

基于Engineering Village平台的科研创新技巧解析

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ELSEVIER

提纲

Engineering Village的简介

快速检索

- 界面介绍
- 检索技巧
- 结果输出
- 历史结果

专家检索

词库检索

个性化功能

世界四大科技检索工具



世界四大科技检索工具

- 1. EI (Engineering Index)**
2. SCI (Science Citation Index)
3. ISTP (Index to Scientific & Technical Proceedings)
4. ISR (Index to Scientific Reviews)

与工程领域相关的主要数据库

Knovel 23个学科

ASABE Journal 美国农业生物工程师学会 7个领域

ASME Digital Library 美国机械工程师学会 8个领域

SPIE Digital Library--国际光学工程学会期刊及会议录 9个领域

Biotechnology and Bioengineering Abstracts (1982-)--生物技术和生物工程文摘数据库(CSA) 7个领域

IEEE/IEE Electronic Library (IEL)美国电气电子工程师学会(IEEE)和英国电气工程师学会(IEE)全文数据库22个学科 242种期刊 每周增加5,800篇最新文献

万方数据库 - 中国科学工程期刊文摘数据库 10个学科

万方数据库 - 中国机械工程文摘数据库 2个学科 全国机电、仪表行业各类期刊约750种以上的专业文献，各种专题文献、会议论文和全文

技术信息集成于数据分析与搜索工具

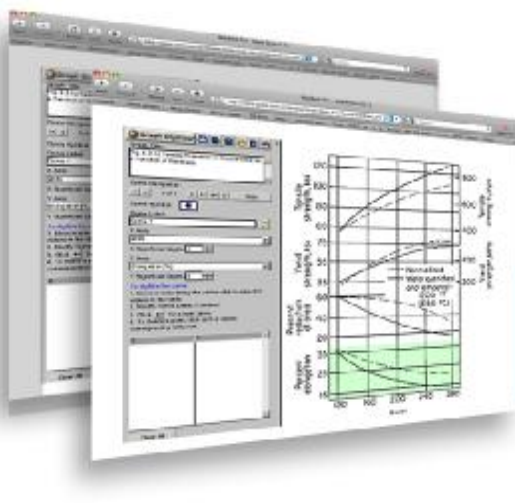
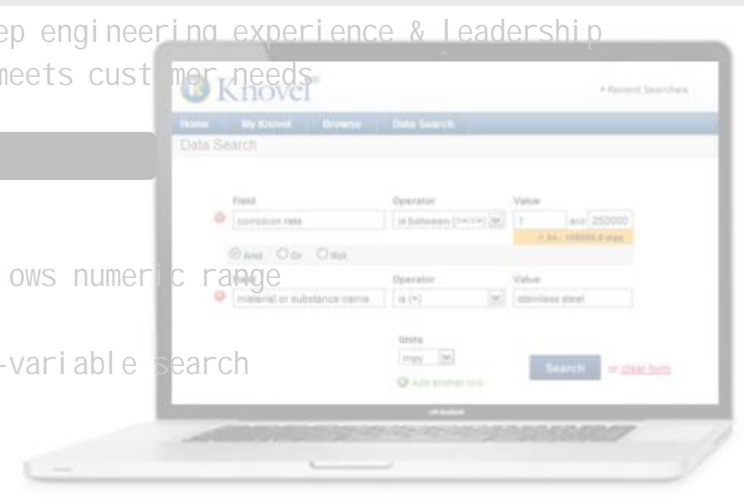


权威可靠的内容

- Established, accepted science sourced from recognized societies & publishing partners
- Stringent selection process driven by customer requests and vetted by industry experts
- Editorial Advisory Board provides deep engineering experience & Leadership ensuring depth & breadth of content meets customer needs

为工程师设计的最佳化搜寻

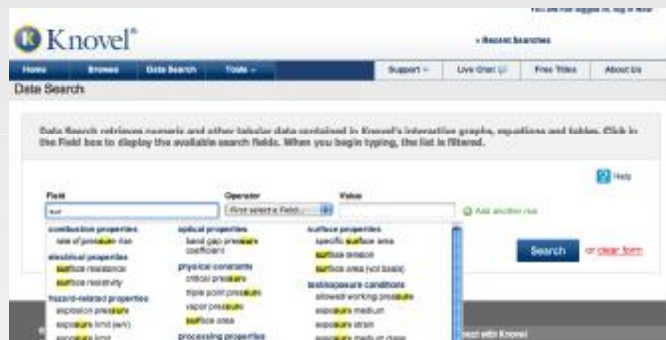
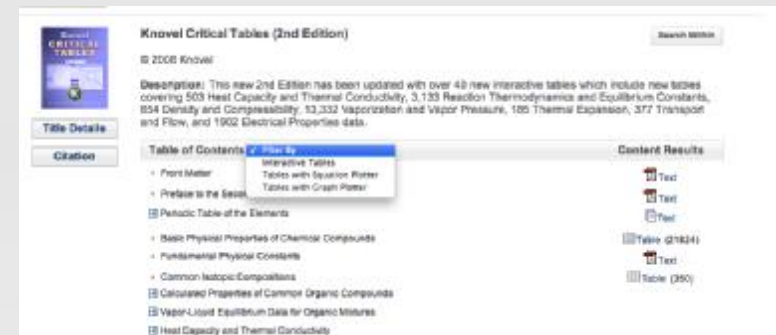
- Finds hidden data, hidden tables, graphs, and equations
- “Understands” engineering language search
- Automatically performs unit conversion
- Allows numeric range
- Performs multi-variable search



将资料分析工具 整合在工程师的工作流程中

- 容易使用的工具可以做初步的计算与资料的整合
- 超过95,000种互动表格、图解和公式
- 可以同在工作表中排序般，容易地客制化并操作数据
- 可以直接在图表中绘制一个或多个数据点和曲线
- 可以汇出数据到指定的格式和档 (Excel, MathCAD)

直接从内容页(content page)中使用已数字化的交互式表格、图解、方程式以及文字。



搜寻数据：
在超过95,000个已数字化的表格、图解与公式中搜寻

整合搜寻约4,000种的手册、数据库、参考书以及95,000个相关的交互式表格、方程式、图解。



EI 数据库：190个应用科学和工程类别

- ü核技术
- ü生物工程
- ü交通运输
- ü化学和工艺工程
- ü照明和光学技术
- ü农业工程和食品技术
- ü计算机和数据处理
- ü应用物理
- ü电子和通信
- ü控制工程

