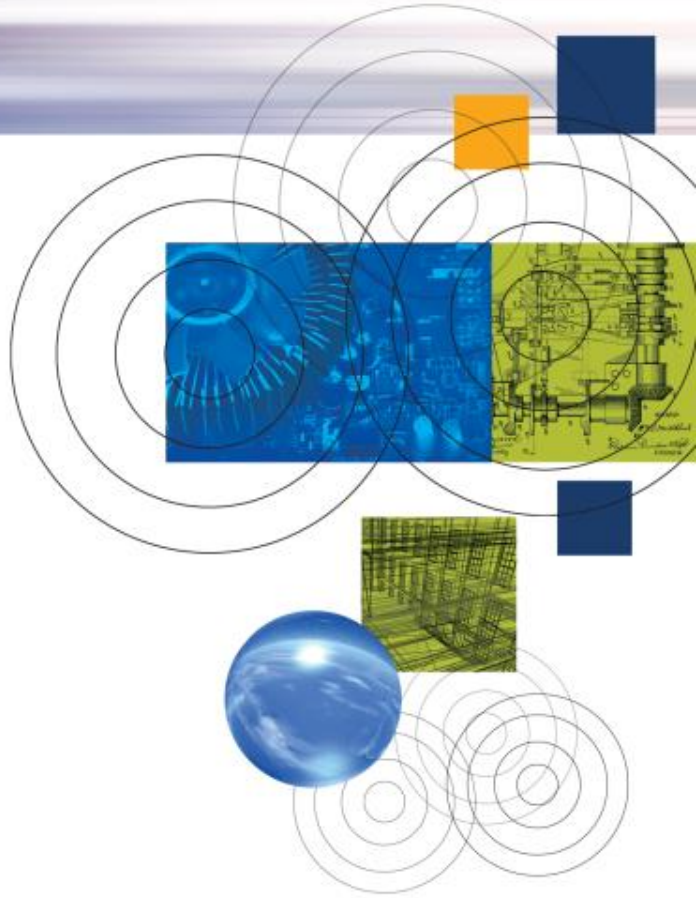


Elsevier
資料庫教育訓練 -

Engineering Village

www.ei.org

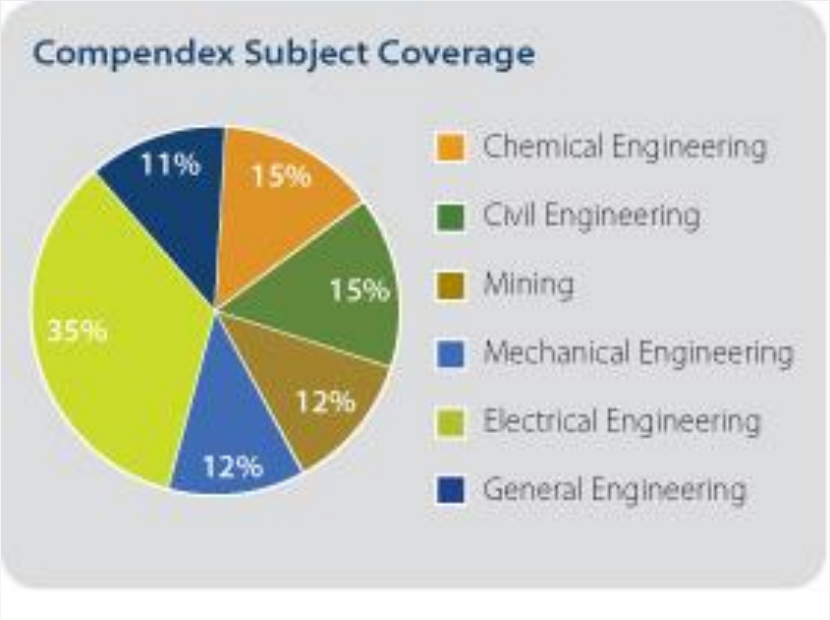
Engineering Village介面與收錄內容

- 由美國Elsevier Engineering Information Inc. 所出版，提供工程領域的資訊

- EV 平台介面下 內涵各種多元資料庫：
  - **Compendex** (其中Compendex回溯期刊需另購)
  - INSPEC (需另購)
  - NTIS (需另購)
  - Referex Engineering 電子書 (需另購)
  - GeoBASE (需另購)
  - GeoRef (需另購)
  - EnCompassLIT & EnCompassPAT (需另購) Chimica&CBNB (需另購)
  - PaperChem (需另購)
  - USPTO / EPO專利 (需另購)
  - Scirus

Compendex

- 收錄年代：1969年至今
- 5,600多種工程研討會、期刊、商業雜誌、會議記錄和技術報告資料
- 資料量：超過 1580 萬筆，每年新增約 65 萬筆資料
- 包含 190 種工程領域學科，如：**化學工程**、**土木工程**、**礦業**、**機械工程**、**電子工程**、環境、結構、材料科學、固態物理學、超導體、生物工程學、能源、光學、空氣和水污染、固態廢棄物處理、道路運輸、運輸安全、應用工程、品質管理、工程管理等
- 收錄超過55個國家的出版品
- 更新頻率：每週
- 回溯期刊： 1884年-1968年



Compendex – 細部學科領域

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

EV特色

檢索利器

1.Refine Results ：提供**多種欄位**支援精確搜尋，並可做成圖表

　如：控制詞彙、索書號、文件形式、刊名等(共10種)

2.專家思維：控制詞彙 – Thesaurus 索引典

3.使用者思維：自然語彙 – Tag 標籤

4.專業的專家檢索模式：可自行輸入搜尋語法

資料庫比較

	ScienceDirect	Engineering Village
資料庫類型	全文資料庫	索摘資料庫平台
收錄內容	Elsevier旗下出版資源	應用科學和工程 Compendex
特色	1.四大Alert通報 2.圖表搜尋功能	1.精確欄位搜尋 2.控制詞彙索引 3.自然語彙索引 4.專家檢索語法
更新頻率	每日	每週

檢索技巧

- 右切截 (*)
  - 輸入**comput***，可找到

    computer、

    computers、

    computerize

    computerization
- 萬用字元(?)
  - 使用問號可以代表一個字母
  - 例如輸入wom?n ，可以找到 wom**a**n

    或 wom**e**n的資料

Engineering Village

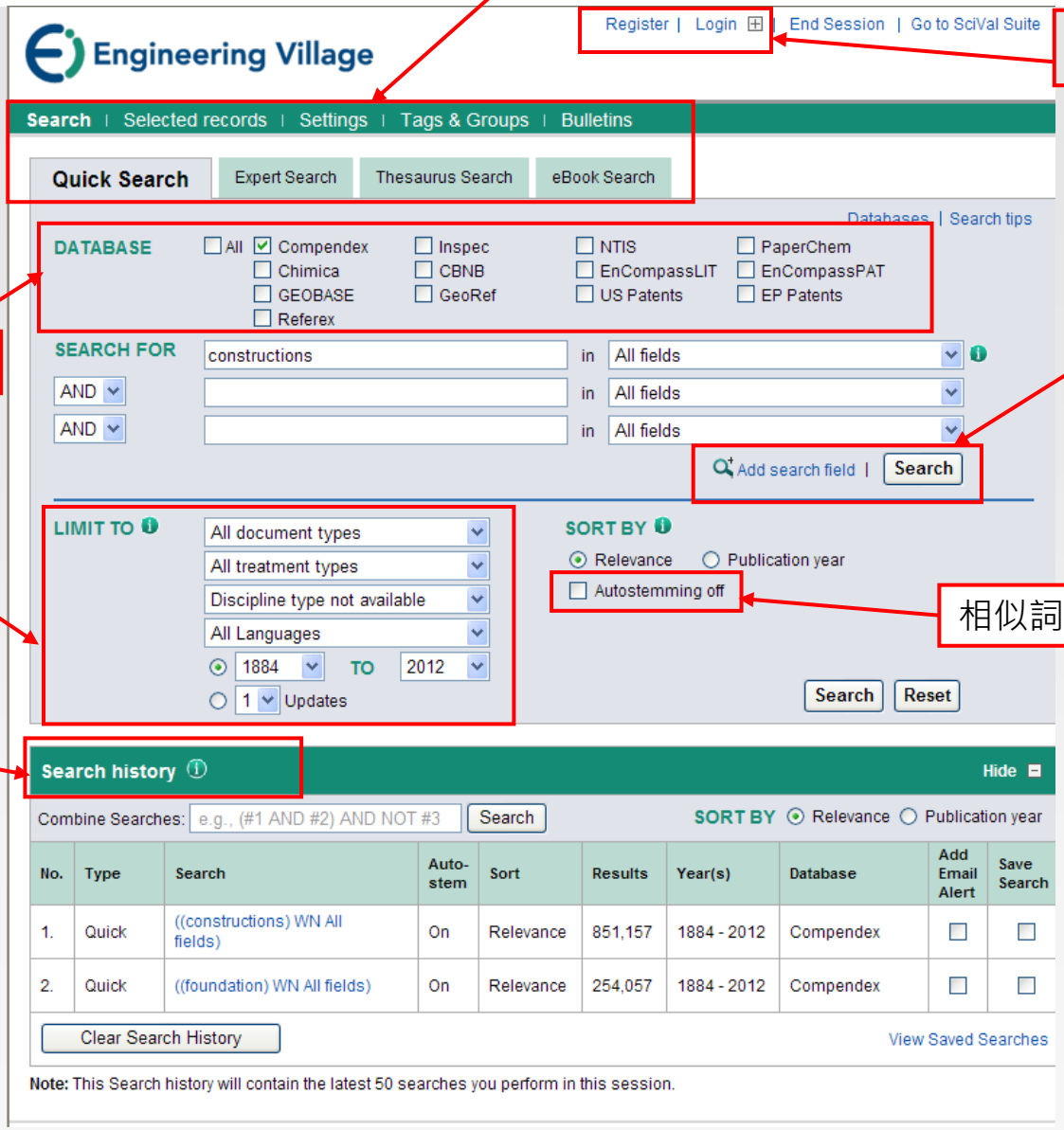
Compendex

檢索方式

- Quick Search - 快速搜尋
- Expert Search - 專家搜尋
- Thesaurus search - 索引典搜尋

Quick Search – 快速搜尋

Quick Search



功能列；快速搜尋、專家搜尋、索引典搜尋

註冊/登錄

選擇資料庫

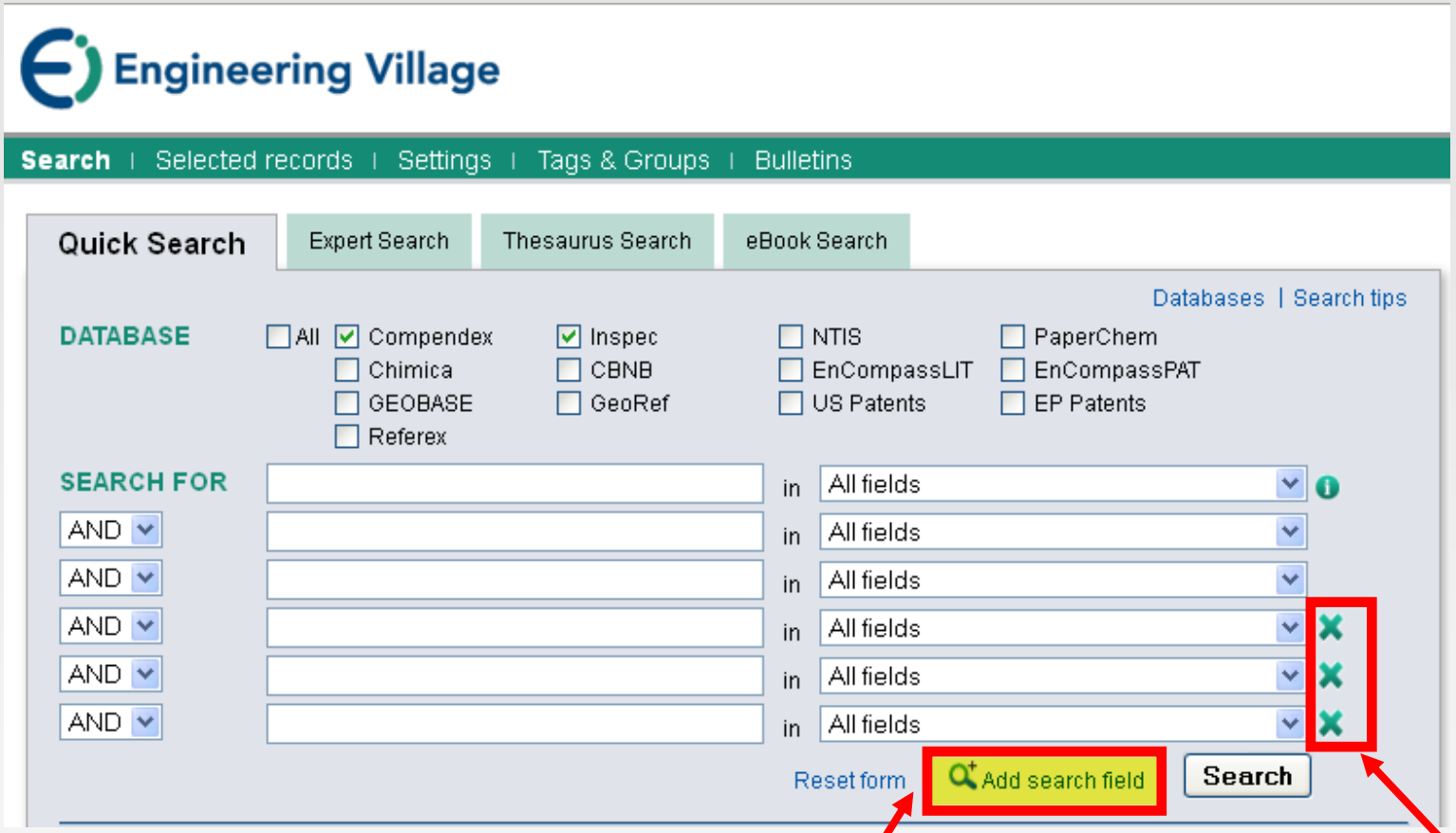
增加搜尋欄位

限制條件和排序選項

相似詞搜尋 (建議不要勾選)

