



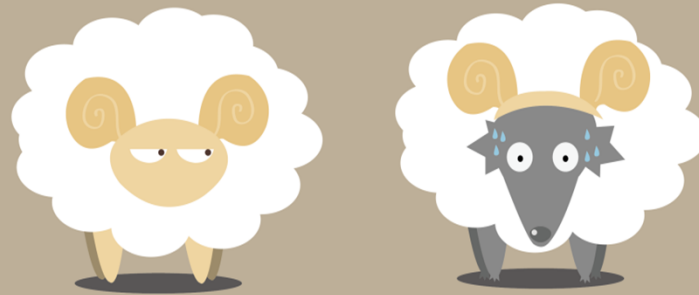
Engineering Village(簡稱EV) Compendex 資料庫

圖書館 參考組 李麗美 105.4.28



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資源情報站 - 客製化專屬工學院系所的館藏資源



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找圖書

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This guide directs you to resources that will best enable you to conduct Mechanical Engineering research. If you need more assistance, please [Ask a Librarian!](#)

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機械工程學系

找文章

• 國外學科指引

新書通報 New Books

CNC Handbook
ISBN: 9780071799485
作者 Kief, Hans B.
出版者 New York : McGraw-Hill, c2013.
出版年 2012
索書號 621.9023 K541
館藏地 圖書館 6樓西文書庫

核心資料庫 Core Databases

EI(EV) - Engineering Village

收錄1969年至今190種工程領域學科5600多種期刊文獻、雜誌、會議紀錄和技術報告資料，如機械、土木、環境、電子、結構、材料化學、固態物理學、超導體、生物工程學、能源、化學、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55個國家的出版品超過一千萬筆的資料，每年新增約65萬筆資料。

IEL (IEEE / IEE Electronic Library)

內容包括IEEE 與 IET 自1988 年以來出版之期刊雜誌、會議論文、及技術標準(不含標準草案)，現約有350多萬篇文獻，平均每週更新15,000 篇文獻，全文採用PDF 格式，全文影像與其紙本一致，包括讀者

Subject Guide

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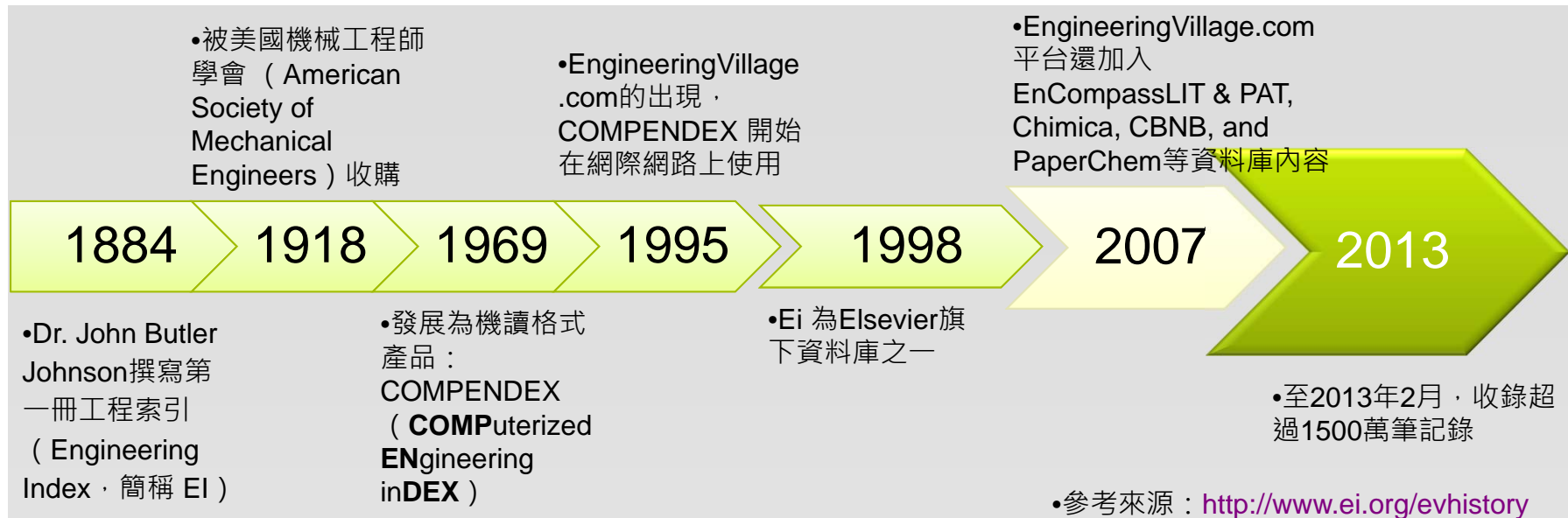
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EI 小故事