- ü土木工程
- ü机械工程
- ü材料工程
- ü石油
- ü宇航
- ü汽车工程

以及这些领域的子学科

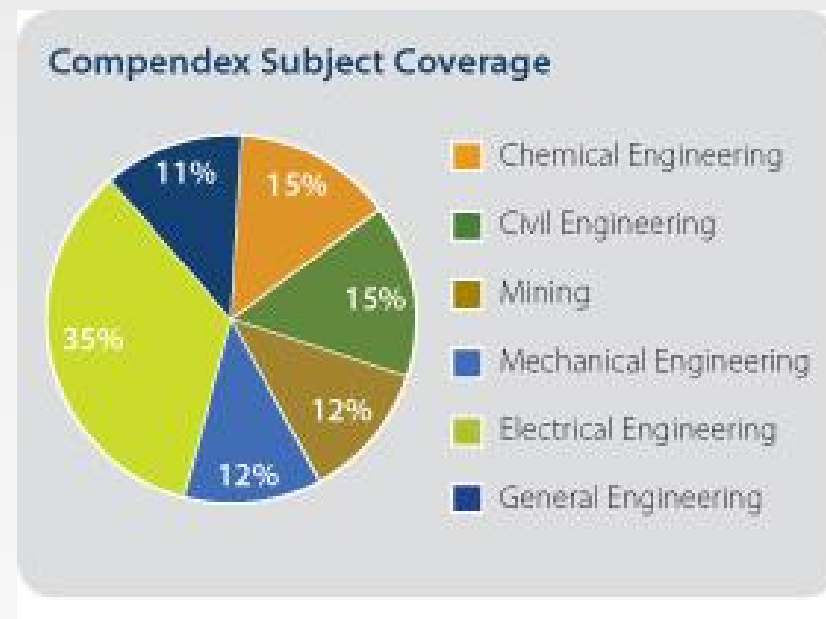
EI数据库：最详尽的工程文献数据库

Engineering Village接口与收录内容

- 由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) Chi mi ca&CBNB (需另购)
 - PaperChem (需另购)
 - USPTO / EPO专利 (需另购)

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:

- Bi oengi neering
- Bui lding Material s Properties
- Construction Material s
- 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 :

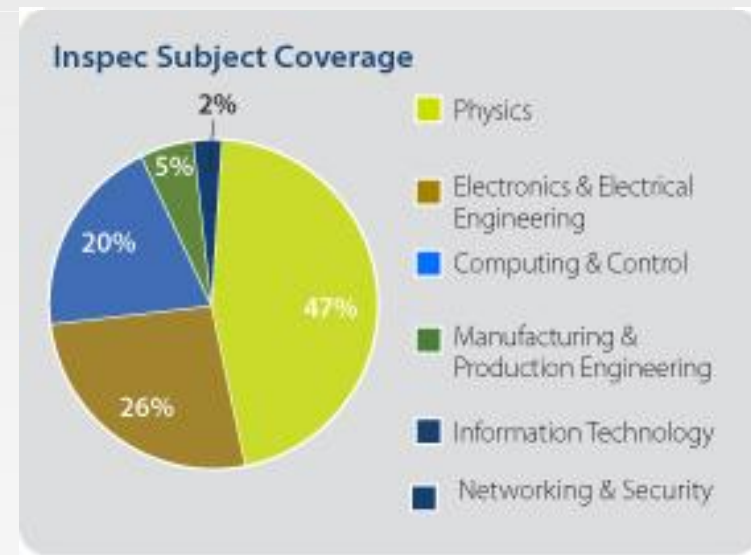
- Fuel Technology
- Metal Groups
- Metallurgical Engineering
- Petroleum Engineering

