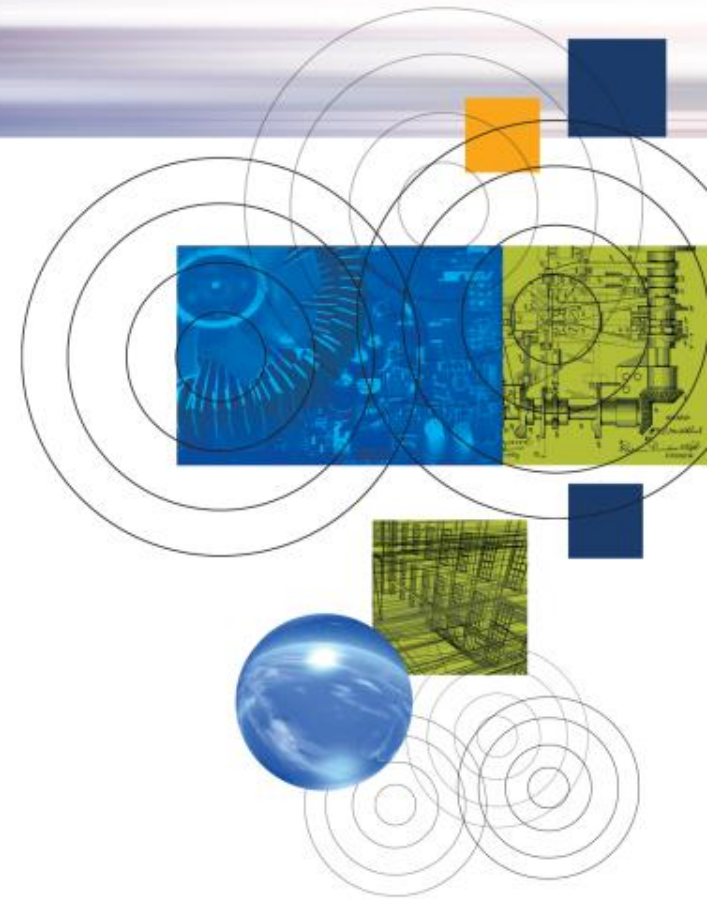


# Elsevier 資料庫教育訓練 -

 Engineering Village

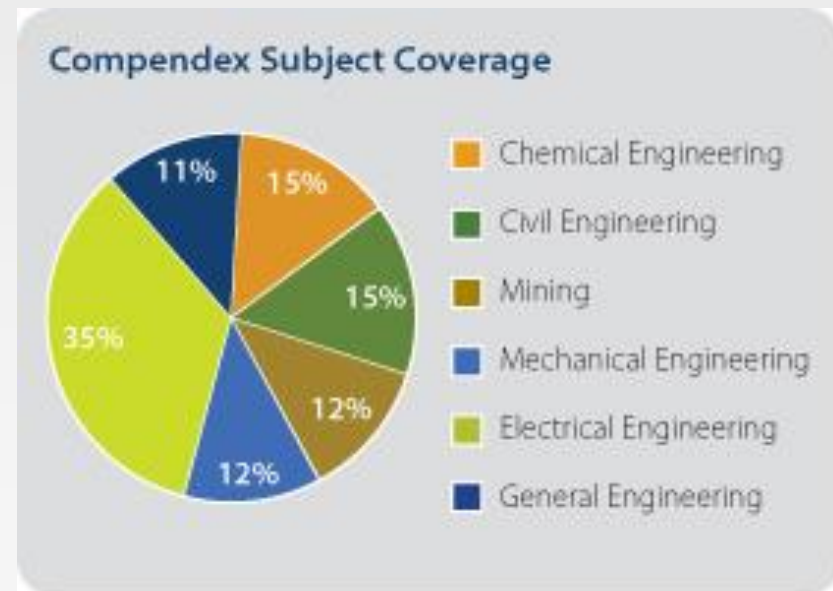


# Engineering Village 介面與收錄內容

- 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

## **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

## **Mining Engineering - in the areas of :**

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

## **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	<ol style="list-style-type: none"><li>1.四大Alert通報</li><li>2.圖表搜尋功能</li></ol>	<ol style="list-style-type: none"><li>1.精確欄位搜尋</li><li>2.控制詞彙索引</li><li>3.自然語彙索引</li><li>4.專家檢索語法</li></ol>
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 **woman**

或 **women**的資料

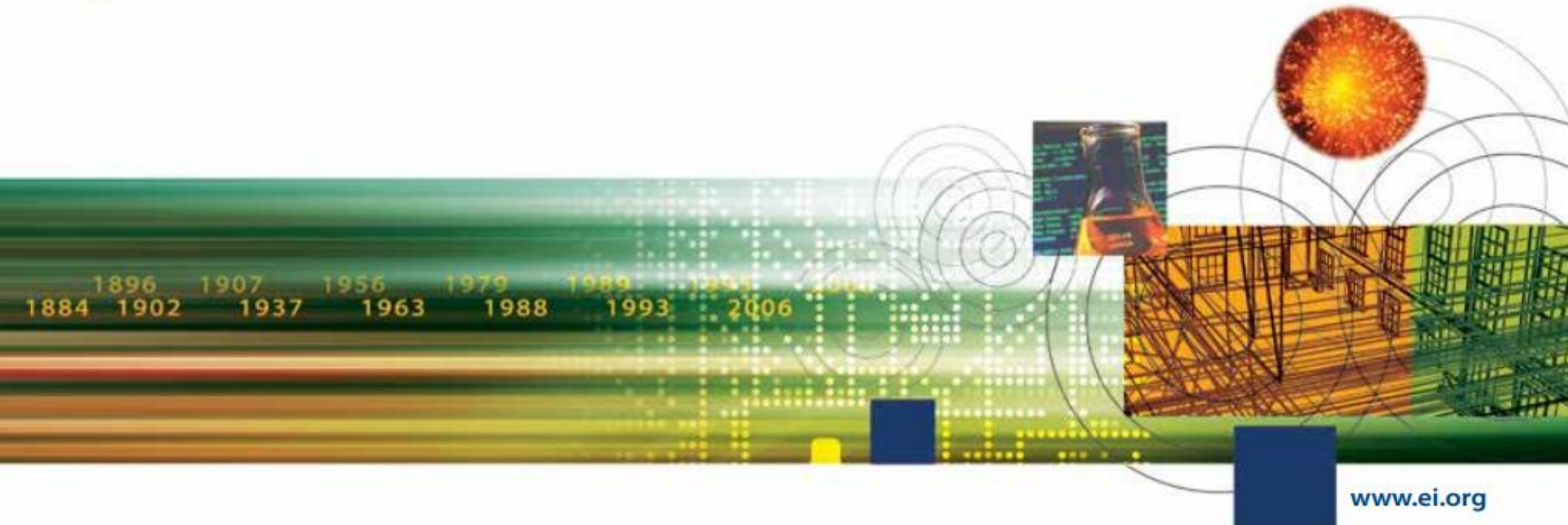


## 檢索方式

- 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



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

## 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

Register | Login | End Session | Go to SciVal Suite

Search | Selected records | Settings | Tags & Groups | Bulletins

Quick Search | Expert Search | Thesaurus Search | eBook Search

**DATABASE**

All  Compendex  Inspec  NTIS  PaperChem  
 Chimica  CBNB  EnCompassLIT  EnCompassPAT  
 GEOBASE  GeoRef  US Patents  EP Patents  
 Referex

**SEARCH FOR**

constructions in All fields  
 AND in All fields  
 AND in All fields

**LIMIT TO**

All document types  
 All treatment types  
 Discipline type not available  
 All Languages  
 1884 TO 2012  
 1 Updates

**SORT BY**

Relevance  Publication year  
 Autostemming off

**Search history**

Combine Searches: e.g., (#1 AND #2) AND NOT #3  **SORT BY**  Relevance  Publication year

No.	Type	Search	Auto-stem	Sort	Results	Year(s)	Database	Add Email Alert	Save Search
1.	Quick	((constructions) WN All fields)	On	Relevance	851,157	1884 - 2012	Compendex	<input type="checkbox"/>	<input type="checkbox"/>
2.	Quick	((foundation) WN All fields)	On	Relevance	254,057	1884 - 2012	Compendex	<input type="checkbox"/>	<input type="checkbox"/>

[View Saved Searches](#)

Note: This Search history will contain the latest 50 searches you perform in this session.

