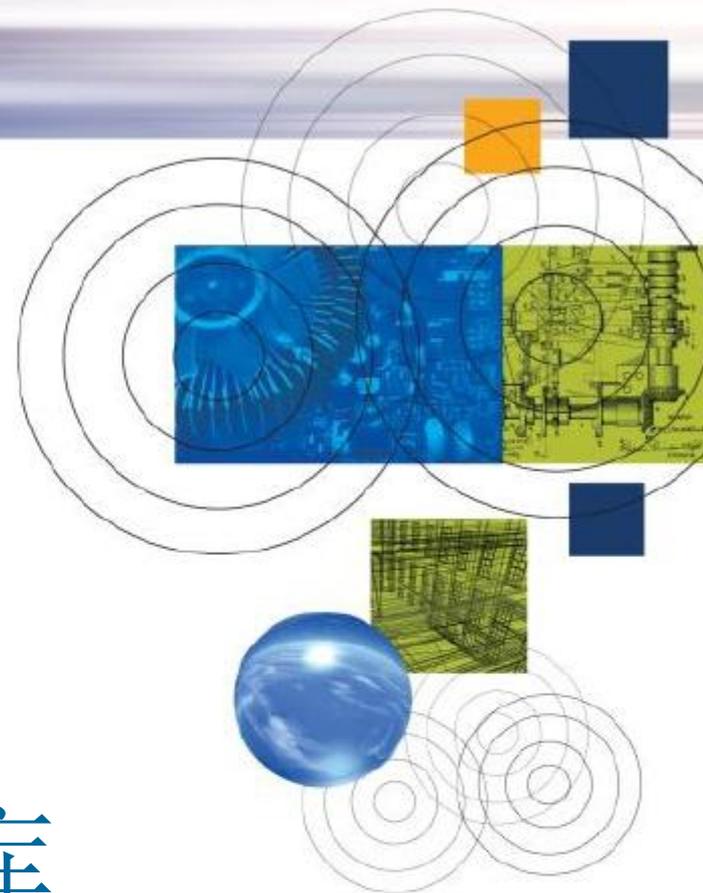


Elsevier EI Compendex 数据库



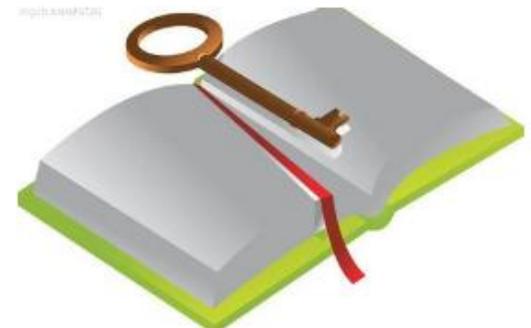
学科馆员 许兵



讲座内容

1. 文摘型数据库概述
2. Ei Compendex数据库使用

快速检索、专家检索、词库检索
个性化功能



文摘 (abstracts)

文摘即文章的摘要，它以简明扼要的文字说明文献的主要内容，是原始文献的高度浓缩。

根据国家标准《文摘编写规则》

(GB6447-86)，文摘是“以提供文献内容梗概为目的，不加评论和补充解释，简明、确切的技术文献重要内容的短文”。

文摘

- 具有独立性和自含性，是一篇完整独立的短文。不用阅读论文全文即能获得论文的必要信息。
- 有实质内容，可反映论文三个方面的要点：
 - ①研究的目的（要解决的问题，引言的要点）；
 - ②主要研究内容及方法（正文的要点）；
 - ③结论和成果（结论的要点）。

文章编号: 1000-0690(2003)04-0398-10

中国互联网发展的区域差异分析

刘文新, 张平宇

(中国科学院东北地理与农业生态研究所, 吉林 长春 130012)

提出要解决的问题

摘要: 互联网发展的区域差异及其与区域发展的相互影响研究已成为地理学研究中一个新的问题。从网络普及率、网络信息资源丰度及互联网商业应用三个角度初步探讨了中国互联网发展存在的区域差异, 并设计了互联网发展指数(IDI)、从人均的角度反映互联网发展的综合水平。表明: 东部地区的发展地区, 但与传统意义上的经济发展梯度不同的是, 西部地区的互联网发展水平稍高于东部地区; 中国大陆31个省、直辖市、自治区的互联网发展综合水平的差异同样显著, 按照IDI值大小被划分为6个等级。互联网发展区域差异的影响因素是多方面的, 应用多元回归分析方法研究发现, 区域人口素质水平、区域信息和知识生产能力对我国互联网发展区域差异的解释能力最强, 区域对外开放程度和区域城市化水平的影响也较显著。

