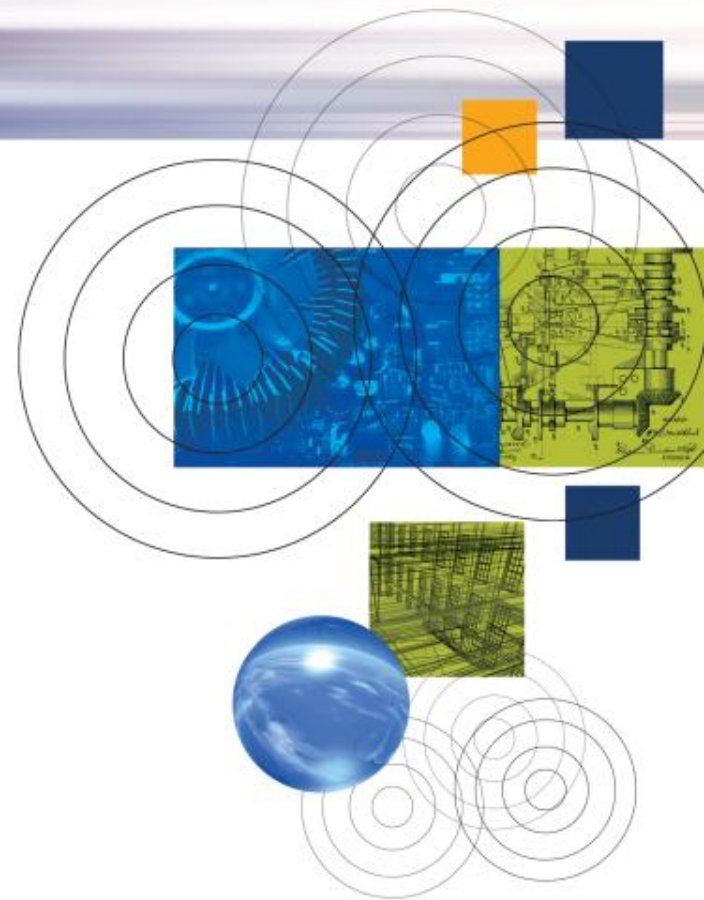


Elsevier 数据库教育培训一

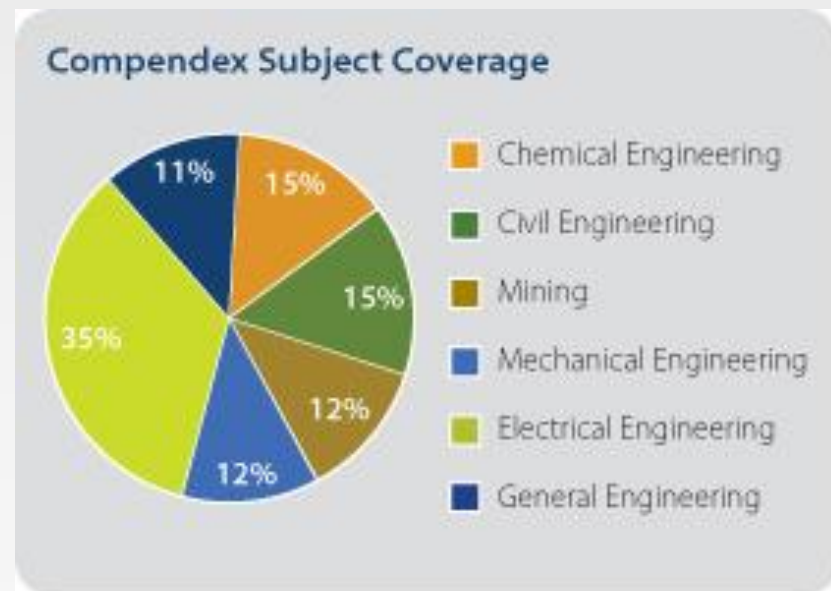


Engineering Village接口与收录内容

- 由美国Elsevier Engineering Information Inc. 所出版，提供工程领域的信息
- EV 平台接口下 内涵各种多元数据库：
 - **Compendex**(其中Compendex回溯期刊需另购)
 - INSPEC (需另购)
 - NTIS (需另购)
 - Referex Engineering 电子书 (需另购)
 - GeoBASE (需另购)
 - GeoRef (需另购)
 - EnCompassLIT & EnCompassPAT (需另购) Chimica&CBNB (需另购)
 - PaperChem (需另购)
 - USPTO / EPO专利 (需另购)
 - Scirus

Compendex

- 收录年代：1969年至今
- 5,600多种工程研讨会、期刊、商业杂志、会议记录和技术报告资料
- 资料量：超过 1580 万篇，每年新增约 65 万篇资料
- 包含 190 种工程领域学科，如：化学工程、土木工程、矿业、机械工程、电子工程、环境、结构、材料科学、固态物理学、超导体、生物工程学、能源、光学、空气和水污染、固态废弃物处理、道路运输、运输安全、应用工程、质量管理、工程管理等
- 收录超过55个国家的出版品
- 更新频率：每周
- 回溯期刊：1884年-1968年



Compendex – 细分学科领域

Civil Engineering – in the areas of:

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

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:

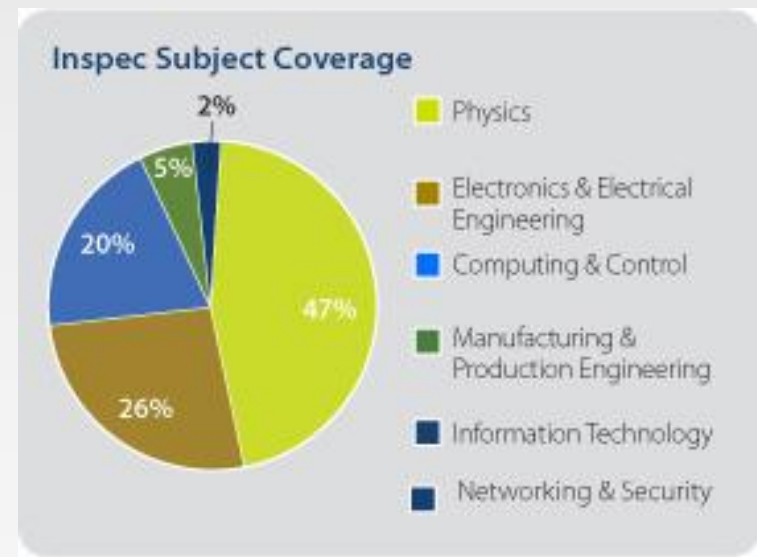
- Fuel Technology
- Metal Groups
- Metallurgical Engineering
- Petroleum Engineering

