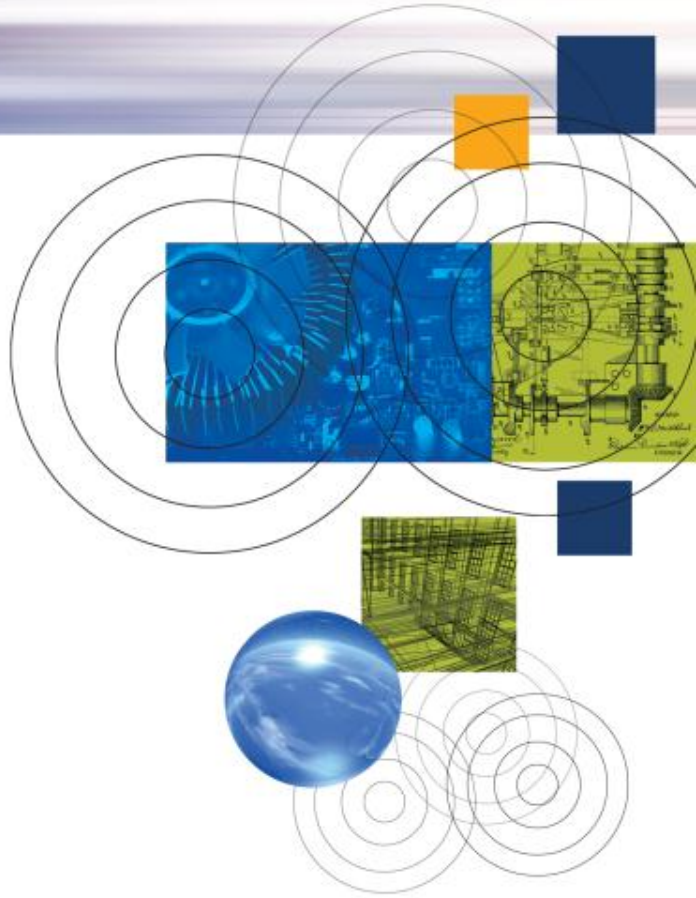


Elsevier
数据库教育训练一

Engineering Village

www.ei.org

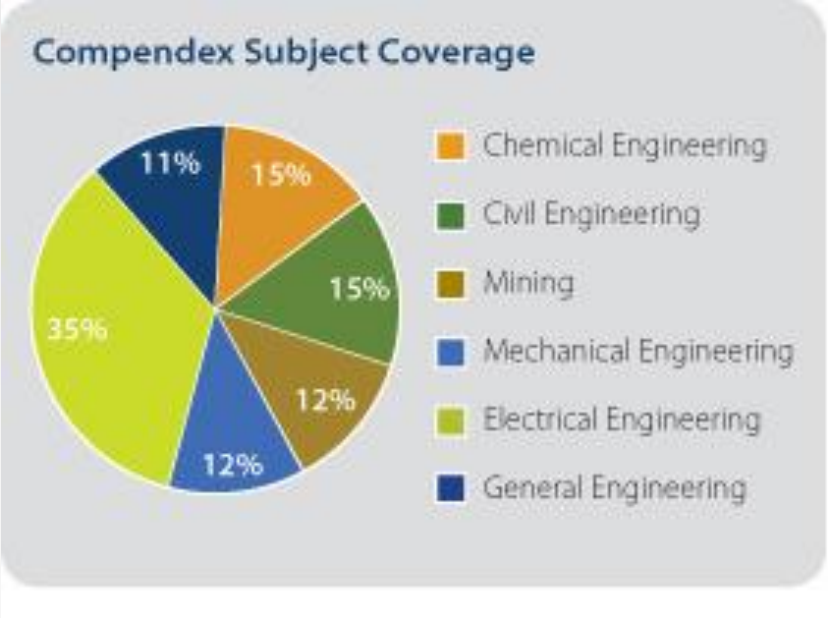
Engineering Village接口与收录内容

- 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：1969年至今
- 5,600多种工程研讨会、期刊、商业杂志、会议记录和技术报告资料
- 资料量：超过 1580 万篇，每年新增约 65 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**、环境、结构、材料科学、固态物理学、超导体、生物工程学、能源、光学、空气和水污染、固态废弃物处理、道路运输、运输安全、应用工程、质量管理、工程管理等
- 收录超过55个国家的出版品
- 更新频率：每周
- 回溯期刊： 1884年-1968年



Compendex – 细分学科领域

Civil Engineering – in the areas of:

- Bioengineering
- Building Materials Properties
- Construction Materials
- Geology
- Ocean and Underwater Technology
- Pollution and Wastes
- Sanitary Engineering
- Transportation
- Water and Waterworks

Mining Engineering - in the areas of:

- Fuel Technology
- Metal Groups
- Metallurgical Engineering
- Petroleum Engineering

Mechanical Engineering - in the areas of:

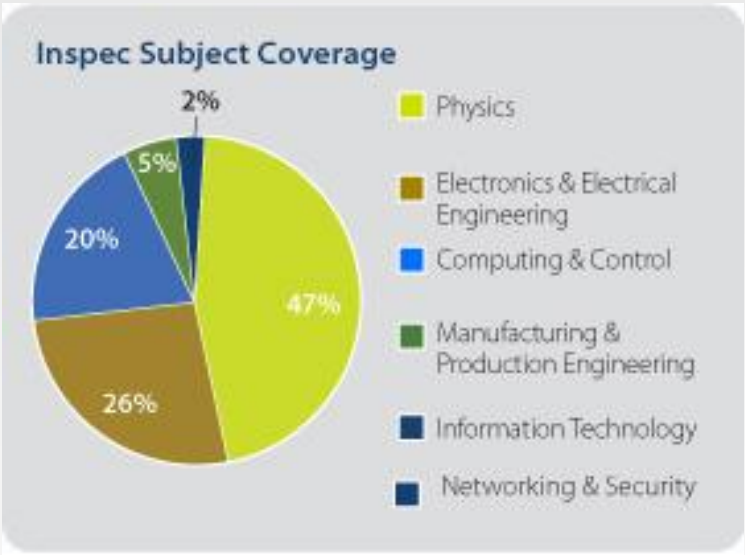
- Aerospace
- Automotive
- Fluid Flow
- Heat and Thermodynamics
- Materials Handling
- Naval Architecture and Marine
- Nuclear Technology
- Plant and Power
- Railroad

Electrical Engineering - - in the areas of:

- Computers and Data Processing
- Control Engineering
- Electronics and Communication
- Light and Optical Technology
- Sound and Acoustical Technology
- Electricity and Magnetism
- Electric Components and Equipment
- Electronic and Thermionic Materials
- Electronic Components and Tubes

INSPEC

- 收录资料自1969年至今
- 收录全球电子工程、电子学、物理学、控制工程、信息科技、通讯学、电子计算器等科学文献
- 从4000多种科学和技术性期刊、2000篇会议记录中收录超过1100万篇书目摘要数据
- 数据库每年增加约60万篇新纪录
- 收录超过80个国家的出版品
- 更新频率：每周更新
- 回溯期刊：1989年-1968年
- 需另购



NTIS

- 收录自1899年至今
- National Technical Information Service Database（简称NTIS），内容选自美国由国家资助之研究发展计划的研究报告，包含美国太空总署(NASA)、能源部(DOE)及其它政府部门提供的各类研究报告，收录超过210万篇文献资料
- 涵盖建筑工业技术、化学、能源与能量、环境保护与控制、工业与机械工程、材料科学、自然资源、动力与燃料等学科
- 更新频率：每周更新
- 需另购

GeoBASE

- 收录自1980年至今
- GeoBase®是一个横跨地球科学各个领域并将其研究文献编入索引的数据库，收录超过2000种期刊、190多万篇数据，包括：同行审查期刊、商业出版物、丛书和会议论文集。
- GeoBase®是国际上在此领域收录文献最广的数据库。
- 涵盖领域包括：地质学、人文地理学、环境学、海洋学和地质力学
- 数据库每年增加约10万篇新纪录
- 收录超过50个国家的出版品

GeoRef

- 涵盖了地质学和其相关科目。包含了学术期刊、书籍、地图、会议论文，用以评估地质学中的历史、经济、工程等研究信息。
- 收录超过290万篇文献资料，其中包含了超过3,500种期刊、电子书、地图集、会议论文、技术报告和论文
- 每年新增90,000篇资料
- 特别收录北美地区信息：1785年起
- 收录全球地区信息：1933年起
- 收录了所有US Geological Survey的出版品，以及在美加地区各大学所发表的博硕士学术论文

Referex (电子书)

- 收录工程专家1600多本优质工程电子书，内容从工程概论书籍到深度专业参考书均收录其中。
- 由化学、石油化学和加工，机械与材料，电子与电机、土木与环工、计算机、网络与安全6个专辑所组成。
- 每篇数据均会显示封面并依相关程度排列，可查看书籍简介、全文、相关章节以及目次，全文均以PDF格式呈现。
- 需另购

专利： USPTO / EPO

- 收录950万篇专利数据

USPTO

- 收录年代：1970年至今
- 美国专利商标局提供从1970年至今的全文专利数据库
- 1970至1975年间的专利数据仅能以专利号码、US分类号进行查找
- 当输入检索词汇时，系统会开启新窗口连结至USPTO网站显示检索结果
- 更新频率：每周更新
- 需另购

EPO

- 资料来源：欧洲专利局
- 更新频率：每周更新
- 需另购

EncompassLIT & EnCompassPAT

- EnCompassLIT & EnCompassPAT内容来自美国石油学会于1964起收录有关石油、石化和天然气工业相关的科技文献及专利摘要。
- 收录范围：
  - 87万篇科技文献、会议论文集和商业学报
  - 从全球40个专利局收率近50万篇专利数据
  - EnCompass词库收录超过7000篇控制词汇
  - 内容范围遍及俄罗斯、中国、德国、日本等
- 更新频率：每周更新
- 涵盖学科领域：石油炼制，石化，天然气，以及相关能源产业
- 需另购

Chimica & CBNB

- **Chimica**
- 从500本国际化学期刊中收录将近300万篇资料
- 更新频率：每周更新
- 涵盖学科领域：无机化学，有机化学，应用化学，分析化学和化学工程
- 需另购
- **CBNB**
- 收录范围：
  - 来自超过300个核心贸易出版品，市场研究报告，公司报告，期刊和新闻稿以及其它灰色文献
- 更新频率：天天更新
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PaperChem

- 收录超过60万篇摘要资料
- 收录年代：自1967年起
- 每年增加约1.5万篇数据
- 学科范围：纸浆与造纸工业
- 需另购

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




数据库比较

	ScienceDirect	Engineering Village
数据库类型	全文数据库	索摘数据库平台
收录内容	Elsevier旗下出版资源	应用科学和工程 Compendex
特色	1.四大Alert通报 2.图表检索功能	1.精确字段检索 2.控制词汇索引 3.自然语汇索引 4.专家检索语法
更新频率	每日	每周