選擇資料庫

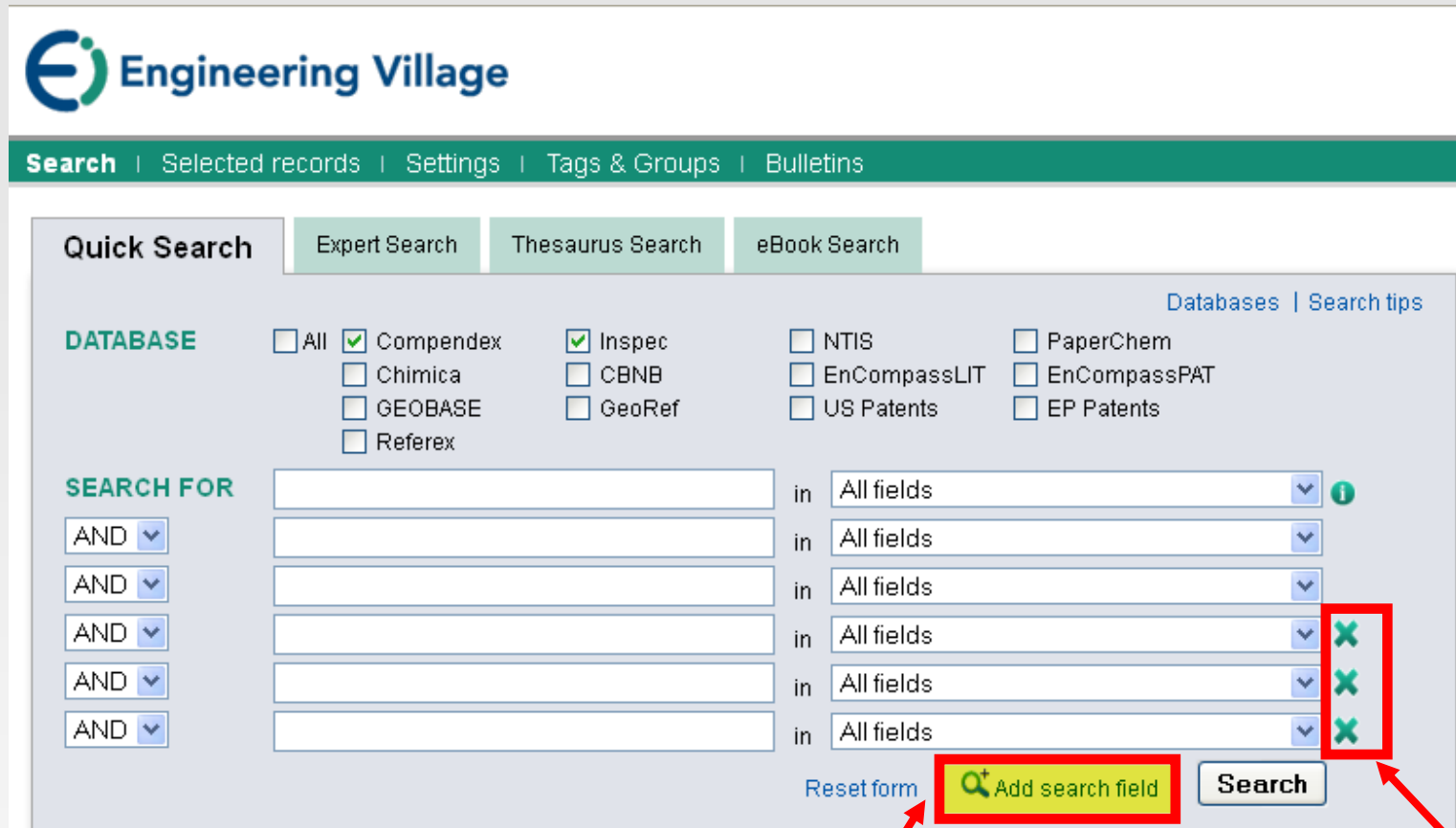
增加搜尋欄位

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



The screenshot shows the Engineering Village search interface. At the top, there is a navigation bar with 'Search | Selected records | Settings | Tags & Groups | Bulletins'. Below this, there are tabs for 'Quick Search', 'Expert Search', 'Thesaurus Search', and 'eBook Search'. The 'Quick Search' tab is active, showing a 'DATABASE' section with checkboxes for various databases like Compendex, Inspec, NTIS, etc. Below the database section is a 'SEARCH FOR' section with multiple search fields. Each field has a dropdown menu set to 'All fields'. A red box highlights the 'Add search field' button, and another red box highlights the 'X' icons used to remove search fields. A 'Search' button is also visible.

可根據需求增加搜尋欄位

移除搜尋欄位

# 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

Quick Search  
1203143 articles found in Compendex & Inspec for 1884-2014: ((stress) WN All fields)

Refine results

Limit to Exclude

Add a term

Database

- Compendex (723420)
- Inspec (479723)

Author

- Tanaka, K. (728)
- Wang, X. (614)
- Theocaris, P. S. (610)
- Wang, J. (596)
- Suzuki, T. (550)

View more

Author affiliation

Controlled vocabulary

Classification code

Country

Document type

Language

Year

Source title

Publisher

Run new search with selected facets

Search

Display: 25 results per page

Select: 50 Selected Records (0) | Delete All

100

Email | Print | Download | Save to Folder | Remove Duplicates

Sort by: Relevance

- Simulation and analysis of stress in a Li-ion battery with a blended LiMn2O4 and LiNi0.8Co0.15Al0.05O2 cathode**

Dai, Yiling (Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, United States); Cai, Long; White, Ralph E. **Source:** *Journal of Power Sources*, v 247, p 365-376, 2014

Database: Compendex

Abstract | Detailed | Show preview | Full text
- Experimental stress analysis in helical pile foundations by the photoelastic method**

Schiavon, J.A. (University of Sao Paulo, Sao Carlos, Sao Paulo, Brazil); Tsuha, C.H.C.; Esquivel, E.R. **Source:** *Physical Modelling in Geotechnics - Proceedings of the 8th International Conference on Physical Modelling in Geotechnics 2014, ICPMG 2014*, v 2, p 757-762, 2014, *Physical Modelling in Geotechnics - Proceedings of the 8th International Conference on Physical Modelling in Geotechnics 2014, ICPMG 2014*

Database: Compendex

Abstract | Detailed | Show preview
- Thermal-poro elastic stress effect on stress reorientation in production and injection wells**

Abou-Sayed, Ahmed S. (Advantek International Corp., United States); Zhai, Zongyu **Source:** *SPE Middle East Oil and Gas Show and Conference, MEOS, Proceedings*, v 1, p 490-505, 2011, *Society of Petroleum Engineers - 17th Middle East Oil and Gas Show and Conference 2011, MEOS 2011*

Database: Compendex

Abstract | Detailed | Show preview
- Effect of stress parameters on ratcheting**

Das, D. (Metall. & Mater. Eng. Dept., Jadavpur University, Kolkata, India) **Source:** *Materials & Structures*, v 34, n 9, p 734-42, 2011

Database: Inspec

Abstract | Detailed | Show preview | Cited by in Scopus (4) | Full text

輸入關鍵字開啟新的搜尋

文獻內容-摘要形式/文獻內容-詳細格式/在Scopus中被引用次數

# 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)

**Search | Selected records | Settings**

**Quick Search**  
1203143 articles found in Compendex & Inspec for 1884-2014: ((stress) WN All fields)

New Search | Edit | Save Search | Create Alert | RSS feed | Search history

Display: 25 results per page

**Refine results**

Limit to | Exclude

Add a term

**Database**

- Compendex (723420)
- Inspec (479723)

**Author**

- Tanaka, K. (728)
- Wang, X. (614)
- Theocaris, P. S. (610)
- Wang, J. (596)
- Suzuki, T. (550)

View more

**Author affiliation**

**Controlled vocabulary**

**Classification code**

**Country**

**Document type**

**Language**

**Year**

**Source title**

**Publisher**

Run new search with selected facets

**Select:** Selected Records (0) | Delete All

Email | Print | Download | Save to Folder | Remove Duplicates

Sort by: Relevance

- Relevance
- Date (Oldest)
- Date (Newest)
- Author (A-Z)
- Source (A-Z)
- Source (Z-A)
- Publisher (A-Z)
- Publisher (Z-A)