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

INSPEC

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



NTIS

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

GeoBASE

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

GeoRef

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

Referex (电子书)

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

专利： USPTO / EPO

- 收录950万篇专利数据

USPTO

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

EPO

- 资料来源： 欧洲专利局
- 更新频率： 每周更新
- 需另购

EncompassLIT & EnCompassPAT

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

Chimica & CBNB

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

PaperChem

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

EV特色

检索利器

- 1.Refine Results : 提供**多种字段**支持精确检索, 并可做成图表
如: 控制词汇、索书号、文件形式、刊名等(共10种)
- 2.专家思维: 控制词汇 - Thesaurus 词库
- 3.使用者思维: 自然语汇 - Tag 标签
- 4.专业的专家检索模式: 可自行输入检索语法

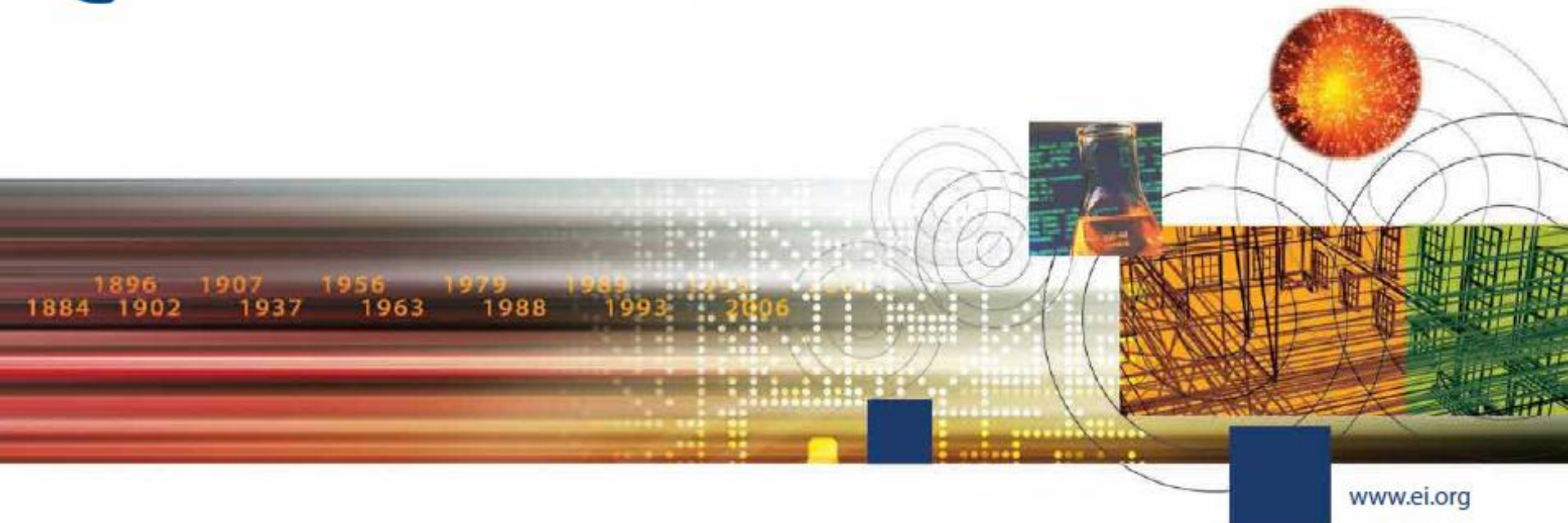


数据库比较

		
数据库类型	全文数据库	索摘数据库平台
收录内容	Elsevier旗下出版资源	应用科学和工程 Compendex
特色	<ol style="list-style-type: none">1.四大Alert通报2.图表检索功能	<ol style="list-style-type: none">1.精确字段检索2.控制词汇索引3.自然语汇索引4.专家检索语法
更新频率	每日	每周

检索技巧

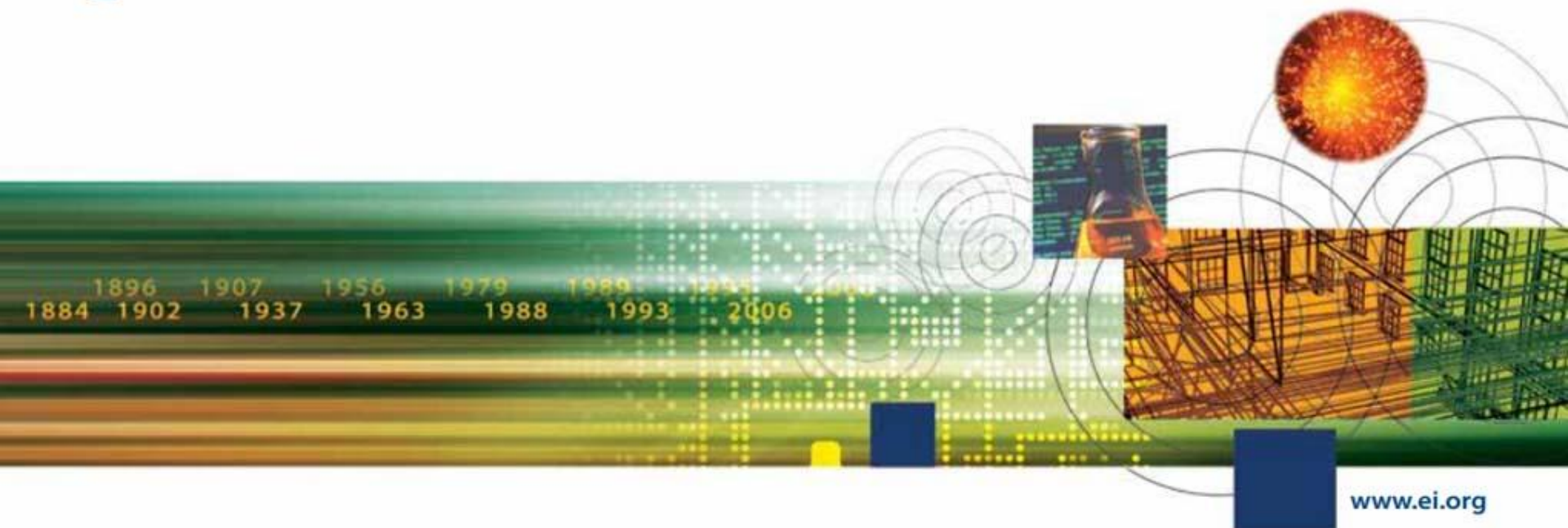
- 右切截 (*)
 - 输入comput*, 可找到
 - computer、
 - computers、
 - computerize
 - computerization
- 万用字符(?)
 - 使用问号可以代表一个字母
 - 例如输入wom?n, 可以找到 wom**a**n
或 wom**e**n的资料