检索技巧

- 右切截 (*)
  - 输入comput*，可找到

    computer、

    computers、

    computerize

    computerization
- 万用字符(?)
  - 使用问号可以代表一个字母
  - 例如输入wom?n，可以找到 woman 或 women的资料

Engineering Village

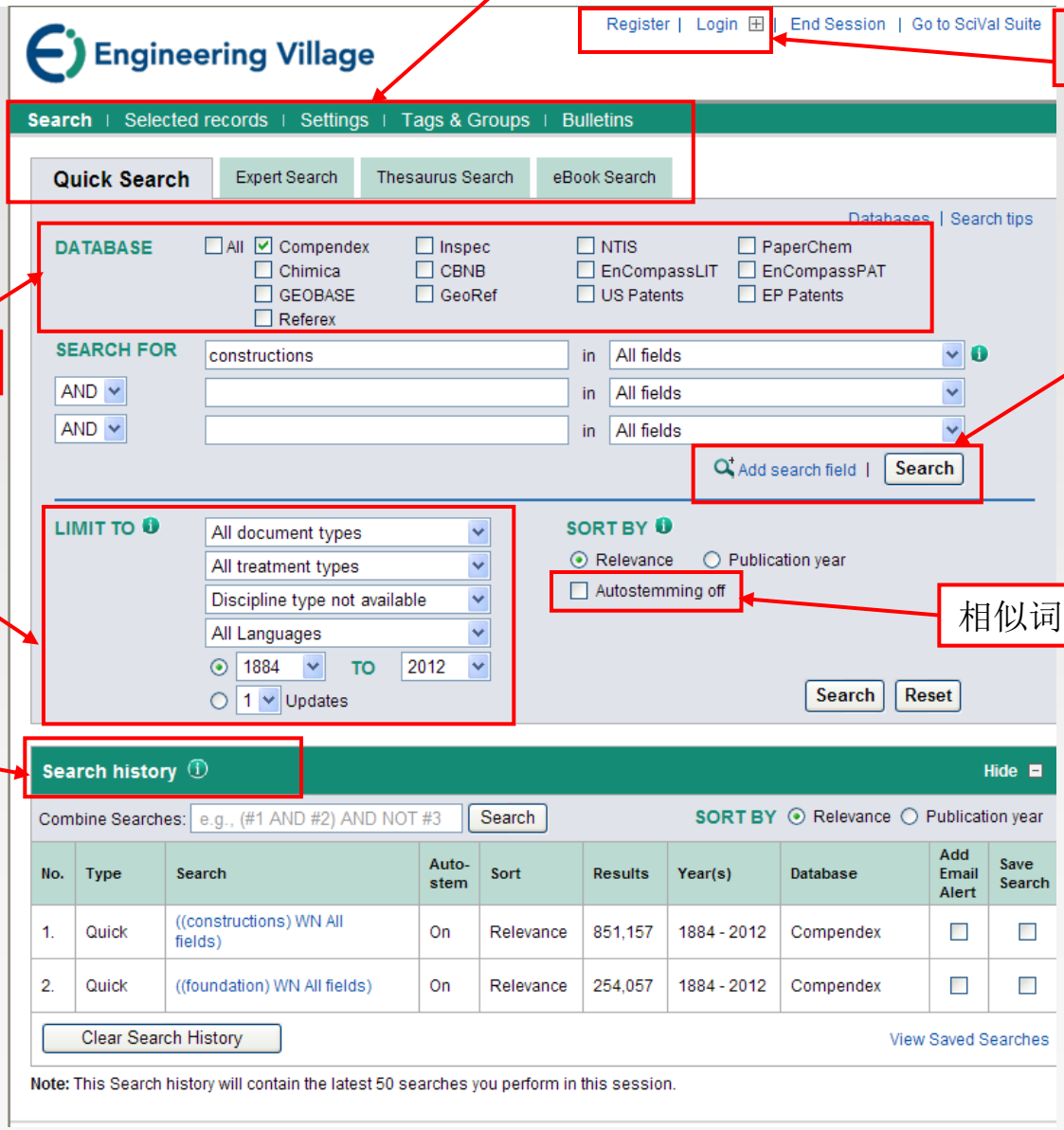
Compendex

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

Quick Search



功能列；快速检索、专家检索、词库检索

注册/登录

选择数据库

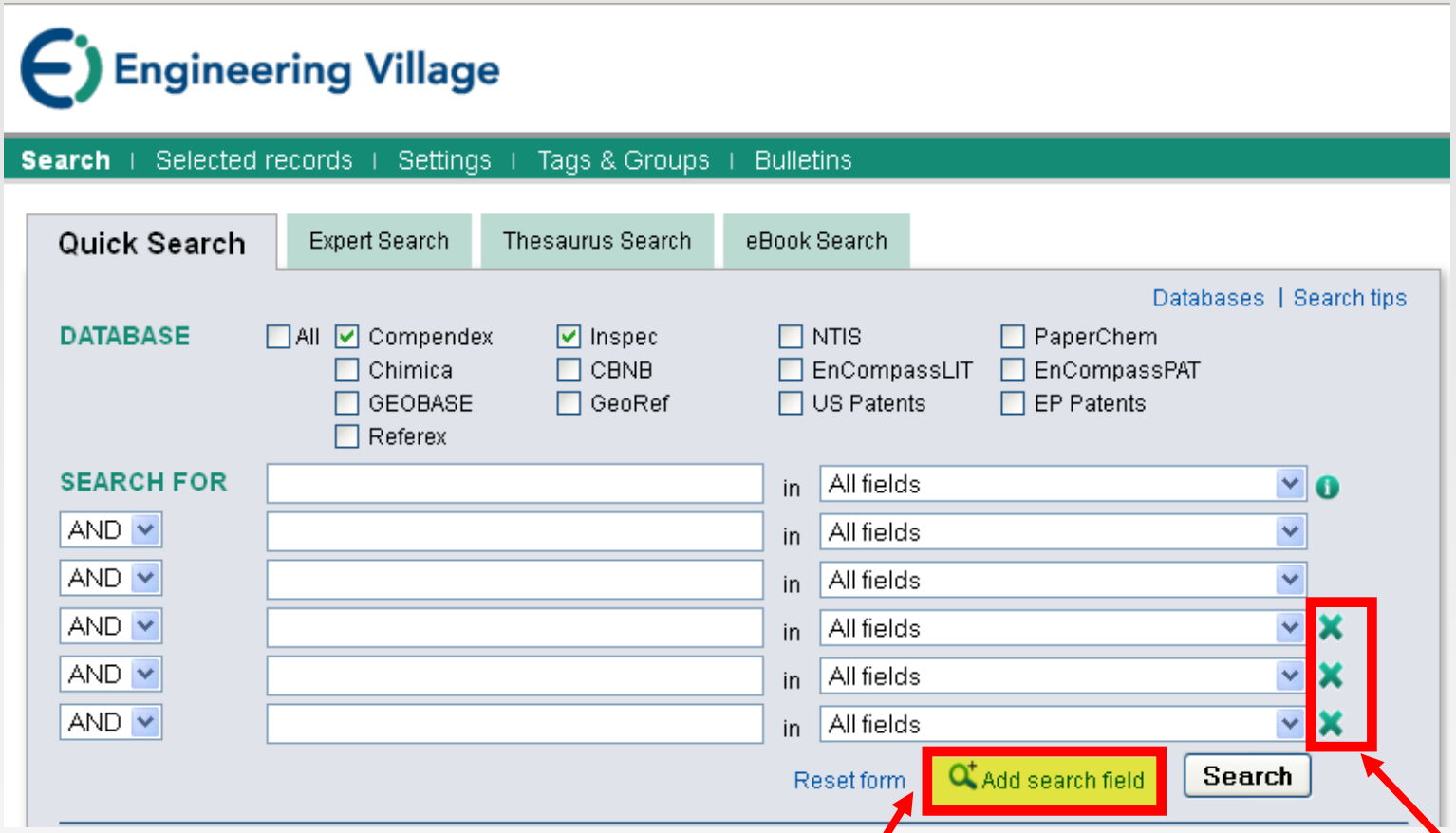
增加检索字段

限制条件和排序选项

相似词检索 (建议不要勾选)

检索历史

Add Search field – 增加检索字段



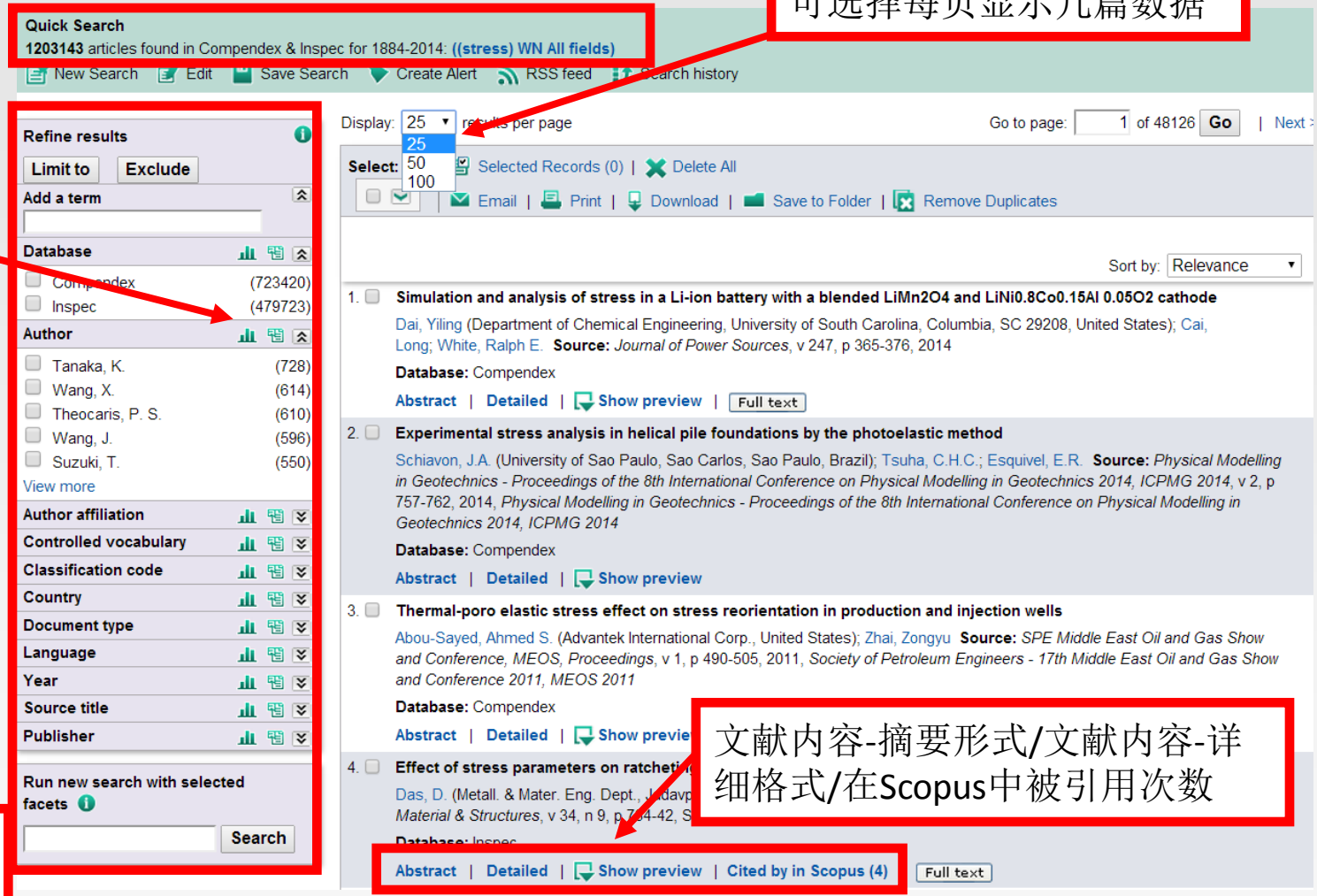
结果页面 - 1

检索结果：
快速检索/1093117篇摘要数据/
数据库： Compendex & INSPECT

可选择每页显示几篇数据

-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



文献内容-摘要形式/文献内容-详细格式/在Scopus中被引用次数

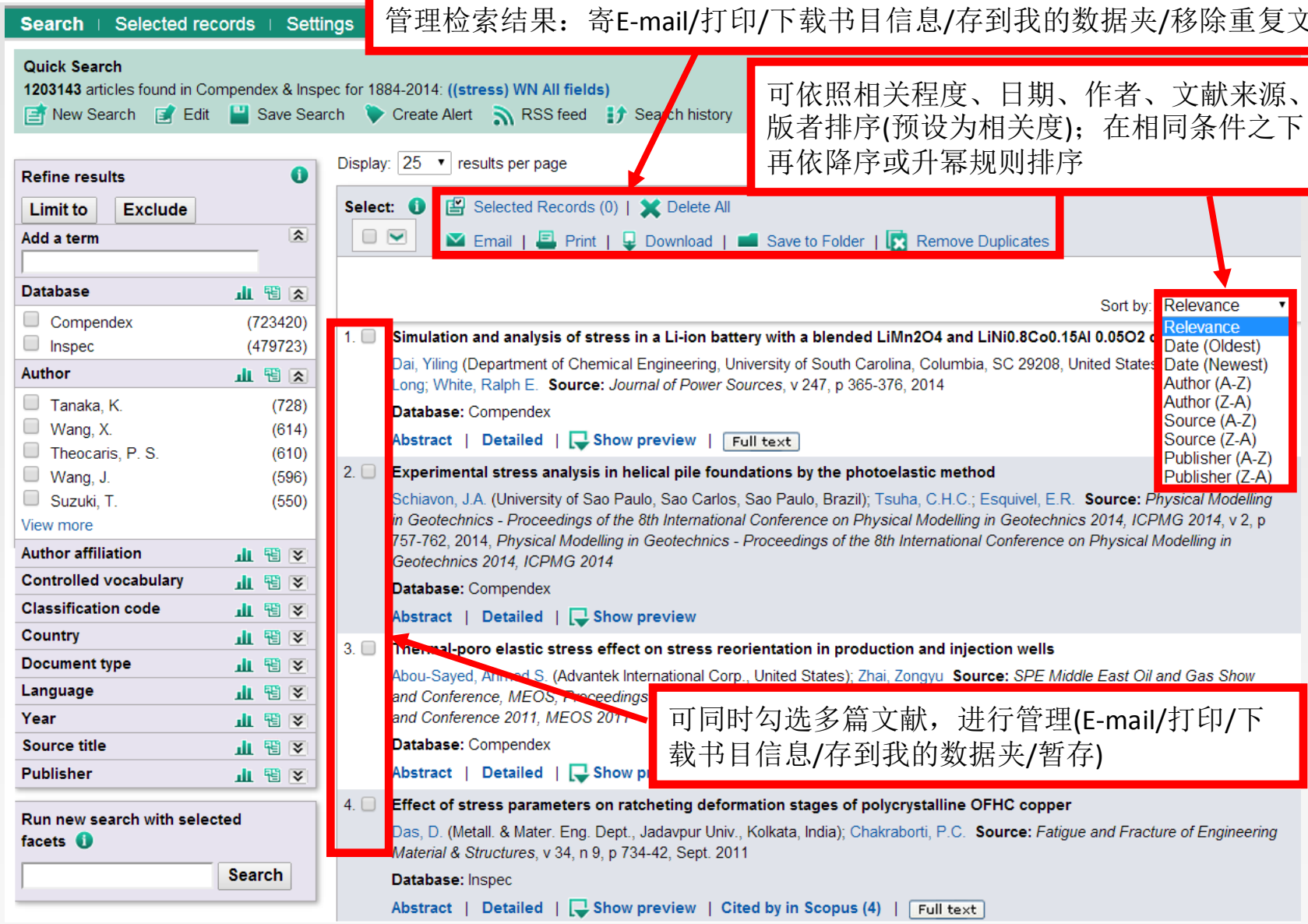
输入关键词开启新的检索

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、作者、文献来源、出版者排序(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)



文献内容：摘要形式

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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.