搜尋歷史

Add Search field – 增加搜尋欄位



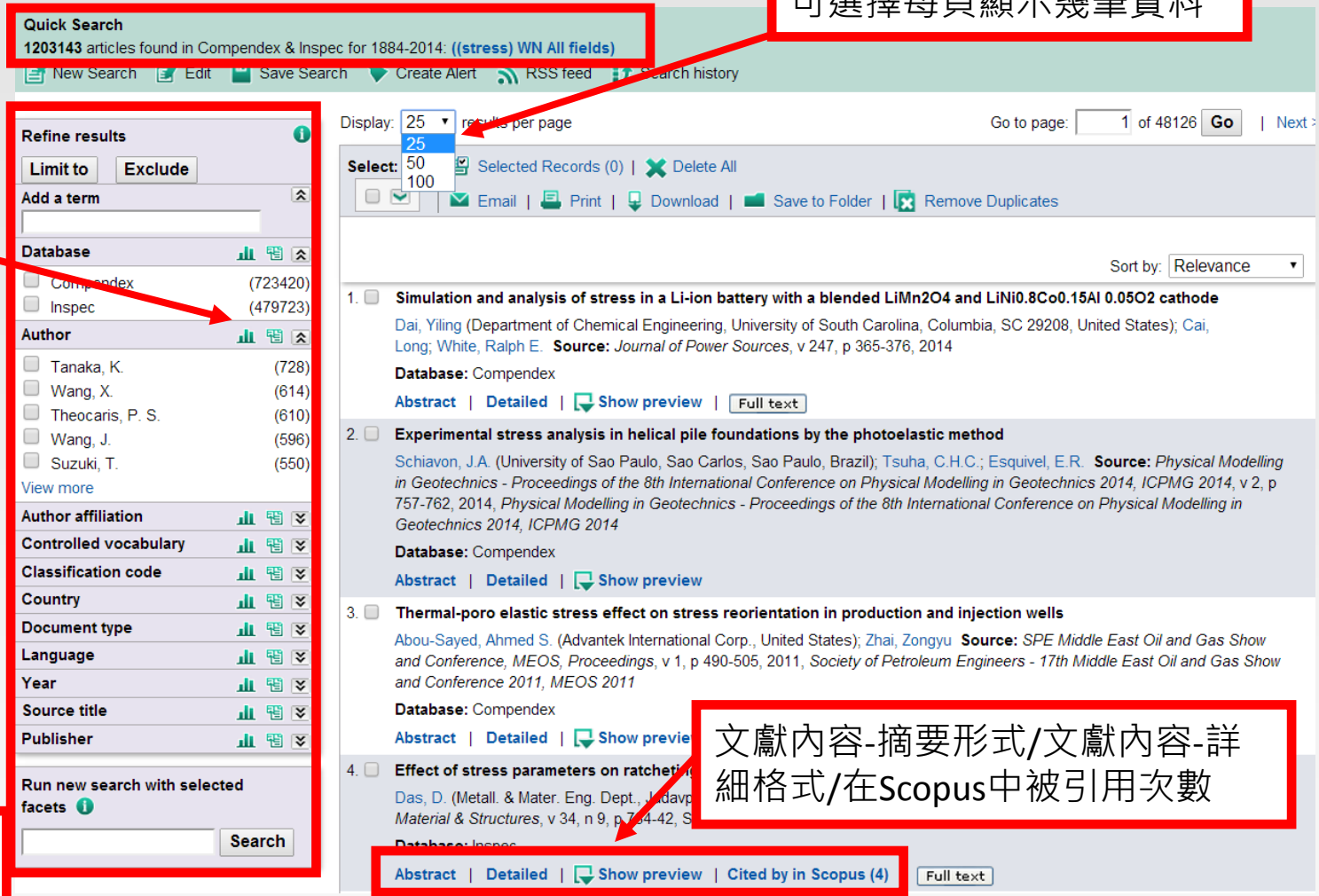
結果頁面 - 1

搜尋結果：
快速搜尋/1093117筆摘要資料/
資料庫： Compendex & INSPECT

可選擇每頁顯示幾筆資料

-圖表顯示
-輸出資料
-打開/關閉限縮欄位詳細資訊

另可用拖曳的方式改變限縮欄位順序



文獻內容-摘要形式/文獻內容-詳細格式/在Scopus中被引用次數

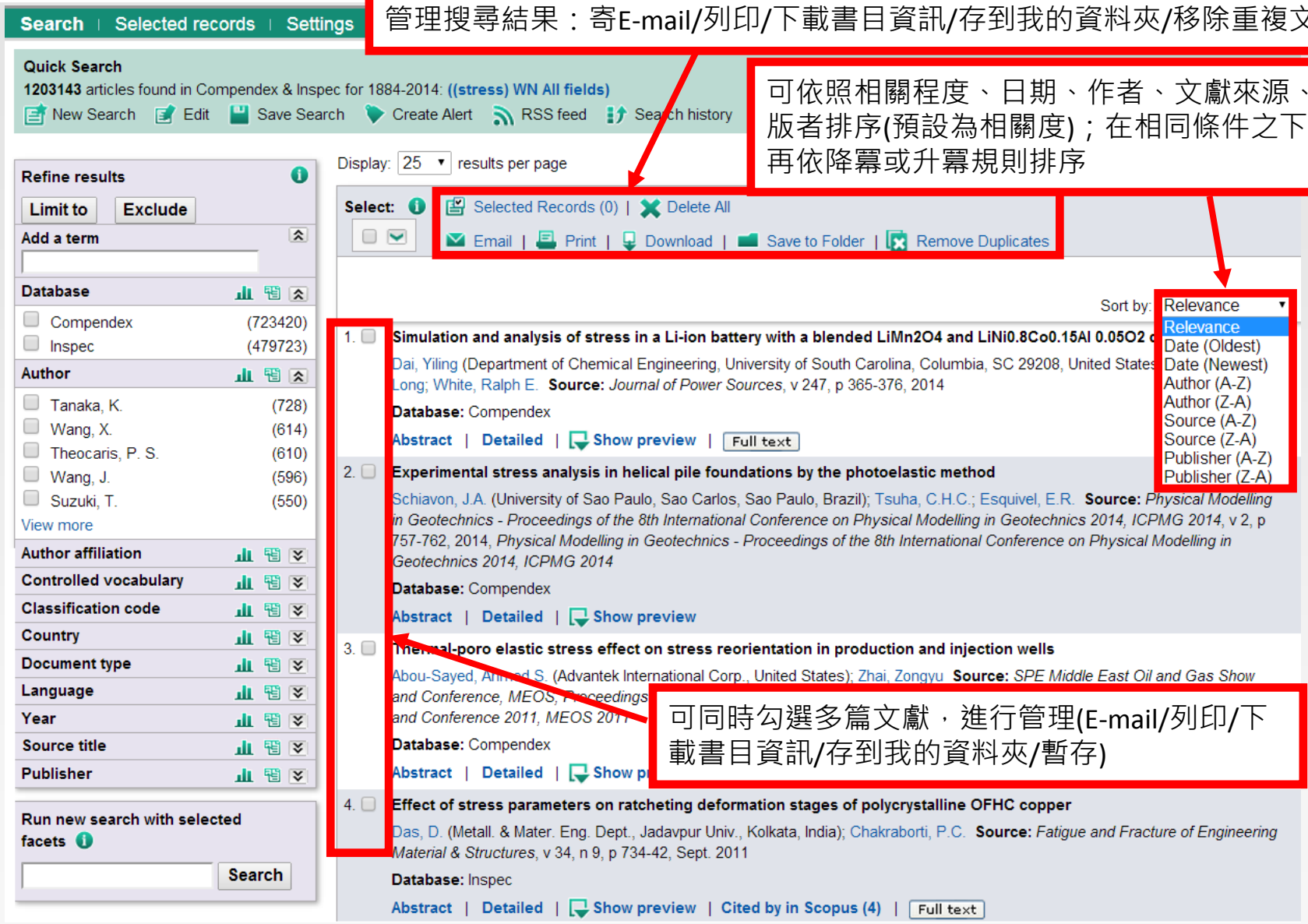
輸入關鍵字開啟新的搜尋

結果頁面 - 2

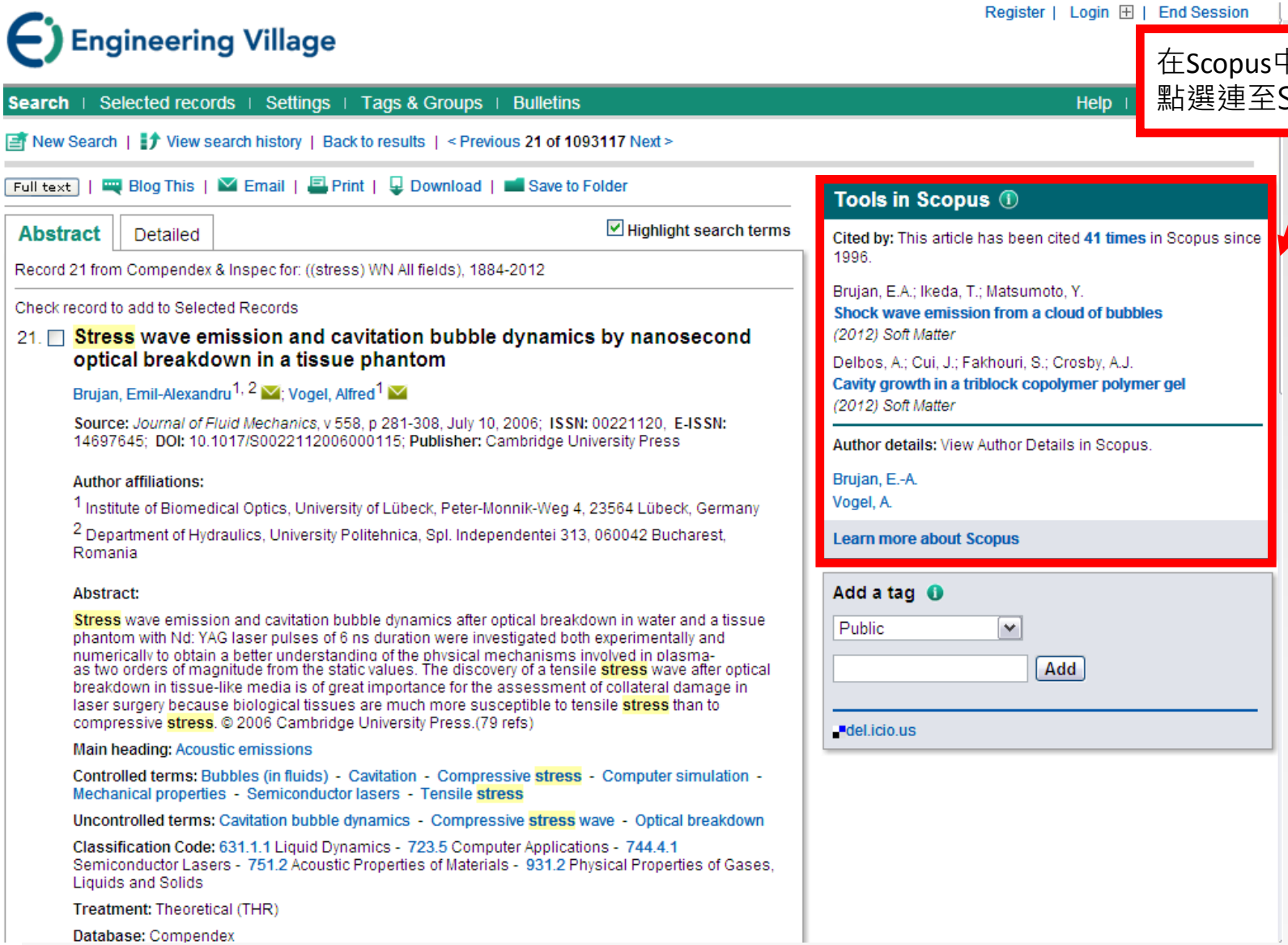
Selected Records：暫存文章
管理搜尋結果：寄E-mail/列印/下載書目資訊/存到我的資料夾/移除重複文章

可依照相關程度、日期、作者、文獻來源、出版者排序(預設為相關度)；在相同條件之下，再依降冪或升冪規則排序

可同時勾選多篇文獻，進行管理(E-mail/列印/下載書目資訊/存到我的資料夾/暫存)



文獻內容：摘要形式



Engineering Village

Register | Login | End Session

在Scopus中引用之文獻，點選連至Scopus資料庫!