- Simulation and analysis of stress in a Li-ion battery with a blended LiMn2O4 and LiNi0.8Co0.15Al 0.05O2**  
Dai, Yiling (Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, United States); Long, White, Ralph E. **Source:** *Journal of Power Sources*, v 247, p 365-376, 2014  
**Database:** Compendex  
[Abstract](#) | [Detailed](#) | [Show preview](#) | [Full text](#)
- Experimental stress analysis in helical pile foundations by the photoelastic method**  
Schiavon, J.A. (University of Sao Paulo, Sao Carlos, Sao Paulo, Brazil); Tsuha, C.H.C.; Esquivel, E.R. **Source:** *Physical Modelling in Geotechnics - Proceedings of the 8th International Conference on Physical Modelling in Geotechnics 2014, ICPMG 2014*, v 2, p 757-762, 2014, *Physical Modelling in Geotechnics - Proceedings of the 8th International Conference on Physical Modelling in Geotechnics 2014, ICPMG 2014*  
**Database:** Compendex  
[Abstract](#) | [Detailed](#) | [Show preview](#)
- Thermal-poro elastic stress effect on stress reorientation in production and injection wells**  
Abou-Sayed, Ahmed S. (Advantek International Corp., United States); Zhai, Zongyu **Source:** *SPE Middle East Oil and Gas Show and Conference, MEOS, Proceedings and Conference 2011, MEOS 2011*  
**Database:** Compendex  
[Abstract](#) | [Detailed](#) | [Show p...](#)
- Effect of stress parameters on ratcheting deformation stages of polycrystalline OFHC copper**  
Das, D. (Metall. & Mater. Eng. Dept., Jadavpur Univ., Kolkata, India); Chakraborti, P.C. **Source:** *Fatigue and Fracture of Engineering Material & Structures*, v 34, n 9, p 734-42, Sept. 2011  
**Database:** Inspec  
[Abstract](#) | [Detailed](#) | [Show preview](#) | [Cited by in Scopus \(4\)](#) | [Full text](#)

# 文獻內容：摘要形式

## Abstract

## Detailed

 Highlight search terms

Record 21 from Compendex &amp; 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<sup>1,2</sup> ; Vogel, Alfred<sup>1</sup> 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:

<sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany<sup>2</sup> 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 plasmas 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

del.icio.us

在Scopus中引用之文獻，  
點選連至Scopus資料庫！

# 文獻內容：詳細格式

Register | Login | End Session

**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

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<sup>1,2</sup>](#)  [Vogel, Alfred<sup>1</sup>](#) 

Author affiliation: <sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany  
<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independentei 313, 060042 Bucharest, Romania

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

Source title: Journal of Fluid Mechanics

Abbreviated source title: J. Fluid Mech.

Volume: 558

Issue date: July 10, 2006

Publication year: 2006

Pages: 281-308

Language: English

ISSN: 00221120

E-ISSN: 14697645

CODEN: JFLSA7

Document type: Journal article (JA)

Publisher: Cambridge University Press

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

Number of references: 79

Main heading: Acoustic emissions

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

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

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

Treatment: Theoretical (THR)

DOI: 10.1017/S0022112006000115

Database: Compendex

Compilation and indexing terms, © 2012 Elsevier Inc.

## Tools in Scopus ①

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.](#)

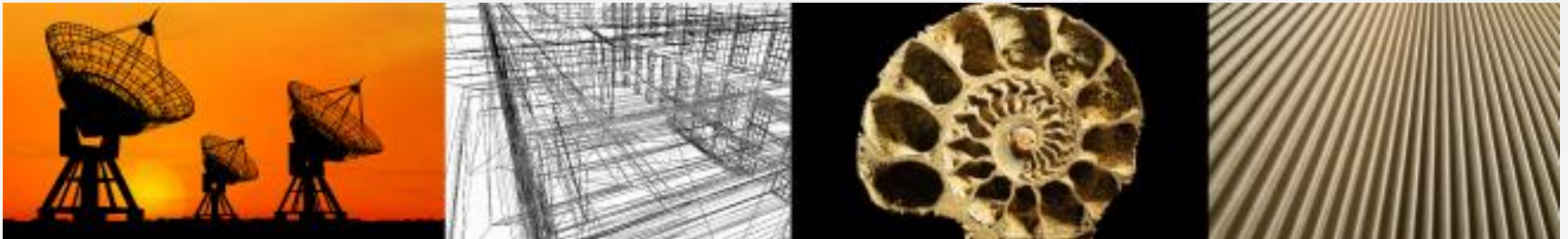
[Learn more about Scopus](#)

## Add a tag ①

Public

[del.icio.us](#)

# 結果中再檢索



# Refine Result 結果再檢索

## Quick Search

1093117 articles found in Compendex &amp; Inspec for 1884-2012: ((stress) WN All fields)

[New Search](#)
[Remove Duplicates](#)
[Edit](#)
[Save Search](#)
[Create Alerts](#)

## Refine results



Add a term

## Database

- Compendex (650999)
- Inspec (442118)

## Author

- Tanaka, K. (714)
- Theocaris, P. S. (610)
- Wang, X. (574)
- Evans, A. G. (535)
- Wang, J. (529)

[View more](#)

## Author affiliation

## Controlled vocabulary

## Classification code

## Country

## Document type

## Language

## Year

## Publisher

Display: 25 results per page

- Page  Email  Print  Download
- Thermal-poro elastic stress effect on...  
**Abou-Sayed, Ahmed S.** (Advantek Inter...  
*Show and Conference, MEOS, Proceedings, v 1, p 490-505, 2011, Society of Petroleum Engineers - 17th International Gas Show and Conference 2011, MEOS 2011*  
 Database: Compendex  
[Abstract](#) | [Detailed](#)
2.  Stress Distribution Regularity Analysis of Ring Plate of Concrete Filled Steel Tube Connections with Ex...  
**Chengyu Lee** (Urban Constr. Coll., Wuhan Univ. of Sci. & Technol., Wuhan, China); **Luo Lie**; **Guo Yao Jie**  
*Materials Research, v 163-167, pt.3, p 1945-50, 2011*  
 Database: Inspec  
[Abstract](#) | [Detailed](#) | [Full text](#)
3.  Prediction of stress waves propagation in progressively loaded seven wire strands  
**Bartoli, I.** (Dept. of Civil Archit. & Environ. Eng., Drexel Univ., Philadelphia, PA, United States); **Castellazzi, G.**; **Marzani, A.**; **Salamone, S.** Source: *Proceedings of the SPIE - The International Society for Optical Engineering*, v 8345, p 834505 (12 pp.), 2012  
 Database: Inspec  
[Abstract](#) | [Detailed](#) | [Full text](#)
4.  Stress responses to large simple shear deformation in elasticity based on the logarithmic strain  
**Yang Lihong** (Coll. of Aerosp. & Civil Eng., Harbin Eng. Univ., Harbin, China); **Qu Jia**; **He Yunzeng** Source: *Key Engineering Materials*, v 488-489, p 424-7, 2012

- 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

Quick Search  
 1093117 articles found in Compendex & Inspec for 1884-2012: **((stress) WN All fields)**  
[New Search](#) [Remove Duplicates](#) [Edit](#) [Save Search](#) [Create Alert](#)

Refine results




Limit to Exclude

Add a term

Database   

Compendex (650999)

Inspec (442118)

Author   

Tanaka, K. (714)




Theocaris, P. S. (610)



Wang, X. (574)


Evans, A. G. (535)




Wang, J. (529)



[View more](#)




Author affiliation   




Controlled vocabulary   




Classification code   

Country   

Document type   

Language   

Year   

Publisher   

Display: 25 results per page

Page format:  Citation  Abstract

Page  Email  Print  Download

1  Thermal-poro elastic stress effect on

**Abou-Sayed, Ahmed S.** (Advantek International Corp., United States); **Zhai, Zongyu** Source: *SPE Middle East Show and Conference, MEOS, Proceedings*, v 1, p 490-505, 2011, Society of Petroleum Engineers - 17th International Gas Show and Conference 2011, MEOS 2011

Database: Compendex

[Abstract](#) | [Detailed](#)

2  Stress Distribution Regularity Analysis of Ring Plate of Concrete Filled Steel Tube Connections with Ex

**Chengyu Lee** (Urban Constr. Coll., Wuhan Univ. of Sci. & Technol., Wuhan, China); **Luo Lie**; **Guo Yao Jie** Source: *Advanced Materials Research*, v 163-167, pt.3, p 1945-50, 2011

Database: Inspec

[Abstract](#) | [Detailed](#) | [Full text](#)