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



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

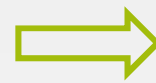
EPO

- 资料来源：欧洲专利局
- 更新频率：每周更新
- 需另购

SooPat

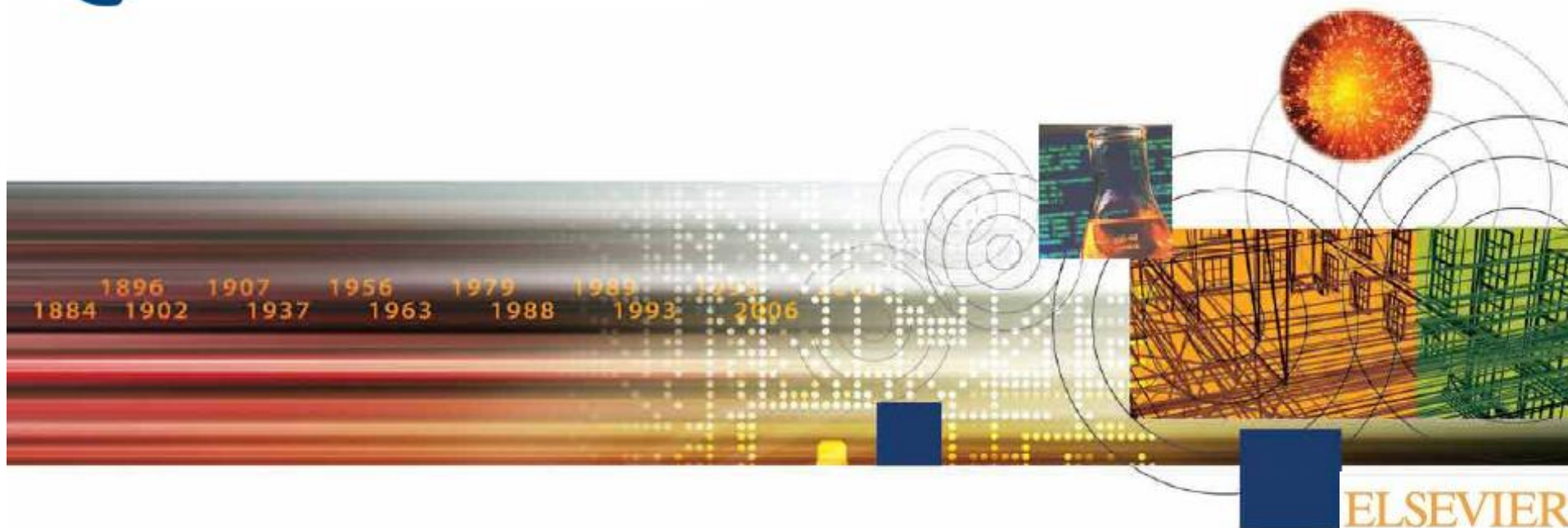
界面介绍

2012年7月18日，Engineering Village平台升级



更新内容

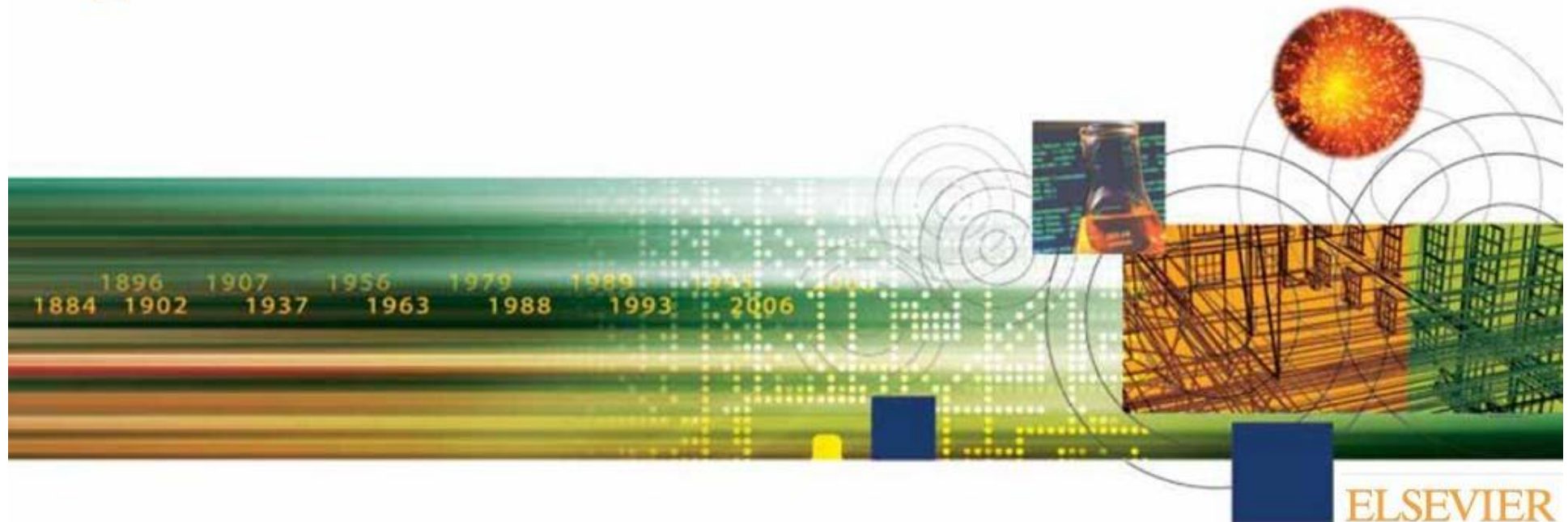
- 在快速检索栏里添加新的 “Add Search field” （添加检索领域）功能
- 更加简洁的检索结果界面，从而更简单的找到所需的文章
- 各功能栏都在检索结果界面直接可视，并且仅需很少的滑动页面
- 各功能栏均可通过拖拽和取消从而在界面上重新布局
- 更便于操作的 “Combine Previous Searches” （合并之前检索）选项
- 检索历史直接呈现在网站首页，位于所有检索框的最下方
- 检索结果可选择一次呈现25个、50个或100个
- 根据视觉特点，重新设计摘要界面



检索方式

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





Quick Search - 快速检索

Quick Search

The screenshot shows the Engineering Village Quick Search interface. The top navigation bar includes 'Register | Login | End Session | Go to SciVal Suite'. The main search area has tabs for 'Quick Search', 'Expert Search', 'Thesaurus Search', and 'eBook Search'. The 'DATABASE' section lists various databases with checkboxes, including 'All', 'Compendex', 'Chimica', 'GEOBASE', 'Referex', 'Inspec', 'CBNB', 'GeoRef', 'NTIS', 'EnCompassLIT', 'US Patents', 'PaperChem', 'EnCompassPAT', and 'EP Patents'. The 'SEARCH FOR' section has three input fields with 'AND' operators and 'All fields' dropdowns. The 'LIMIT TO' section includes dropdowns for document types, treatment types, discipline types, and languages, along with date ranges (1884 to 2012) and 'Updates'. The 'SORT BY' section has radio buttons for 'Relevance' (selected) and 'Publication year', and a checkbox for 'Autostemming off'. The 'Search history' section shows a table of previous searches.

功能栏：快速检索、专家检索、词库检索

注册/登录

增加检索字段

相似词检索（建议不要勾选）

选择数据库

限制条件和排序选项

检索历史

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"/>

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

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 woman或 women的资料

检索技巧

uEI 数据库的作者有九种写法：以王府井（Wang Fujing）院士为例

Wang fujing or Wang fu-jing or Wang fj or Wang f-j or Wang f or fujing wang or fu-jing wang or fujing w or fu-jing w

u建议大家采用截词符 “ * ”，以三种形式来代替，并用其他检索字段来限制

Wang F* or fujing W* or fu-jing W *

Browse Index

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 [Next page >](#)

- 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

Browse Indexes

- [Author](#)
- [Author affiliation](#)
- [Controlled term](#)
- [Source title](#)
- [Publisher](#)

Latest Resources

- 🔍 [Here's what's new](#)
- 🔍 [Training videos](#)
- 🔍 [More videos](#)
- 🔍 [Tell us what you think](#)

More Search Sources

- [CRC ENGnetBASE](#)
- [Espacenet](#)
- [GlobalSpec](#)
- [IHS Standards](#)
- [LexisNexis News](#)
- [Scirus](#)
- [USPTO](#)

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

Browse Index: 可利用索引功能浏览 / 查询作者、作者服务机构、Ei 控制词汇、期刊名称和出版社

结果页面 - 1

检索结果：
快速检索/1203143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

输入关键词开启新
的检索

The screenshot shows the search results interface for the query "(stress) WN All fields". The top bar indicates "1203143 articles found in Compendex & Inspec for 1884-2014". A "Refine results" sidebar on the left allows filtering by database (Compendex: 723420, Inspec: 479723), author (Tanaka, K., Wang, X., Theocaris, P. S., Wang, J., Suzuki, T.), and other criteria like affiliation, language, and year. The main results list shows four entries with abstracts and options for "Abstract", "Detailed", "Show preview", and "Full text". A "Cited by in Scopus" link is visible for the fourth entry.