检索方式

- Quick Search - 快速检索
- Expert Search - 专家检索
- Thesaurus search - 词库检索





Quick Search

功能列：快速检索、专家检索、词库检索

注册/登录

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

[Add search field](#) | **Search**

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 **Search** 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"/>

[Clear Search History](#) [View Saved Searches](#)

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

选择数据库

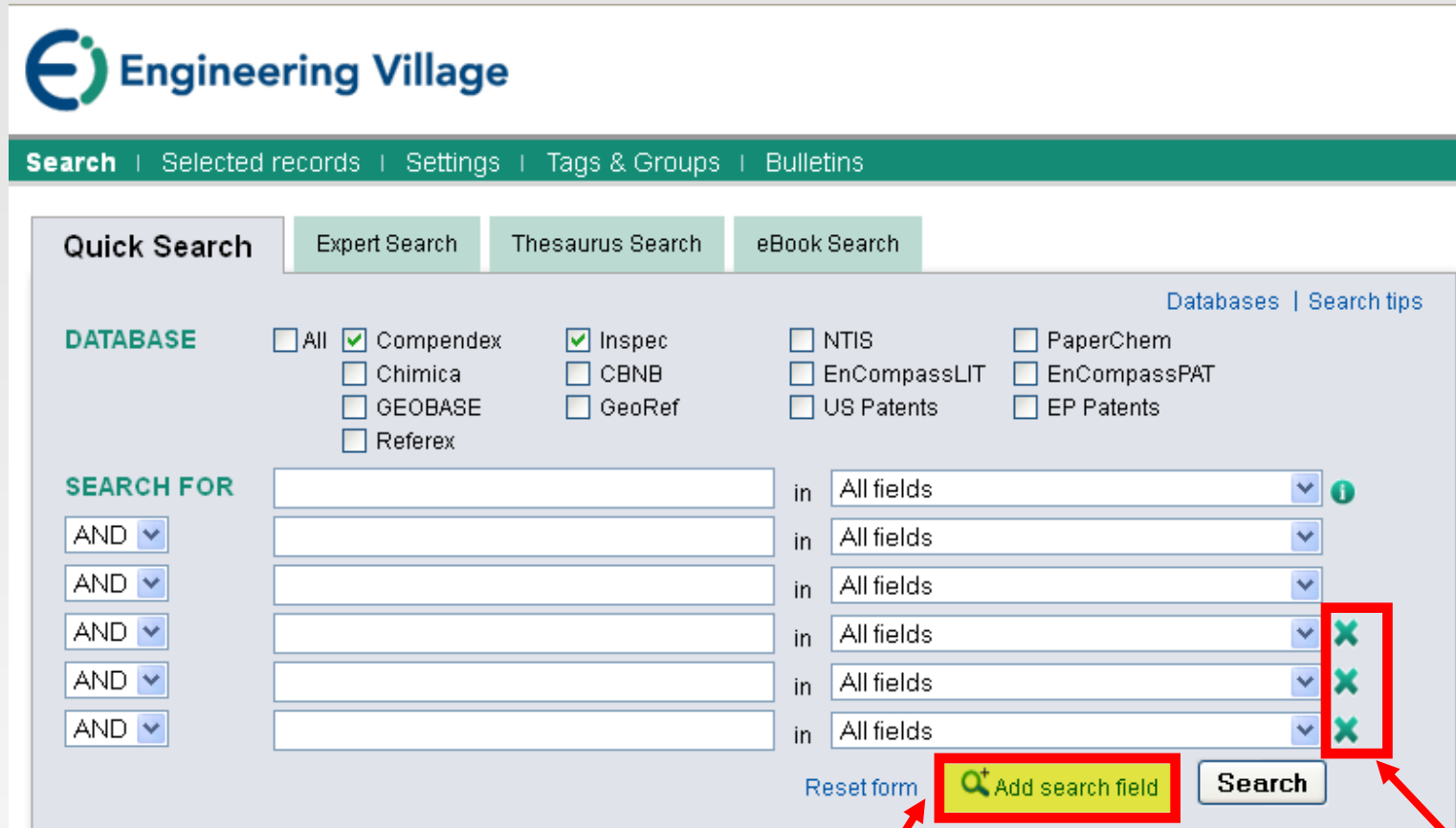
增加检索字段

限制条件和排序选项

相似词检索 (建议不要勾选)

检索历史

Add Search field – 增加检索字段



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. On the right side of the search area, there are links for 'Databases' and 'Search tips'.