研究内容与方法

关键词: 互联网; 区域差异; 影响因素; 中国

中图分类号: F061.5 文献标识码: A

研究得出的结论

文摘型数据库

也称索引数据库，类似于查字典时的检索表，或者是图书馆的书目检索，文摘数据库以单篇文献为著录对象，对所收录的单篇文献进行标引（题名、作者、来源和内容摘要等），以提供各种检索途径。

文摘库特点及作用

1、数据量大，语种多，文献类型齐全。

收录范围广，索引系统完备，数据经过筛选质量高。

2、是查找全文文献的重要和必要线索。

通过阅读文摘，判断是否需要下载或查找全文。

3、了解与某课题或某研究领域相关的研究状况，把握研究前沿动态，判断课题的新颖性。

4、通过看英文摘要，了解其他非英语国家的研究成果。

常用文摘数据库

著名三大检索工具

- EI 工程索引 Engineering Index
- SCI 科学引文索引 Science Citation Index （我校1997年至今）
- CPCI-S (原ISTP) 科技会议录引文索引（我校2004年至今）

Conference Proceedings Citation Index–Science

是国际公认的进行科学统计与科学评价的主要检索工具，其收录论文状况是评价国家、单位和科研人员的成绩、水平及进行奖励的重要依据之一。

常用文摘数据库

INSPEC 科学文摘(又称为SA : Science Abstract)

CA 化学文摘 Chemical Abstracts

CSA 剑桥科学文摘 Cambridge Scientific Abstracts

SCOPUS 最大的摘要和引文数据库

CSCD 中国科学引文数据库 Chinese Science Citation Database

CSSCI 中文社会科学引文索引 Chinese Social Sciences Citation Index

INSPEC (SA)

由英国电气工程师协会（IEE）和英国物理学会等机构共同出版，是物理学、电气与电子工程、计算机与控制学科领域的权威检索工具。

印刷版：Science Abstract（SA, 科学文摘）

包含三个部分：《物理文摘》(PA), 《电气与电子文摘》(EEA), 《计算机与控制文摘》(CCA)

电子版：INSPEC（Information Service in Physics, Electro-Technology, Computer and Control）

主要学科领域包括：物理、电子与电气工程、计算机与控制工程、信息技术、生产和制造工程，还收录材料科学，海洋学，核工程，天文地理、生物医学工程等内容。

CA 化学文摘

创刊于1907年，由美国化学文摘服务社(CAS)编辑出版，网络版为SciFinder Scholar数据库。

以收录化学化工文献为主，还收录生物、医学、药学、轻工、冶金、天体、物理等内容，收录的文献占世界化学化工文献总量的98%。

CSA 剑桥科学文摘

因美国剑桥信息集团收购ProQuest公司，并统一使用ProQuest品牌，故更名为ProQuest CSA学术期刊。同时出版纸本刊与电子刊

剑桥科学文摘(Cambridge Scientific Abstracts, CSA)包括70多个数据库，覆盖的学科范围包括：人文社科、水科学与海洋学、电子信息、计算机科学、材料科学、工程科学以及生命科学等。

SCOPUS

Elsevier公司2004年推出的文摘引文索引数据库，每日更新。

收录范围包括数学、物理、化学、生物、生命科学，工程技术、农业、地球和环境科学、医药卫生、心理、社会、人文艺术等学科领域。收录同行评议期刊21,500多种，电子书120,000多种，720万会议文献及来自于美、日、英及欧洲的专利信息2700万。