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: 保存文章

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(预设为相关度); 在相同条件之下, 再依降序或升幂规则排序

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

Search

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)
- Author (Z-A)
- 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, MEOS, Proceedings and Conference 2011, MEOS 2011*
Database: Compendex
[Abstract](#) | [Detailed](#) | [Show preview](#)
- 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](#)

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)

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, 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.

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

Accession number: 文章检索号

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

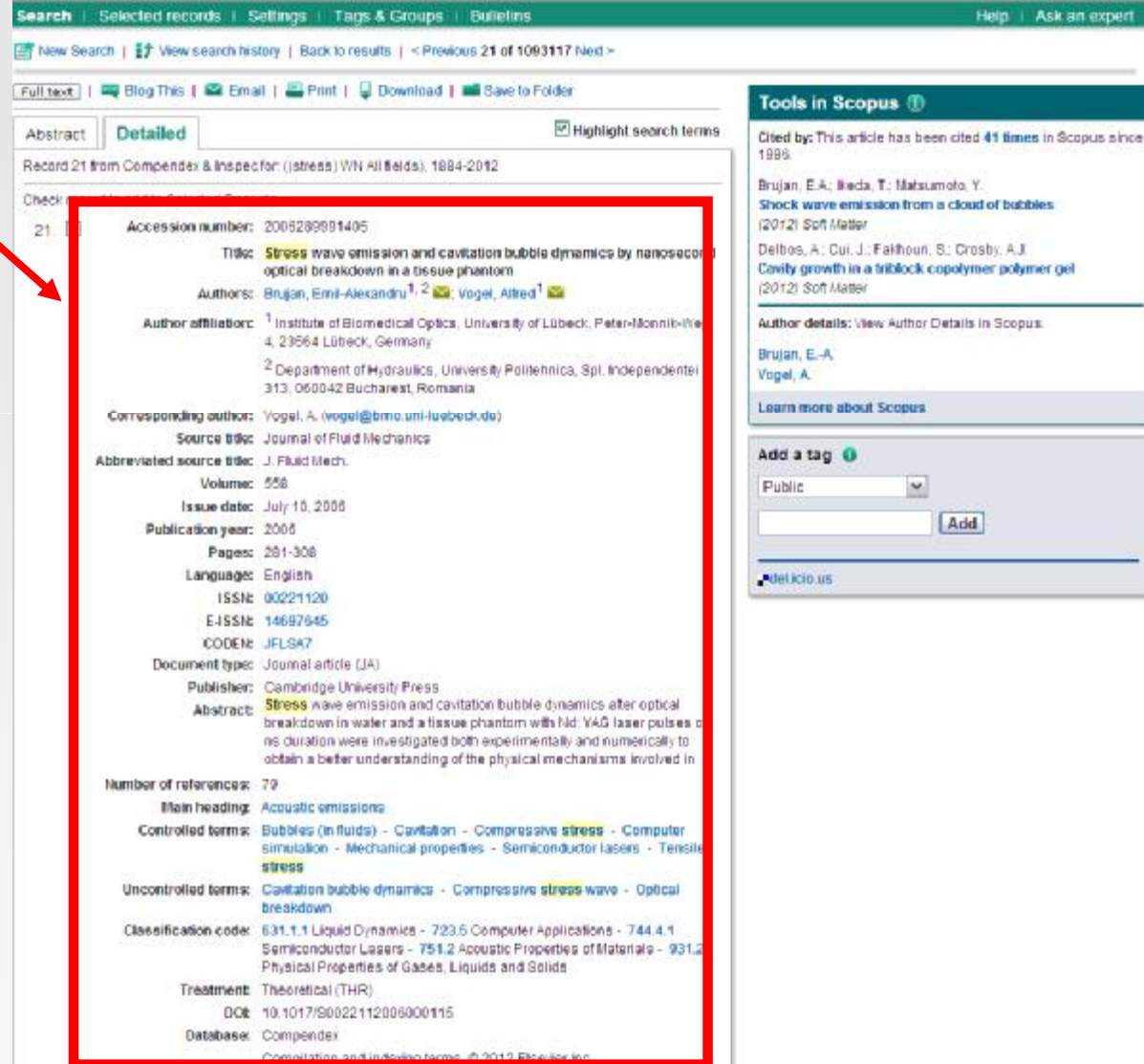
ISSN: 找到更多关于这本期刊的文章

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



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 & Inspector: (jstress) WN All fields, 1884-2012

Check 21

Accession number: 2005289981405

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-Monnitz-Wege 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 various durations 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

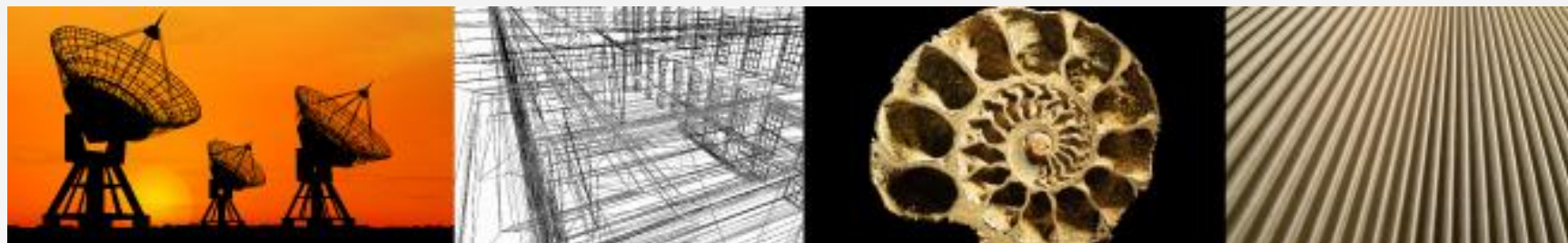
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Author details: View Author Details in Scopus.
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Abou-Sayed, Ahmed S. (Advantek International) Show and Conference, MEOS, Proceedings, v 1, p 490-505, 2011, Society of Petroleum Engineers - 17th International 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