DATABASE

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

SEARCH FOR

AND in All fields

AND in All fields

AND in All fields

AND in All fields

AND in All fields

AND in All fields

[Reset form](#)

可根据需求增加检索字段

移除检索字段

结果页面 - 1

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

可选择每页显示几篇数据

-图表显示
-输出数据
-打开/关闭限缩
字段详细信息

另可用拖曳的方式
改变限缩字段
顺序

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)
- Theocarlis, 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: 50 100

Selected Records (0) | Delete All

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:** *Journal of Materials and Structures*, v 34, n 9, p 734-42, 2011

Database: Inspec

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

输入关键词开启新的检索

文献内容-摘要形式/文献内容-详细格式/在Scopus中被引用次数

结果页面 - 2

Selected Records: 暂存文章

管理检索结果: 寄E-mail/打印/下载书目信息/存到我的数据夹/移除重复文章

可依照相关程度、日期、作者、文献来源、出版者排序(预设相关度); 在相同条件之下, 再依降序或升幂规则排序

可同时勾选多篇文献, 进行管理(E-mail/打印/下载书目信息/存到我的数据夹/暂存)

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](#)

文献内容：摘要形式

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, 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 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

在Scopus中引用之文献，
点选连至Scopus数据库！

文献内容：详细格式

Register | Login | End Session

Authors: 点选作者名字找到更多该作者发表的文章

Author affiliation: 每位作者的所属机构

E-mail: 主要作者联络信息
ISSN: 找到更多关于这本期刊的文章

Abstract: 文章内容摘要

Main heading: 主要主题

Controlled term: 索引词汇标准

Uncontrolled term: 相关主题的广义分类

Classification code: 在来源中其它附加优势的词汇和词组

Record 21 from Compendex & Inspecfor: ((stress) WN All fields), 1884-2012

Check record to add to Selected Records

21. Accession number: 2006289991405

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

Authors: [Brujan, Emil-Alexandru](#)^{1,2} ; [Vogel, Alfred](#)¹

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

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

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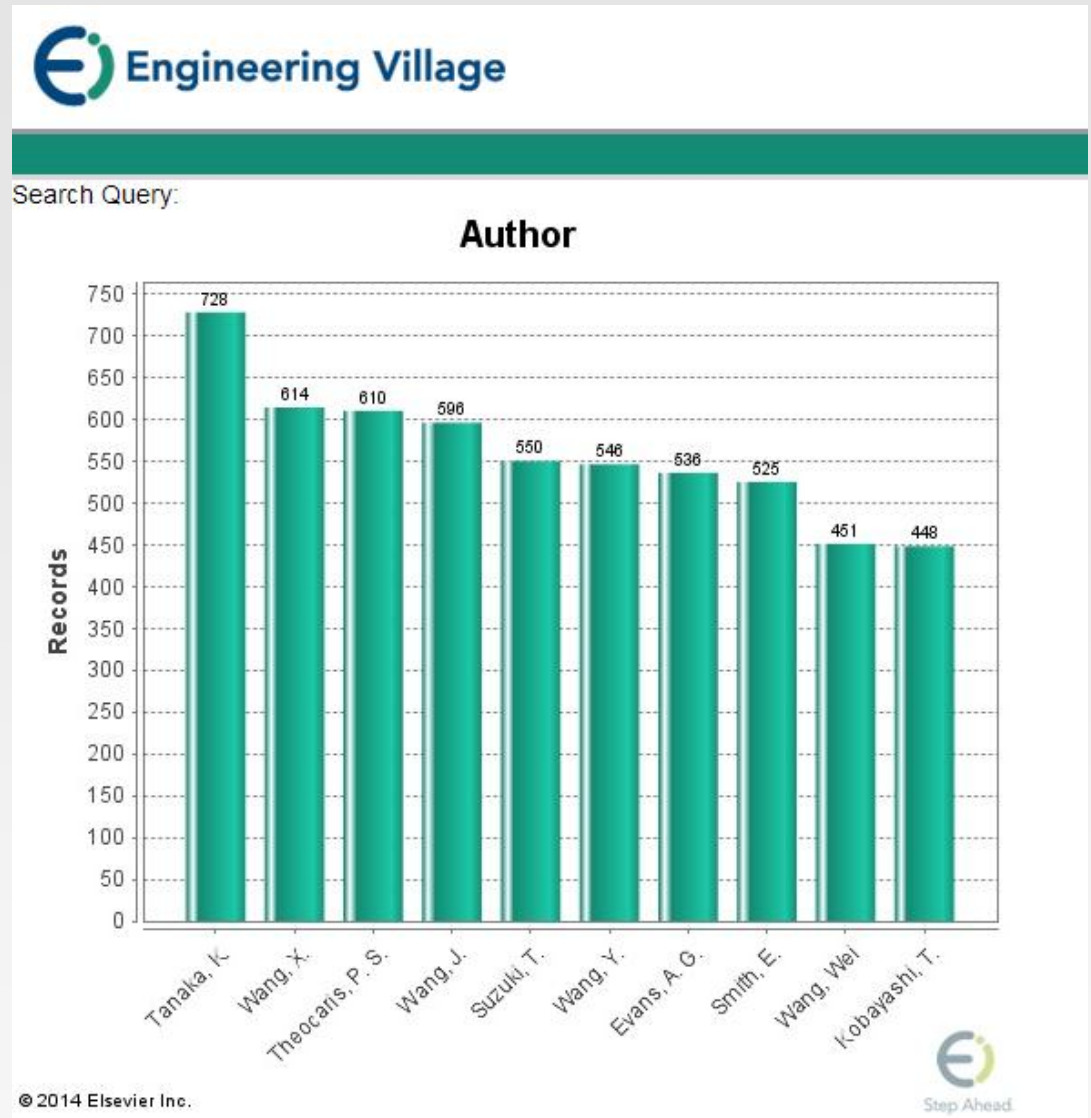
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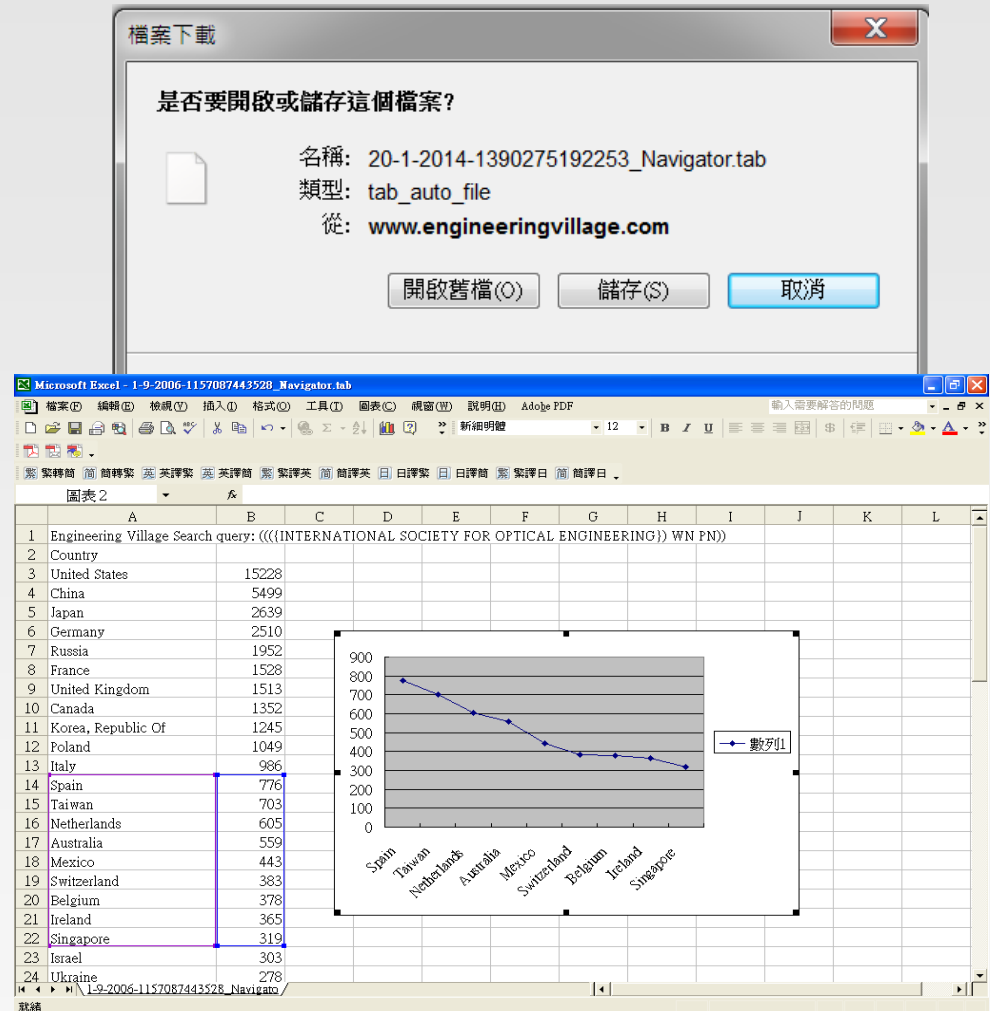
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 21. **Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom**