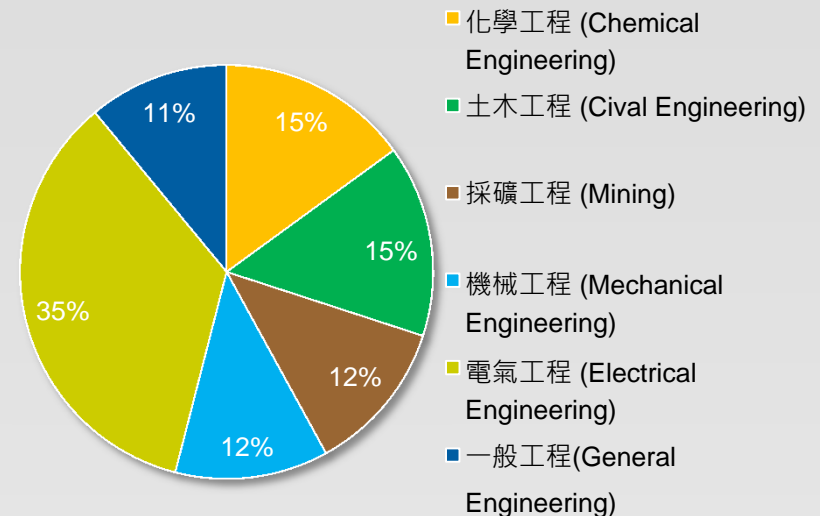
Engineering Village (簡稱EV) 為一平台名稱，其內容有 COMPENDEX、EnCompassLIT & PAT, Chimica, CBNB, PaperChem 等工程相關的資料庫內容。

COMPENDEX為 EI 前身，目前台灣大專院校圖書館多以訂購 COMPENDEX為主，因此，如何得知自己文獻是否被 EI收錄，**則在 EV 平台的 COMPENDEX 查詢即可！**

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- 收錄年代：1969年至今
- 5,600多種期刊文獻、會議記錄和技術報告資料
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- 收錄超過65個國家的出版品
- 更新頻率：每週
- 回溯期刊：1884年-1968年

Compendex 所涵蓋之學科領域



檢索技巧

- 右切截 (*)
 - 輸入 **comput***，可找到
 - computer、
 - computers、
 - computerize
 - computerization
- 加 “climate change”
- 萬用字元(?)
 - 使用問號可以代表一個字母
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或 **women**的資料