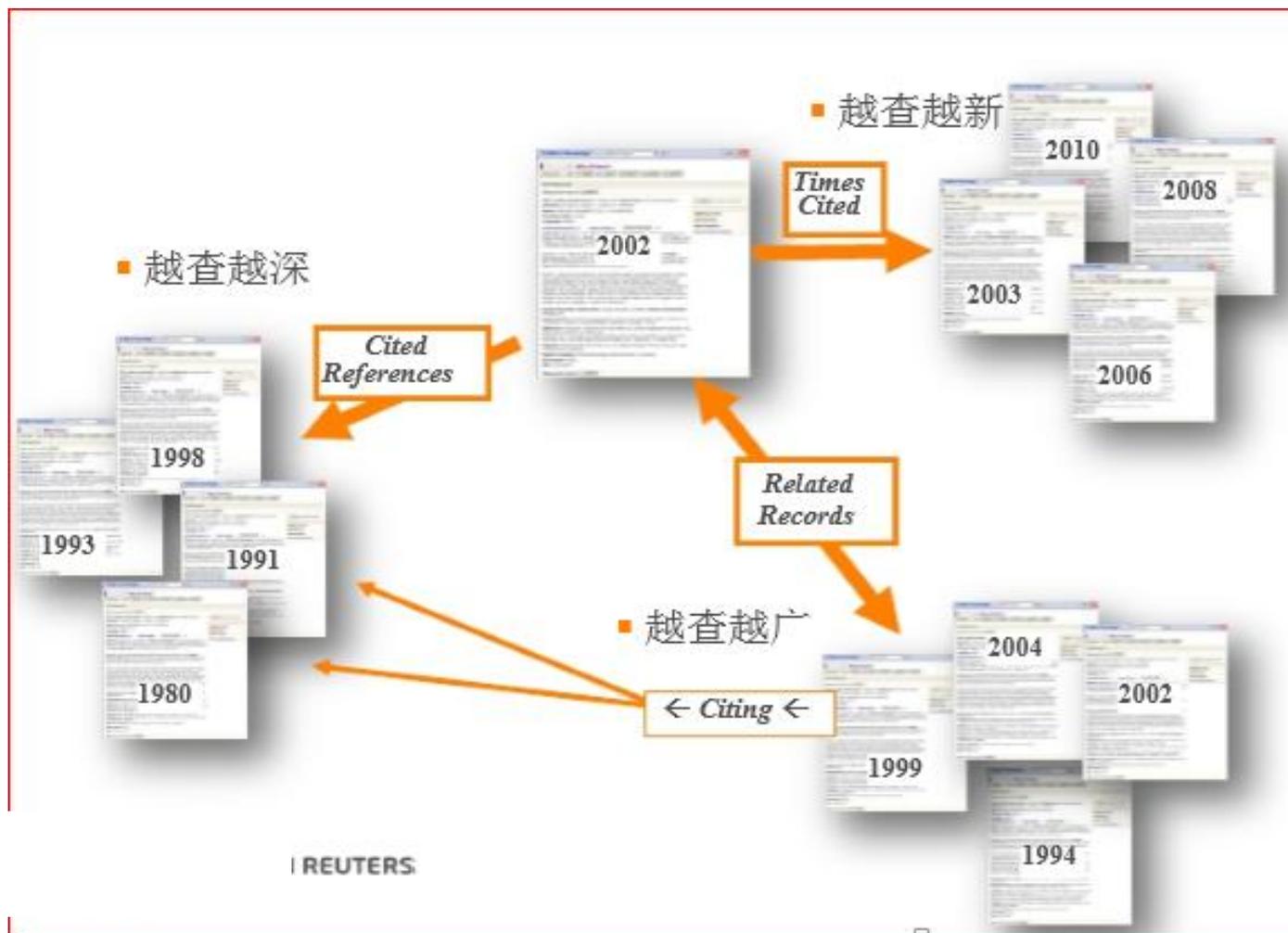
引文索引：即利用文献引证关系检索相关文献的索引。

可从一篇早期重要文献或著者姓名入手，检索到一批近期发表的相关文献，对交叉学科和新学科的发展研究具有重要参考价值。

引文索引

——即利用文献引证关系检索相关文献的索引

将一篇文献作为检索线索，从参考文献入手，追踪一个Idea的发展过程。



CSCD

中国科学引文数据库(Chinese Science Citation Database, CSCD)被誉为“中国的SCI”。创建于1989年，由中国科学院文献情报中心开发，是我国第一个引文数据库。2003年推出网络版，2007年与美国Thomson-Reuters Scientific合作，**通过ISI Web of Knowledge平台实现与Web of Science的跨库检索。**

该库收录我国数学、物理、化学、天文学、地学、生物、农林、医药卫生、工程技术和环境科学等领域出版的中英文科技期刊千余种，收录论文 441余万条。

CSSCI

中文社会科学引文索引(Chinese Social Sciences Citation Index, CSSCI)，由南京大学中国社会科学评价中心开发。

可检索中文社会科学领域的论文收录和文献被引用情况，数据从 1998年开始，提供全文数据链接。

2014-2015年收录来源期刊533种，扩展版来源期刊189种。

WOS 系列引文数据库

由美国科学情报研究所(ISI)出版，在web of Knowledge平台上可同时检索。

SCI 科学引文索引 Science Citation Index (我校1997年至今)

CPCI-S (原ISTP) 科技会议录引文索引 (我校2004年至今)

SSCI 社会科学引文索引 Social Science Citation Index (我校2007-2014年)

A&HCI 艺术与人文科学引文索引 Arts & Humanities Citation Index

ISSHP 社会科学及人文科学会议录索引 Index to Social Science & Humanities
Proceeding

CCR 化学索引 Current Chemical Reactions -- 1985年至今

IC Index Chemicus --1993年至今

BKCI-S 科技图书引文索引 Book Citation Index to Science

BkCI-SSH 社会科学及人文科学图书索引 Book Citation Index to Social Science
& Humanities

Engineering Village

- 美国《工程索引》（The Engineering Index，简称Ei）创刊于1884年，是美国工程信息公司（Engineering information Inc.）出版的工程技术领域综合性检索工具，也是世界上最早、连续出版时间最长的工程文献出版物。
- 1995年，Ei公司推出Engineering Village.Com在线检索平台
- 1998年，Elsevier公司收购Ei公司，更名为Elsevier Engineering Information Inc. 。