 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, 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](#)
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Classification Code: [631.1.1 Liquid Dynamics](#) - [723.5 Computer Applications](#) - [744.4.1](#)
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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

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21. **Stress wave emission and cavitation bubble dynamic 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
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 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 compressive **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 - Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 93.121 Physical Properties of Gases, Liquids and Solids

Treatment: Theoretical (THR)

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21. **Stress wave emission and cavitation bubble dynamics after 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: 0022-1469/7645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University

Author affiliations:

¹ Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564

² 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

Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 931.2 Physical Properties of Gases, Liquids and Solids

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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, Yiling¹; Cai, Long¹; 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

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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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Delbos, A.; Cui, J.; Fakhouri, S.; Crosby, A.J.


Cavity growth in a triblock copolymer polymer gel
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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^{1, 2} ; Vogel, Alfred¹ 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-Monnichs-Str. 1, 23562 Lübeck, Germany
- ² Department of Hydraulics, University Politehnica, Spl. Independenței 110, 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](#)

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21. **Stress wave emission and cavitation bubble dynamics 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: 14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge Uni

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, 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 - Coatings - Mechanical properties - Semiconductor lasers - Tensile strength**

Uncontrolled terms: **Cavitation bubble dynamics - Coatings - 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

Source: *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, v 24, n 10, p 1485-1491, October 2005

Database: Compendex

2.

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

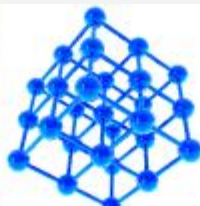
Source: *Soft Matter*, v 7, n 18, p 8409-8418, September 21, 2011

Database: Compendex

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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
Journal of Rheology
 2010, 54, 11-22
 Divoux, T.; Barentin, C.; Ballauff, M.; Voigtmann, Th.
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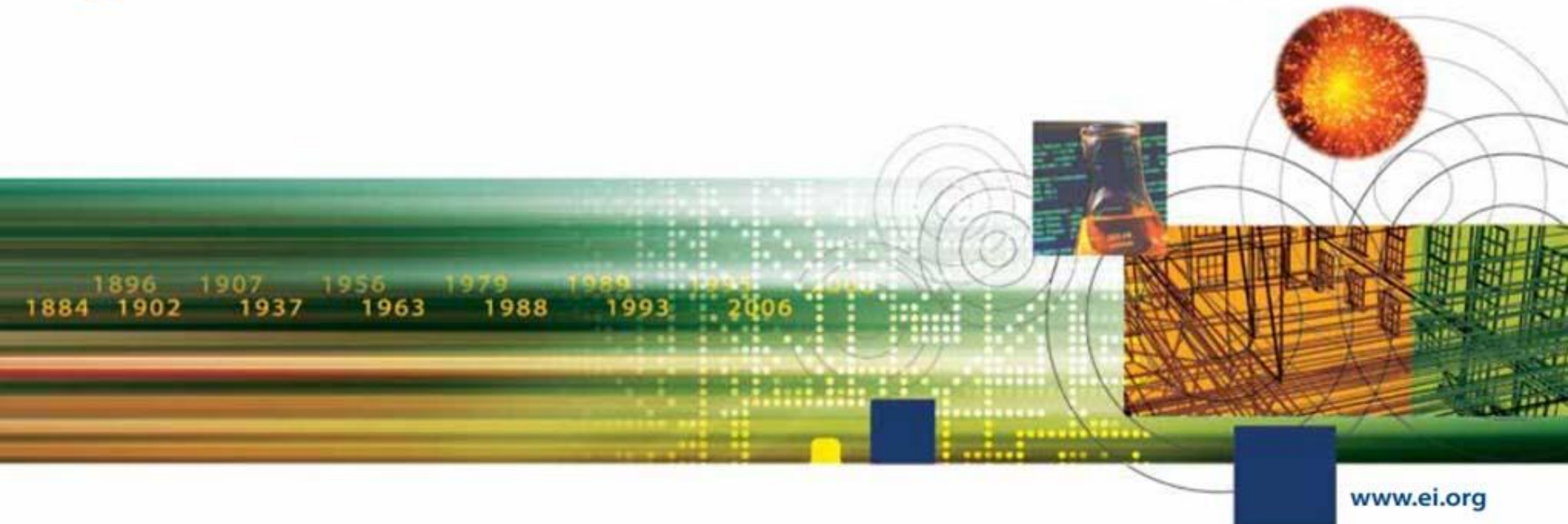
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- 可为研究团队、合作者、友人建立特定分组
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All Compendex Inspec EnCompassLIT EnCompassPAT

