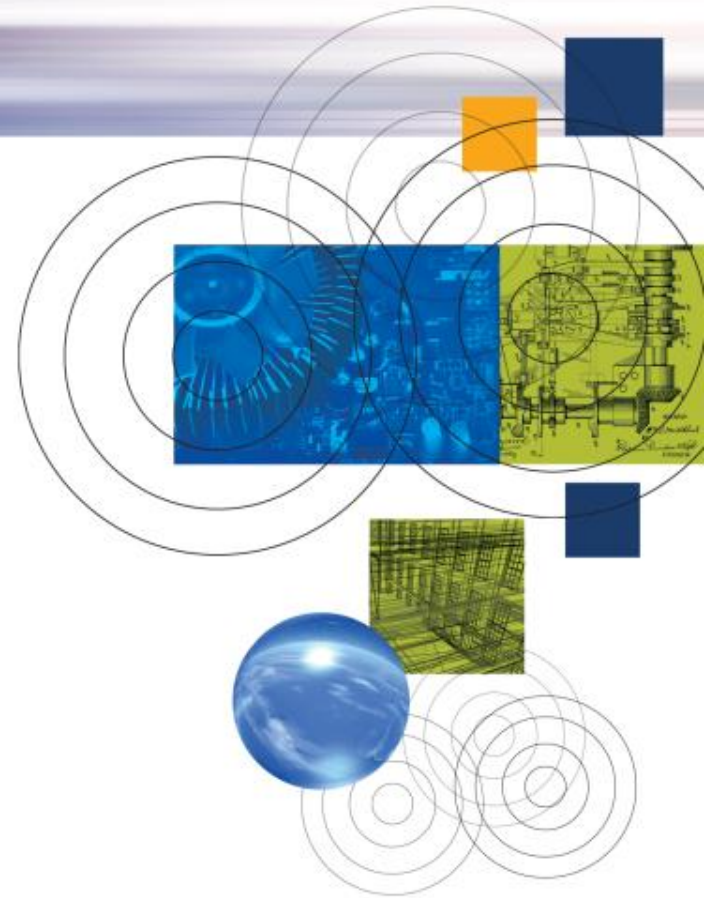


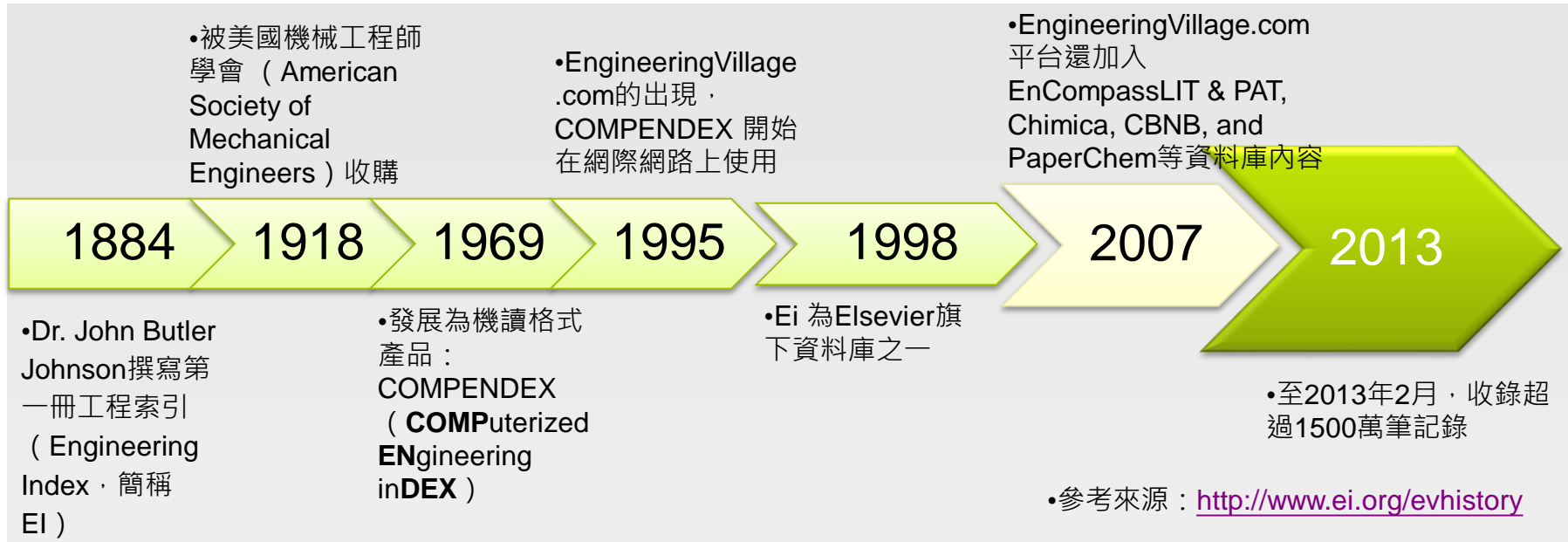
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 Engineering Village