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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

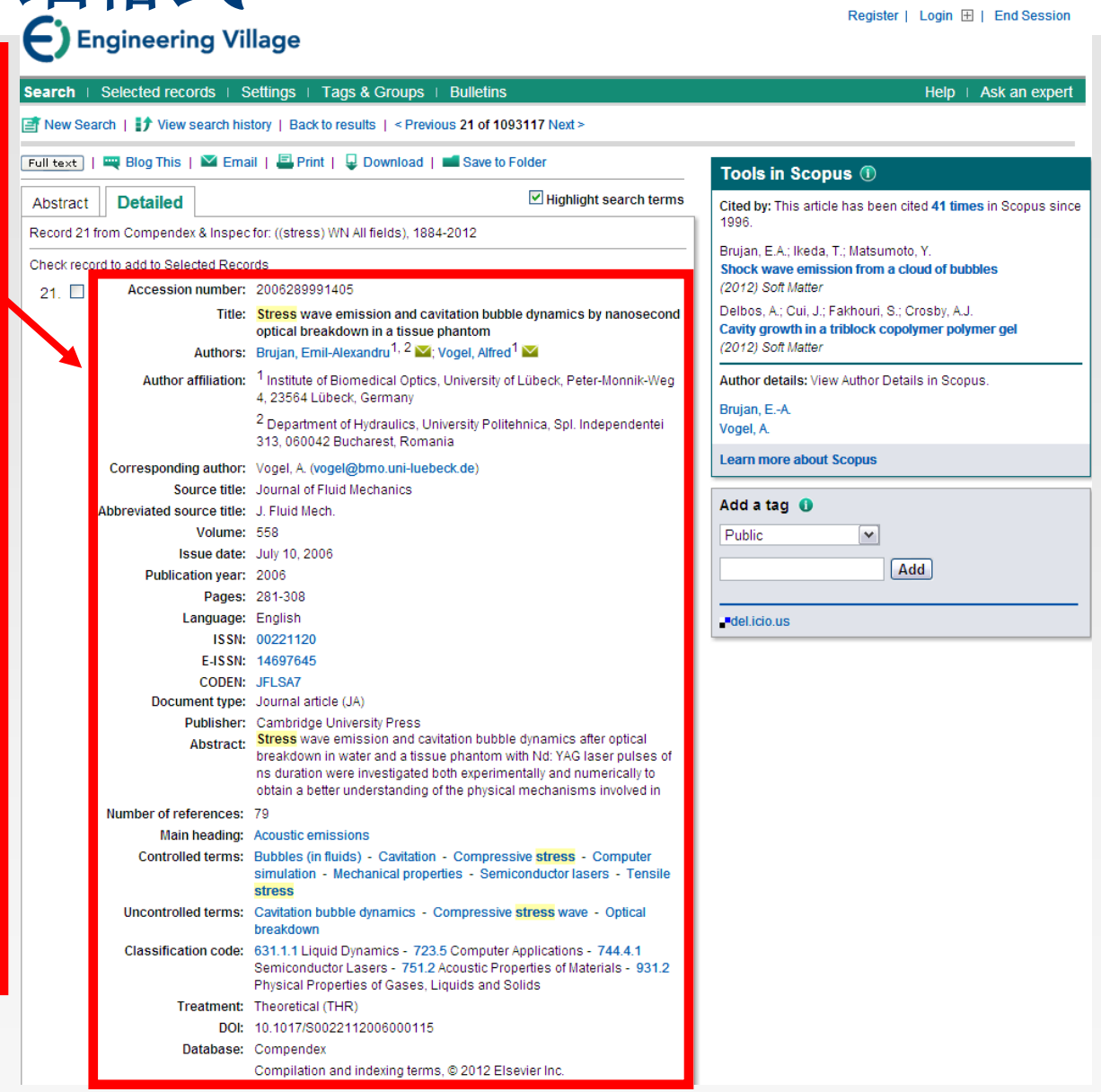
Abstract：文章内容摘要

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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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.

Accession number: 2006289991405

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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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.

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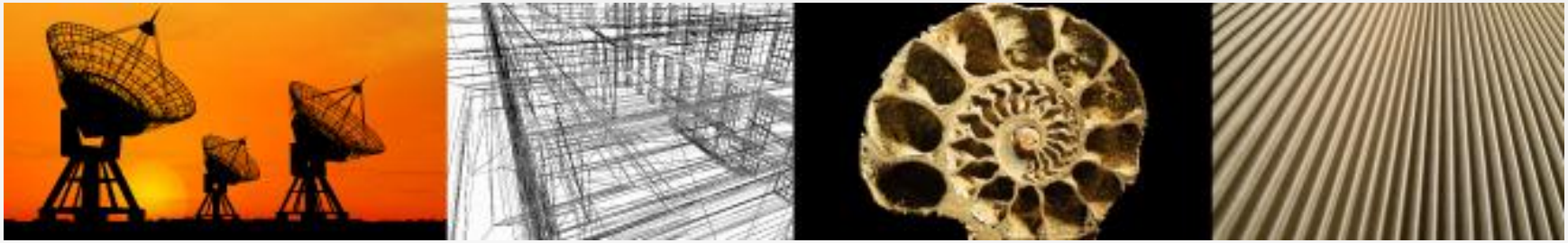
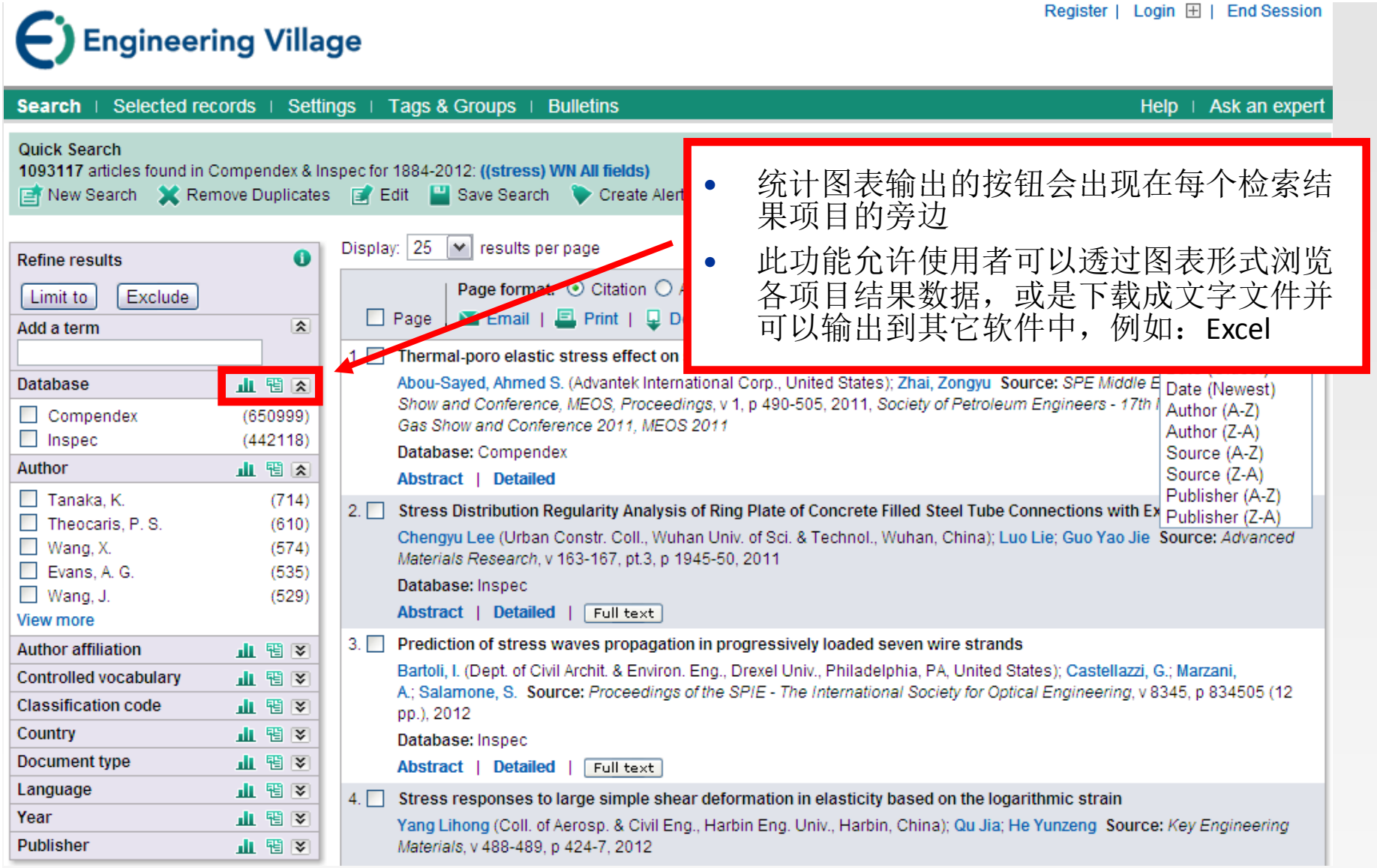
结果中再检索



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

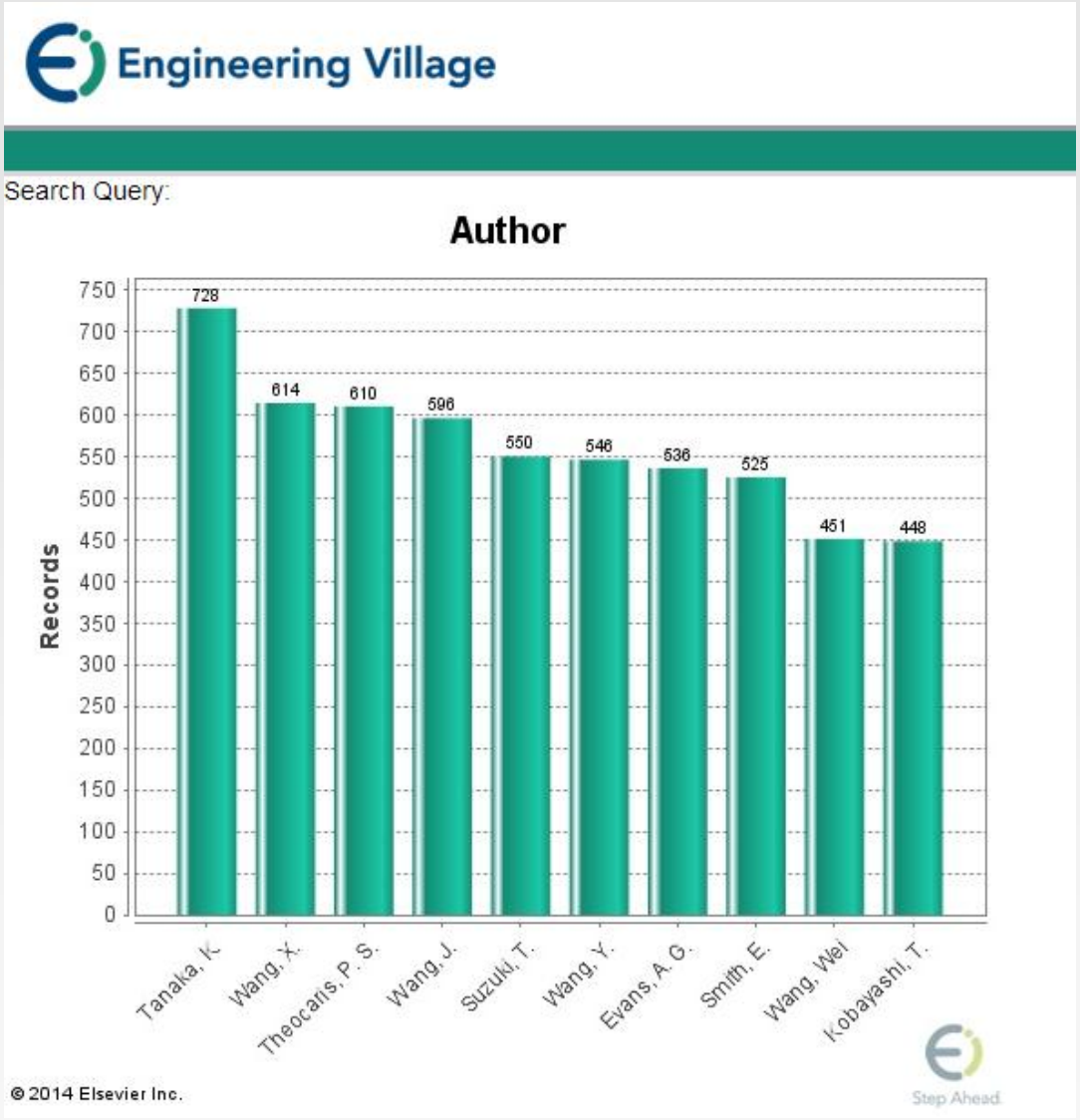


- 统计图表输出的按钮会出现在每个检索结果项目的旁边
- 此功能允许使用者可以透过图表形式浏览各项目结果数据，或是下载成文字文件并可以输出到其它软件中，例如：Excel