3  Prediction of stress waves propagation in progressively loaded seven wire strands

**Bartoli, I.** (Dept. of Civil Archit. & Environ. Eng., Drexel Univ., Philadelphia, PA, United States); **Castellazzi, G.**; **Marzani, A.**; **Salamone, S.** Source: *Proceedings of the SPIE - The International Society for Optical Engineering*, v 8345, p 834505 (12 pp.), 2012

Database: Inspec

[Abstract](#) | [Detailed](#) | [Full text](#)


4  Stress responses to large simple shear deformation in elasticity based on the logarithmic strain

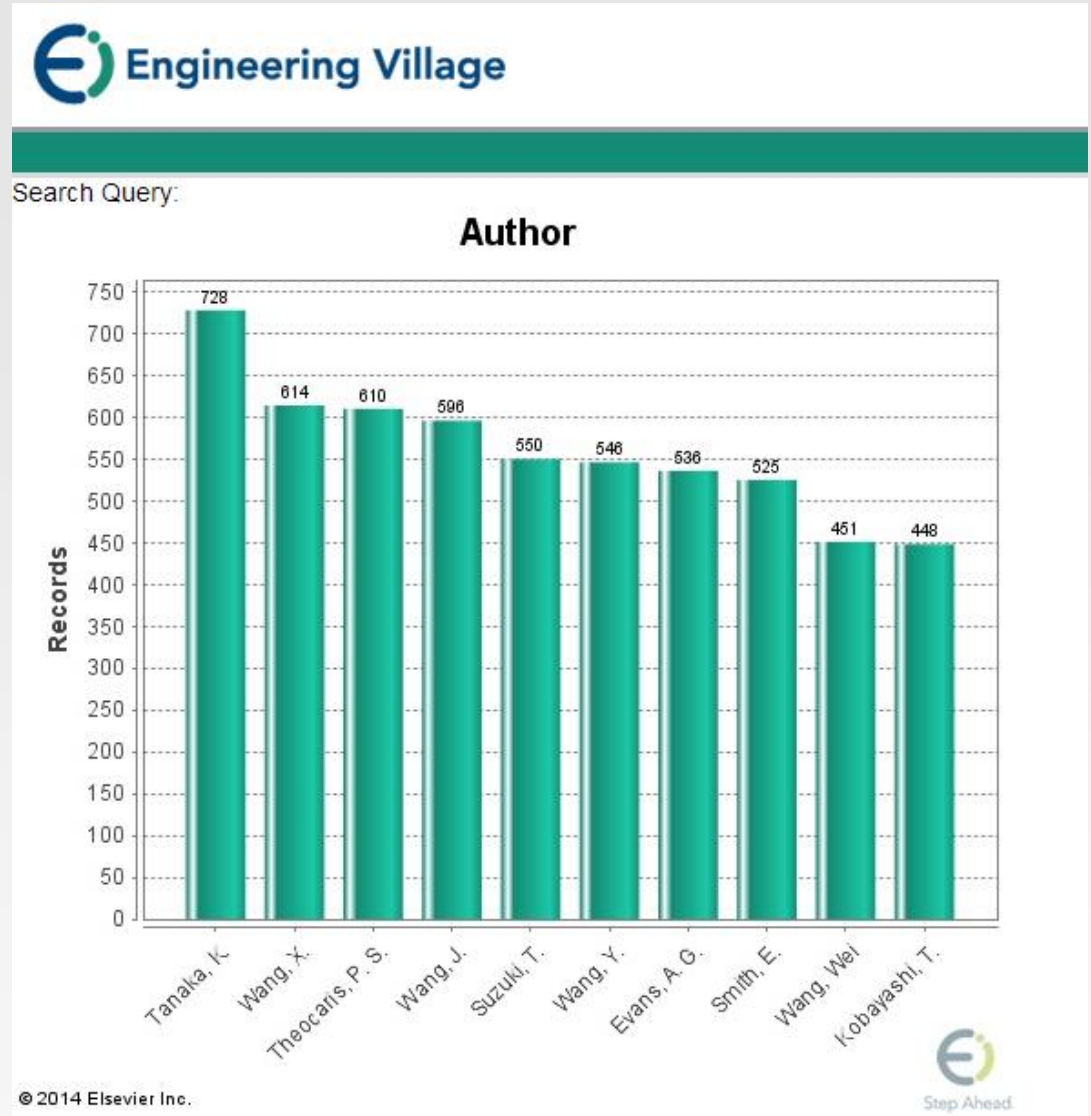
**Yang Lihong** (Coll. of Aerosp. & Civil Eng., Harbin Eng. Univ., Harbin, China); **Qu Jia**; **He Yunzeng** Source: *Key Engineering Materials*, v 488-489, p 424-7, 2012

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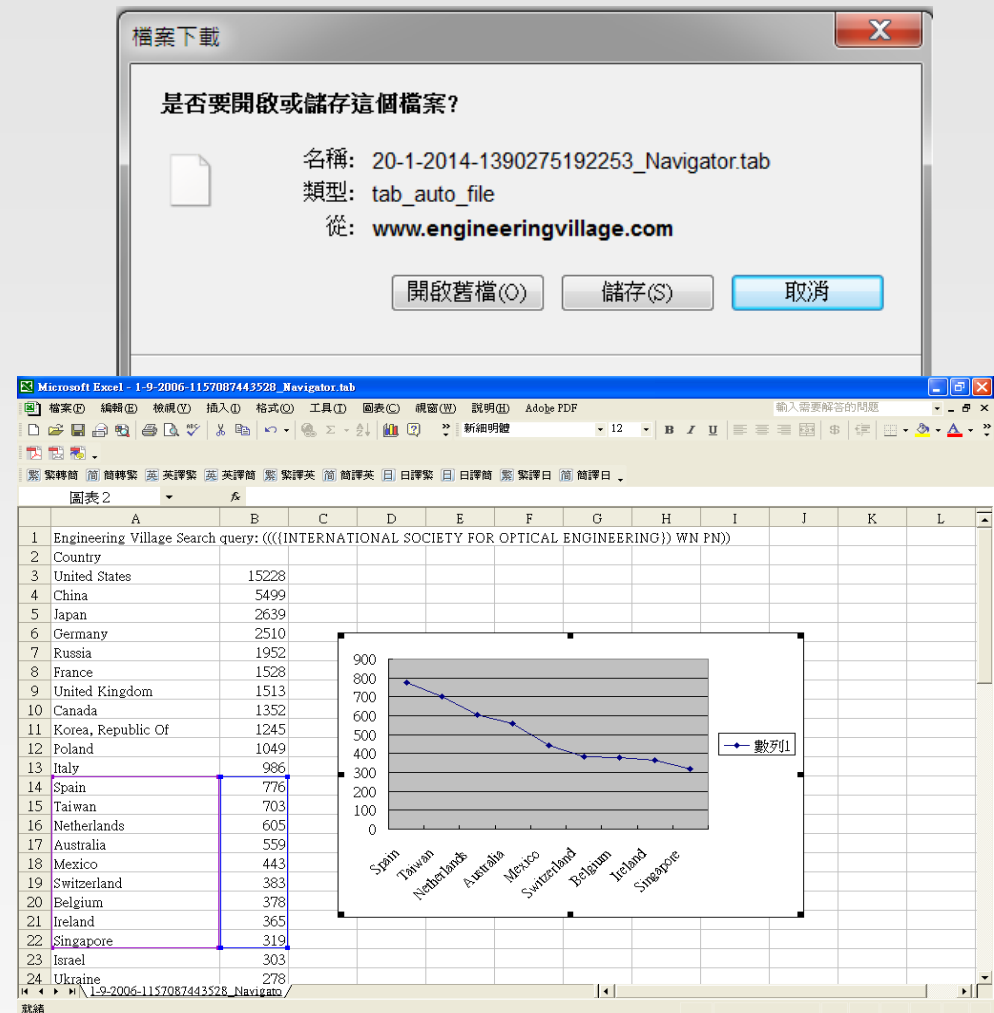
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**Abstract**



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

 Brujan, Emil-Alexandru<sup>1, 2</sup> ; Vogel, Alfred<sup>1</sup> 

 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:

<sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany

<sup>2</sup> 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](#)

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 Classification Code: [631.1.1 Liquid Dynamics](#) - [723.5 Computer Applications](#) - [744.4.1](#)
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Brujan, E.A.; Ikeda, T.; Matsumoto, Y.

**Shock wave emission from a cloud of bubbles**  
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Delbos, A.; Cui, J.; Fakhouri, S.; Crosby, A.J.