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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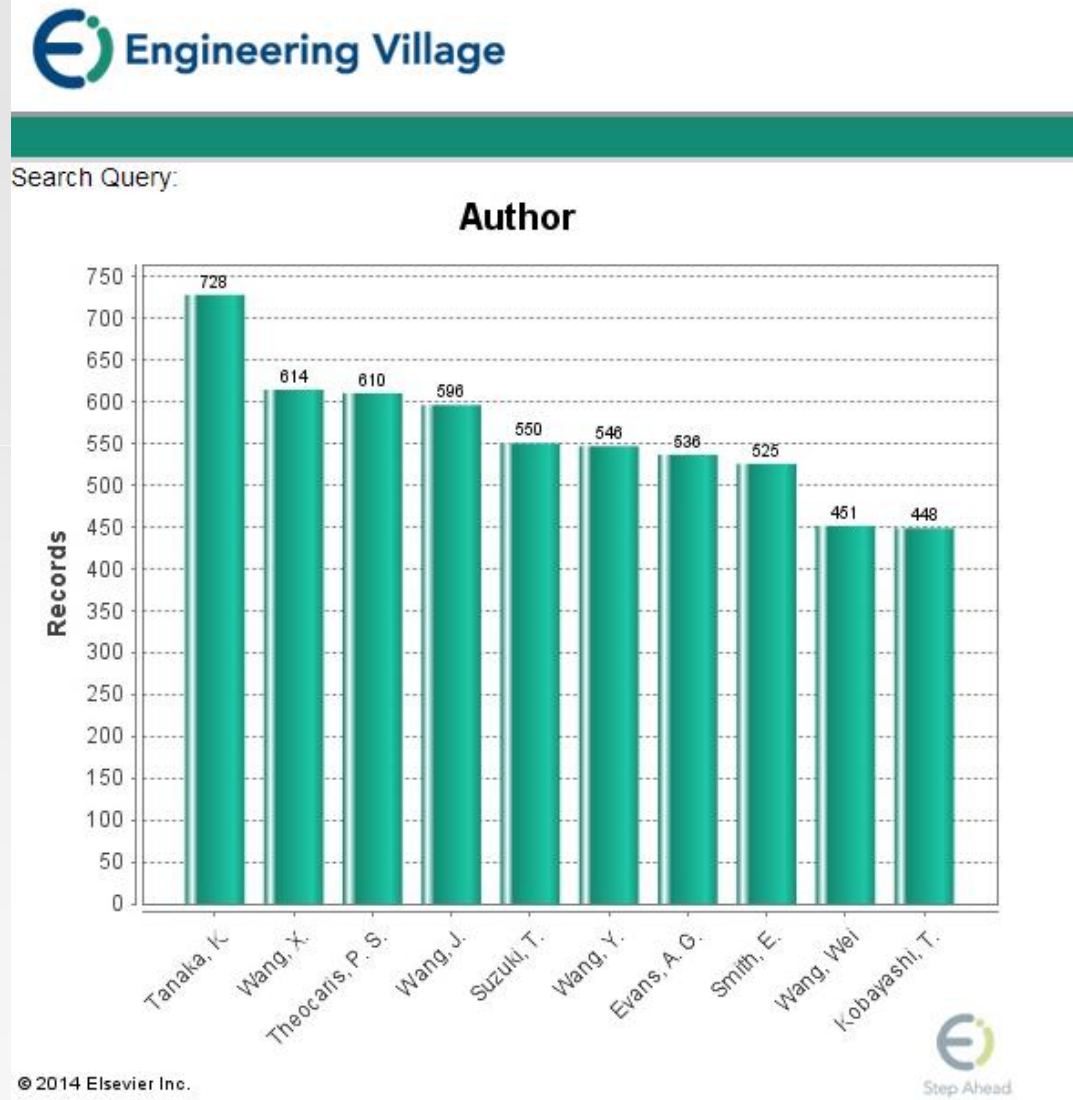
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- Stress Distribution Regularity Analysis of Ring Plate of Concrete Filled Steel Tube Connections with Ex...
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 Database: Inspec
 Abstract | Detailed | Full text
- Prediction of stress waves propagation 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 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

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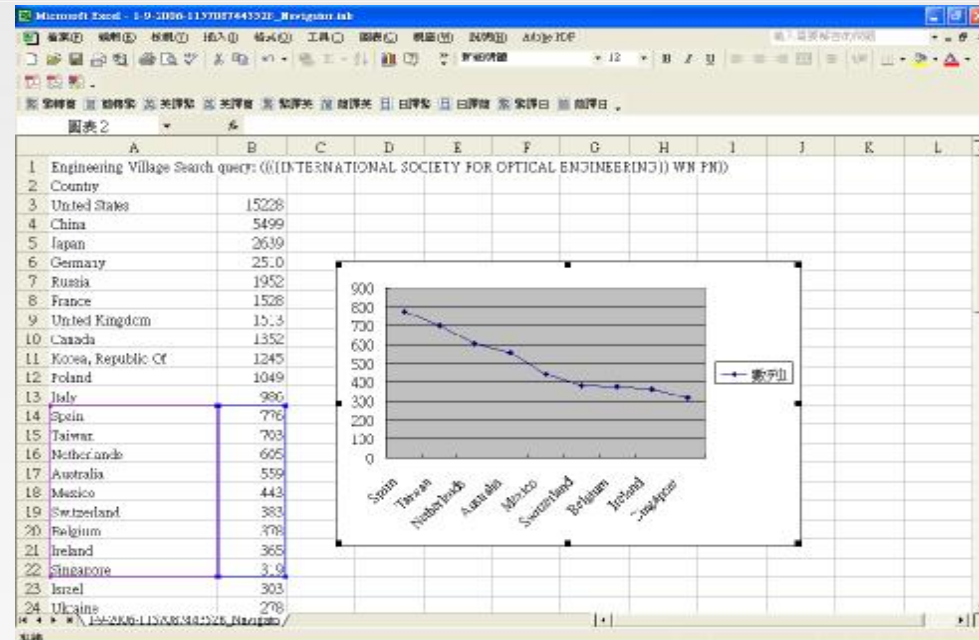
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21. **Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom**