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。

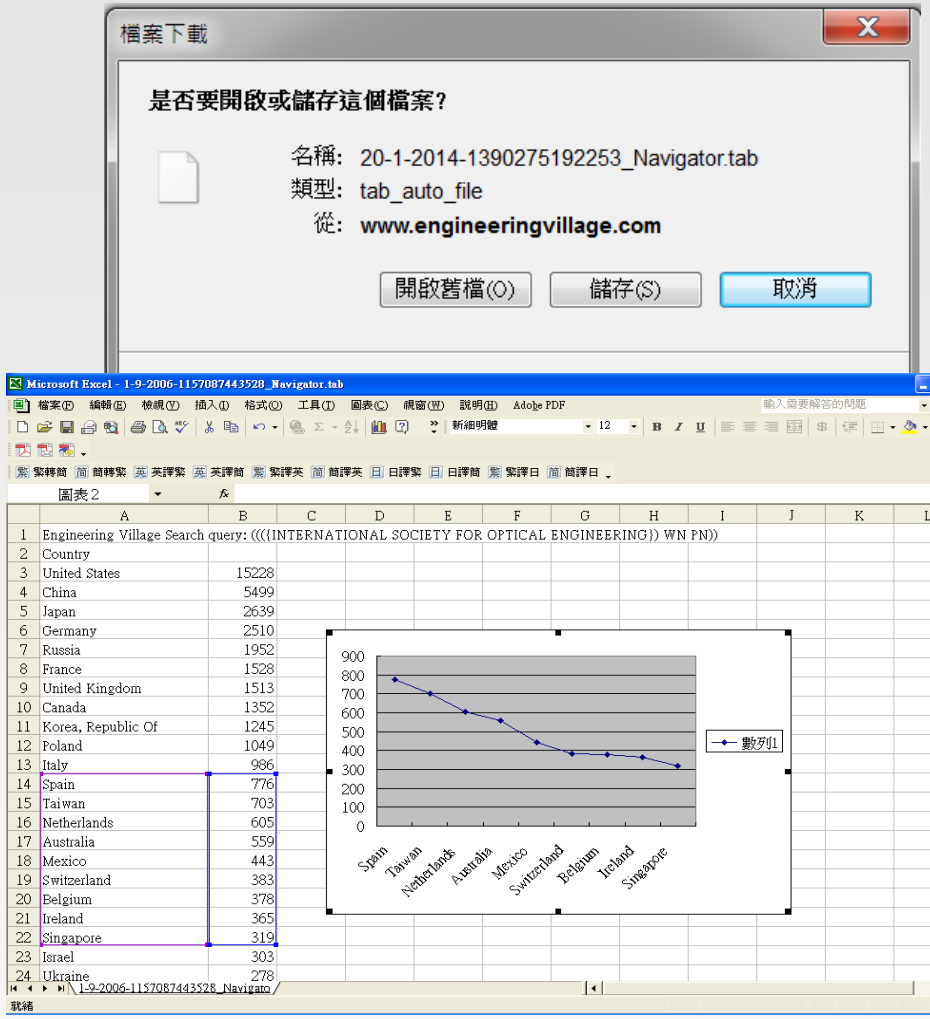
- 例如：右图呈现该检索主题各国家的学者所发表的文献数量!并可将此图片存盘、打印、或是Email。



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



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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

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

Abstract:

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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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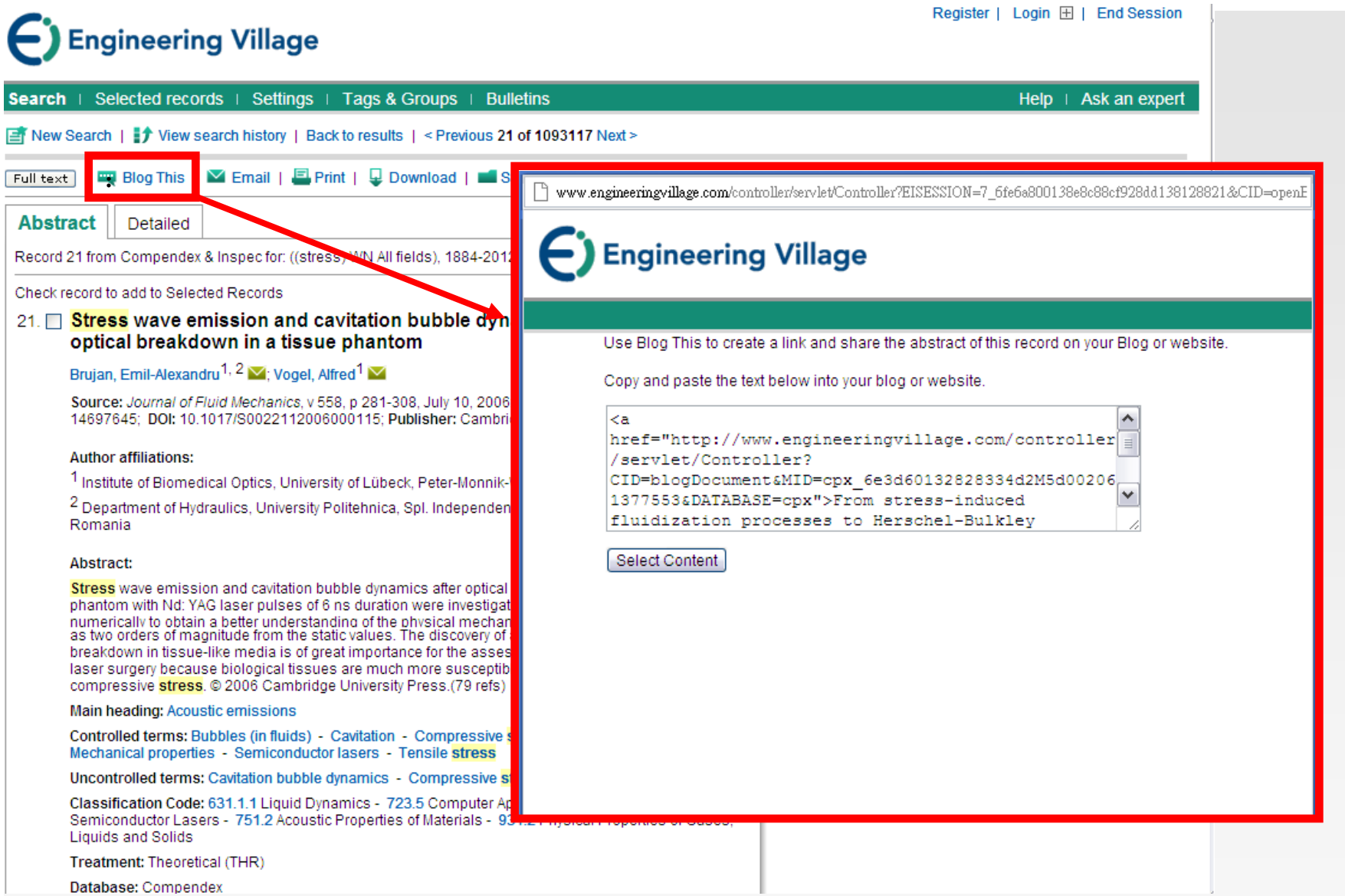
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Brujan, Emil-Alexandru[1, 2]; Vogel, Alfred[1]
Source: Journal of Fluid Mechanics, v 558, p 281-308, July 10, 2006
Author affiliations:
Abstract:
Main heading: Acoustic emissions
Controlled terms: Bubbles (in fluids) - Cavitation - Compressive
Mechanical properties - Semiconductor lasers - Tensile stress
Uncontrolled terms: Cavitation bubble dynamics - Compressive
Classification Code: 631.1.1 Liquid Dynamics - 723.5 Computer Ap
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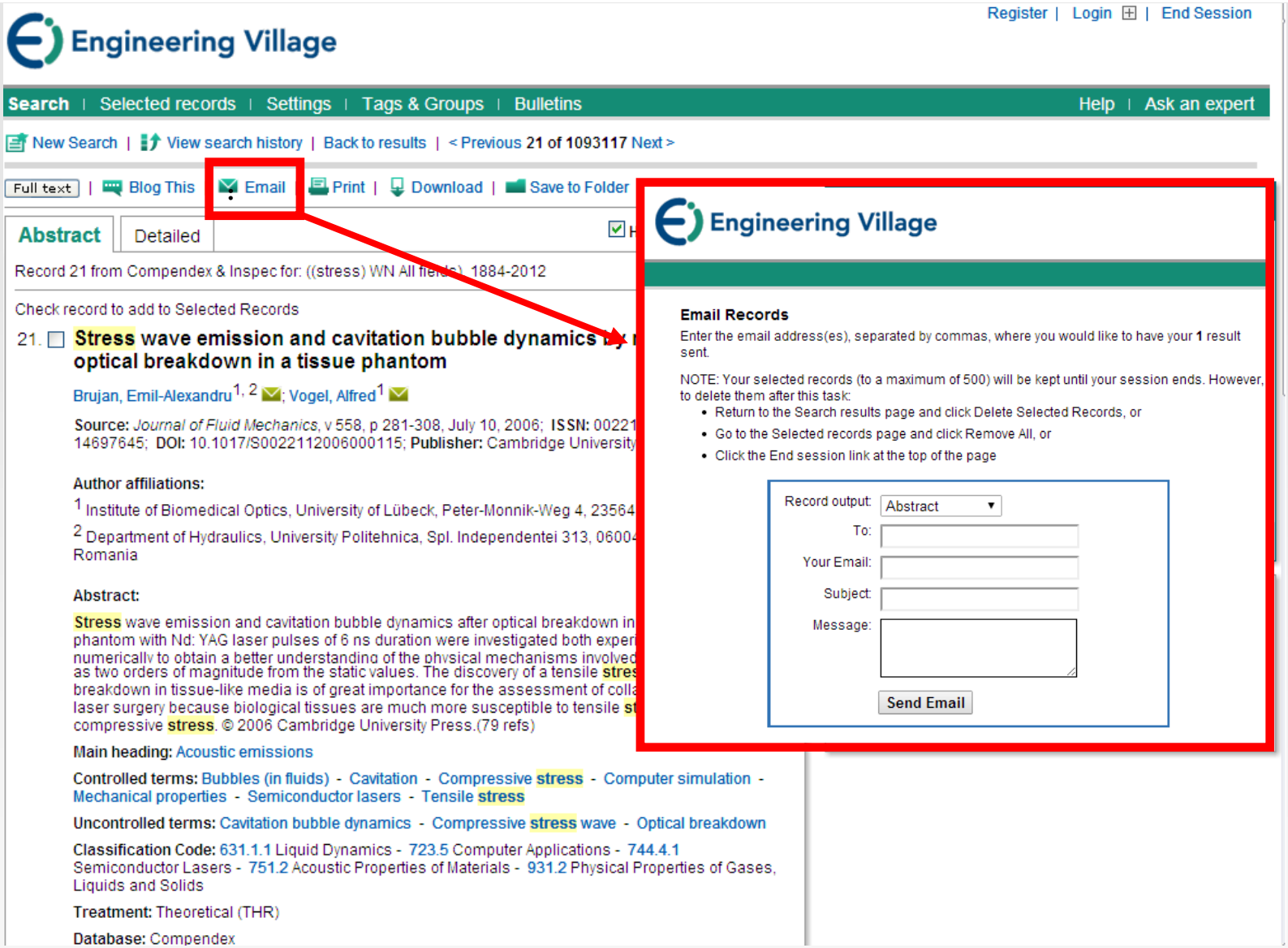