**Cavity growth in a triblock copolymer polymer gel**  
(2012) *Soft Matter*

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21.  **Stress wave emission and cavitation bubble dynamic optical breakdown in a tissue phantom**

Brujan, Emil-Alexandru<sup>1, 2</sup> | Vogel, Alfred<sup>1</sup>

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

Author affiliations:

- 1 Institute of Biomedical Optics, University of Lübeck, Peter-Monnikestr. 1, 23562 Lübeck, Germany
- 2 Department of Hydraulics, University Politehnica, Spl. Independenței 110, 76001 Iași, Romania

Abstract:

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

Main heading: **Acoustic emissions**

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

Uncontrolled terms: **Cavitation bubble dynamics** - **Compressive stress**

Classification Code: **631.1.1** Liquid Dynamics - **723.5** Computer Applications - **751.2** Acoustic Properties of Materials - **93.12** Physical Properties of Gases, Liquids and Solids

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

Brujan, Emil-Alexandru<sup>1, 2</sup>; Vogel, Alfred<sup>1</sup>

Source: *Journal of Fluid Mechanics*, v 558, p 281-308, July 10, 2006; ISSN: 0022-1469/7645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University

Author affiliations:

<sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564

<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independentei 313, 06004-Romania

Abstract:

**Stress** wave emission and cavitation bubble dynamics after optical breakdown in 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 as two orders of magnitude from the static values. The discovery of a tensile **stress** breakdown in tissue-like media is of great importance for the assessment of collagen laser surgery because biological tissues are much more susceptible to tensile **stress** than 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](#)

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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<sup>1</sup>; Cai, Long<sup>1</sup>; White, Ralph E.<sup>1</sup>  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:

<sup>1</sup> 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

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Brujan, E.A.; Ikeda, T.; Matsumoto, Y.

**Shock wave emission from a cloud of bubbles**  
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**Cavity growth in a triblock copolymer polymer gel**  
(2012) *Soft Matter*


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21.  **Stress wave emission and cavitation bubble dynamics in a tissue phantom: optical breakdown in a tissue phantom**Brujan, Emil-Alexandru<sup>1, 2</sup> ; Vogel, Alfred<sup>1</sup> Source: *Journal of Fluid Mechanics*, v 558, p 281-308, July 10, 2006, 14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University Press

## Author affiliations:

- <sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnichs-Str. 1, D-23562 Lübeck, Germany
- <sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independenței 110, RO-7600130 Iasi, Romania

## Abstract:

**Stress** wave emission and cavitation bubble dynamics after optical breakdown in a tissue phantom with Nd:YAG laser pulses of 6 ns duration were investigated numerically to obtain a better understanding of the physical mechanisms. The discovery that the optical breakdown in tissue-like media is of great importance for the application of laser surgery because biological tissues are much more susceptible to optical breakdown than static values. The discovery of the optical breakdown in tissue-like media is of great importance for the application of laser surgery because biological tissues are much more susceptible to optical breakdown than static values. © 2006 Cambridge University Press. (79 refs)

Main heading: [Acoustic emissions](#)Controlled terms: [Bubbles \(in fluids\)](#) - [Cavitation](#) - [Compressive stress](#) - [Mechanical properties](#) - [Semiconductor lasers](#) - [Tensile stress](#)Uncontrolled terms: [Cavitation bubble dynamics](#) - [Compressive stress](#)Classification Code: [631.1.1 Liquid Dynamics](#) - [723.5 Computer Simulation](#) - [751.2 Acoustic Properties of Materials](#) - [751.2 Acoustic Properties of Materials](#) - [Liquids and Solids](#)

Treatment: Theoretical (THR)

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

Brujan, Emil-Alexandru<sup>1,2</sup> ✉; Vogel, Alfred<sup>1</sup> ✉

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

Author affiliations:

<sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany

<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independenței 310, 600049 Bucharest, Romania

Abstract:

**Stress** wave emission and cavitation bubble dynamics phantom with Nd: YAG laser pulses of 6 ns duration were numerically to obtain a better understanding of the physics as two orders of magnitude from the static values. The breakdown in tissue-like media is of great importance for laser surgery because biological tissues are much more compressive **stress**. © 2006 Cambridge University Press

Main heading: **Acoustic emissions**

Controlled terms: **Bubbles (in fluids) - Cavitation - Compressible fluids - Mechanical properties - Semiconductor lasers - Tensile strength**

Uncontrolled terms: **Cavitation bubble dynamics - Compressible fluids - Laser surgery - Stress**

Classification Code: **631.1.1 Liquid Dynamics - 723.5 Semiconductor Lasers - 751.2 Acoustic Properties of Liquids and Solids**

Treatment: Theoretical (THR)

Database: Compendex

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**A method for generating structurally aligned grids for semiconductor device simulation**  
Heitzinger, Clemens (IEEE); Sheikholeslami, Alireza; Park, Jong Mun; Selberherr, Siegfried  
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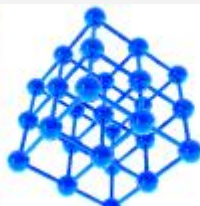
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**From stress-induced fluidization processes to Herschel-Bulkley behaviour in simple yield stress fluids**  
Divoux, Thibaut (Université de Lyon, Laboratoire de Physique, École Normale Supérieure de Lyon, 46 Allée d'Italie 69364, Lyon cedex 07, France); Barentin Catherine; Manneville, Sébastien  
Source: *Soft Matter*, v 7, n 18, p 8409-8418, September 21, 2011  
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<sup>1</sup> Université de Lyon, Laboratoire de Physique, École Normale Supérieure de Lyon, 46 Allée d'Italie 69364, Lyon cedex 07, France

<sup>2</sup> Laboratoire de Physique de la Matière Condensée et Nanostructures, Université de Lyon, Université Claude Bernard Lyon I, 43 Boulevard du 11 Novembre 1918, 69622, Villeurbanne cedex, France

Abstract:

**Stress**-induced fluidization of a simple yield **stress** fluid, namely a carbopol microgel, is addressed through extensive rheological measurements coupled to simultaneous temporally and spatially resolved velocimetry. These combined measurements allow us to rule out any bulk fracture-like scenario during the fluidization process such as that suggested in [Caton et al., Rheol. Acta, 2008, 47, 601-607]. On the contrary, we observe that the transient regime from solid-like to liquid-like behaviour under a constant shear **stress**  $\sigma$  successively involves creep deformation, total wall slip, and shear banding before a homogeneous steady state is reached. Interestingly, the total duration  $t_f$  of this fluidization process scales as  $t_f \propto 1/(\sigma - \sigma_c)^\beta$ , where  $\sigma_c$  stands for the yield **stress** of the microgel, and  $\beta$  is an exponent which only depends on the microgel properties and not on the gap width or on the boundary conditions. Together with recent experiments under imposed shear rate [Divoux et al., Phys. Rev. Lett., 2010, 104, 208301], this scaling law suggests a route to rationalize the phenomenological Herschel-Bulkley (HB) power-law classically used to describe the steady-state rheology of simple yield **stress** fluids. In particular, we show that the steady-state HB exponent appears as the ratio of the two fluidization exponents extracted separately from the transient fluidization processes respectively under