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

Add a tag

Public

Add

del.icio.us

文獻內容：詳細格式

Authors：點選作者名字找到更多該作者發表的文章

Author affiliation：每位作者的所屬機構

E-mail：主要作者聯絡資訊
ISSN：找到更多關於這本期刊的文章

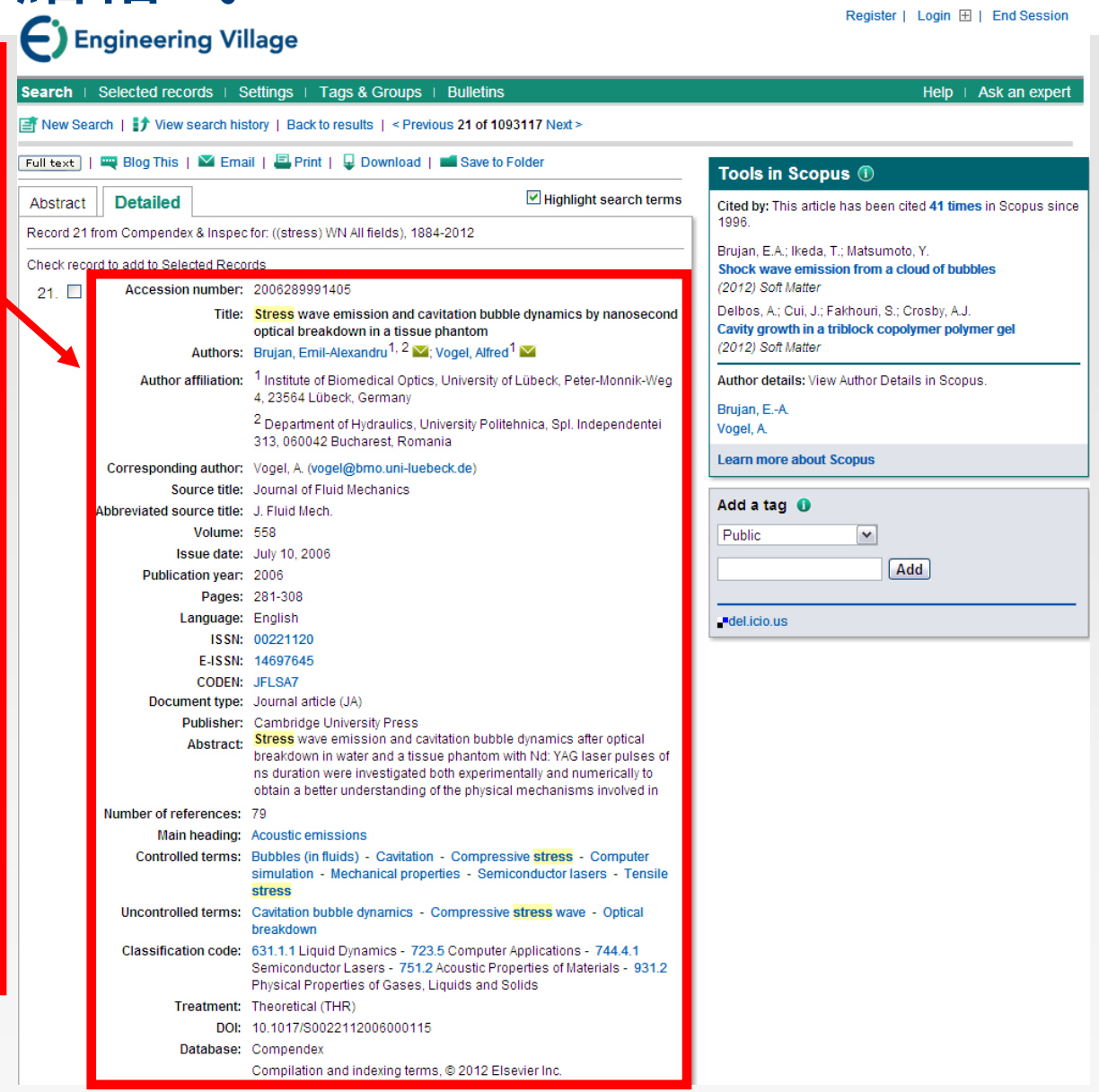
Abstract：文章內容摘要

Main heading：主要主題

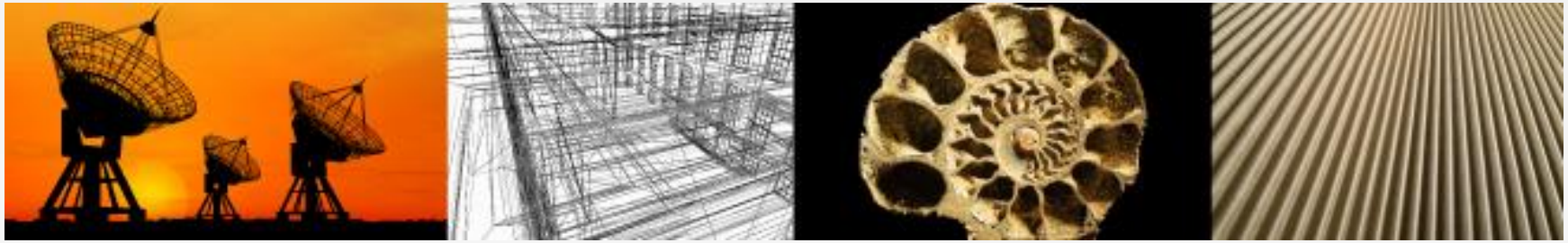
Controlled term：索引詞彙標準

Uncontrolled term：相關主題的廣義分類

Classification code：在來源中其他附加優勢的字彙和片語



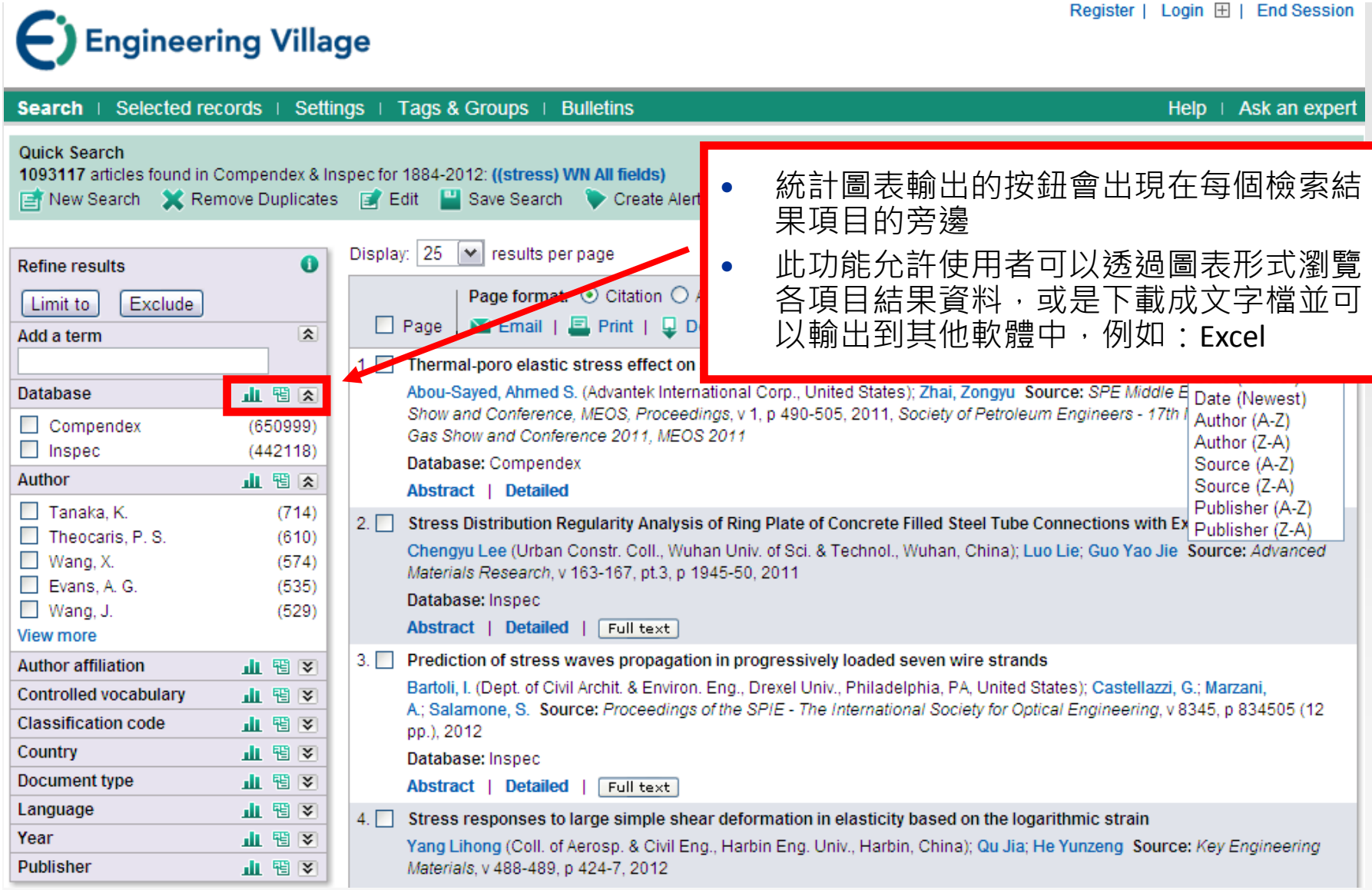
結果中再檢索



Refine Result 結果再檢索

- 在Refine Results檢索結果中:可依作者、作者所屬機構、國家、文獻種類等類別進階篩選 :可Include或是Exclude一個或多個標目
- 在Refine Results中可結合超過 一個以上的分析項目，透過每筆標目前的勾選框勾選要結合的記錄

Refine Results Graphs & Export

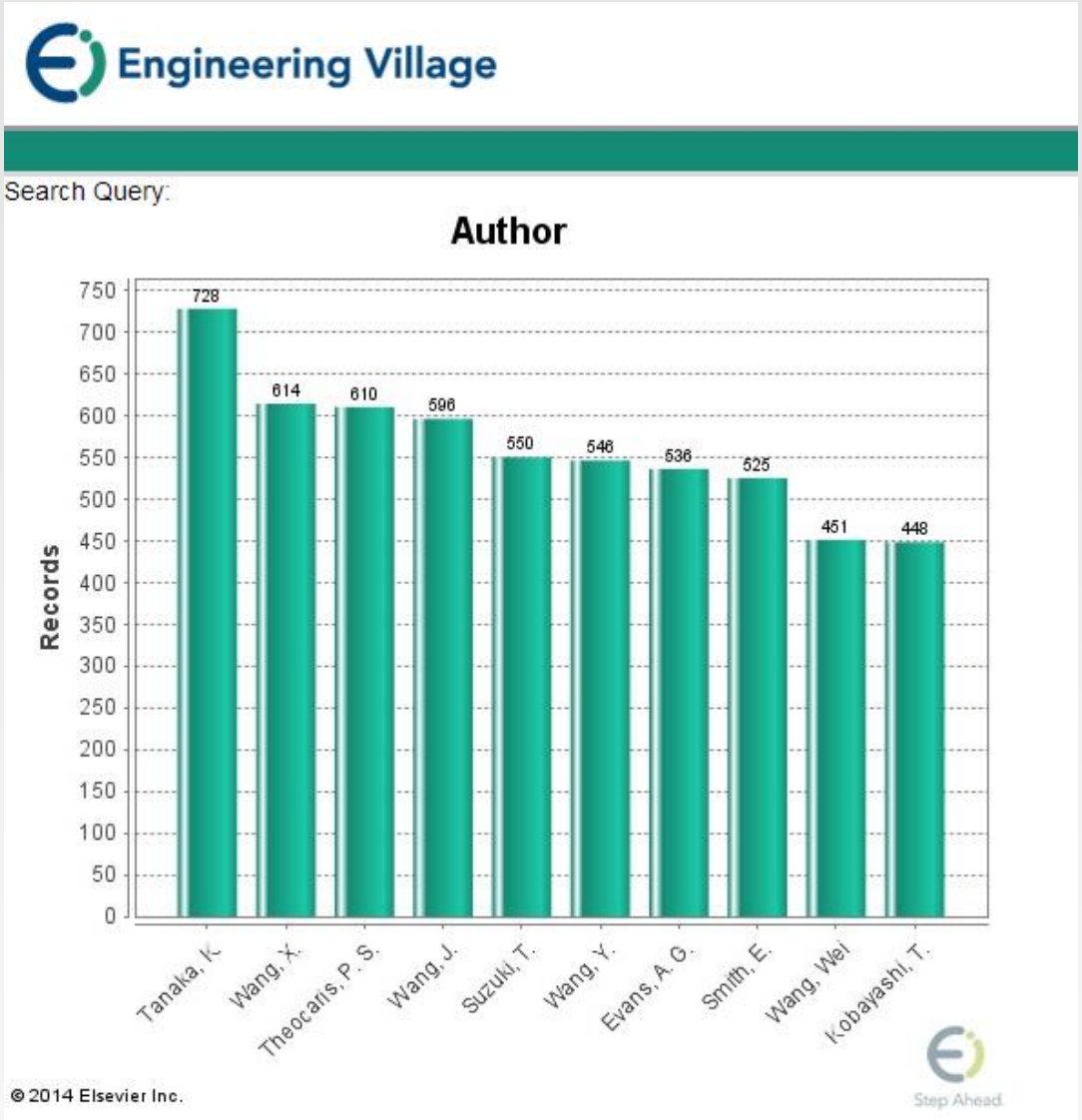


- 統計圖表輸出的按鈕會出現在每個檢索結果項目的旁邊
- 此功能允許使用者可以透過圖表形式瀏覽各項目結果資料，或是下載成文字檔並可以輸出到其他軟體中，例如：Excel

Refine Results Graphs & Export

- 當點選 圖表，會開啟一個新視窗看到在各分析項目中前10筆結果的圖片。

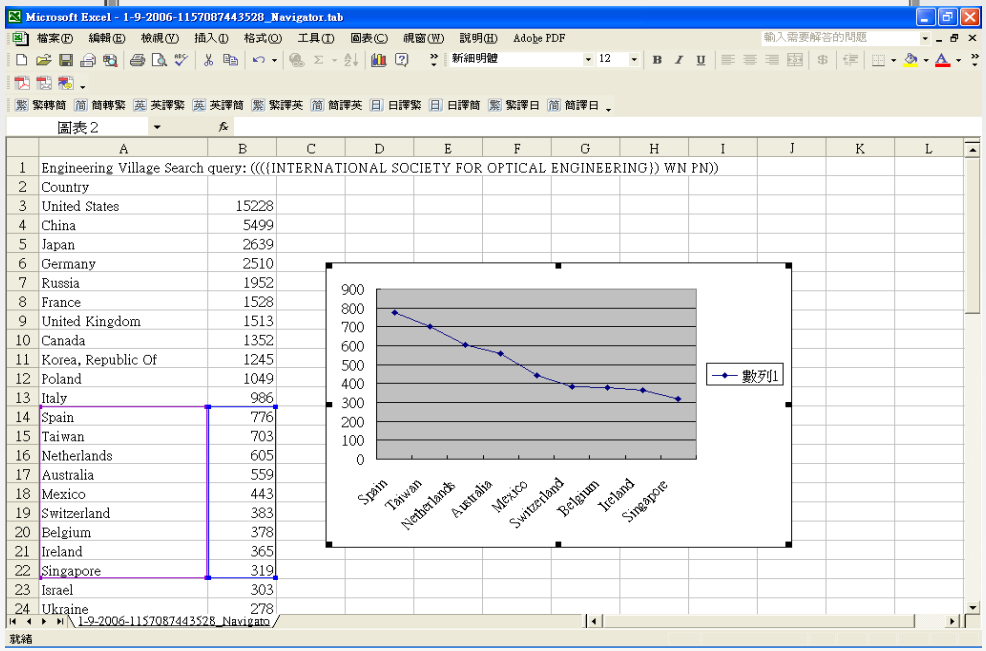
- 例如：右圖呈現該檢索主題各國家的學者所發表的文獻數量!並可將此圖片存檔、列印、或是Email。