Engineering Village接口与收录内容

- 现由美国Elsevier Engineering Information Inc. 出版，主要提供应用科学和工程领域的信息
- EV 平台下统一跨库检索数据库：
 - **Compendex** (COMPUTerized ENgineering inDEX)
 - INSPEC
 - NTIS
 - USPTO/ EPO专利
 - Referex Engineering 电子书
 - GeoBASE
 - GeoRef
 - EnCompassLIT & EnCompassPAT,
 - Chimica & CBNB
 - PaperChem

Compendex

- 收录年代：1969年至今
- 应用科学和工程领域的会议/期刊/学位论文等文摘索引信息
- 资料量：3615 种期刊，95790 各类会议论文集和近12万份学位论文，超过 2000 万篇，每年新增文献100多万篇。
- 包含 190 种工程领域学科，如：生物工程、计算机和数据处理、应用物理及光学、电子和通信、控制工程、机械工程、材料工程、交通运输等。
- 收录77个国家，2200个出版商的出版物
- 更新频率：每周
- 回溯期刊：1884-1968年回溯数据178万条

会议论文收录数量约占整个EI收录信息的30%

（截止到2016年12月Ei官方统计数据）

EI数据库: 190个应用科学和工程类别

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

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

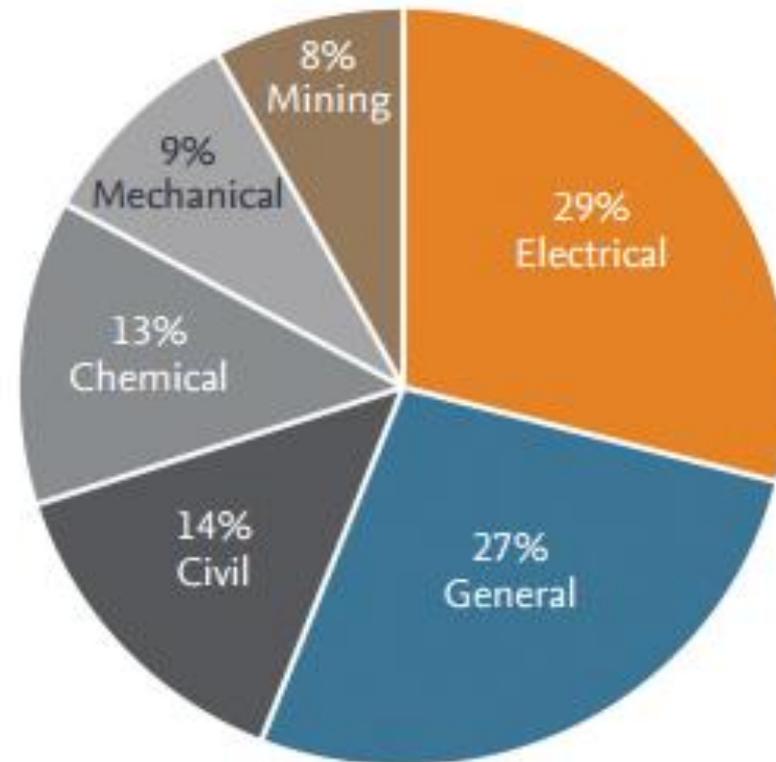
以及这些领域的子学科

Compendex

Ei Compendex cross-disciplinary areas

Ei Compendex related areas

- Applied Physics, including Optics
- Bioengineering and Biotechnology
- Food Science and Technology
- Materials Science
- Instrumentation, including Medical Devices
- Nanotechnology



Compendex

TOP 5 reasons to use Ei Compendex on Engineering Village²

1. Saves time and improves research success
2. Comprehensive search results
3. Controlled vocabulary
4. Easy to navigate
5. Interactive tutorials and helpful search features

Who uses Engineering Village?