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Divoux, T.; Tamarii, D.; Barentin, C.; Teitel, S.; Manneville, S.  
 Dynamics of a Herschel-Bulkley fluid: A critical-like behaviour  
 Matter  
 r, M.; Ballauff, M.; Voigtmann, Th.  
 Liquid glasses  
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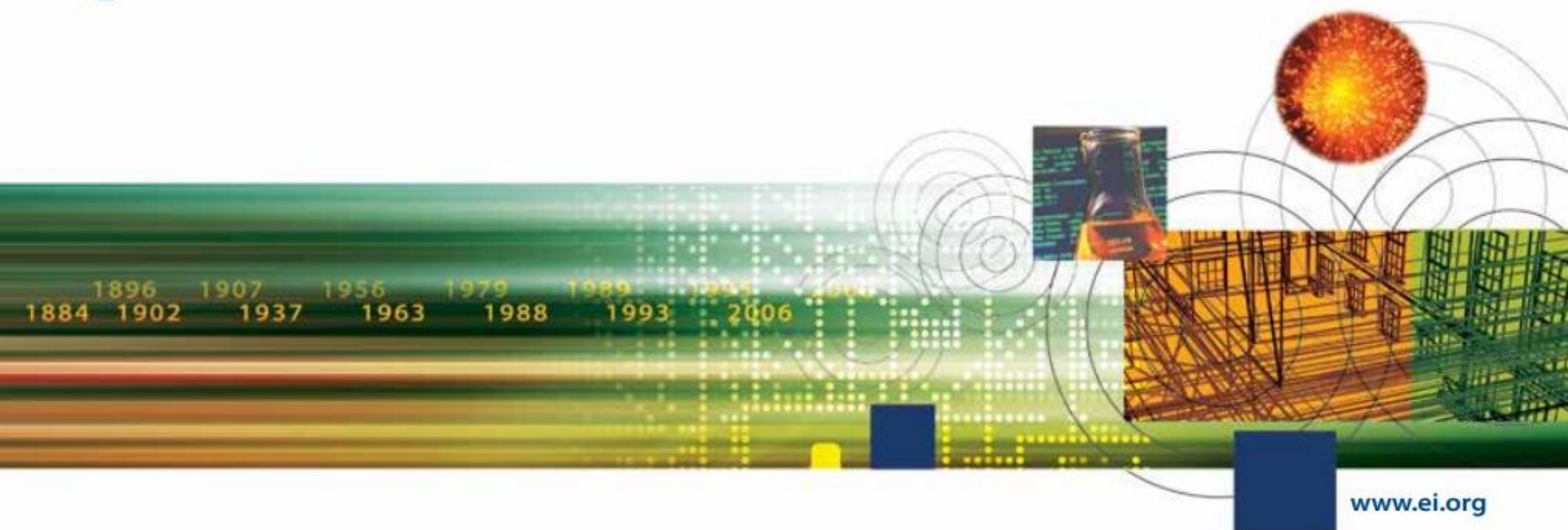
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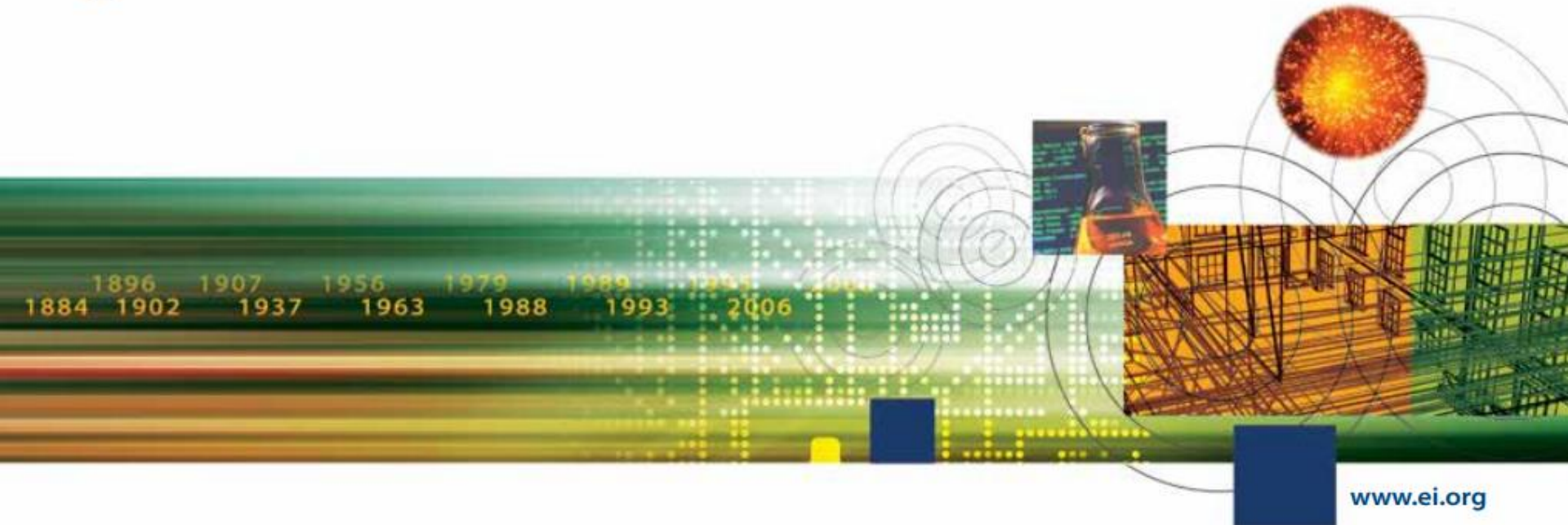
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- IHS Standards
- LexisNexis News
- Scirus
- USPTO

## Thesaurus Search - 索引典搜尋



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

## 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)

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

Quick Search | Expert Search | **Thesaurus Search** | Book Search

**可利用索引典：自動衍生工程專用同義詞彙**

**DATABASE**  Compendex  Inspec  GeoRef  GEOBASE

**SEARCH FOR** radiation

Search  Exact Term  Browse

**EXACT TERM**  
radiation

Broader Terms	Related Terms	Narrower Term
<input type="checkbox"/> Radiation	<input type="checkbox"/> Radiation hazards	<input type="checkbox"/> Cosmic rays
<input type="checkbox"/> Physics	<input type="checkbox"/> Radiation protection	<input type="checkbox"/> Electromagnetic waves
	<input type="checkbox"/> Radiation shielding	<input type="checkbox"/> Ionizing radiation
	<input type="checkbox"/> Irradiation	<input type="checkbox"/> Radiation effects
	<input type="checkbox"/> Radioactivity	<input type="checkbox"/> Radiation flux density
	<input type="checkbox"/> Radioactivity measurement	<input type="checkbox"/> Radiative transfer
	<input type="checkbox"/> Radiogenic gases	<input type="checkbox"/> Solar radiation
	<input type="checkbox"/> Radioisotope removal (water treatment)	
	<input type="checkbox"/> Waves	

**開啟上下位或相關詞彙& 自動組合多個詞彙以利合併檢索**

**LIMIT TO**  
 All document types  
 All treatment types  
 All languages  
 1884 TO 2012  
 1 Updates

**SEARCH BOX**

**COMBINE SEARCH WITH**  
 AND  OR

**SORT BY**  
 Relevance  Publication year

**Latest Resources**  
[Here's what's new](#)  
[Training videos](#)  
[More videos](#)  
[Tell us what you think](#)

**More Search Sources**  

- CRC ENGnetBASE
- Espacenet
- Global Spec
- IHS Standards
- LexisNexis News
- Scirus
- USPTO

# Browse Index



**Quick Search** | Expert Search

**DATABASE**

All  Compendex  
 Chimica  
 GEOBASE  
 Referex

**SEARCH FOR**

AND AND AND AND AND

**LIMIT TO**

All document types  
 All treatment types  
 Discipline type not available  
 All languages

1884 TO 2012  
 1 Updates

Search Reset

Engineering Village - Browse Index - Look...

www.engineeringvillage.com/controller/servlet/Controller?CID=lookupIndexes&database=1&lookup

Search for: A Find Selected index: Author

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

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

Select terms below to add to search

Connect terms with:  AND  OR

A  
 A AHMED I.  
 A ABDULLIN SH  
 A AL-TURAIGI MOHAMMED  
 A ARNDT R.E.  
 A AZIZ A RASHID  
 A BECCARA S.  
 A BIRANG M.  
 A BRASSARD L.  
 A BRASSARD LOTHAR  
 A BU-LIZI  
 A BURCAT  
 A CAMPO MARCUS  
 A CHUNYAN CHEN  
 A COUCOULAS  
 A DAVIES PETER  
 A DOHEE CHO  
 A DONAU SZPINDLER G.  
 A ERCHA  
 A FA-YOU