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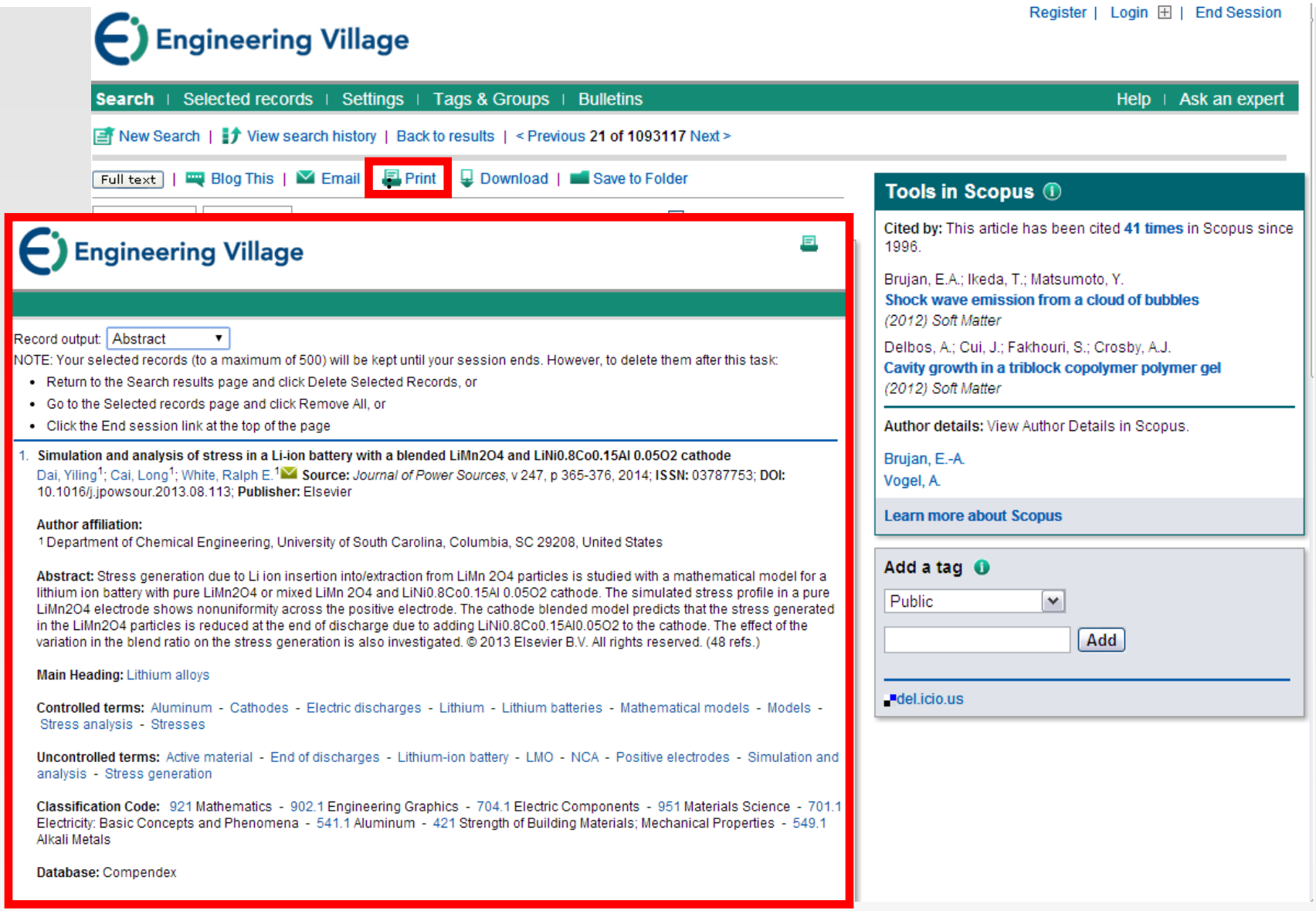
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1. Simulation and analysis of stress in a Li-ion battery with a blended LiMn2O4 and LiNi0.8Co0.15Al 0.05O2 cathode
Dai, Yiling[1]; Cai, Long[1]; White, Ralph E.[1] Source: Journal of Power Sources, v 247, p 365-376, 2014; ISSN: 03787753; DOI: 10.1016/j.jpowsour.2013.08.113; 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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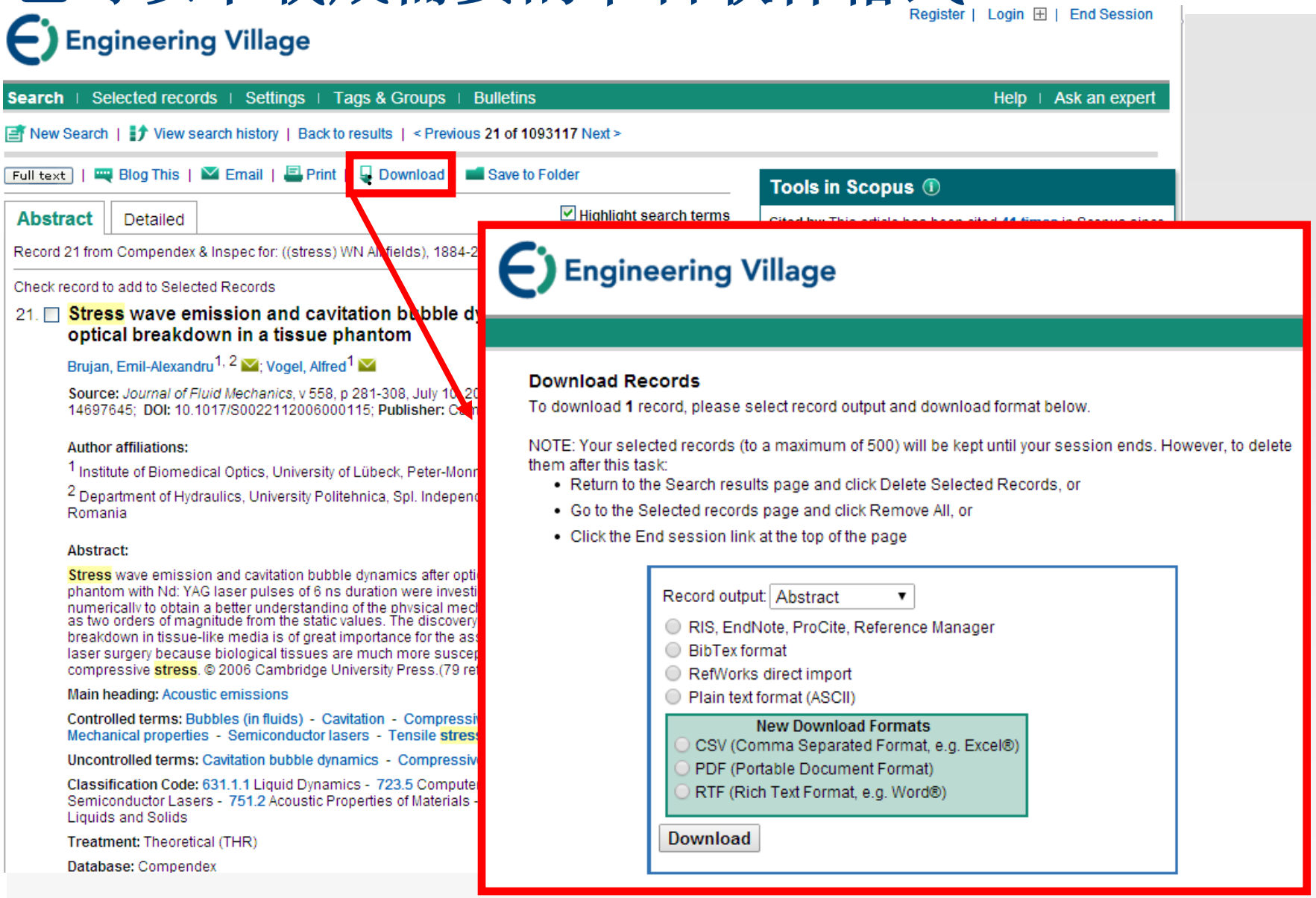

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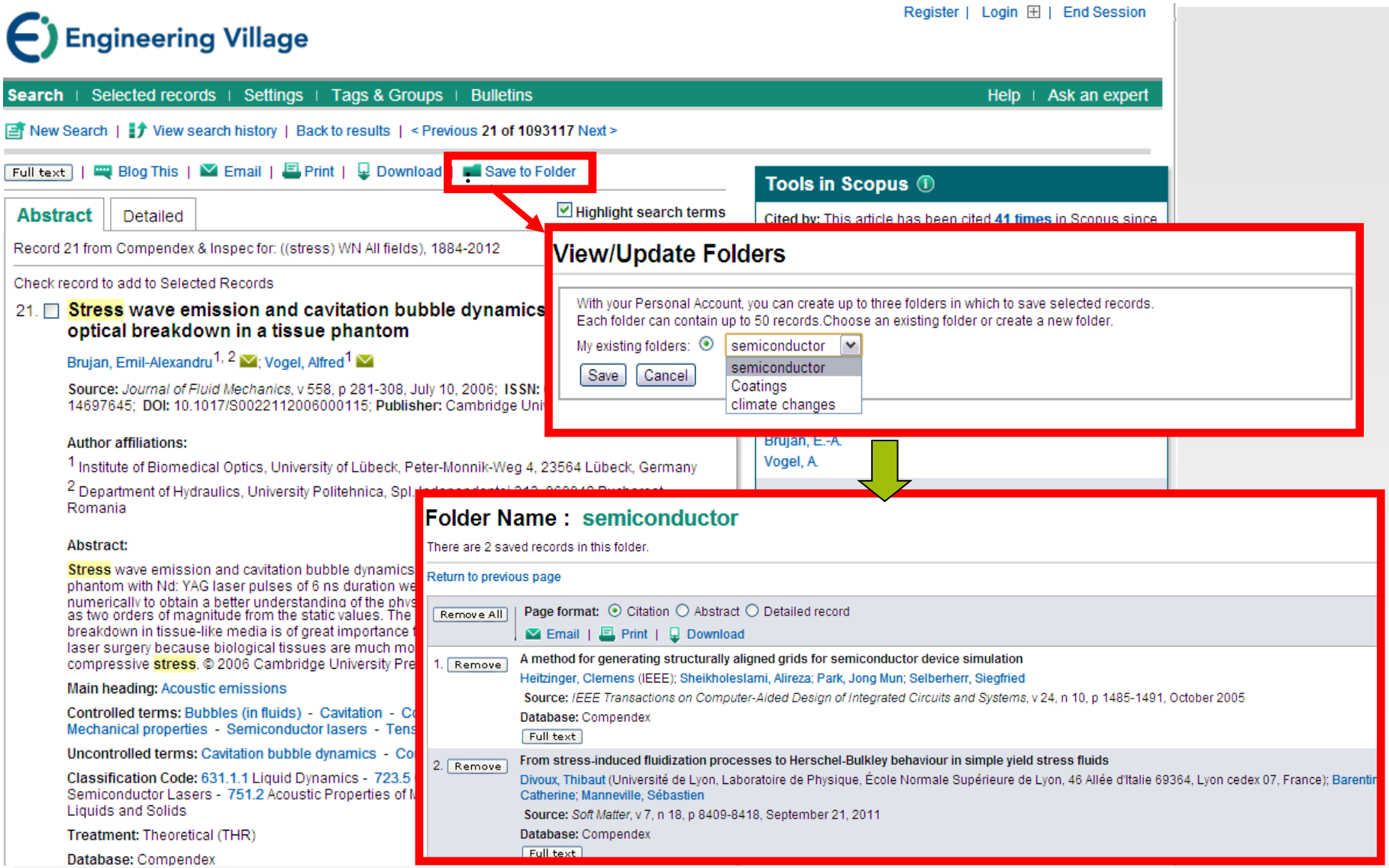