Refine Results Graphs & Export

- 點選 圖示可以讓您將圖表輸出成tab檔案

- 您也可以將輸出的檔案以**Excel**軟體開啟分析管理



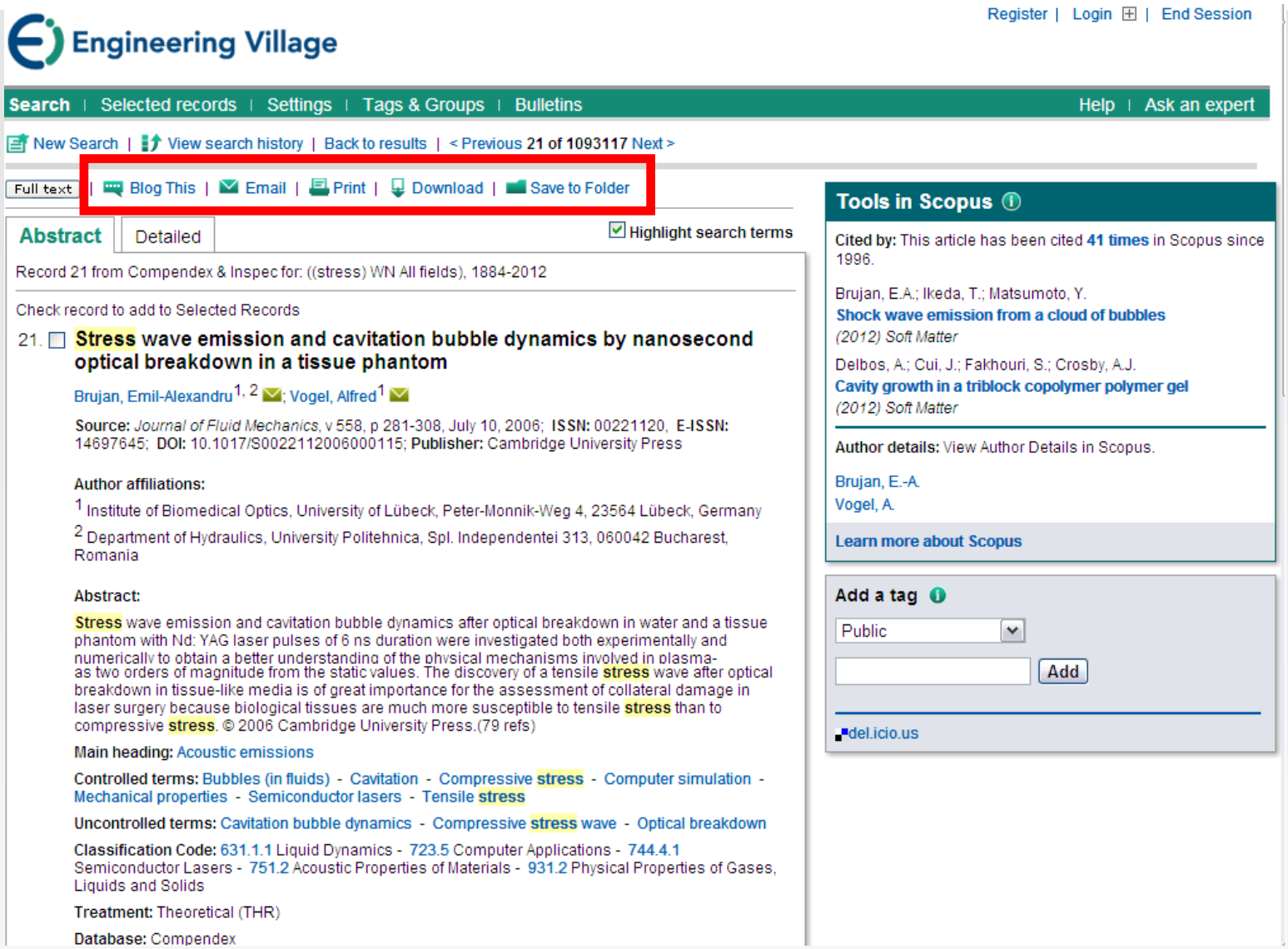
Engineering Village

管理檢索結果

Blog/E-mail/列印/

下載書目資訊/存到我的資料夾

有五種選項保存需要的文章



Engineering Village

Register | Login | End Session

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

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

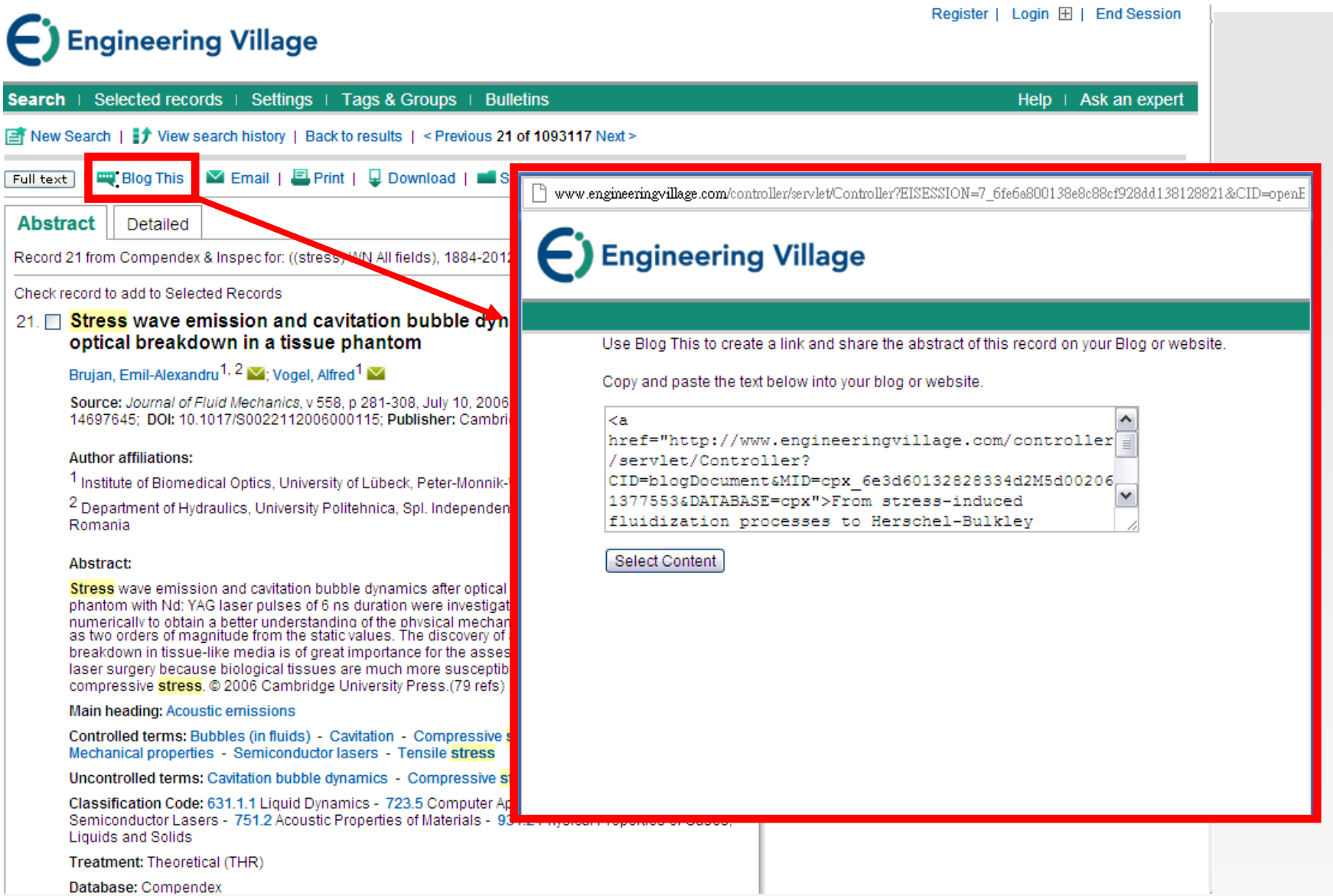
Add a tag

Public

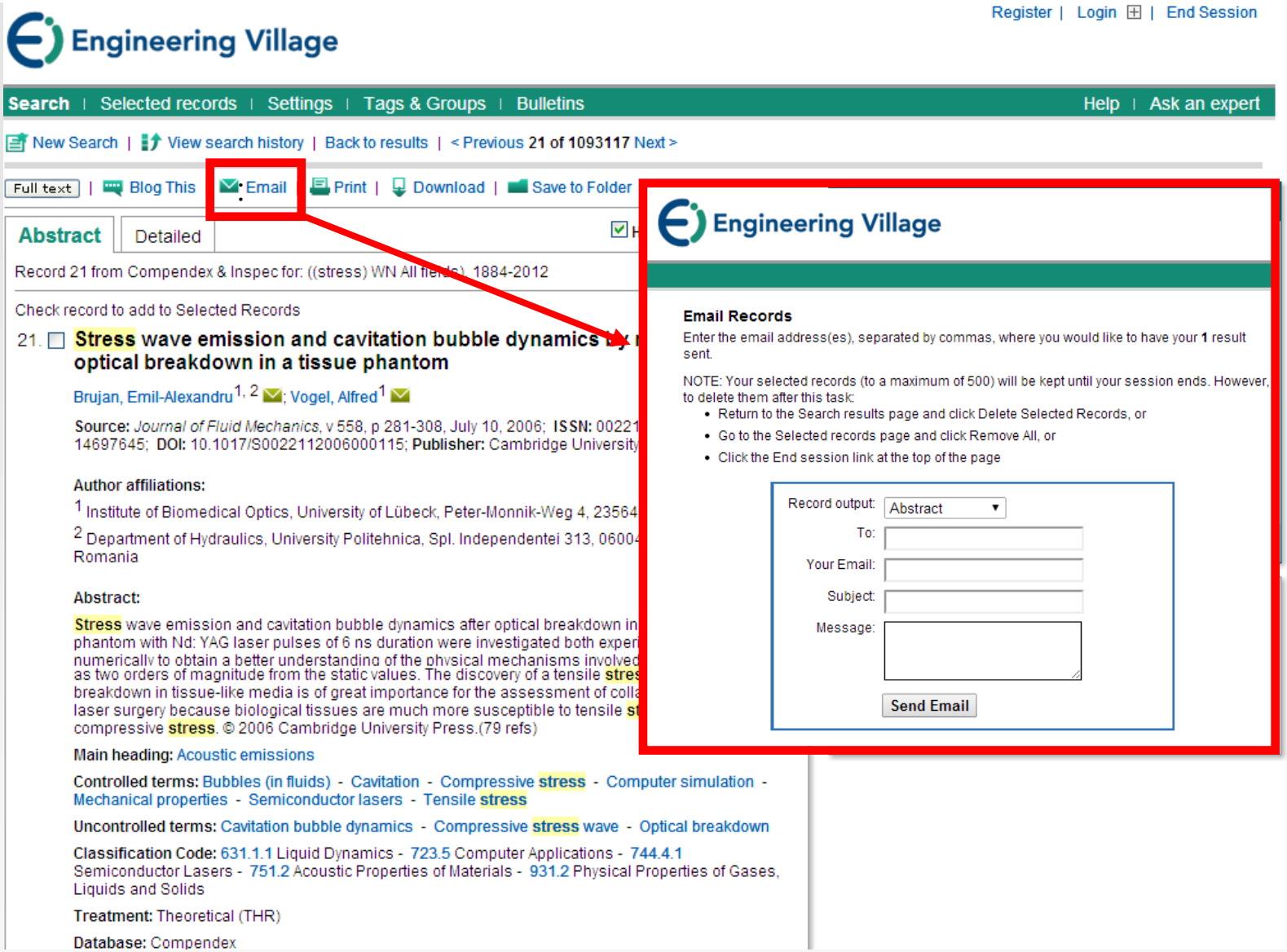
Add

del.icio.us

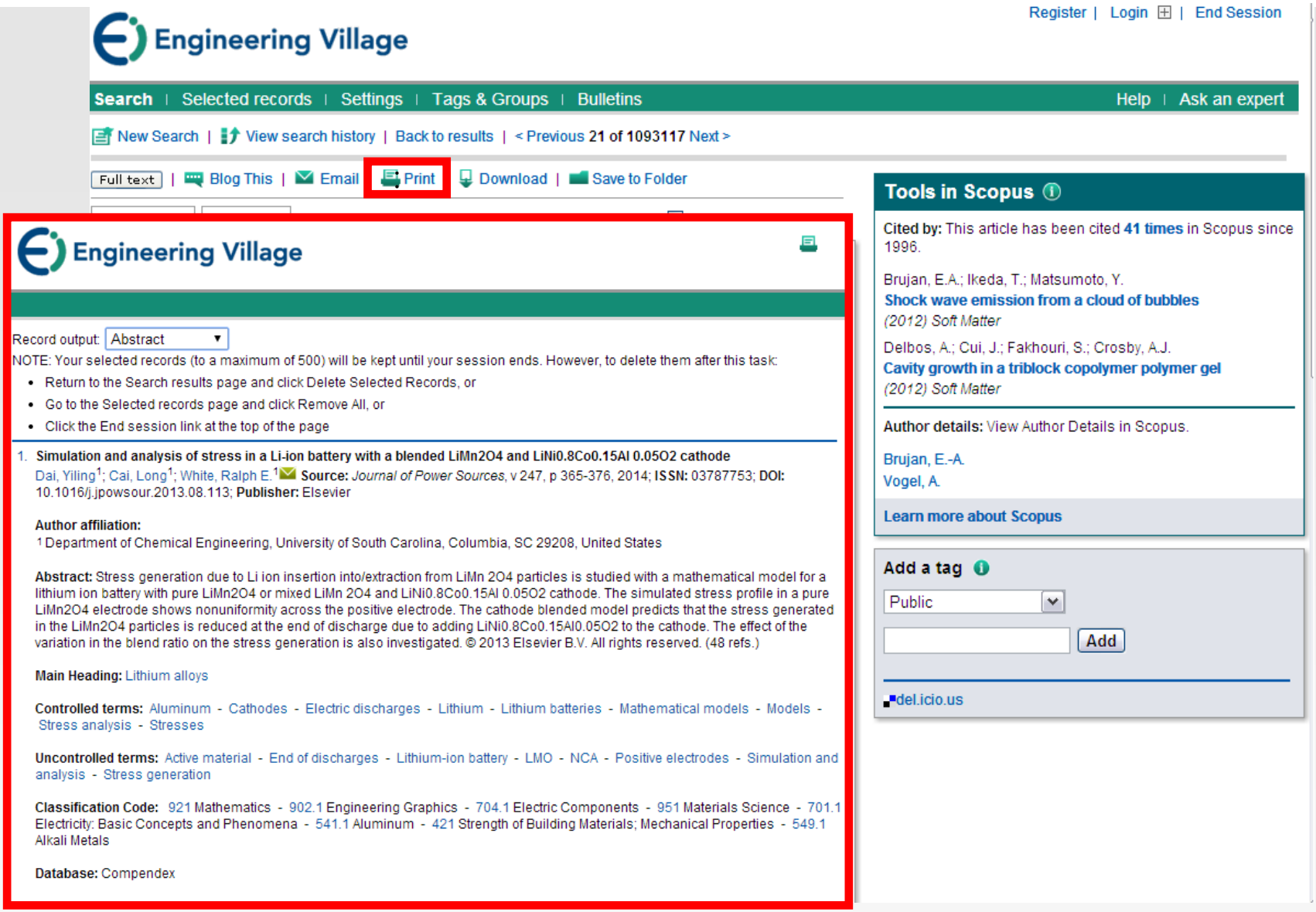
Blog this


Engineering Village
Register | Login | End Session
Search | Selected records | Settings | Tags & Groups | Bulletins
Help | Ask an expert
New Search | View search history | Back to results | < Previous 21 of 1093117 Next >
Full text
Blog This
Email | Print | Download
Abstract
Detailed
Record 21 from Compendex & Inspec for: ((stress) WN All fields), 1884-201
Check record to add to Selected Records
21. Stress wave emission and cavitation bubble dyn
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
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
compressive stress. © 2006 Cambridge University Press.(79 refs)
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
Semiconductor Lasers - 751.2 Acoustic Properties of Materials -
Liquids and Solids
Treatment: Theoretical (THR)
Database: Compendex
www.engineeringvillage.com/controller/servlet/Controller?EISESSION=7_6fe6a800138e8c88cf928dd138128821&CID=openE
Engineering Village