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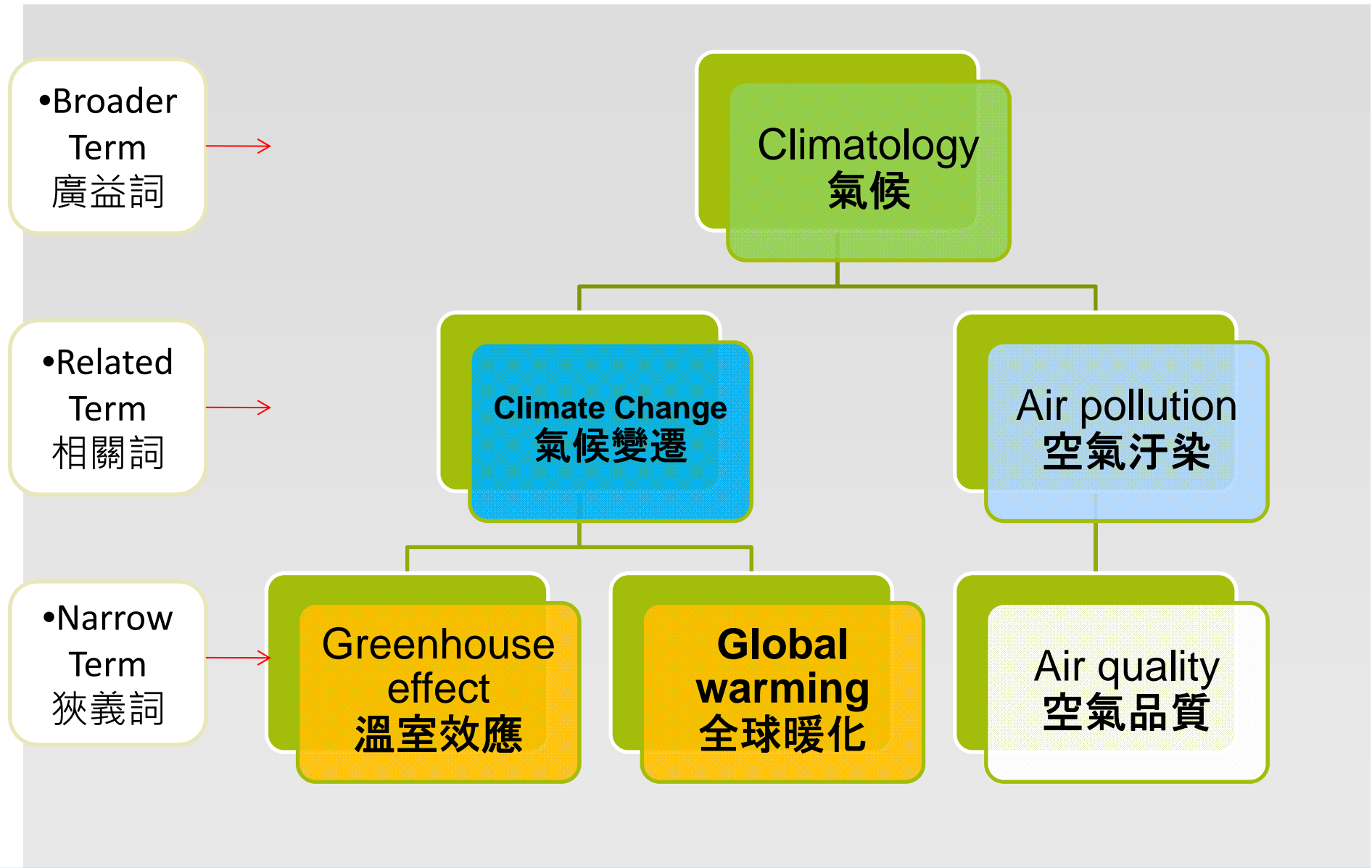
THESAURUS索引典

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。

範例 - climate change



如何知道心中關鍵字是否為索引詞彙



Quick Search Expert Search **Thesaurus Search** eBook Search

DATABASE Compendex Inspec GeoRef GEOBASE EnCompass

Databases | Search tips

SEARCH FOR ⓘ

Search Exact Term Browse

Search- 顯示所有相似意義的控制詞彙

Exact - 顯示該詞彙階層關係

Browse - 該詞彙的字母順序位置, 但不一定在意義上有關係

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climate change >> Climate change

 Climate change ☰**Broader Terms** Climatology**Related Terms**

- Air pollution
- Atmospheric composition
- Atmospheric temperature
- Climate models
- Greenhouse gases

Narrower Term

- Global warming
- Greenhouse effect

LIMIT TO ?All document types ▼All treatment types ▼All languages ▼ 1884 ▼ **TO** 2013 ▼ 1 ▼ Updates**SEARCH BOX**Global warming
Greenhouse effect**COMBINE SEARCH WITH** ? AND OR**SORT BY** ? Relevance Publication year**Latest Resources**