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LIMIT TO 1884 **TO** 2012 1 Updates

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Field	Code	Field	Code
Abstract (c, i, n, pc, cm, cb, el, ep, g, f, u, e)	AB	Major term as a product (el, ep)	CVMP
Accession number (c, i, n, pc, el, ep, g, f)	AN	Major term as a reagent (el, ep)	CVMA
Affiliation/Assignee (c, i, n, pc, cm, el, ep, g, f, u, e)	AF	Major term with no role (el, ep)	CVMN
All fields (c, i, n, pc, cm, cb, el, g, f, u, e)	ALL	Material identity number (i)	MI
Astronomical indexing (i)	AI	Monitoring agency (n)	AG
Author/Inventor (c, i, n, pc, el, ep, g, f, u, e, pa)	AU	Notes (n)	NT
Availability (n, cb, f)	AV	Numerical indexing (i)	NI
CAS registry number (cm, cb, el, ep)	CR	Original classification code (i)	OC
Chemical Acronyms (cb)	CE	Patent application country (ep, u, e)	PCO
Chemical indexing (i)	CI	Patent application date (c, n, pc, ep, u, e)	PA
Chemicals (cb)	CM	Patent application number (ep, u, e)	PAM

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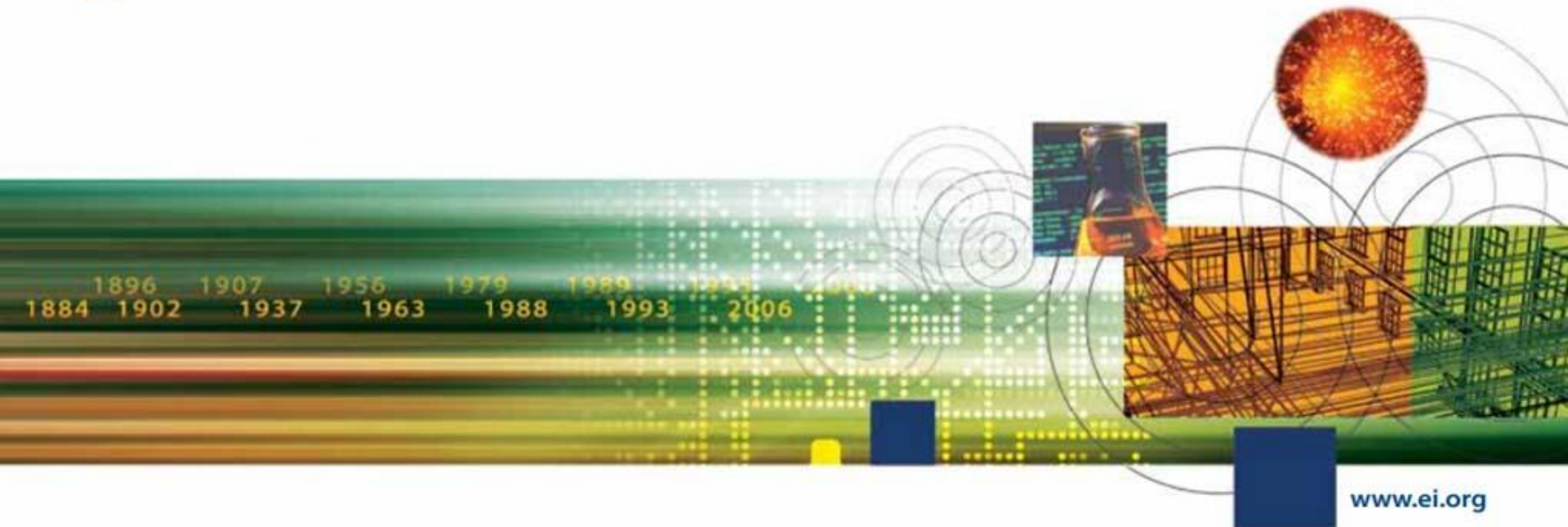
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DATABASE Compendex Inspec GeoRef GEOBASE