Next page >

**Browse Indexes**

- Author
- Author affiliation
- Controlled term
- Source title
- Publisher

Browse Index : 可利用索引功能瀏覽 / 查詢作者、作者服務機構、Ei控制詞彙、期刊名稱和出版社

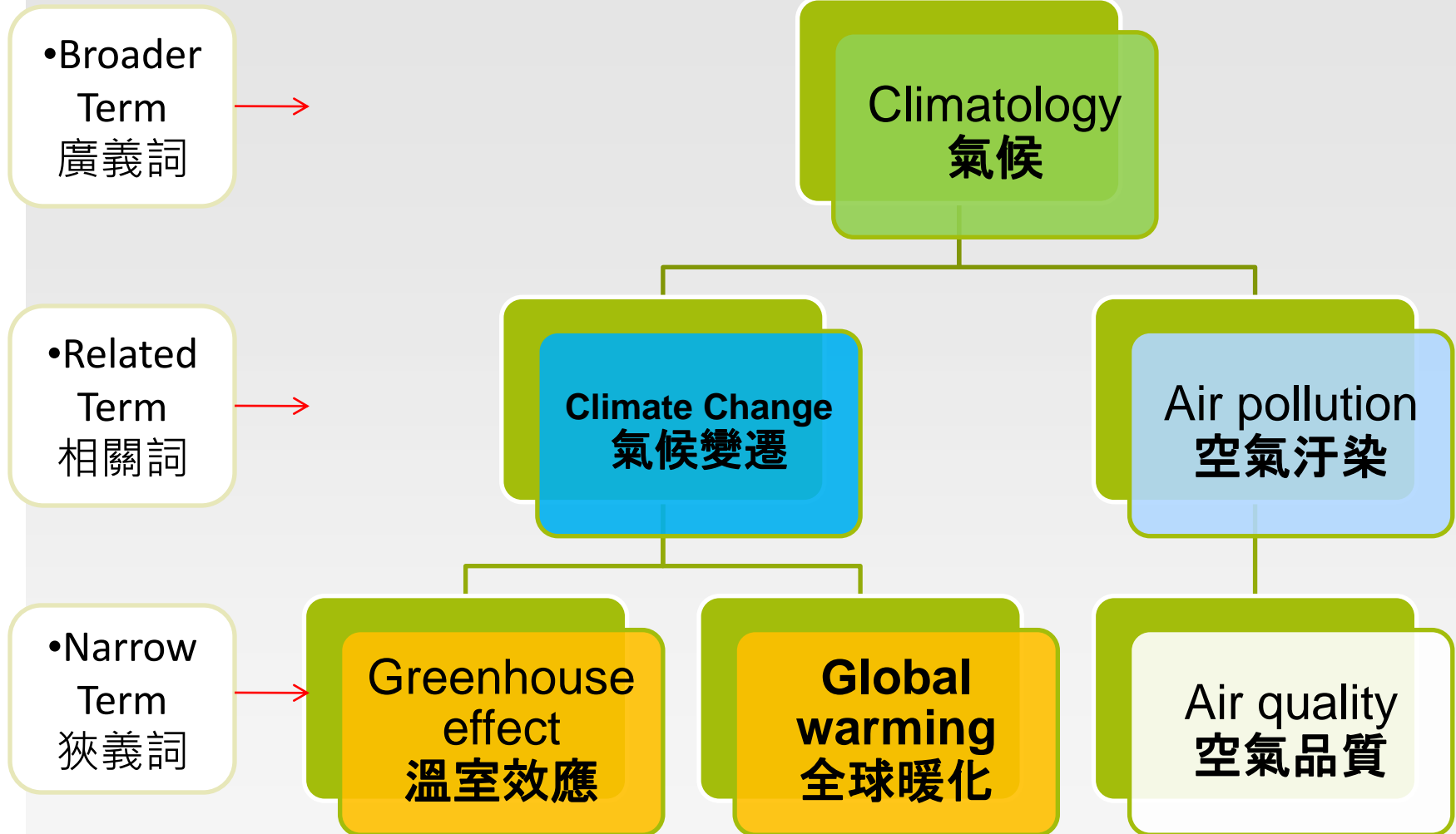
**Latest Resources**

- Here's what's new
- Training videos
- More videos
- Tell us what you think

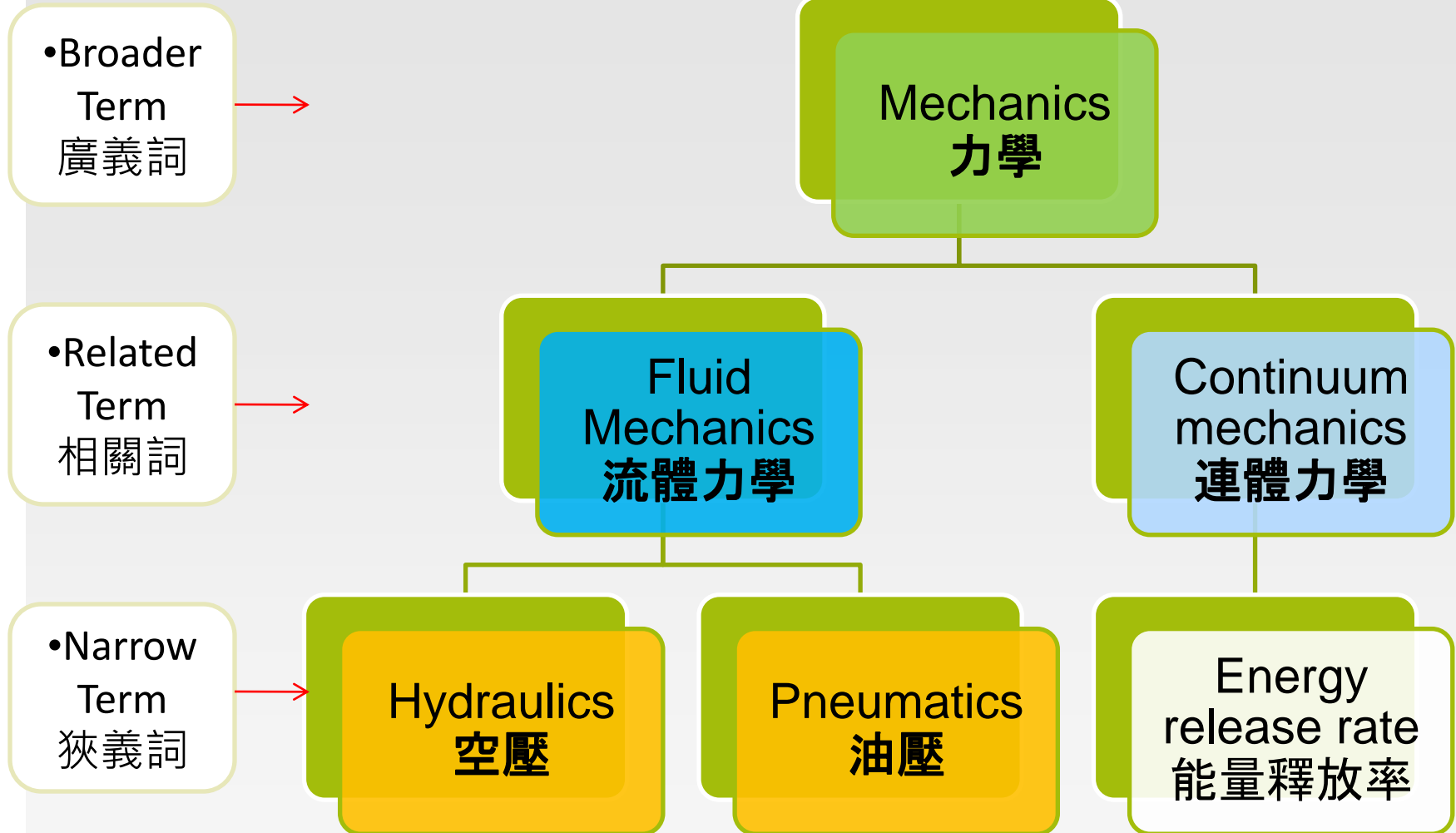
**More Search Sources**

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- IHS Standards
- LexisNexis News
- Scirus
- USPTO

# 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




**Search history** Query details : 顯示詳細檢索資訊 Hide

Combine Searches:   SORT BY  Relevance  Publication year

Combine	Search	Results	Database	Delete
3. <input type="checkbox"/> <input checked="" type="checkbox"/>	("Lithium iron phos <span>Query details</span>	551	Compendex	<input checked="" type="checkbox"/>
2. <input type="checkbox"/> <input checked="" type="checkbox"/>	((stress) WN All fiel <span>Query details</span>	1,203,143	Compendex & Inspec	<input checked="" type="checkbox"/>
1. <input type="checkbox"/> <input checked="" type="checkbox"/>	((stress) WN All fields) <span>Query details</span> <span>Edit</span> <span>Save Search</span> <span>Create Alert</span>	1,203,143	Compendex & Inspec	<input checked="" type="checkbox"/>