96% of US
top 25 universities
(US News & World Report)



72% of global
top 50 universities
(QS Top Universities)



北京邮电大学 图书馆

Beijing University of Posts and Telecommunications Library

<http://lib.bupt.edu.cn/>

信息资源 ▲

读者服务 ▼

学科服务 ▼

入馆指南 ▼

纸质资源

▪ 书刊

▪ 标准

▪ 学位论文

电子资源

▪ 数据库导航

▪ 机构知识库

▪ 特色馆藏

▪ 电子图书

▪ 期刊/会议

▪ 学位论文

▪ 电子标准

▪ 多媒体

▪ 随书光盘

▪ 试用数据库

▪ 公网资源

▪ 工具与软件

▪ 使用说明

馆藏目录

电子书刊

学位论文

标准

期刊会议

多媒体

综合

所有题名 ▼

查找馆藏纸本图书、期刊

检索

说明：直找**馆藏纸本书刊**等资源，常用链接有**随书光盘**、**新书通报**；直找全国高校馆藏，请使用**E读**。

书刊检索

借阅信息

图书预约

图书续借

科技查新

查收查引

VPN访问

中文资源

外文资源

购书推荐

电子图书

期刊会议

多媒体

QQ实时咨询

随书光盘

移动阅读

管理快捷图

最新公告 最新资源

•关于公共检索系统和移动图书馆接通学校统一身份...

2016-04-0

•2016“北邮读书节”——“资源·获取·利用”...

2016-04-0

•感谢马自卫教授向图书馆赠书

2016-04-0

•第一届IPCC-Emerald版权知识竞赛

2016-03-3

•悦读悦享——Emerald 2016英语学习有奖问答...

2016-03-3

•Wiley在线讲堂开始了

2016-03-3

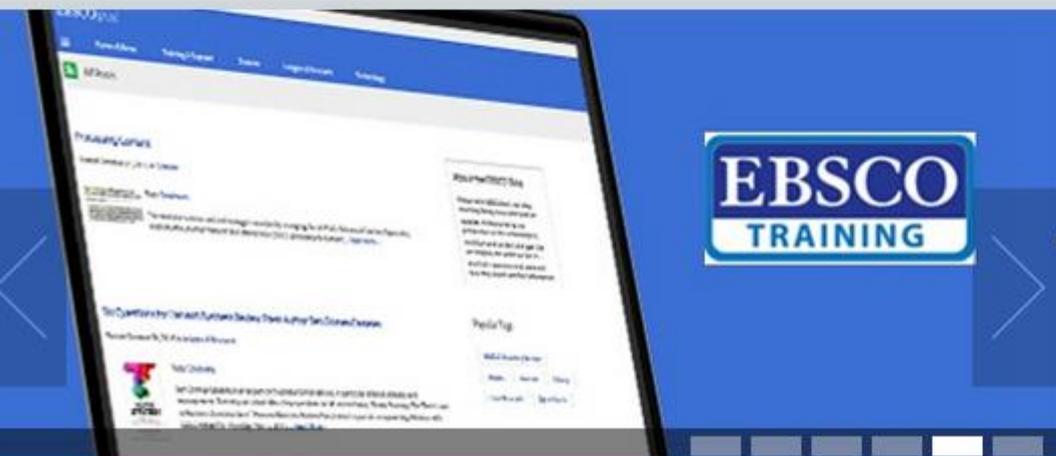
•关于图书馆工具书室服务变更的通知

2016-03-2

•图书馆关于2016年清明节期间开放安排的通知

2016-03-2

更多



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按分类浏览数据库:

[综合](#) [物理/光学](#) [电气/电子/通信/控制/计算机](#) [经济/管理](#) [图书馆/情报与档案管理](#) [人文社科](#) [化学/生物](#) [语言](#) [艺术](#) [法律](#)

按数据库类型浏览: [期刊](#) [会议](#) [学位](#) [标准](#) [电子图书](#) [事实数据库](#) [多媒体](#) [考试学习库](#) [检索工具](#) [文件管理软件](#) [科技报告](#) [其他](#)

资源名称	资源类型	学科	更多资源信息
CSSCI中文社会科学引文索引	检索工具	综合	介绍
中国科学引文数据库 (CSCD)	检索工具	综合	介绍
SCI《科学引文索引》数据库	检索工具	综合	介绍 SCI在线大讲堂 NEW
SSCI (社会科学引文索引)	检索工具	综合	介绍
EI village	检索工具	综合	介绍
ISTP (CPCI-S)《科技会议录索引》数据库	检索工具	综合	介绍
Essential Science Indicators (ESI)	检索工具	综合	介绍
JCR 期刊分区数据在线平台 (中科院)	检索工具	综合	介绍

Quick Search

Expert Search

Thesaurus Search

Search History

Compendex

DATABASE SEARCH FOR

AND

AND

ADVANCED OPTIONS

LIMIT TO

All document types

All treatment types

All Languages

1969 TO 2016

1 Updates

Databases | Search tips

Browse Indexes

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

Latest Resources

Tools

Improve Engineering Village

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

检索技巧

- 右截词 (*)

- 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

- 选中Autostemming off，关掉自动取词干功能，不选，输入的词自动用截词检索
- {} 或 “” 表示精确检索
- ONEAR/n 词序固定，检索词中间插入n个词，NEAR 词序不定

检索技巧

作者检索要考虑作者姓名拼写的各种方式，巧用截词符“*”