SEARCH FOR radiation

Search Exact Term Browse

EXACT TERM
radiation

Broader Terms	Related Terms	Narrower Term
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<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
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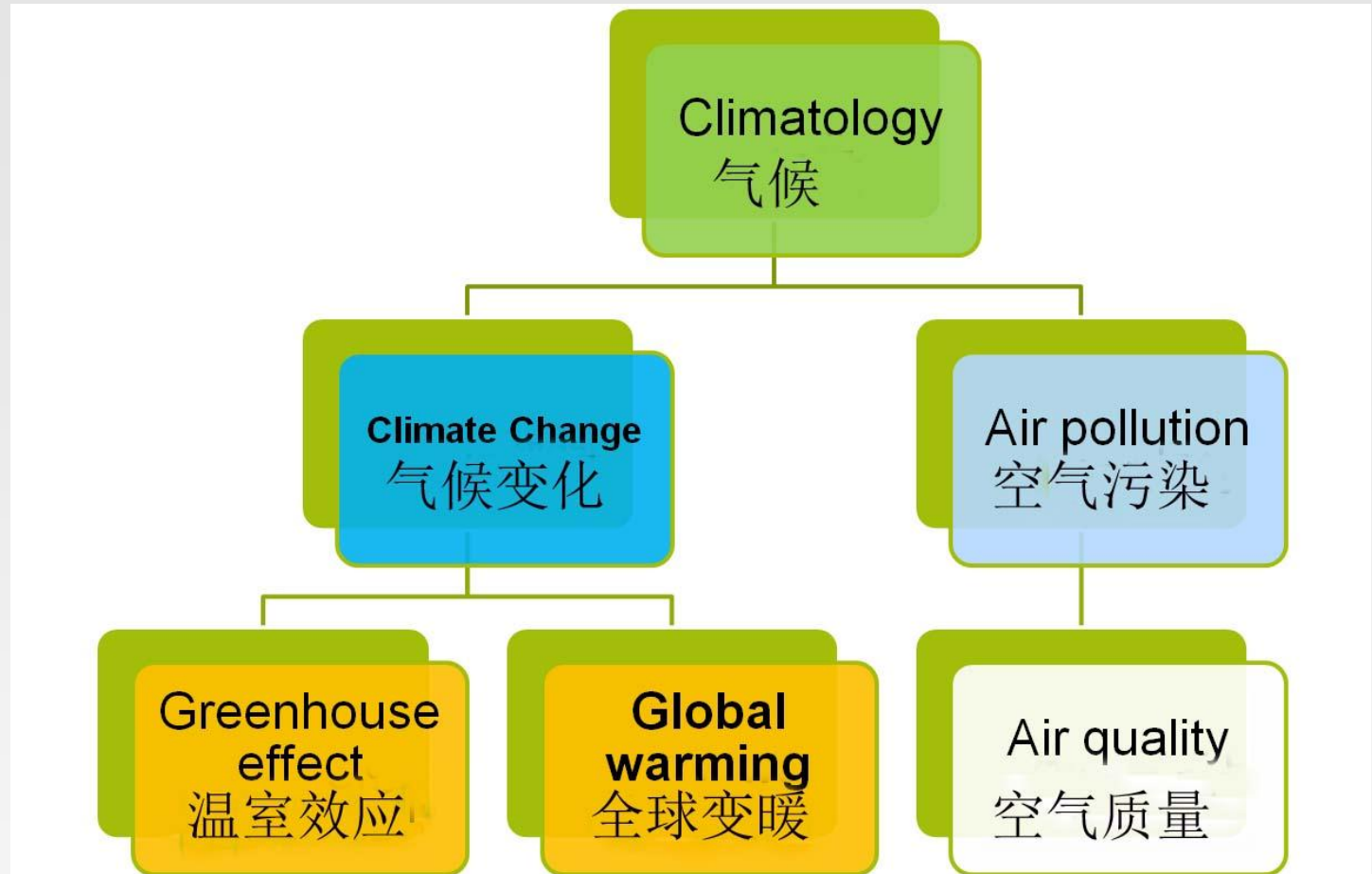
•Broader Term
广义词



•Related Term
相关词



•Narrow Term
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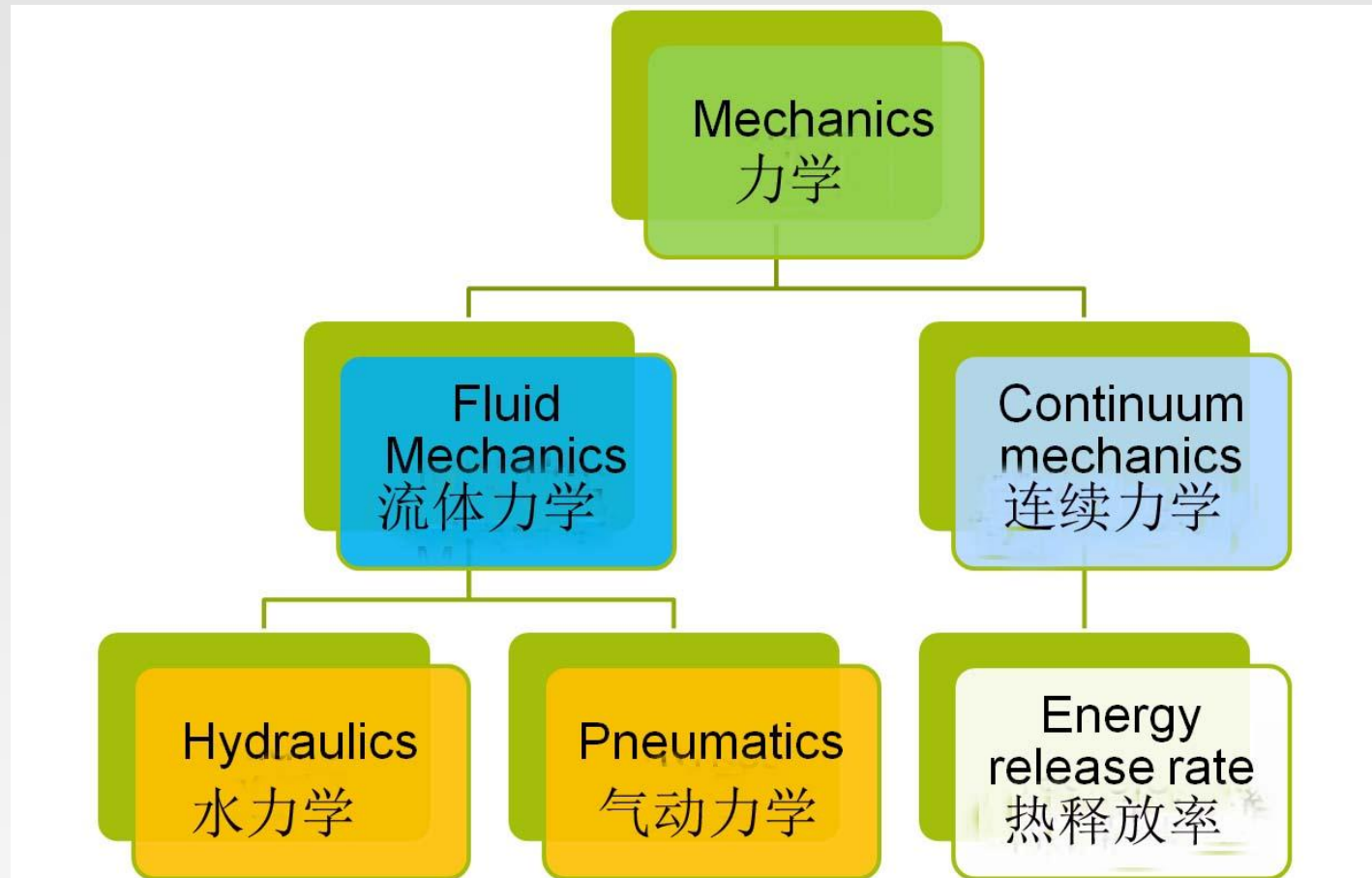
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结合检索策略数字，利用布尔逻辑结合查询