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](#)

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)

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

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

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

Author affiliations:

- ¹ Institute of Biomedical Optics, University of Lübeck, Peter-Monnikestr. 1, 23560 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 mechanisms involved. The results show that the dynamic pressure can be as high 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 damage than most synthetic materials. **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](#) - [723.5 Semiconductor Lasers](#) - [751.2 Acoustic Properties of Materials](#) - [9302.1 Physical Response of Solids, Liquids and Solids](#)

Treatment: Theoretical (THR)

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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

Uncontrolled terms: Active material - End of discharges - Lithium-ion battery - LMO - NCA - Positive electrodes - Simulation and analysis - Stress generation

Classification Code: 921 Mathematics - 902.1 Engineering Graphics - 704.1 Electric Components - 951 Materials Science - 701.1 Electricity: Basic Concepts and Phenomena - 541.1 Aluminum - 421 Strength of Building Materials; Mechanical Properties - 549.1 Alkali Metals

Database: Compendex

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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.

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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, 14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University Press

Author affiliations:

- ¹ Institute of Biomedical Optics, University of Lübeck, Peter-Monnichs-Str. 1, 23560 Lübeck, Germany
- ² Department of Hydraulics, University Politehnica, Spl. Independentei 109, Bucharest, 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 involved. The discovery of optical breakdown in tissue-like media is of great importance for the application of laser surgery because biological tissues are much more susceptible to laser-induced damage than incompressible fluids. The present study shows that 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 Simulation - Semiconductor Lasers - 751.2 Acoustic Properties of Materials - Liquids and Solids

Treatment: Theoretical (THR)

Database: Compendex



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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, 660049 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 - Co Mechanical properties - Semiconductor lasers - Tens

Uncontrolled terms: Cavitation bubble dynamics - Co

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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1.

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

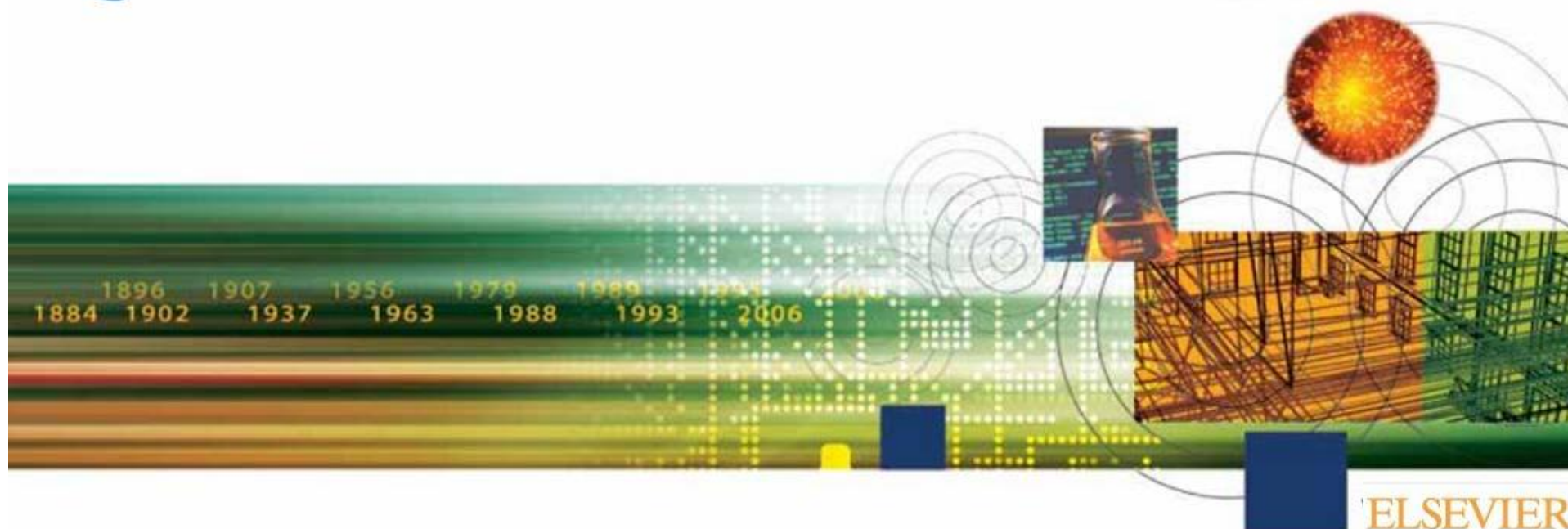
2.