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結果頁面 - 1

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

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-圖表顯示
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-打開/關閉限縮
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改變限縮欄位
順序

可選擇每頁顯示幾筆資料

The screenshot shows the search results interface for Engineering Village. At the top, the search bar indicates '1093117 articles found in Compendex & Inspec for 1884-2012: ((stress) WN All fields)'. Below this is a 'Refine results' sidebar with various filters like Database, Author, and Author affiliation. The main results area displays a list of articles with options to view abstracts, detailed records, or full texts. A dropdown menu for 'Display' is open, showing options for 25, 50, and 100 results per page. A 'Cited by in Scopus' link is visible at the bottom of the results list.

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

Quick Search

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

New Search Remove Duplicates Edit Save Search Create Alert

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

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

Go to page 1 of 43725 Go Next >

Page format: Citation Abstract Detailed record Clear selected records on new search

Page Email Print Download Save to Folder View Selections Sort by

Relevance

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

- 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 & Gas Show and Conference, MEOS, Proceedings, v 1, p 490-505, 2011, Society of Petroleum Engineers - 17th International Conference on Oilfield Chemistry, MEOS 2011
 Database: Compendex
[Abstract](#) | [Detailed](#)
- Stress Distribution Regularity Analysis of Ring Plate of Concrete Filled Steel Tube Connections with E...
 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](#)
- 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 12th International Conference on Numerical and Experimental Methods in Structural Analysis, NExMES 2012
 Database: Inspec
[Abstract](#) | [Detailed](#) | [Full text](#)
- 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

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

在Scopus中引用之文獻

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, Alfred¹

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 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.

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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