Use Blog This to create a link and share the abstract of this record on your Blog or website.
Copy and paste the text below into your blog or website.
<a
href="http://www.engineeringvillage.com/controller
/servlet/Controller?
CID=blogDocument&MID=cpx_6e3d60132828334d2M5d00206
1377553&DATABASE=cpx">From stress-induced
fluidization processes to Herschel-Bulkley
Select Content

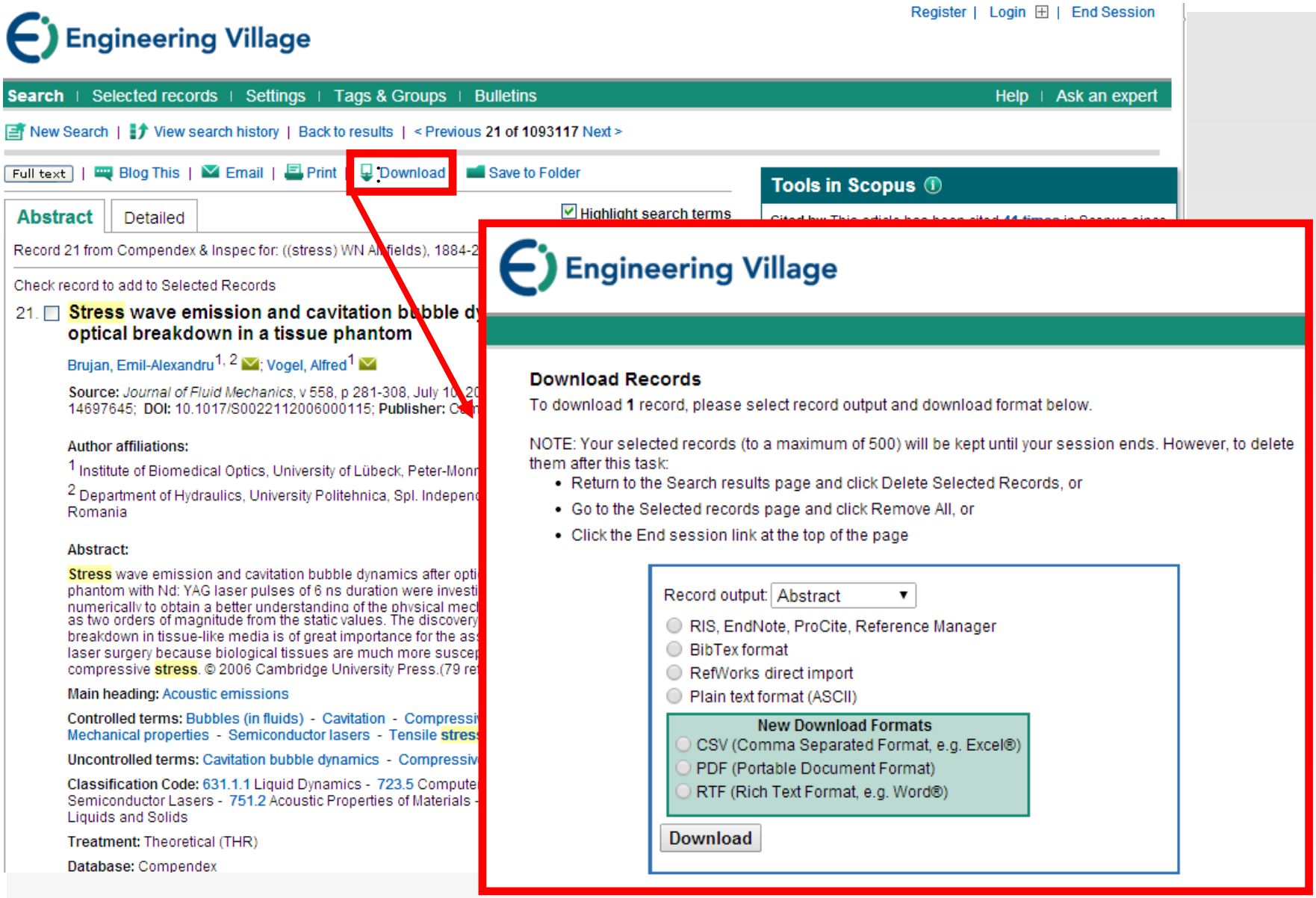
可以email這篇文章



直接列印

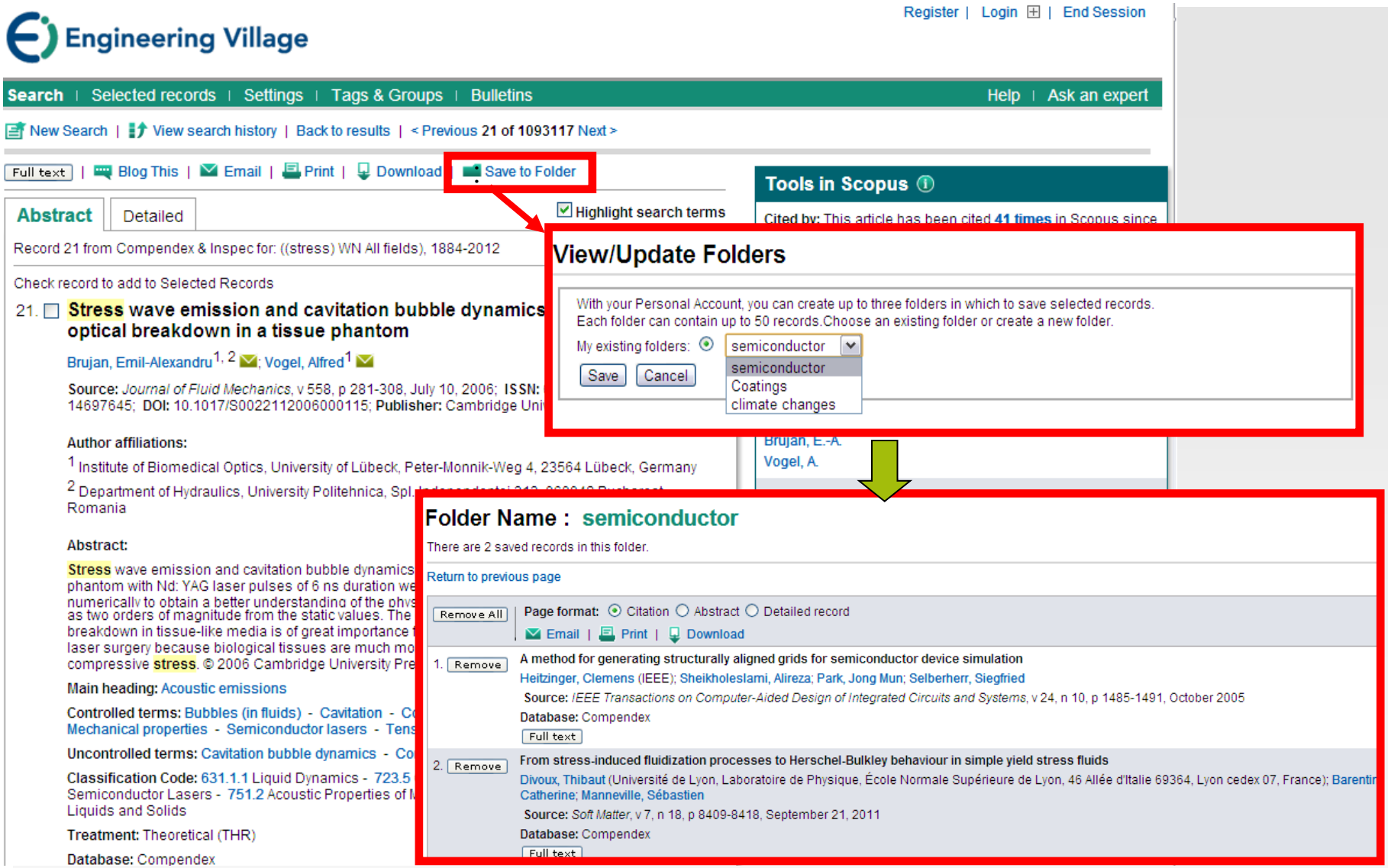

Engineering Village
Register | Login | End Session
Search | Selected records | Settings | Tags & Groups | Bulletins
Help | Ask an expert
New Search | View search history | Back to results | < Previous 21 of 1093117 Next >
Full text | Blog This | Email | Print | Download | Save to Folder
Tools in Scopus
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
Add a tag
Public
Add
del.icio.us
Engineering Village
Record output: Abstract
NOTE: Your selected records (to a maximum of 500) will be kept until your session ends. However, to delete them after this task:
Return to the Search results page and click Delete Selected Records, or
Go to the Selected records page and click Remove All, or
Click the End session link at the top of the page
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

也可以下載成需要的書目軟體格式



存到我的資料夾

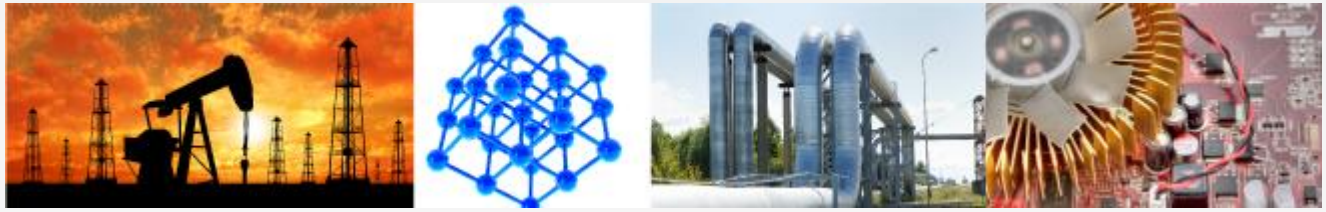
注意，此為個人化功能，需註冊及登錄後才能使用。



Tag（標籤）的功能

- 使用者可對任何的資料指定其關鍵字（標籤）
- 使用者可透過標籤執行檢索
- 使用者可選擇將自己的標籤對其他人公開
  - 所有的EV使用者
  - 個人所屬機構中的使用者
  - 只在個人所屬的研究團隊
  - 只限個人使用，不對其他人公開