如：“张建国”可能会有如下拼写方式

zhang jianguo

zhang jian guo

zhang j-g

zhang jg

zhang j*

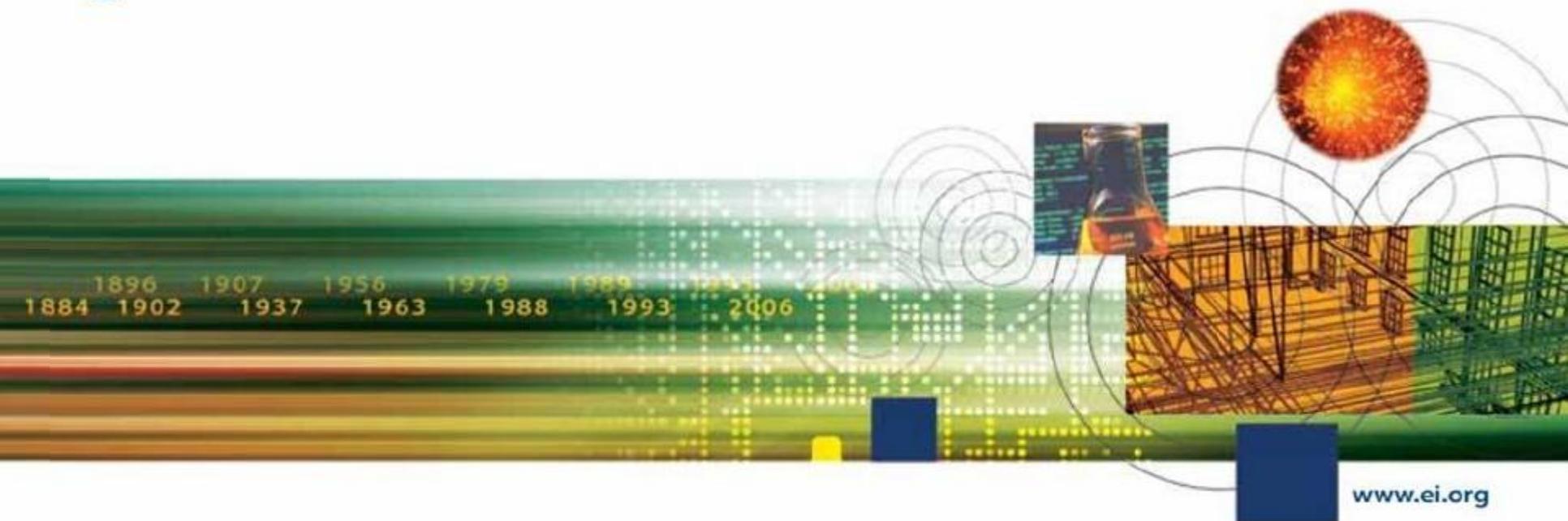
jianguo zhang

jian-guo zhang

jianguo z

j-g zhang

jg zhang



Quick Search – 快速检索

Quick Search

检索方式：快速检索、专家检索、词库检索

注册/登录

检索历史

增加检索字段

检索结果排序

词根检索 (建议不要勾选)

选择数据库

限定检索范围

The screenshot shows the Engineering Village Quick Search interface. At the top, there are links for Register, Login, End Session, and Go to SciVal Suite. Below this is a navigation bar with Search, Selected records, Settings, and Tags & Groups. The main search area includes tabs for Quick Search, Expert Search, and Thesaurus Search. A 'Search History (7)' link is visible. The 'DATABASE' section has checkboxes for various databases, with 'Compendex' selected. The 'SEARCH FOR' section has three input fields, each with a dropdown menu set to 'All fields'. There is an 'Add search field' button and a 'Search' button. The 'LIMIT TO' section has dropdowns for document types, treatment types, discipline types, and languages, along with date and update filters. The 'SORT BY' section has radio buttons for 'Relevance' (selected) and 'Publication year', and a checkbox for 'Autostemming off'. There are 'Search' and 'Reset' buttons at the bottom.

[Ei](#)
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[History of Ei](#)

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Add Search field – 增加检索字段

Quick Search

Expert Search

Thesaurus Search

eBook Search

Databases | Search tips

DATABASE

- | | | | | |
|----------------------------------|---|--|---------------------------------------|------------------------------------|
| <input type="checkbox"/> All | <input checked="" type="checkbox"/> Compendex | <input checked="" type="checkbox"/> Inspec | <input type="checkbox"/> NTIS | <input type="checkbox"/> PaperChem |
| <input type="checkbox"/> Chimica | <input type="checkbox"/> CBNB | <input type="checkbox"/> EnCompassLIT | <input type="checkbox"/> EnCompassPAT | |
| <input type="checkbox"/> GEOBASE | <input type="checkbox"/> GeoRef | <input type="checkbox"/> US Patents | <input type="checkbox"/> EP Patents | |
| <input type="checkbox"/> Referex | | | | |