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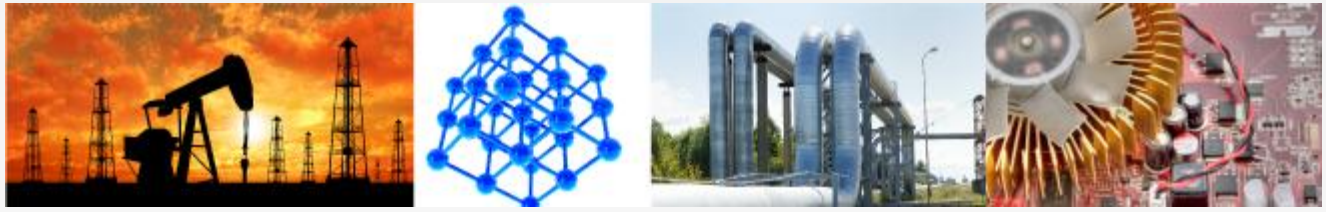

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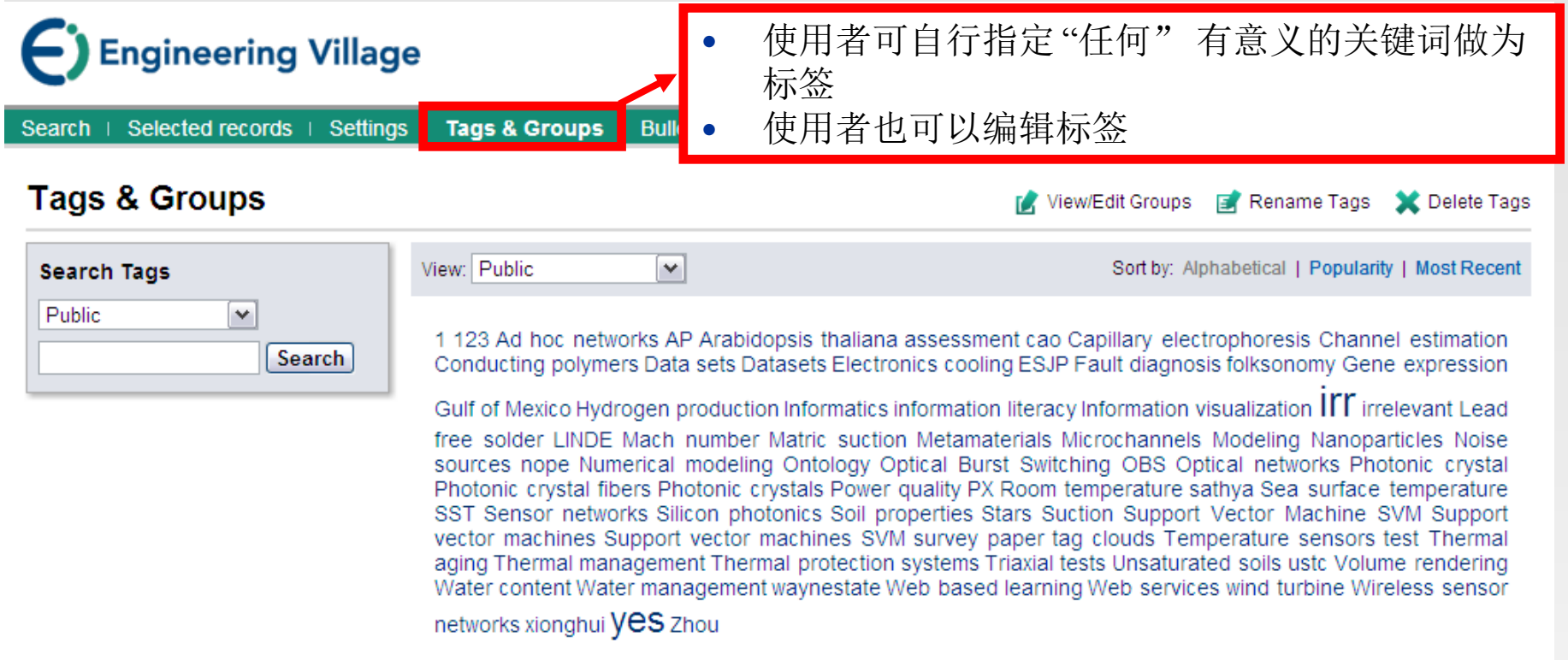

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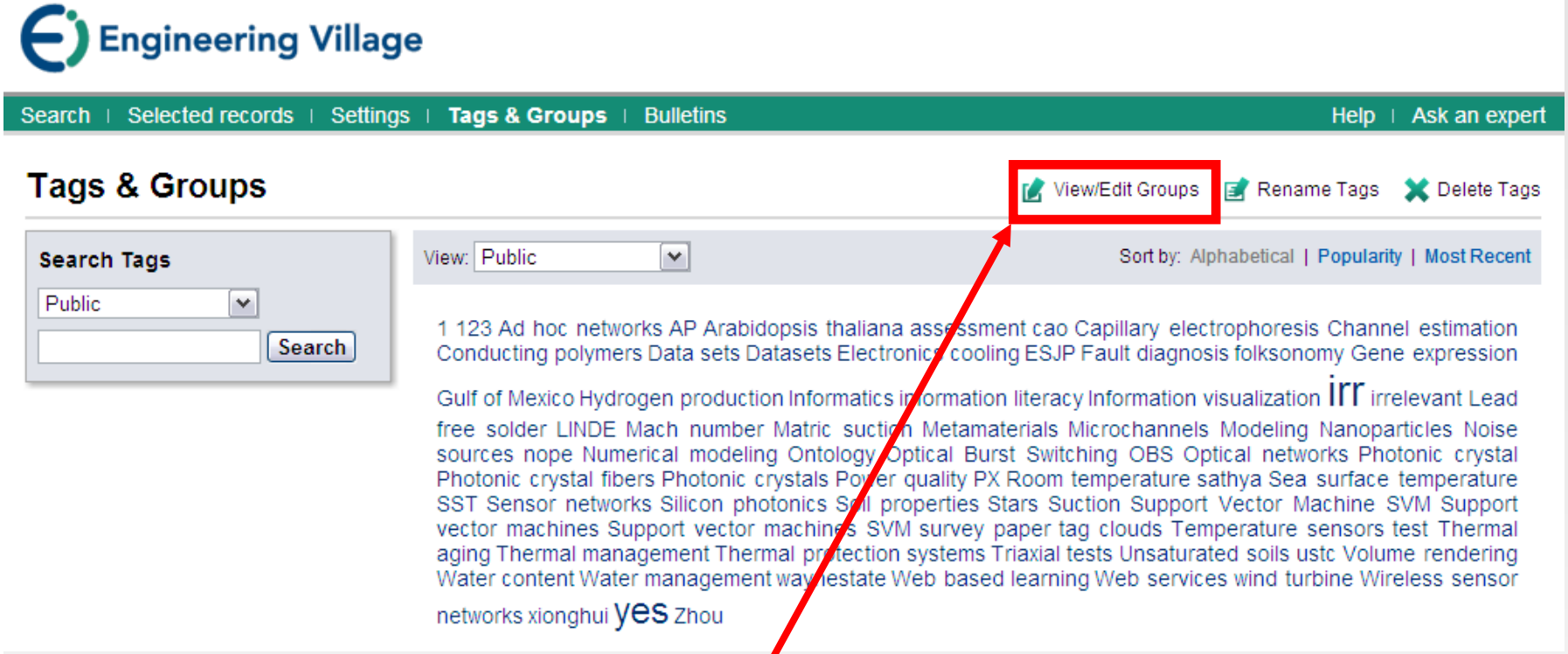
Tag 团队间的分享



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- 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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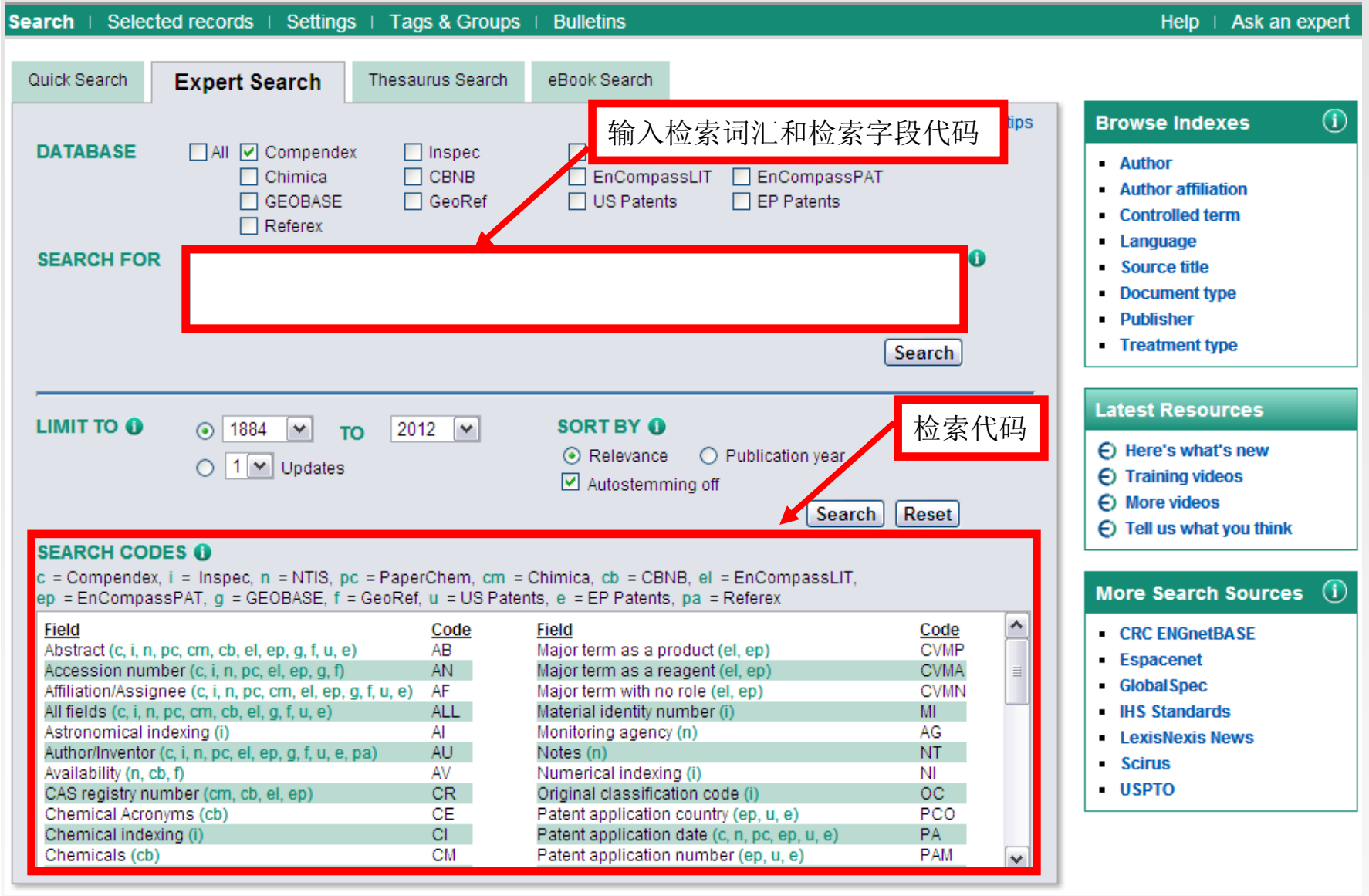