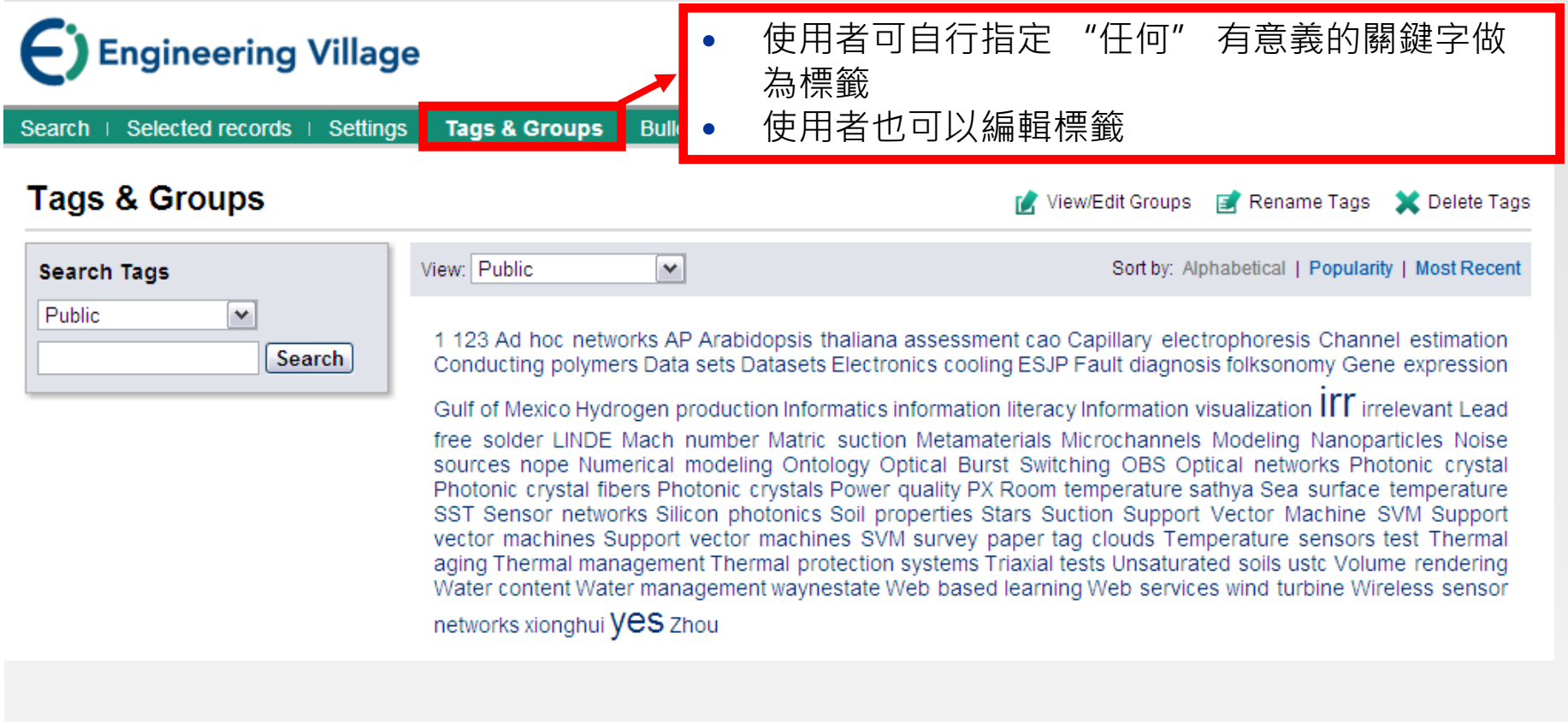
注意，此為個人化功能，需註冊及登錄後才能使用。



Tag 文章


Search | Selected records | Settings | Tags & Groups | Bulletins
Help | Ask an expert
New Search | View search history | Back to results | < Previous 2 of 650999 Next >
Full text | Blog This | Email | Print | Download | Save to Folder
Abstract
Detailed
Highlight search terms
Record 2 from Compendex for: ((stress) WN All fields), 1884-2012
•Public = 所有 Engineering Village 使用者都可看到此標籤
•Private = 只有 “我” 可看到此標籤 (建議使用)
•My Institution= 只有來自同一所屬機構的使用者可看到此標籤
•Login for groups = 自定分享群組
Abstract:
Tools in Scopus
Cited by: This article has been cited 5 times in Scopus since 1996.
Learn more about Scopus
Add a tag
Public
Private
My Institution
Add
My tags
stress 2
Edit
del.icio.us

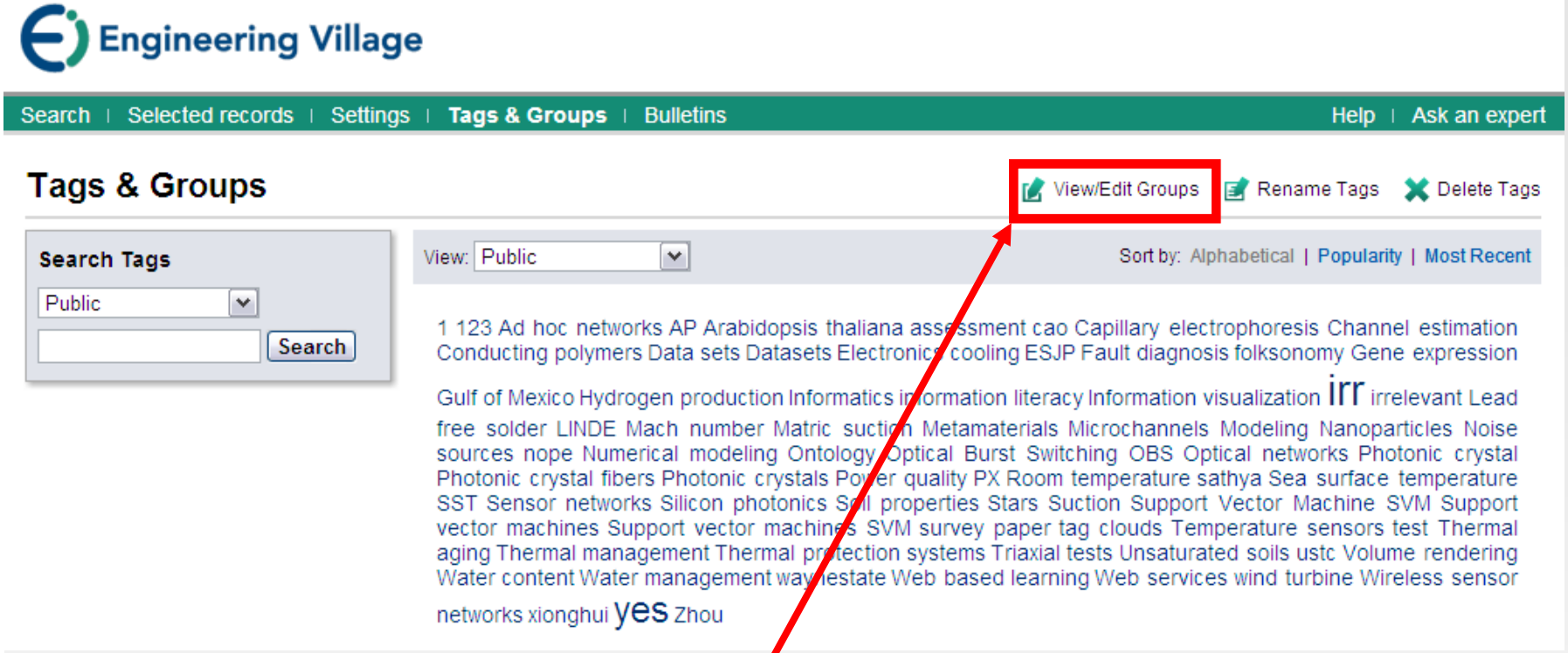
Tag 透過標籤檢索可提升效果



- 使用者可自行指定 “任何” 有意義的關鍵字做為標籤
- 使用者也可以編輯標籤

- **使用者的標籤可成為新的搜尋關鍵字**
- **檢視 “標籤雲” 大小：可依照其字母順序、受歡迎程度或新穎程度排序**

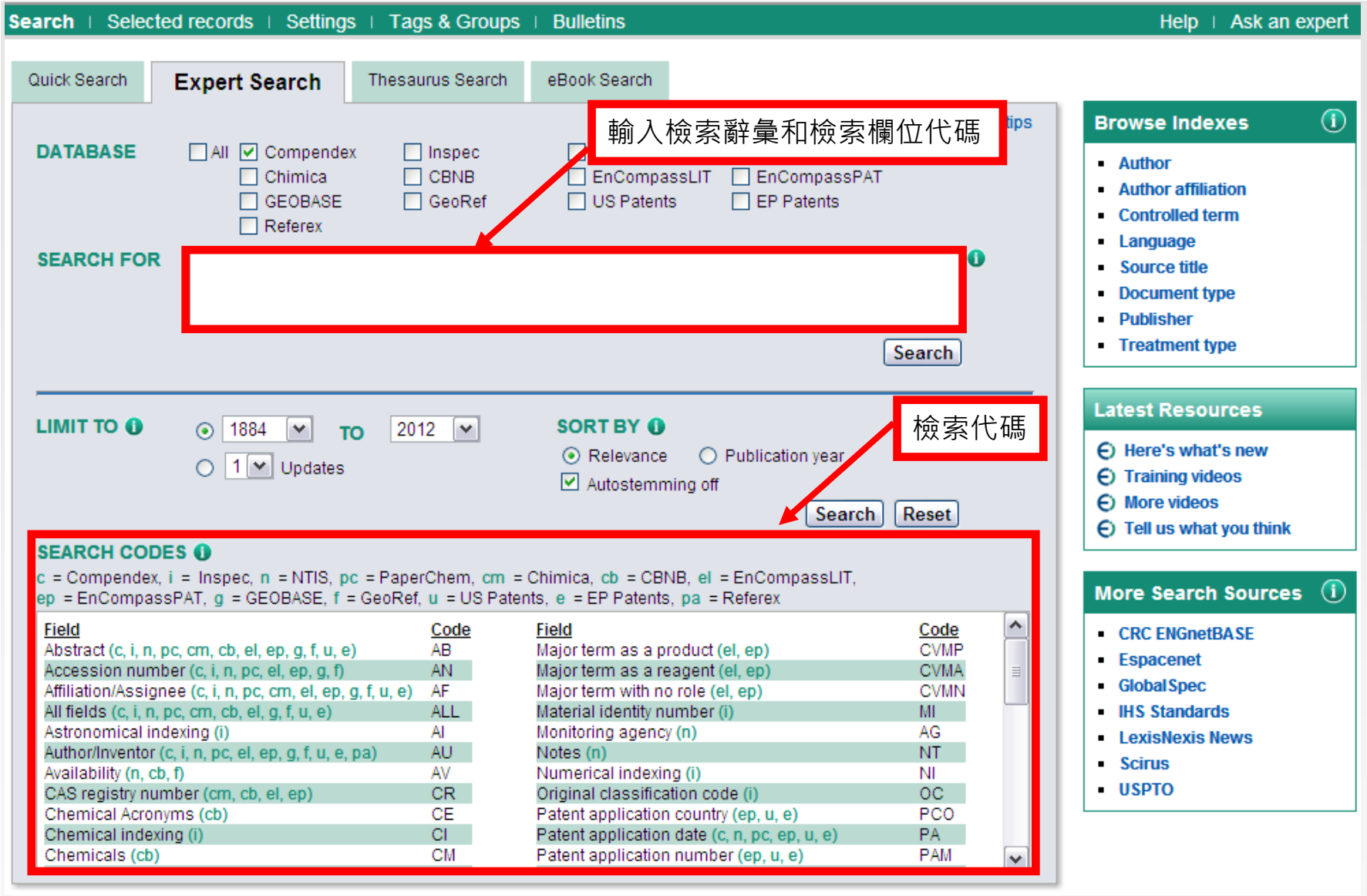
Tag 團隊間的分享



- 可為研究團隊、合作者、友人建立特定分組
- 所有標籤資料將只為分組成員所用
- 分組成員可看到所屬團隊的所有標籤
- 可選擇透過電子郵件將新增的標籤資料分享給分組成員