SEARCH FOR

<input type="text"/>	in

- AND
AND
AND
AND
AND

- All fields
- All fields
- Subject/Title/Abstract
- Abstract
- Author
- Author affiliation
- Title
- Ei Classification code
- CODEN
- Conference information
- Conference code
- ISSN
- Ei main heading
- Publisher
- Source title
- Ei controlled term
- Country of origin

可根据需求增加检索字段

移除检索字段

Browse indexes—查找索引

Quick Search | Expert Search | Thesaurus Search | Search History

DATABASE Compendex

SEARCH FOR {J AMER CHEM SOC} in Source title

AND ▾

AND ▾

ADVANCED OPTIONS ▾

LIMIT TO ⓘ

All document types

All treatment types

All Languages

1969 ▾ TO 20

1 ▾ Updates

Engineering Village - Browse Index - Lookup - Google Ch...

https://www.engineeringvillage.com/search/browseindex

Search for: J Find Submit

Selected index: Source title

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1. of lithiation-induced stress in silicon nanoparticles using micro-Raman spectroscopy

Zeng, Zhidan (Department of Geological Sciences, Stanford University, Stanford; CA, United States); Liu, Nian; Zeng, Qiaoshi; Lee, Seok Woo; Mao, Wendy L.; Cui, Yi

Source: Nano Energy, v 22, p 105-110, April 01, 2016

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Structure-dependent behavior of stress-induced voiding in Cu interconnects

Wu Z.-Y., Yang Y.-T., Chai C.-C., Li Y.-J., Wang J.-Y., Li B., Liu J.

2010 Thin Solid Films, 518 (14), pp. 3778-3781.

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Tang; Chai, Chang-Chun; Li, Yue-Jin; Wang, Jia-You; Li, Bin; Liu, Fiedlor, H. (1)

Database: Compendex

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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: 14697545; 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

Treatment: Theoretical (THR)

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*

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- Li, Wei (391)
- Wang, X. (382)

Author affiliation

- Univ Of California (1342)
- Imec (765)
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- In situ measurement of lithiation-induced stress in silicon nanoparticles using micro-Raman spectroscopy**
 Zeng, Zhidan (Department of Geological Sciences, Stanford University, Stanford; CA, United States); Liu, Nian; Zeng, Qiaoshi; Lee, Seok Woo; Mao, Wei
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- Thermal-poro elastic stress effect on stress reorientation in production and injection wells**
 Abou-Sayed, Ahmed S. (Advantek International Corp., United States); Zhai, Zongyu
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- Structure-orientation dependence of stress corrosion cracking in Cu interconnects**
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- An elucidation for the central stress minimum in granular piles using the smoothed particle hydrodynamics**
 Yuu, Shinichi (Ootake R. and D. Consulting Office1-17-27-508 OotakeHigashiku 811-0322Fukuoka Japan); Umekage, Toshihiko
 Source: *AICHE Journal*, 2016
 Article in Press
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- Experiments to Explore the Mechanisms of Stress Corrosion Cracking**
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1.

Accession number: 20160301815755

 Article in Press 

Title: An elucidation for the central stress minimum in granular piles using the smoothed particle hydrodynamics

Authors: Yuu, Shinichi¹  Umekage, Toshihiko²

Author affiliation: ¹ Ootake R. and D. Consulting Office1-17-27-508 OotakeHigashiku 811-0322Fukuoka Japan

² Department of Mechanical EngineeringKyushu Institute of Technology1-1 SensuichoTobataku 804-8550Kitakyushu Japan

Corresponding author: Yuu, Shinichi (yyykm@com.home.ne.jp)

Source title: AIChE Journal

Abbreviated source title: AIChE J.

Issue date: 2016

Publication year: 2016

Language: English

ISSN: 00011541

E-ISSN: 15475905

CODEN: AICEAC

Document type: Article in Press

Publisher: John Wiley and Sons Inc.

Abstract: Stress distributions on bases of granular piles were predicted based on the constitutive relations obtained by the discrete element method (DEM) using the smoothed particle hydrodynamics to elucidate the mechanism of the central stress minimum beneath piles. The calculated stress distributions are in good agreement with the experimental data of researchers. A stress peak and a central stress minimum are mainly formed by the granular flows in a pile construction. The location of the stress peak was the same location of the minimum granular velocity before the granular pile became stationary. This suggests that the location of the stress peak corresponds to the base of the granular arching. The stress distributions on the bases by a homogeneous falling showed the central stress maximum. The low shear stress gradient by the homogeneous falling produces a central stress peak with a gentle slope. © 2015 American Institute of Chemical Engineers.