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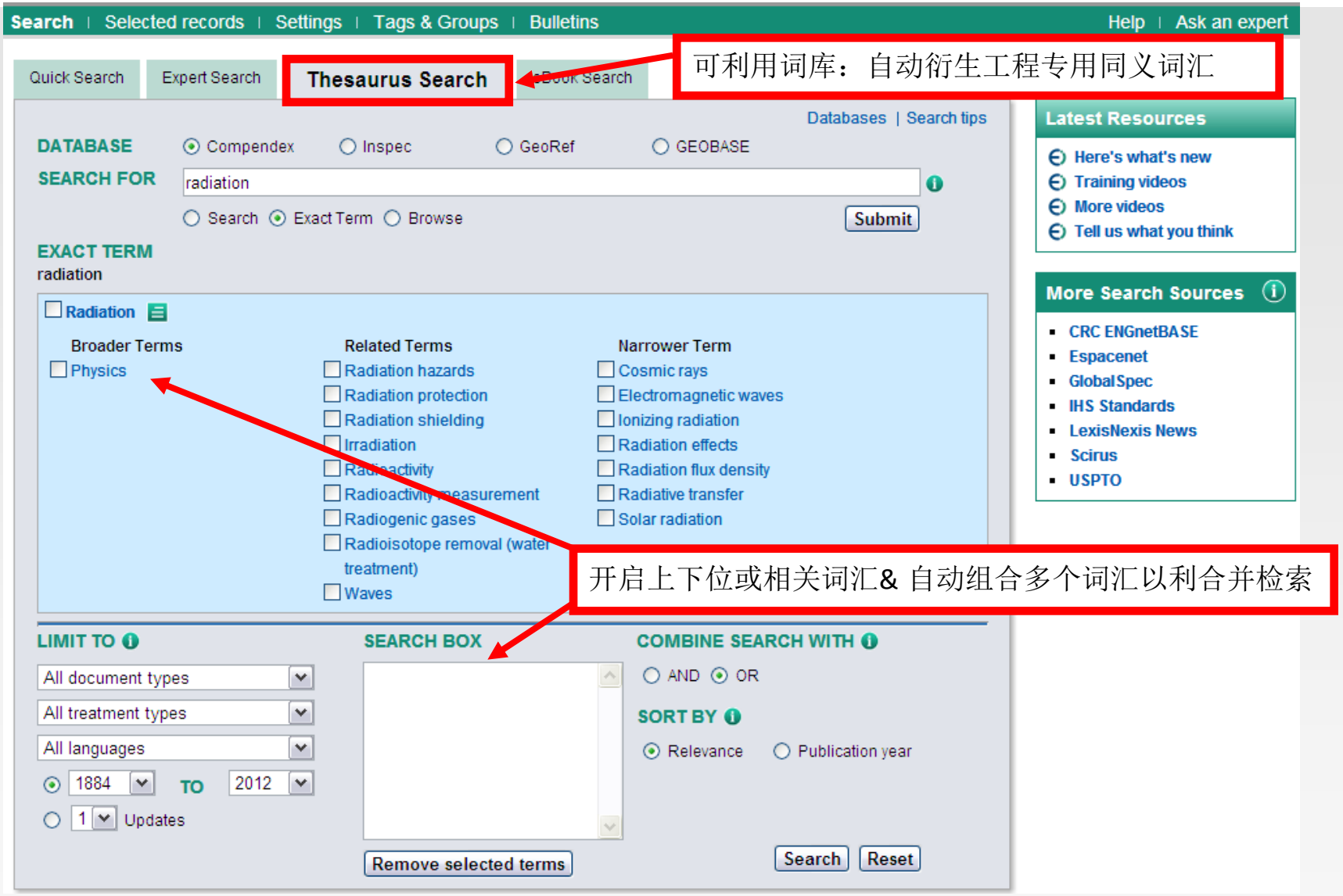

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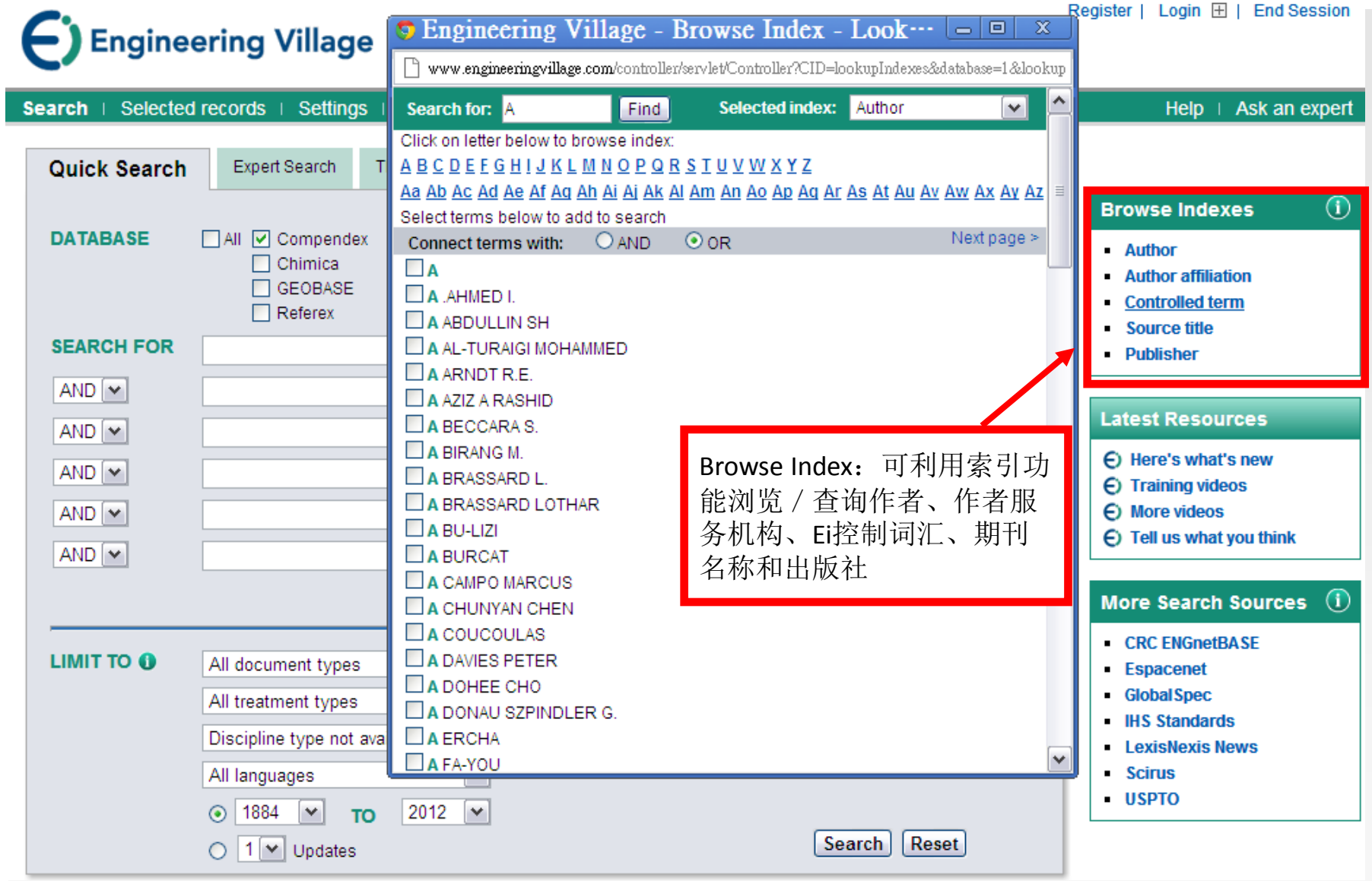

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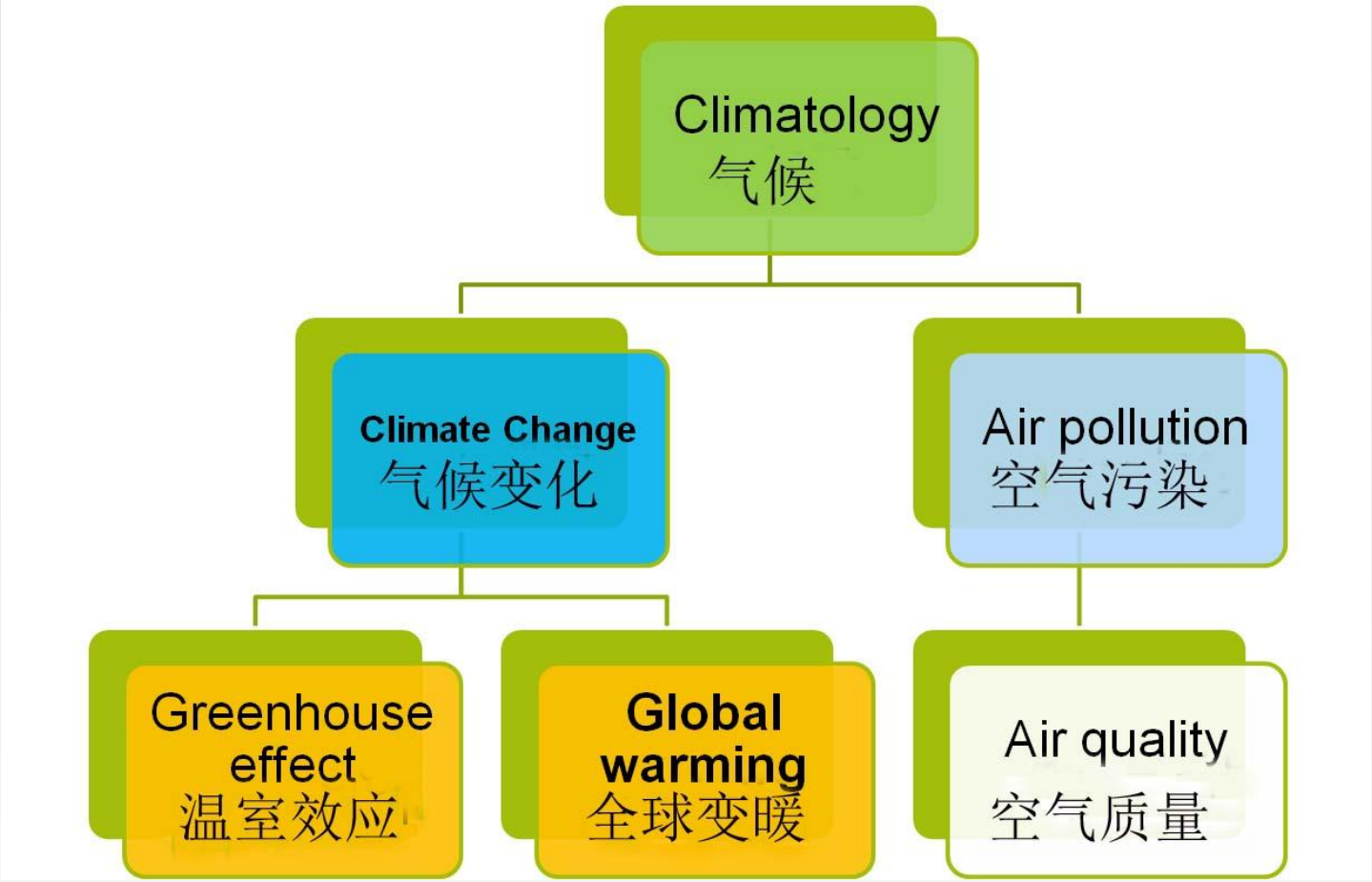

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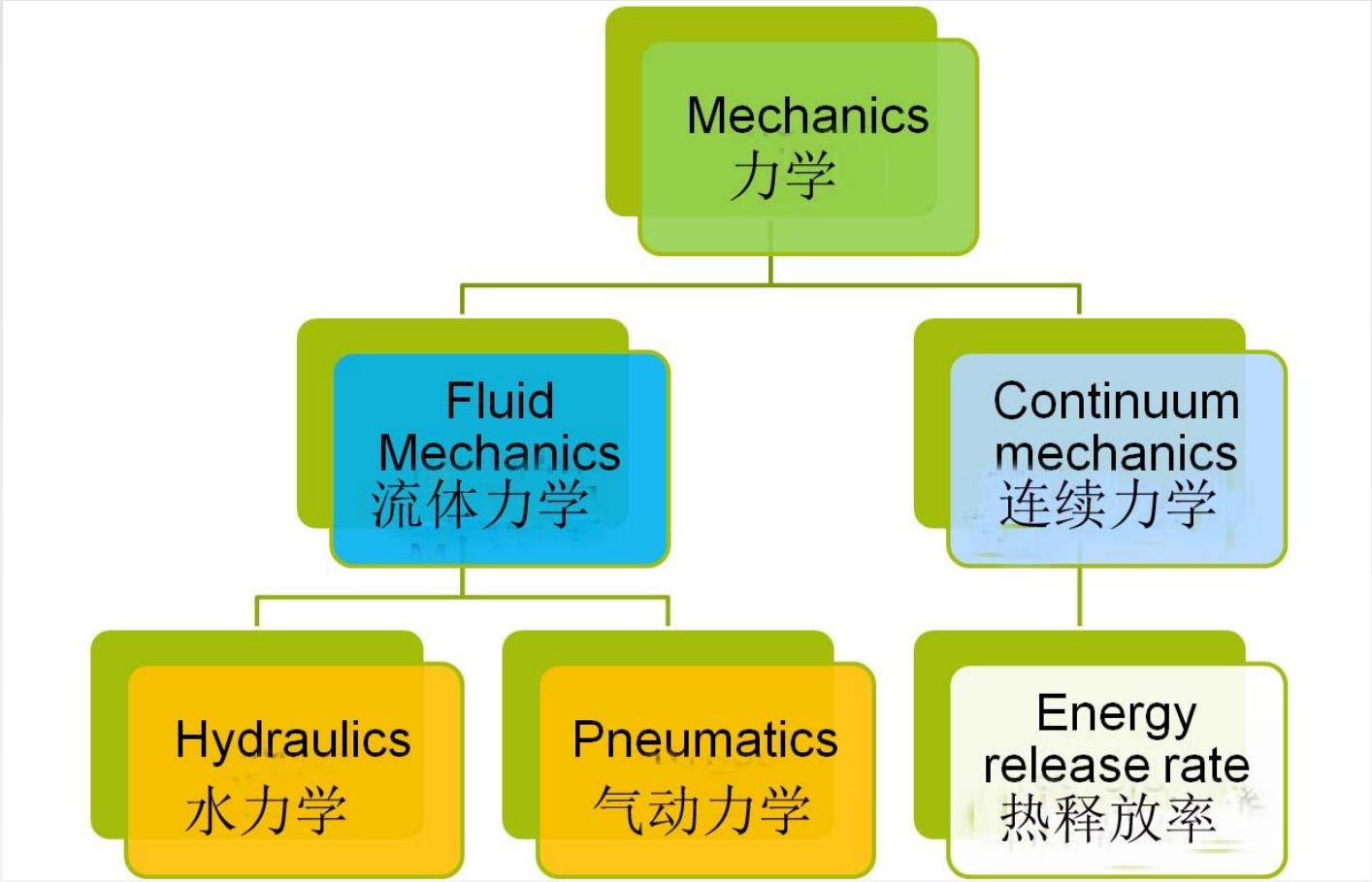