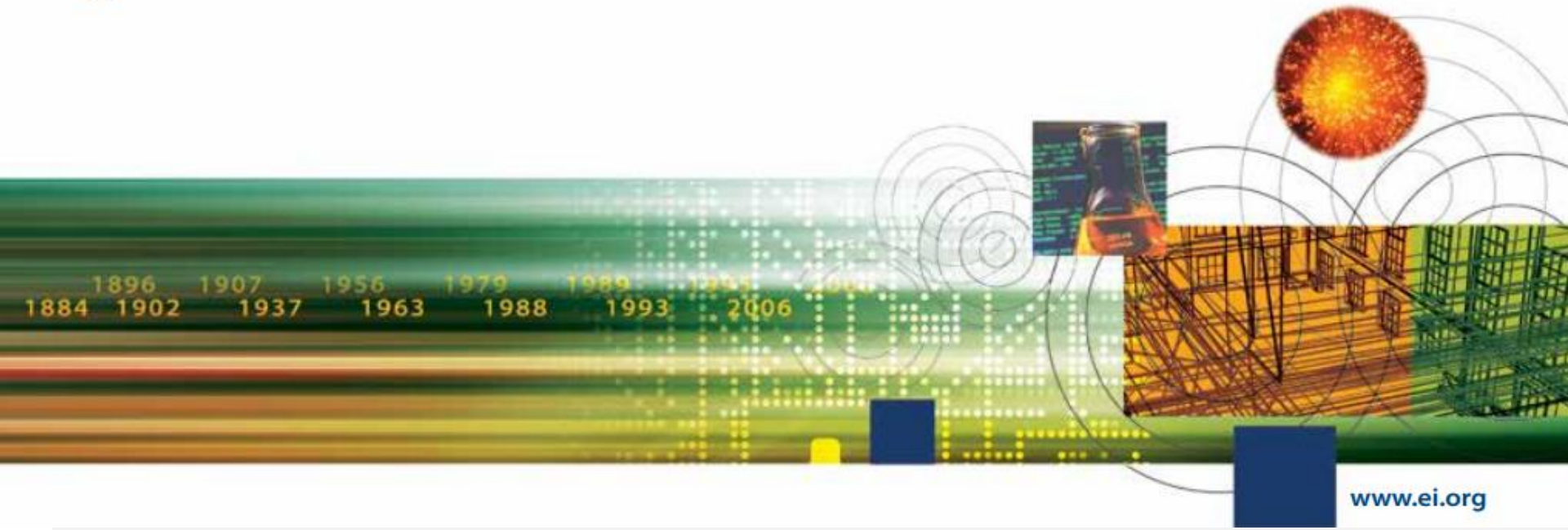
Expert Search – 專家搜尋

Expert Search – 專家檢索



Engineering Village

Thesaurus Search - 索引典搜尋



Thesaurus Search – 索引典搜尋

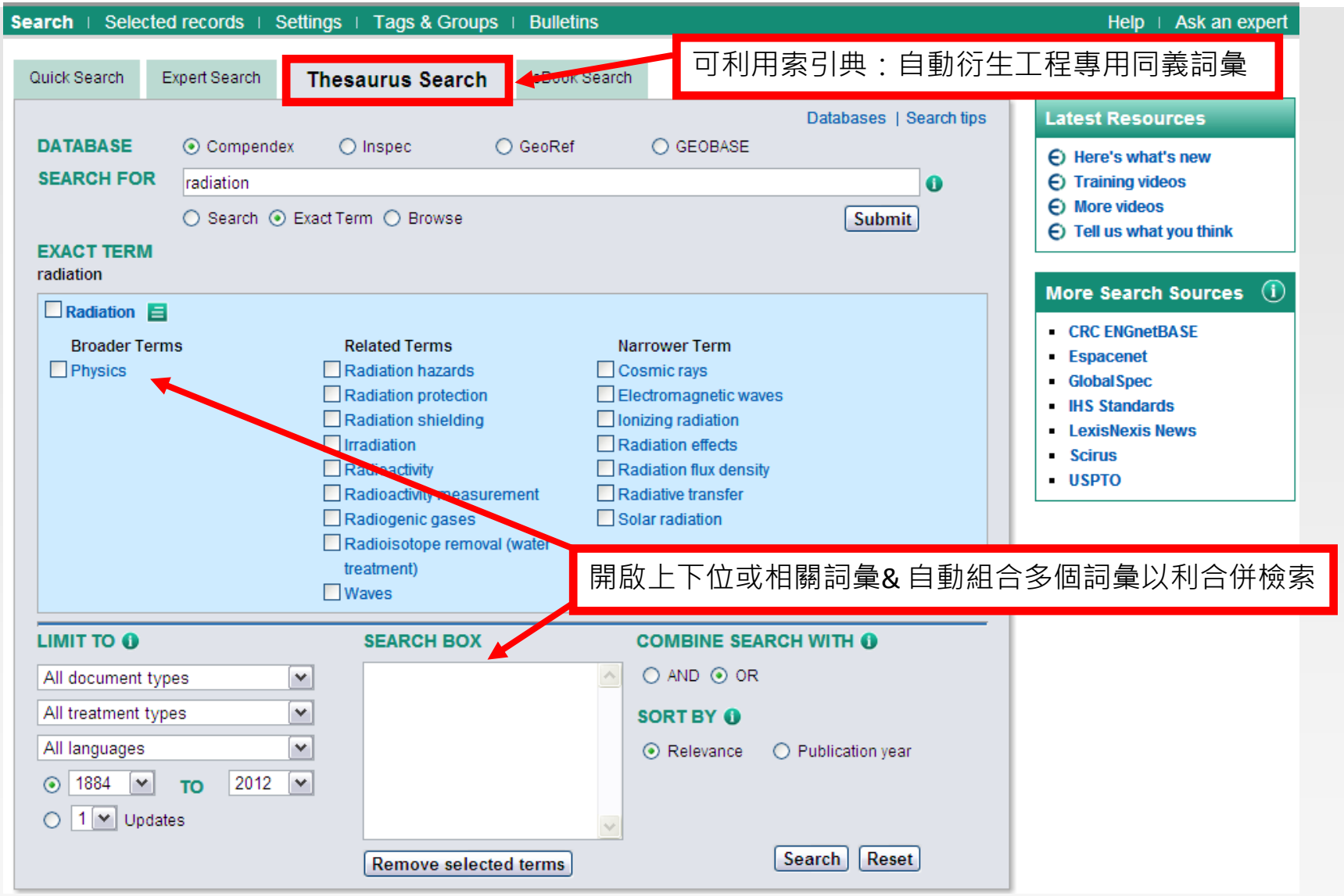
THESAURUS索引典

為Engineering Village 最引以傲的功能

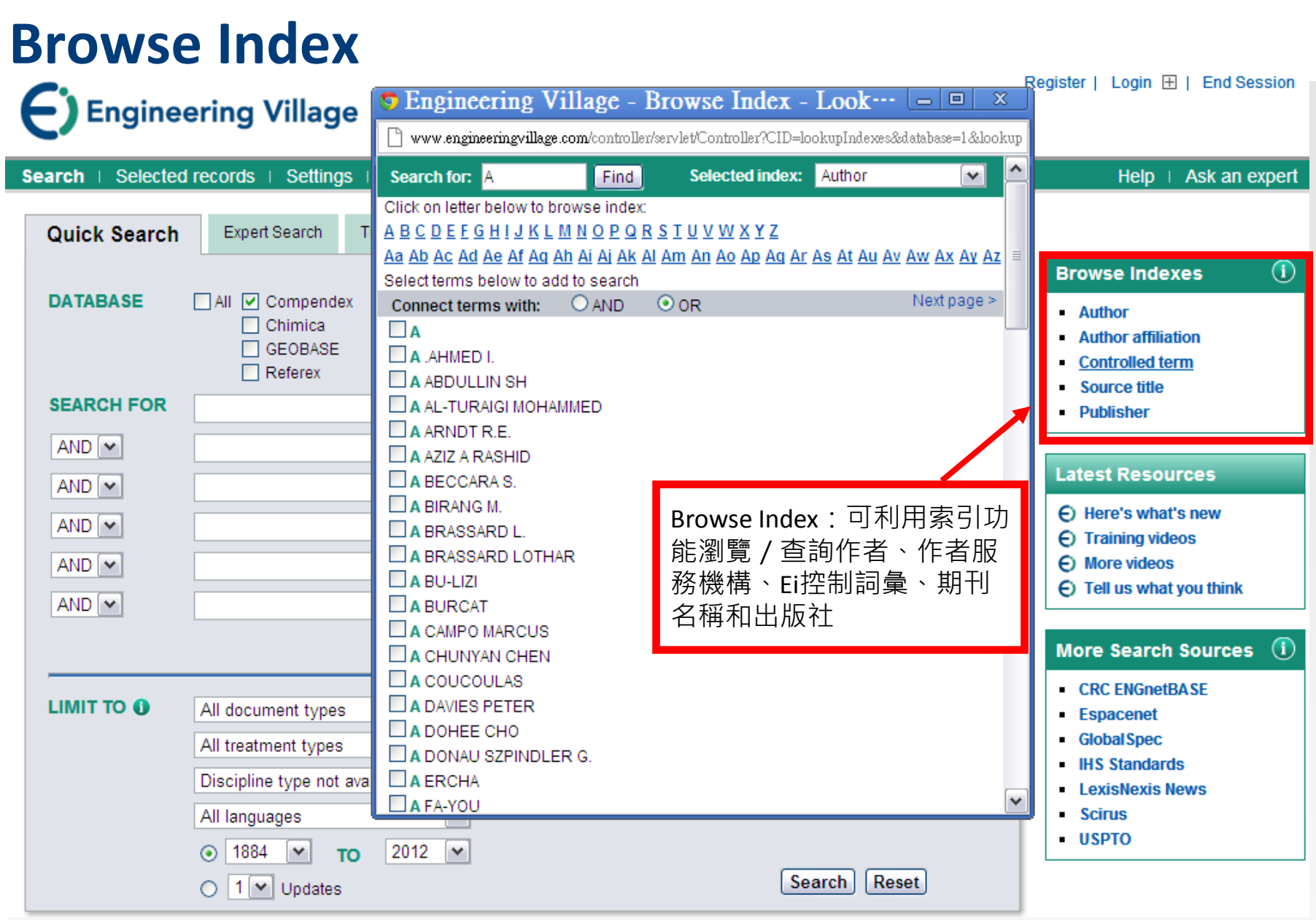
一般口語表達用詞為**自然語言**，但每人對詞彙認知與用法有所差異，學術文獻的用字措辭更是嚴謹，需避免自然語言混淆不清或模稜兩可用法。

透過專家編寫的**索引典(Thesaurus)**，將自然語言分類重組為**「廣義詞」、「狹義詞」、「相關詞」**。對同一概念採用固定的詞彙表達，以達到控制詞彙目的，清楚呈現整個主題概念的結構，進而提高檢索的精確度。

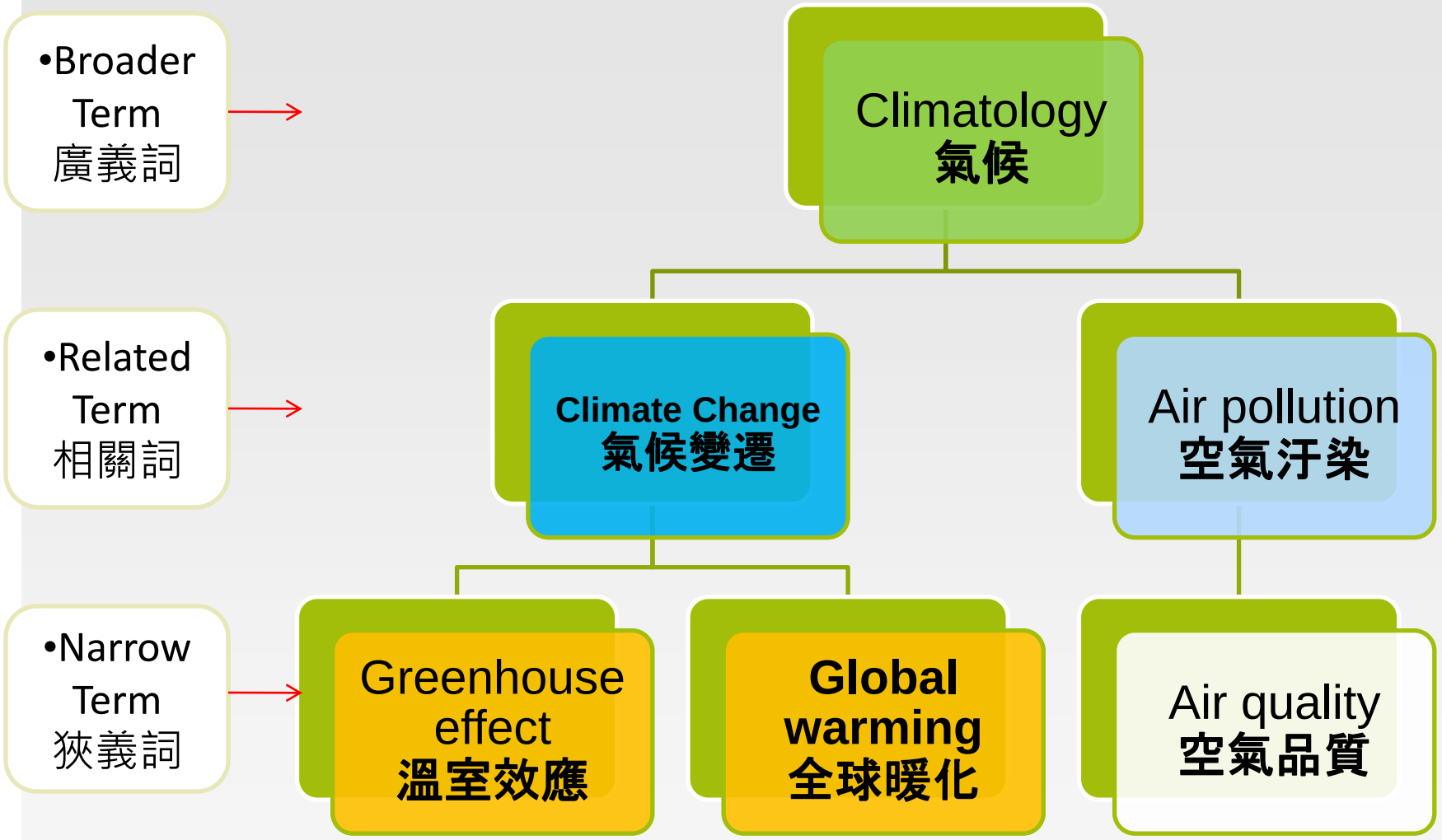
索引典檢索：Thesaurus (Exact Term)