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SORT BY Relevance Publication year




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

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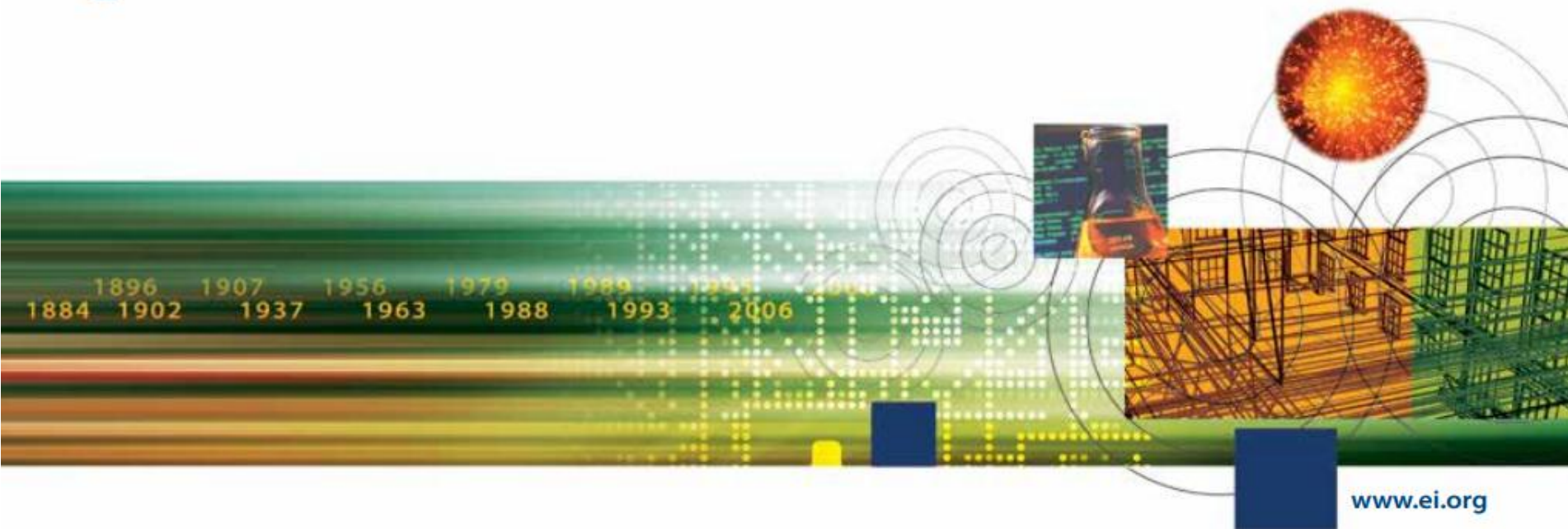
 Query details: 显示详细检索信息

Type: Quick
 Years: 1884 - 2014
 Sort: Relevance
 Autostemming: On

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-  Edit: 编辑检索指令
-  Save Search: 储存检索策略 (* 需要注册个人账号)
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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	<input type="checkbox"/>
2. Delete	Expert	{{{semiconductor} WN ALL}) AND {{{ieee} WN AF}}	On	Relevance	2,396	1969-2012	Compendex	03/27/2012	<input type="checkbox"/>
3. Delete	Thesaurus	{{{Electromagnetic waves} AND {Solar radiation}} WN CV)		Relevance	510	1969-2012	Compendex	04/25/2012	<input type="checkbox"/>
4. Delete	Thesaurus	{{{Solar radiation} WN CV) AND {{{Electromagnetic waves} WN CV}}}		Relevance	512	1969-2014	Compendex	12/04/2013	<input type="checkbox"/>

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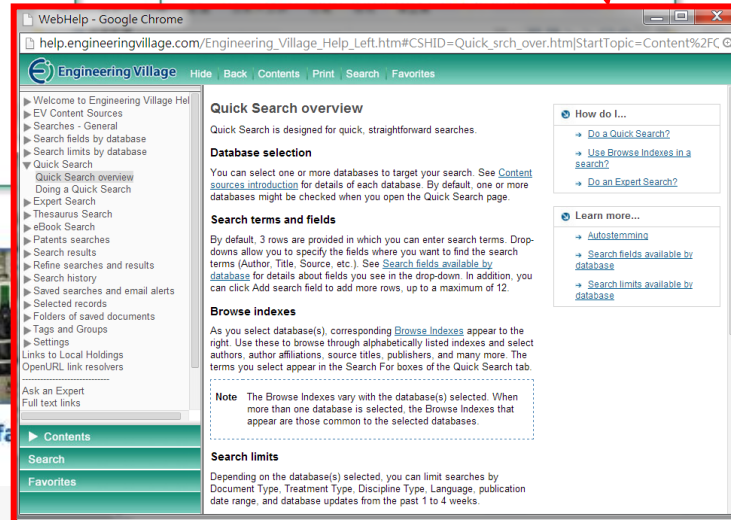
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Quick Search is designed for quick, straightforward searches.

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.

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Industrial



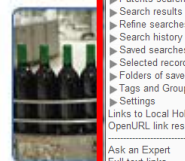
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