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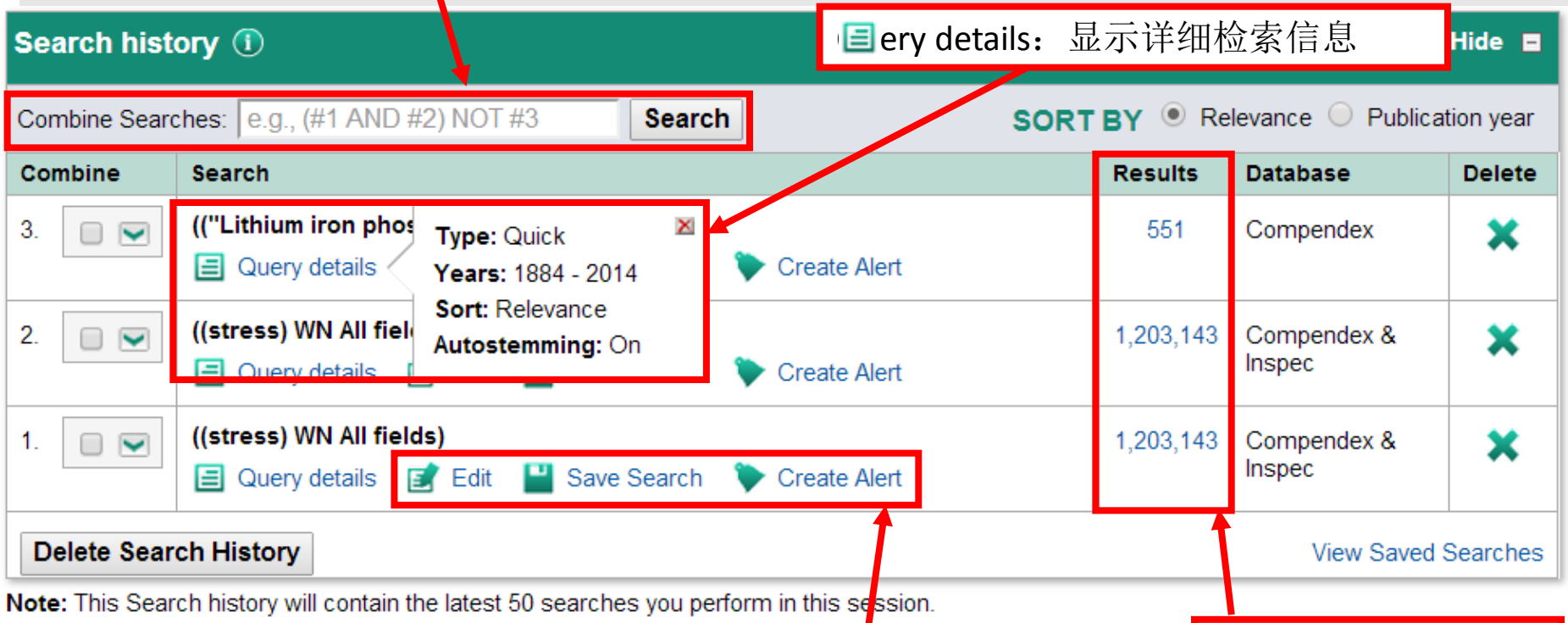

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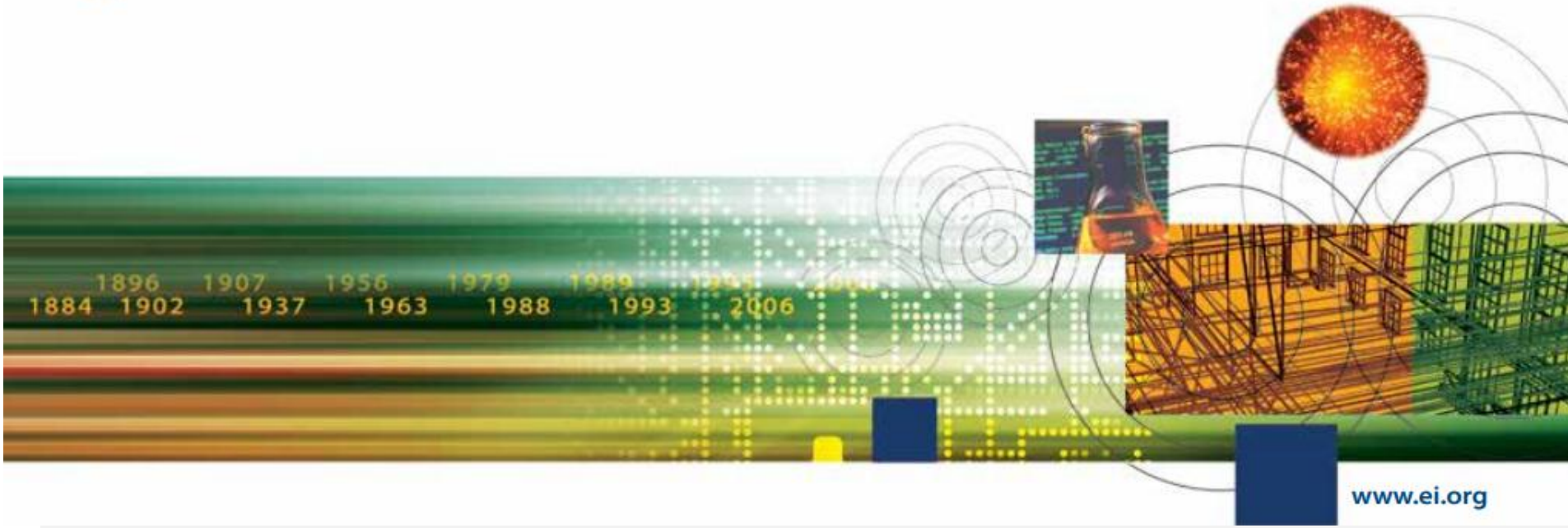

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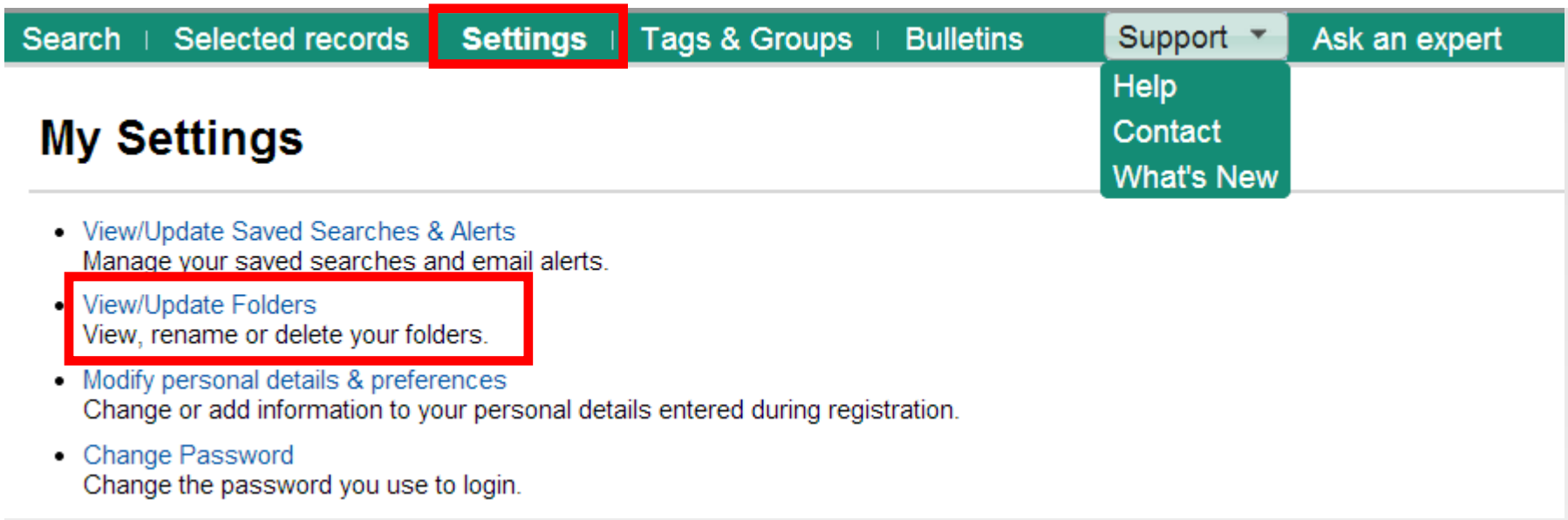

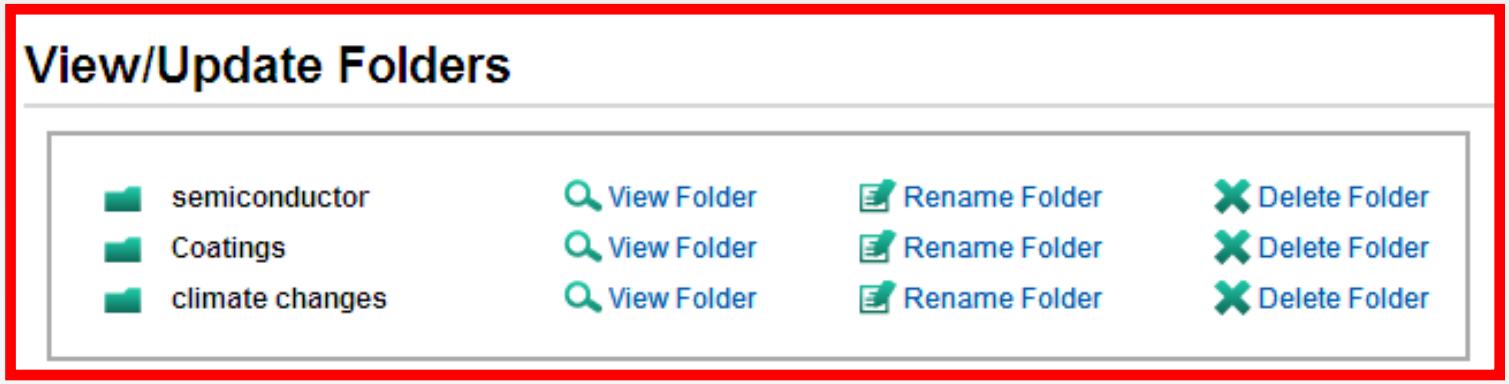

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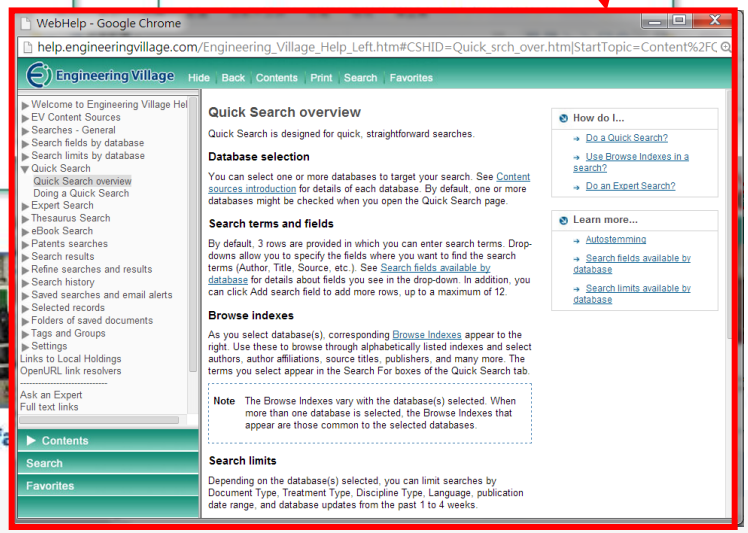

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