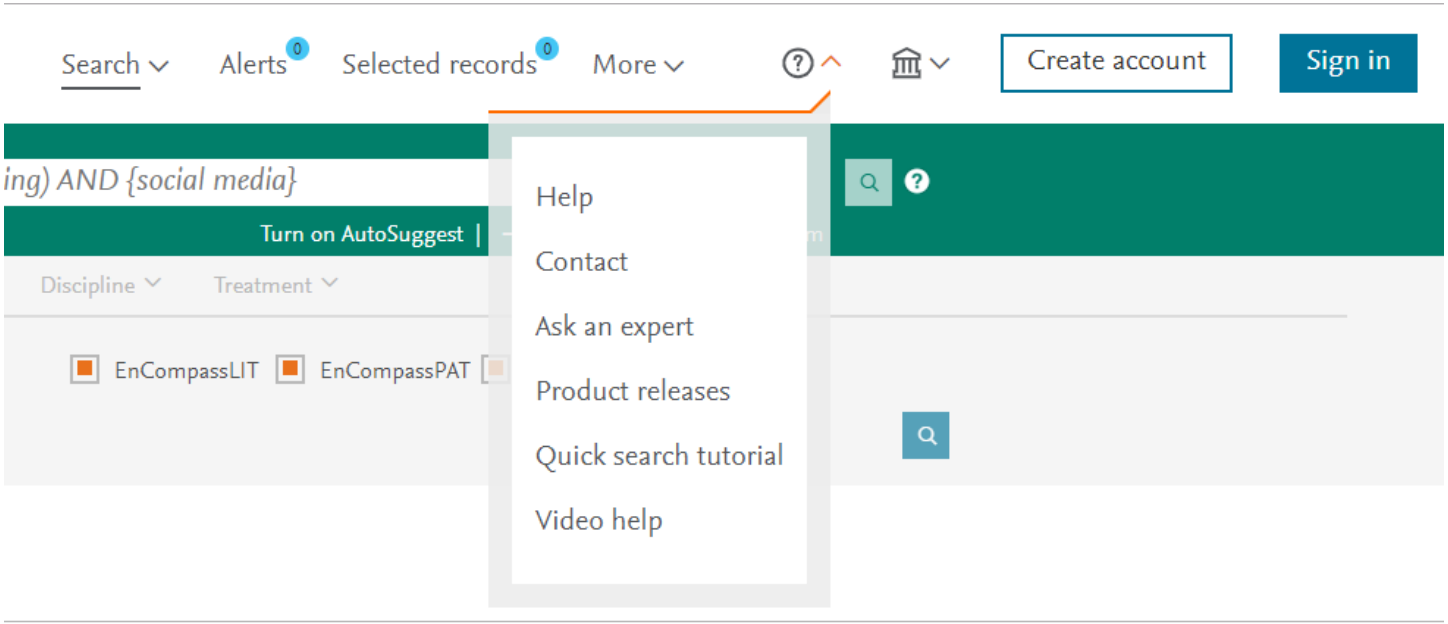
利用EI数据库中的帮助选项



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  - 功能特点类（比如“什么是classification code”等）
  - 产品建议与使用反馈
- **访问问题**
  - 遇到报错信息（如提示“system error”或“entitlement error”等）
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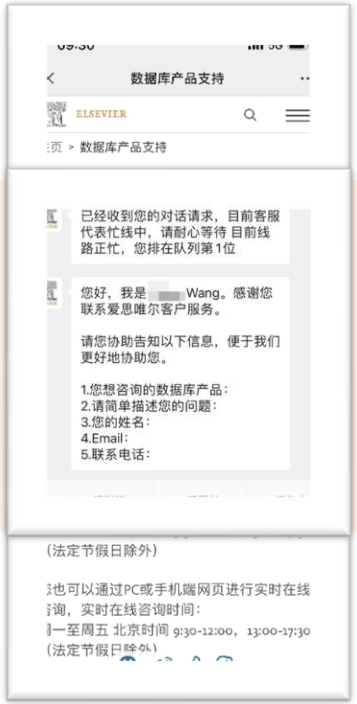

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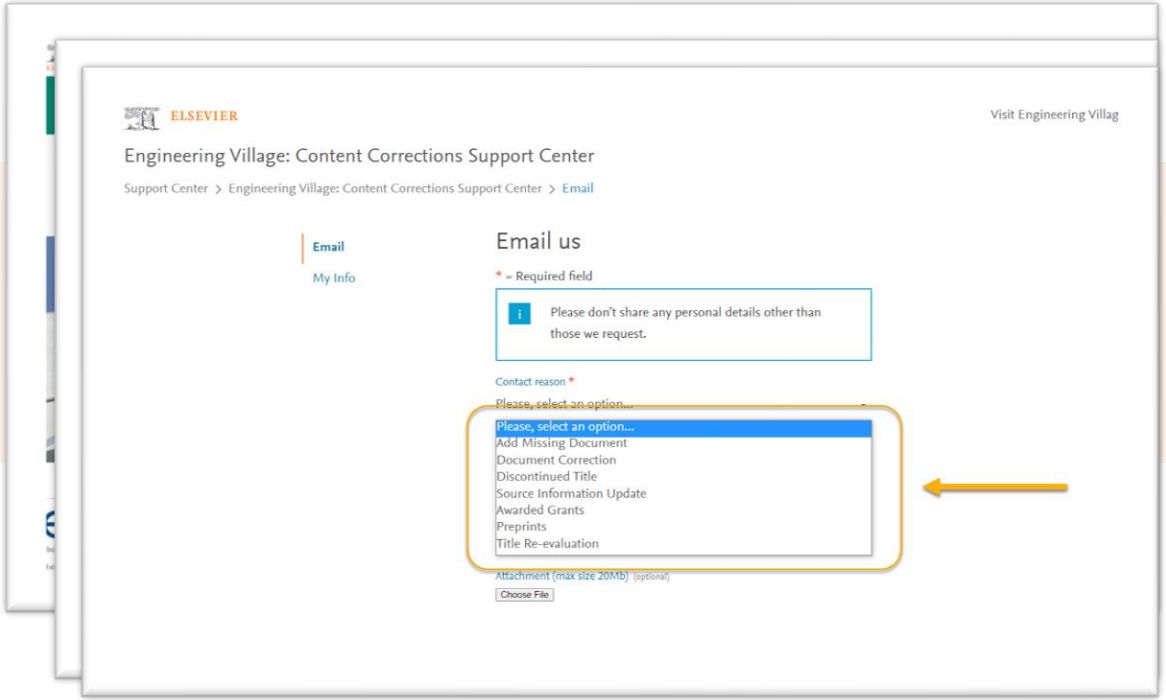

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