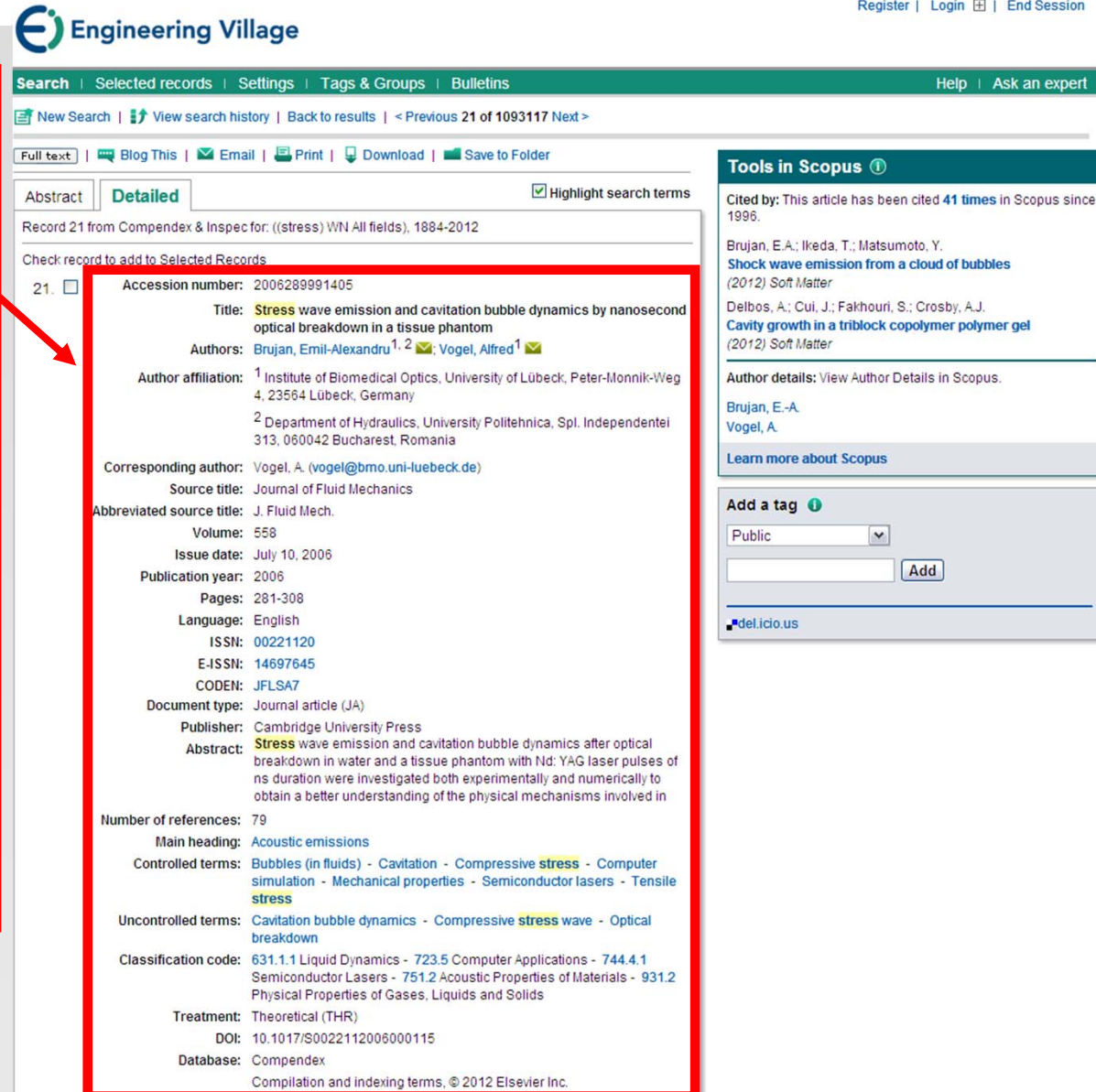
Abstract：文章內容摘要

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



Engineering Village

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. 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, Alfred¹ ✉

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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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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Display: 25 results per page Go to page: 1 of 2758 **Go**

Select: Selected Records (2) | Delete All

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Choose your download settings for this session

Location:	Format:	Output:
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Refine results

Limit to Exclude

Add a term

Controlled vocabulary

- Data Mining (4938)
- Algorithms (1298)
- Database Systems (677)
- Information Management (562)
- Learning Systems (527)

[View more](#)

Author

- Yu, Philip S. (24)
- Han, Jiawei (22)
- Wang, Wei (19)
- Hong, Tzung Pei (19)
- Tsumoto, Shusaku (16)

[View more](#)

Author affiliation

- Ieee (309)
- Microsoft Research (193)
- Carnegie Mellon University (186)
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- School Of Computer Engineering, Nanyang Technological University (176)

Database: Compendex

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4. **Student data mining solution-knowledge management system related to higher education institutions**

Natek, Srecko (International School for Social and Business Studies, Slovenia); Zwilling, Moti **Source:** *Expert Systems with Applications*, v 41, n 14, p 6400-6407, October 15, 2014

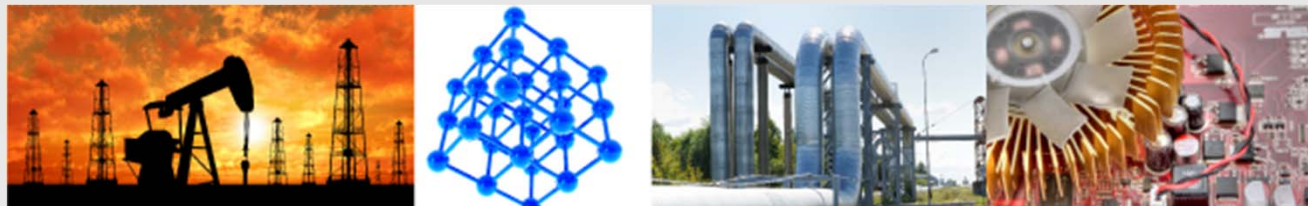
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¹ Université de Lyon, Laboratoire de Physique, École Normale Supérieure de Lyon, 46 Allée d'Italie 69364, Lyon cedex 07, France

² 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** σ 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 σ_c stands for the yield **stress** of the microgel, and β 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](#)
Nature Letters