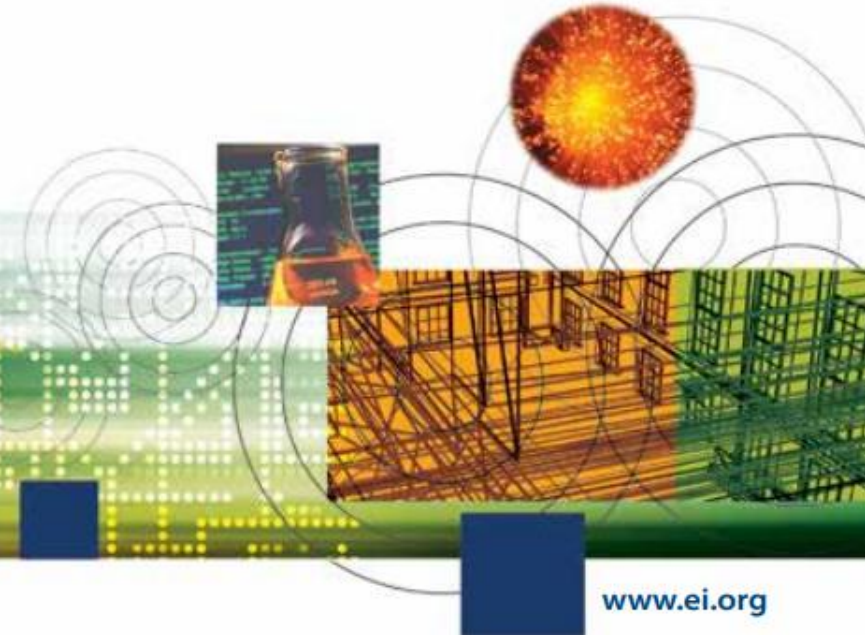
View Saved Searches

**Note:** This Search history will contain the latest 50 searches you perform in this session.

-  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

1896 1907 1956 1979 1989 1995 2000  
1884 1902 1937 1963 1988 1993 2006



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# 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

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

Help  
Contact  
What's New

## My Settings

- [View/Update Saved Searches & Alerts](#)  
Manage your saved searches and email alerts.
- [View/Update Folders](#)  
View, rename or delete your folders.
- [Modify personal details & preferences](#)  
Change or add information to your personal details entered during registration.
- [Change Password](#)  
Change the password you use to login.

### View/Update Folders

 semiconductor	 View Folder	 Rename Folder	 Delete Folder
 Coatings	 View Folder	 Rename Folder	 Delete Folder
 climate changes	 View Folder	 Rename Folder	 Delete Folder

# My Saved Search & Alerts

Search | Selected records | **Settings** | Tags & Groups | Bulletins

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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. <a href="#">Delete</a>	Thesaurus	{{{Electromagnetic waves} AND {Solar radiation}} WN CV)		Relevance	510	1969-2012	Compendex	03/05/2012	<input type="checkbox"/>
2. <a href="#">Delete</a>	Expert	{{{semiconductor} WN ALL}) AND {{{ieee} WN AF}}	On	Relevance	2,396	1969-2012	Compendex	03/27/2012	<input type="checkbox"/>
3. <a href="#">Delete</a>	Thesaurus	{{{Electromagnetic waves} AND {Solar radiation}} WN CV)		Relevance	510	1969-2012	Compendex	04/25/2012	<input type="checkbox"/>
4. <a href="#">Delete</a>	Thesaurus	{{{Solar radiation} WN CV) AND {{{Electromagnetic waves} WN CV}}}		Relevance	512	1969-2014	Compendex	12/04/2013	<input type="checkbox"/>

[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

### 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



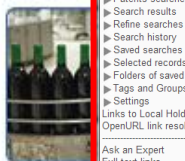
Mechanical



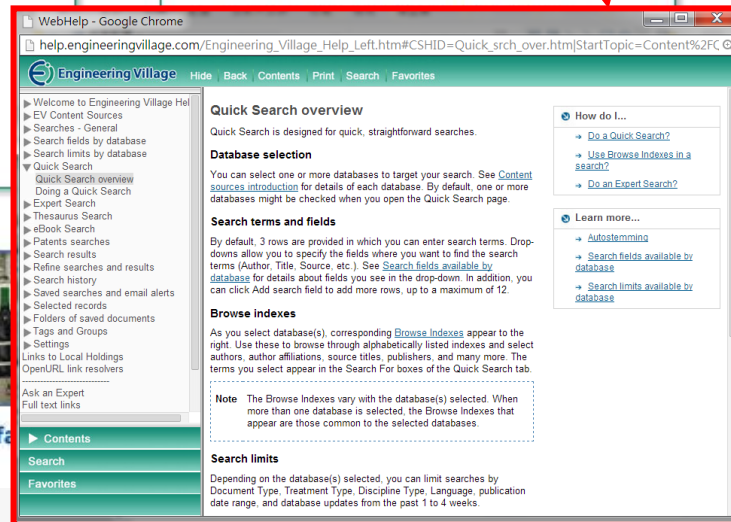
Electrical



Signal Processing



Manufa



WebHelp - Google Chrome

help.engineeringvillage.com/Engineering\_Village\_Help\_Left.htm#CSHID=Quick\_srch\_over.htmStartTopic=Content%2FC...

Engineering Village

Quick Search overview

Quick Search is designed for quick, straightforward searches.

Database selection

You can select one or more databases to target your search. See [Content sources introduction](#) for details of each database. By default, one or more databases might be checked when you open the Quick Search page.

Search terms and fields

By default, 3 rows are provided in which you can enter search terms. Drop-downs allow you to specify the fields where you want to find the search terms (Author, Title, Source, etc.). See [Search fields available by database](#) for details about fields you see in the drop-down. In addition, you can click Add search field to add more rows, up to a maximum of 12.

Browse indexes

As you select database(s), corresponding [Browse indexes](#) appear to the right. Use these to browse through alphabetically listed indexes and select authors, author affiliations, source titles, publishers, and many more. The terms you select appear in the Search For boxes of the Quick Search tab.

Note: The Browse Indexes vary with the database(s) selected. When more than one database is selected, the Browse indexes that appear are those common to the selected databases.

Search limits

Depending on the database(s) selected, you can limit searches by Document Type, Treatment Type, Discipline Type, Language, publication date range, and database updates from the past 1 to 4 weeks.

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

**ELSEVIER**

English | 简体中文 | 繁體中文

Elsevier.com 此網站 搜索

**Engineering Village**  
Engineering Village 快速參考指南  
[www.engineeringvillage.com](http://www.engineeringvillage.com)

Engineering Village (EV) 嚴選多種與工程領域相關的優質資料庫，提供一系列優質的應用科學及工程領域專業資訊及資源！

**Compendex**  
全球工程研究界一致推崇的優質資料庫，自1969年迄今，收錄了6,000多種學術期刊、產研雜誌及會議論文；收錄來自65多個國家、190種工程學科領域相關文獻，每年持續新增約65萬筆資料且資料每周更新！

**Inspec**  
由英國工程技術學會製作，內容涵蓋全球物理、電子電機、電腦、資訊技術四大主題，是工程領域研究人員廣泛使用的工具；自1909年迄今，收錄了5,000多種科學和技術性期刊、2,500種會議論文且資料每周更新！

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- + 活動與講座
- + Elsevier相關新聞剪報
- 如何投稿Elsevier旗下期刊
- 期刊收錄在Scopus上的標準
- + 關於我們
- 網站地圖

首頁

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- 如何投稿Elsevier旗下期刊
- 期刊收錄在Scopus上的標準
- + 關於我們
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Introduction EV資料庫簡介

Quick Search - Homepage 快速搜尋 - 搜尋首頁

資源下載

- + EV 数据库簡介 (中文)
- + EV 快速參考指南 (中文)
- + EV 教育訓練 PPT (中文)
- + EV User Guide (English)
- + EV EiPatent (English)
- + EV Quick Reference Guide (English)
- + EV EiBackfile (English)

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最新活動

**Scopus Wants YOU!**

2014/01/20 Scopus Wants YOU! 尋找人，使用心得徵人活動

Elsevier徵求Scopus達人！趕快投稿分享Scopus經驗，有機會抽大獎並可能成為用講師哦...

**REAXYS**

2014/01/03 台灣毒物事件表

近年來，一件件重大食品安全事件屢屢存在你我身邊已久的「毒物問題」，更喚起對於食的安全以及用的安全的重視，面對的毒害，除了消極被動地選擇遺忘，可極的作為

**Scopus**

2013/12/23 掌握經典文獻、創造價值

2012諾貝爾經濟學獎頒給兩位研究「配」理論與實用的兩位傑出科學家 - Lior Alvin Roth，許多創新研究是站在舊有而將其發揚光大！

**Engineering Village**

2013/12/16 善用工程專用語言 查出目標

標題有獎徵答 得獎名單 單篇文獻以語言 - 控制詞彙 (controlled term) 分類，選出一個控制詞彙作為『主標題 (main heading)』，讓您更迅速掌握文獻主題

**Scopus**

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## 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>