EI 小故事



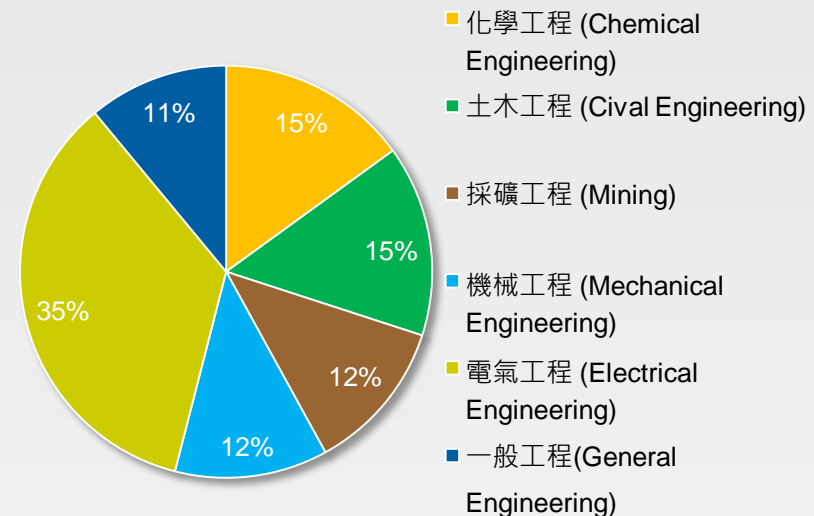
Engineering Village (簡稱EV) 為一平台名稱，其內容有 COMPENDEX、EnCompassLIT & PAT, Chimica, CBNB, PaperChem 等工程相關的資料庫內容。

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！**

Compendex

- 收錄年代：1969年至今
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- 資料量：超過 1500 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65個國家的出版品
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Compendex 所涵蓋之學科領域



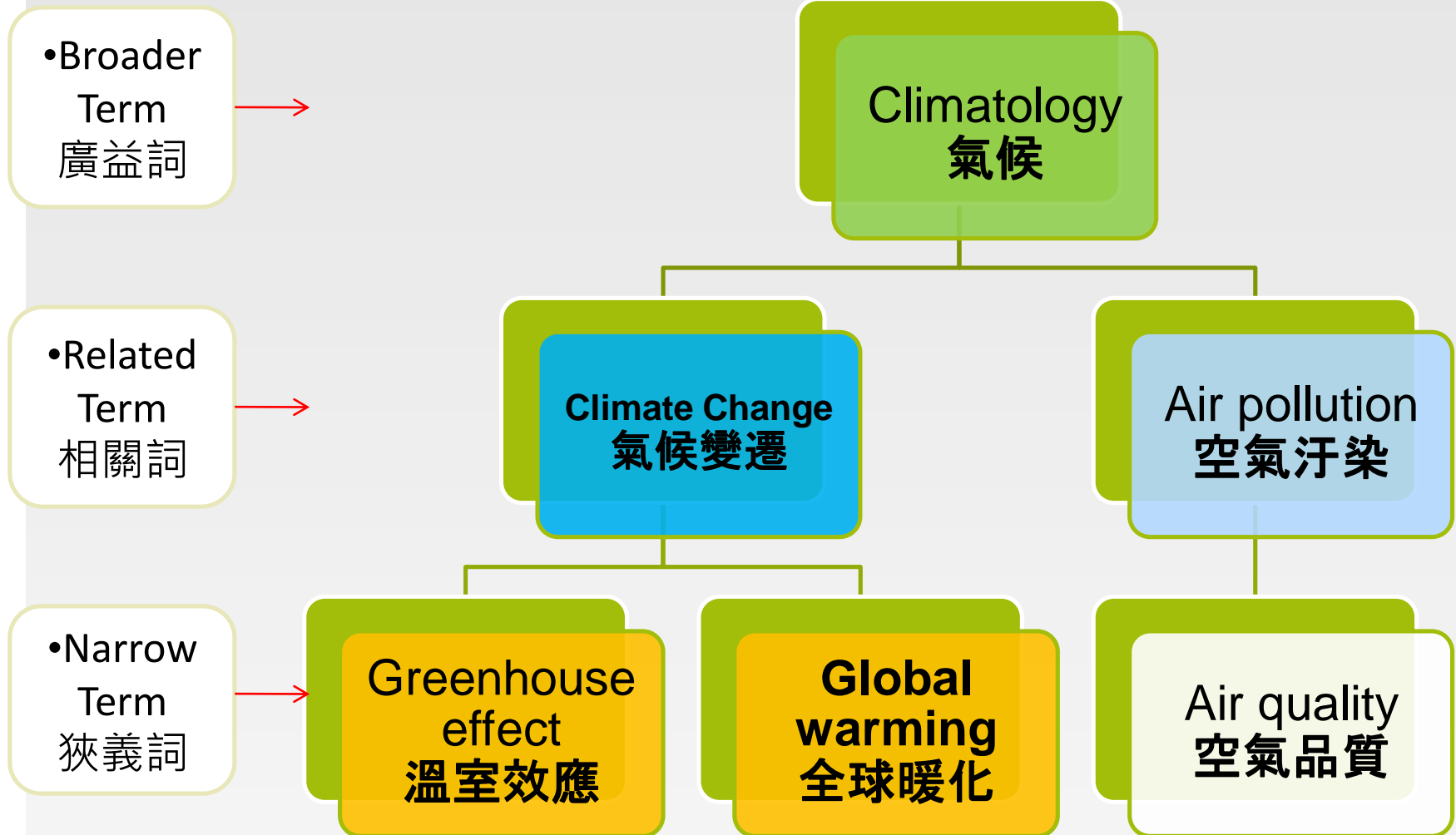
THESAURUS索引典

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




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 Greenhouse effect

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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
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Abstract | Detailed
- Stress Distribution Regularity Analysis of Ring Plate of Concrete Filled Steel Tube Connections with Exterior Diaphragms
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
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- 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
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- 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
Database: Inspec
Abstract | Detailed | Full text
- From stress-induced fluidization processes
Divoux, Thibaut (Université de Lyon, Laboratoire de Mécanique des Fluides et des Solides, UMR5272, CNRS, Université de Lyon, 69622 Villeurbanne, France); Barentin, Catherine; ... Source: ...
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 About-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 Elasticity
 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
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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, Germany² 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

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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.

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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. \(vogel@bmo.uni-luebeck.de\)](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

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Author

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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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