...r, M.; Ballauff, M.; Voigtmann, Th.
[Liquid-like behaviour of colloidal glasses](#)
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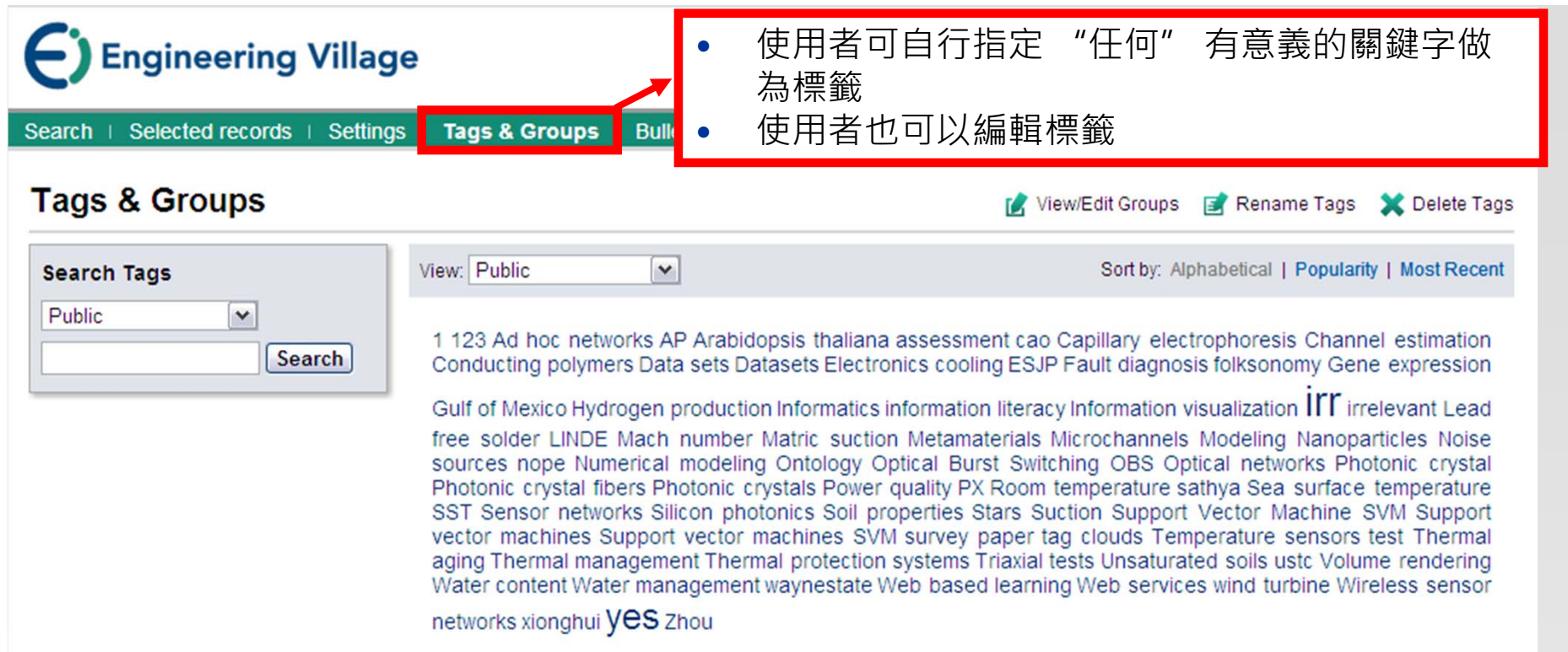
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練習題目

- 利用工程安全相關詞彙(例如public safety)找到一篇2015年發表工程師如何設法盡量減少危險設施的設計災難潛伏期的文章: Taking responsibility for public safety: How engineers seek to minimize disaster in cubation in design of hazardous facilities,
- 其控制詞彙提及Design - Disasters - Hazards - Petrochemical plants - Standards外, 還有哪個控制詞彙呢?
 - A. Engineering standards
 - B. Social science research
 - C. Behavioral research