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

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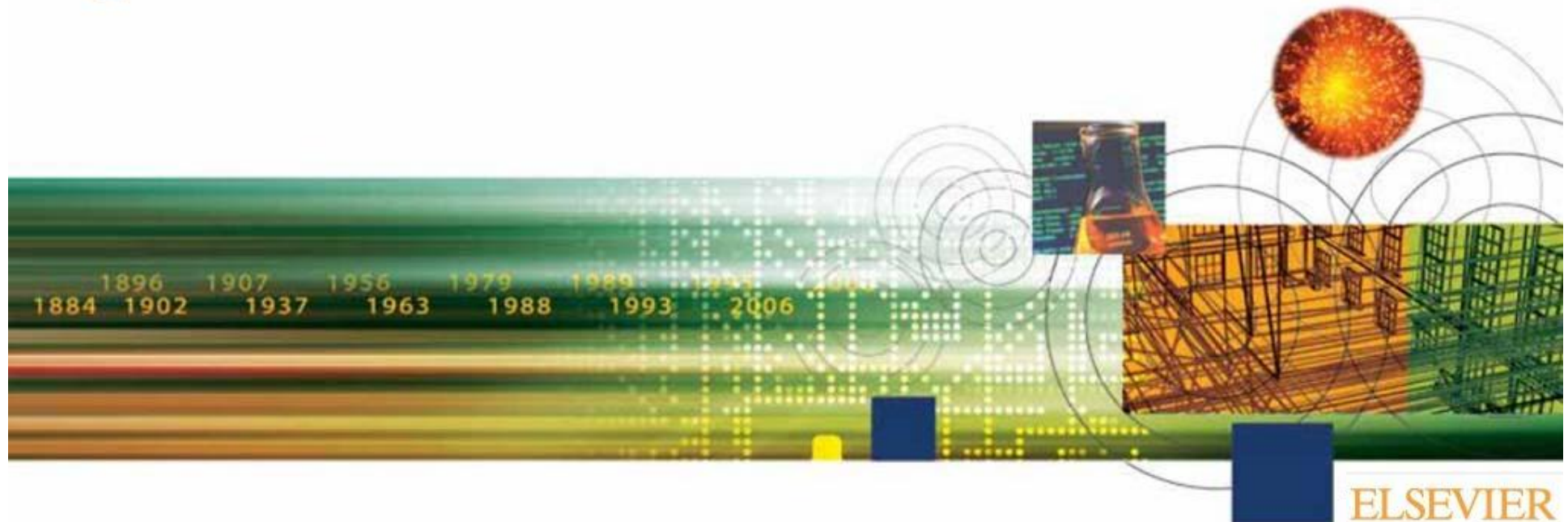
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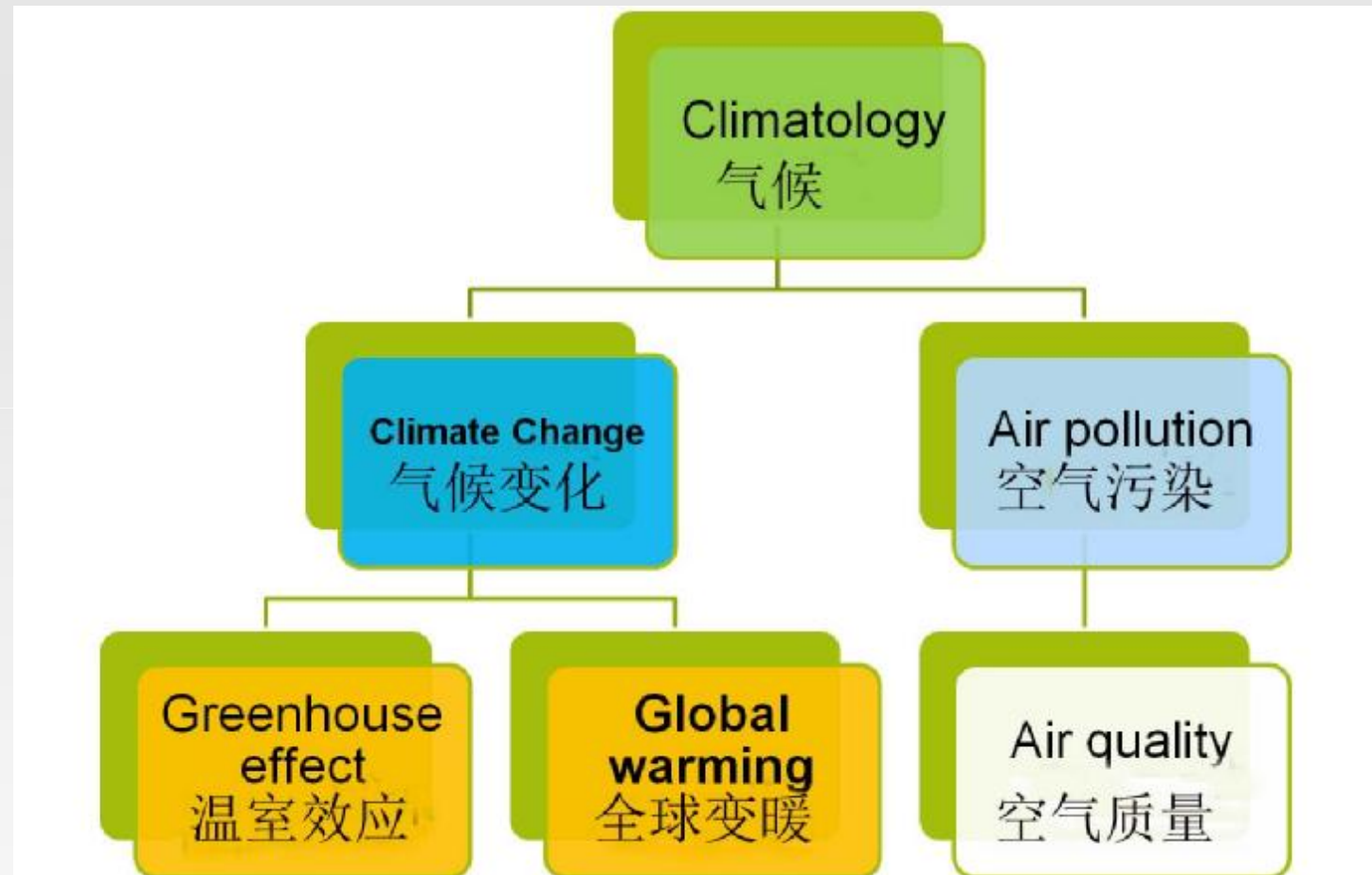
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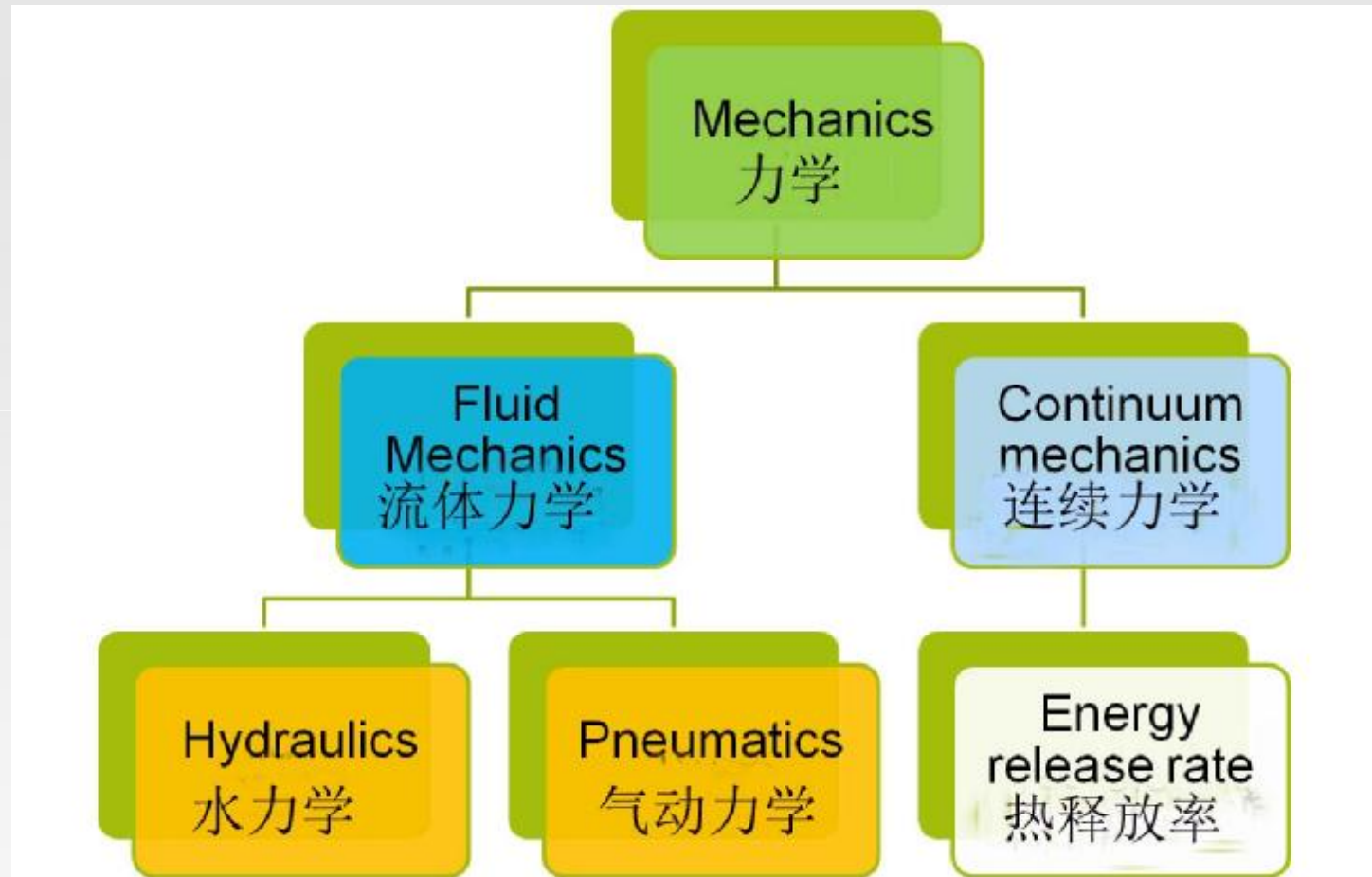