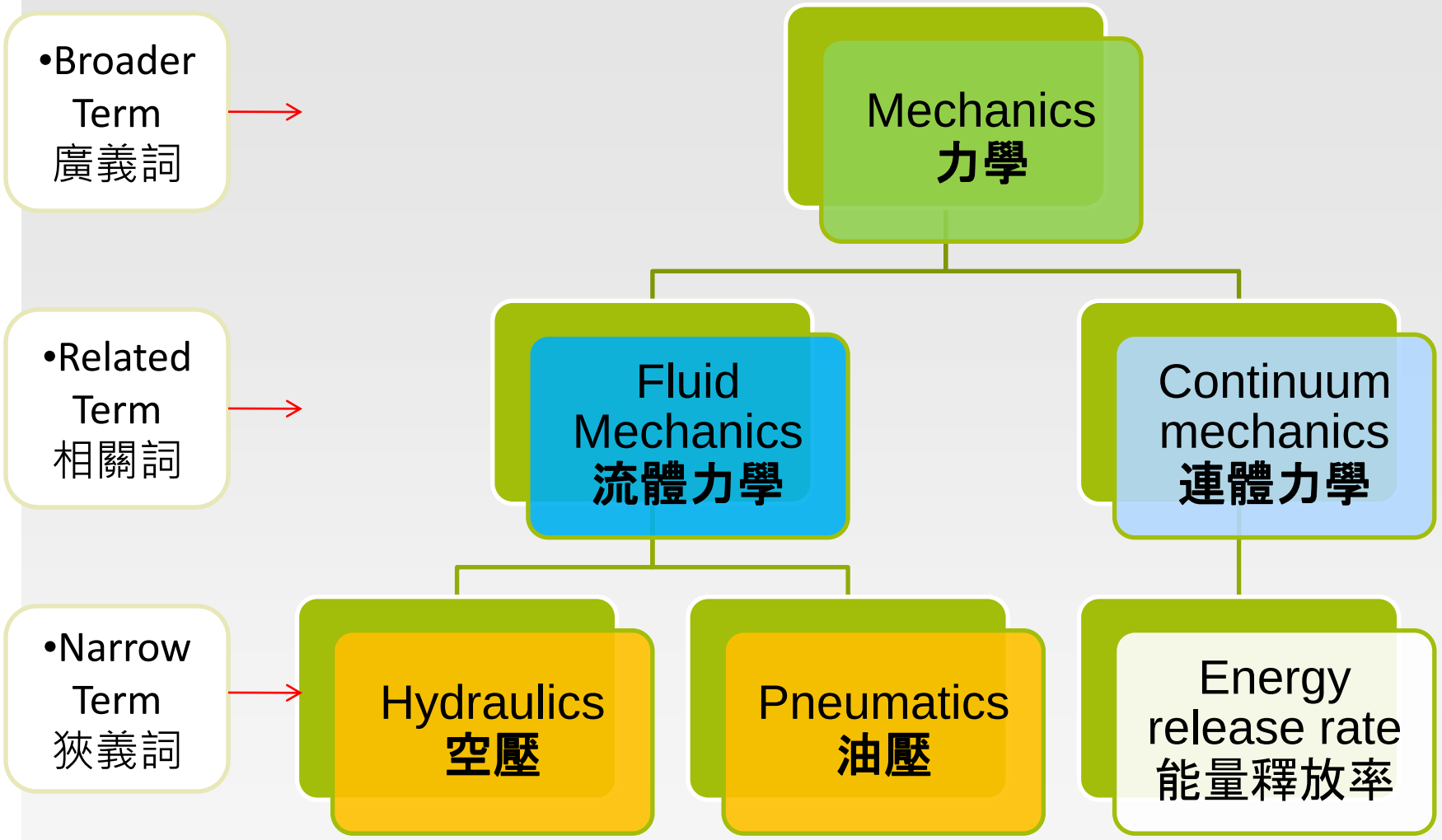
Browse Index



THESAURUS索引典

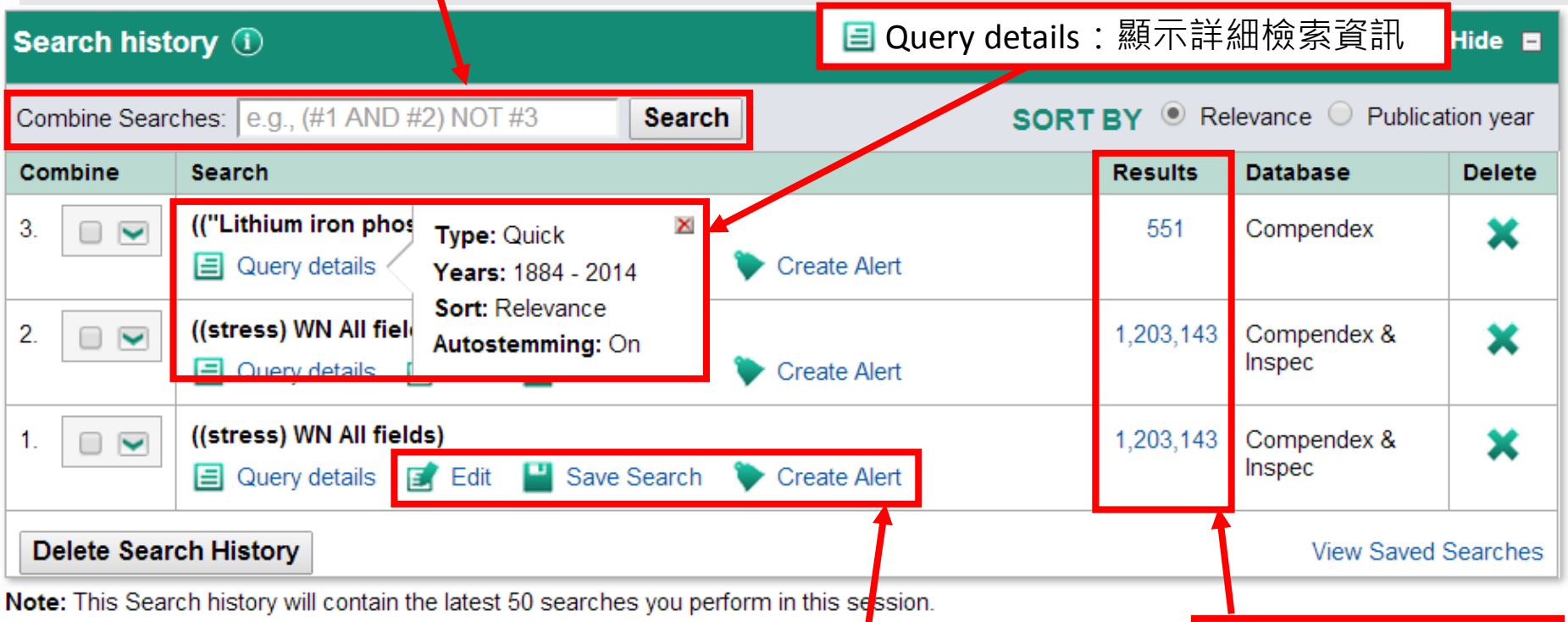


THESAURUS索引典



檢索歷史

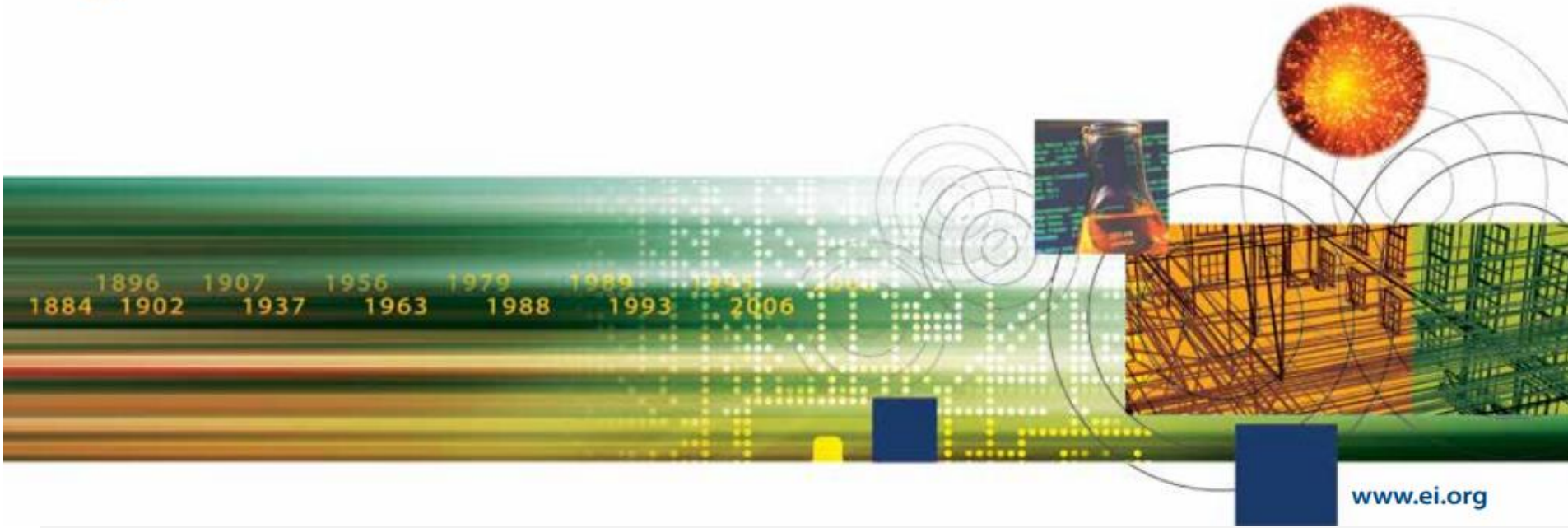
結合檢索策略數字，利用布林邏輯結合查詢



點 Edit ：編輯搜尋指令
Save Search ：儲存檢索策略 (* 需要註冊個人帳號)
Create Alert ：建立e-mail新知通報 (* 需要註冊個人帳號)

點選檢索策略重新查詢或修正查詢

Engineering Village

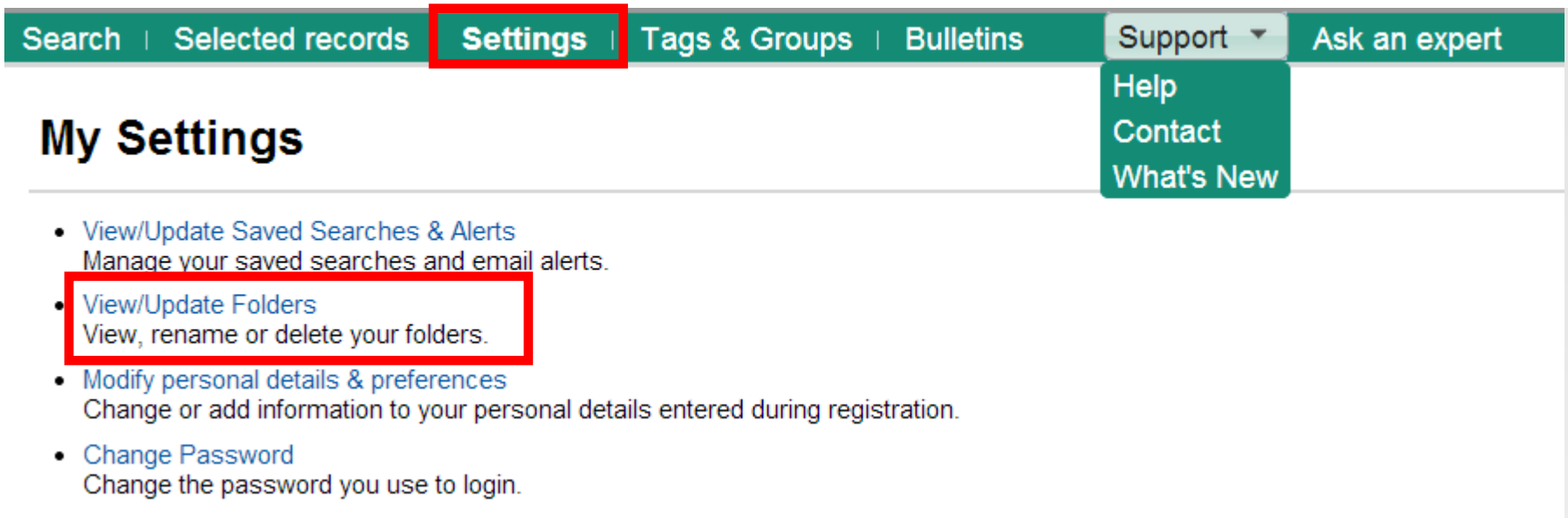


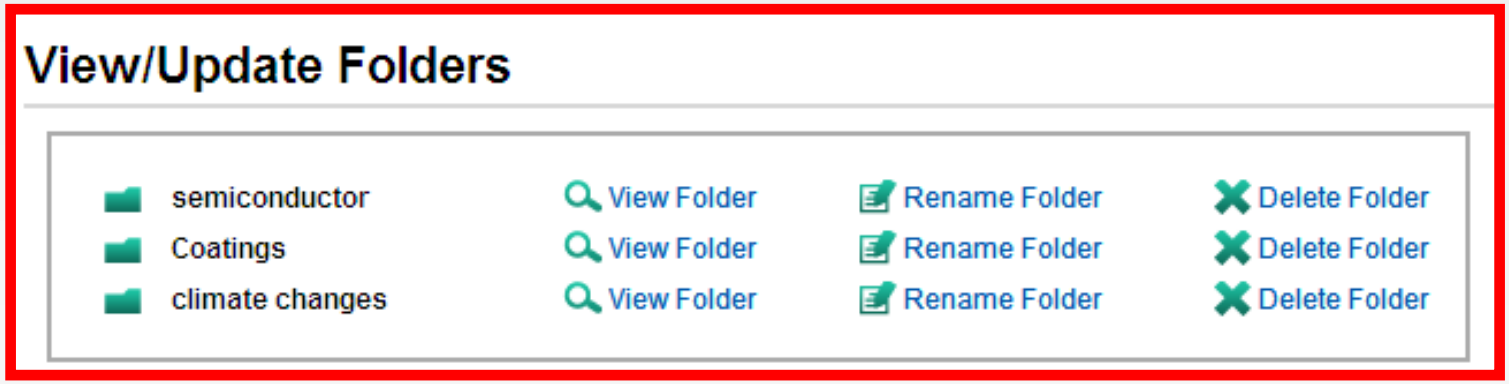
個人化功能

My Profile

- 功能
  - 儲存檢索策略 (125個)
  - 建立E-mail Alert (25筆)
  - 建立個人資料夾
    - 3個資料夾
    - 每個資料夾可儲存50筆記錄
  - 修改個人帳號資訊

My Setting List





Engineering Village

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 新知通報

(先勾選再儲存)

線上詢問

可線上詢問EV的三種專家
1.EV專業工程師
2.EV產品專員
3.圖書館員

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

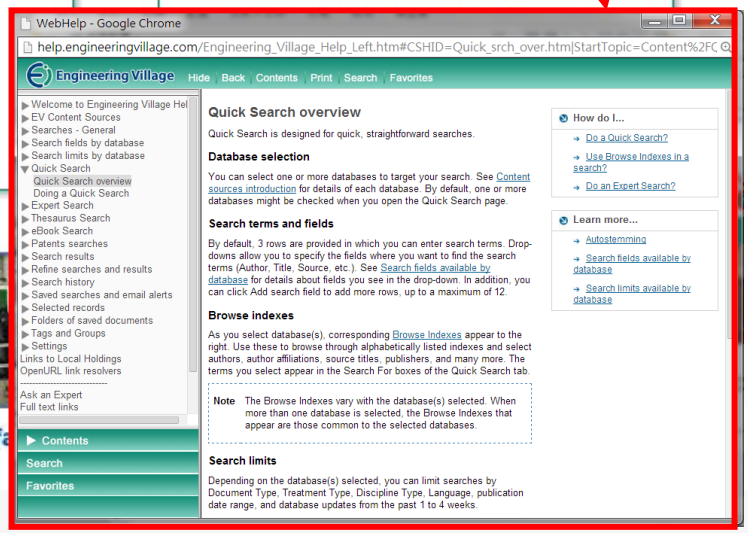
Our Product Specialist can help you:

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

Ask a Librarian

A librarian can help you:

- Formulate searches




Chemical


Industrial


Mechanical


Electrical


Signal Processing


Manufa

Elsevier台灣官網: EV 資訊下載 http://taiwan.elsevier.com

相關網站資源

- Ei Engineering Information
  - http://www.ei.org/
- 全國學術電子資訊資源共享聯盟 (CONCERT)
  - http://www.stpi.org.tw/fdb/ei/index.html