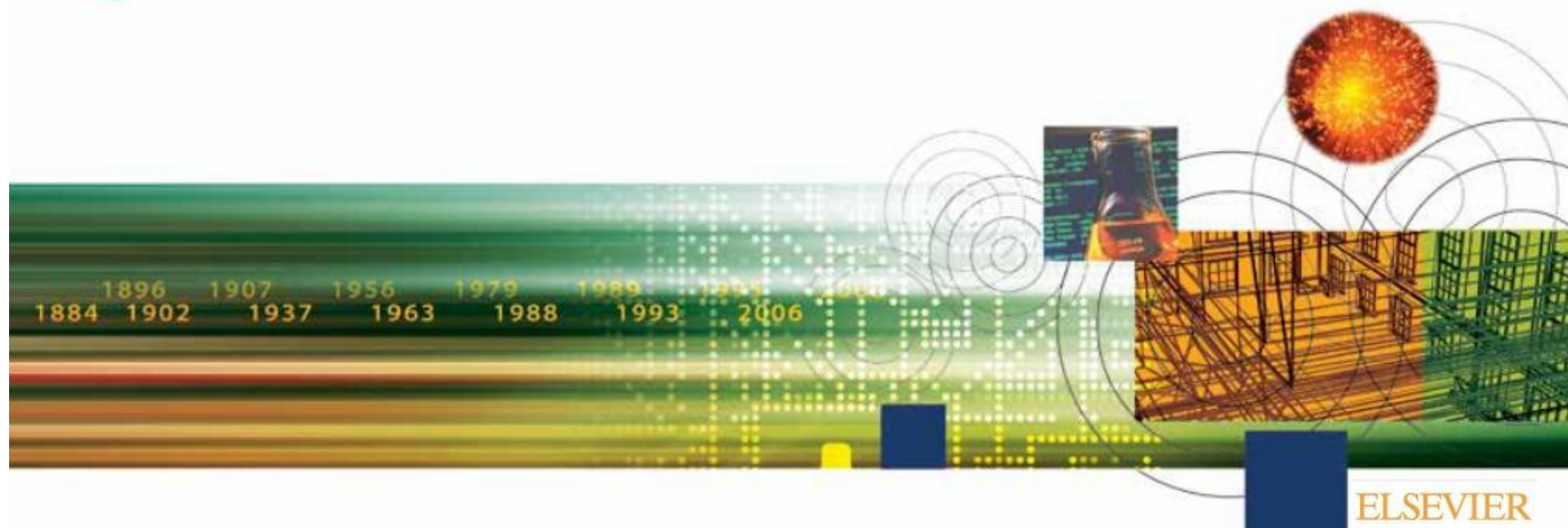
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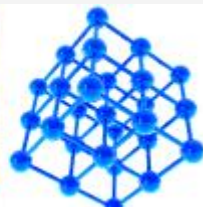
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² Laboratoire de Physique de la Matière Condensée et Nanostructures, Université de Lyon, Université Claude Bernard Lyon I, 43 Boulevard du 11 Novembre 1918, 69622, Villeurbanne cedex, France

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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