Main heading: Piles

Controlled terms: Finite difference method - Fluid dynamics - Granular materials - Hydrodynamics - Location - Particles (particulate matter) - Shear stress - Stress concentration

Uncontrolled terms: Central stress minimum - Constitutive relations - Pile construction - Simulation - Smoothed particle hydrodynamics - SPH - Stress gradient - Stresses distribution

Classification code: 408.2 Structural Members and Shapes - 921.6 Numerical Methods - 931.1 Mechanics - 951 Materials Science

DOI: 10.1002/aic.15148

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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, 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, 050042 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

Page: 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

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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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Author details: View Author Details in Scopus

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 A.; Salamone, S. Source: Proceedings of the SPIE - The International Society for Optical Engineering, v 8345, p 834505 (12
 pp.), 2012
 Database: Inspec
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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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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

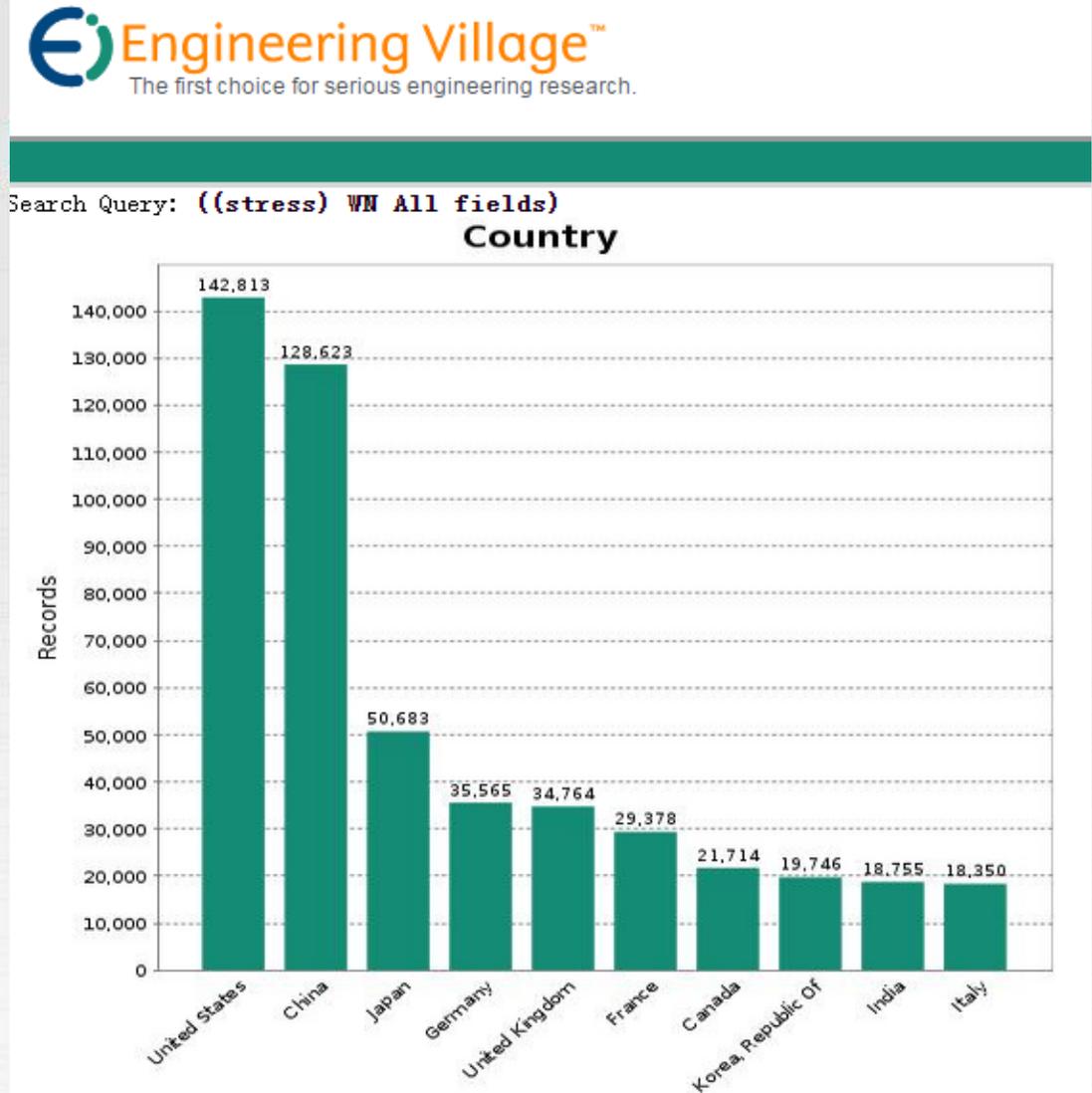
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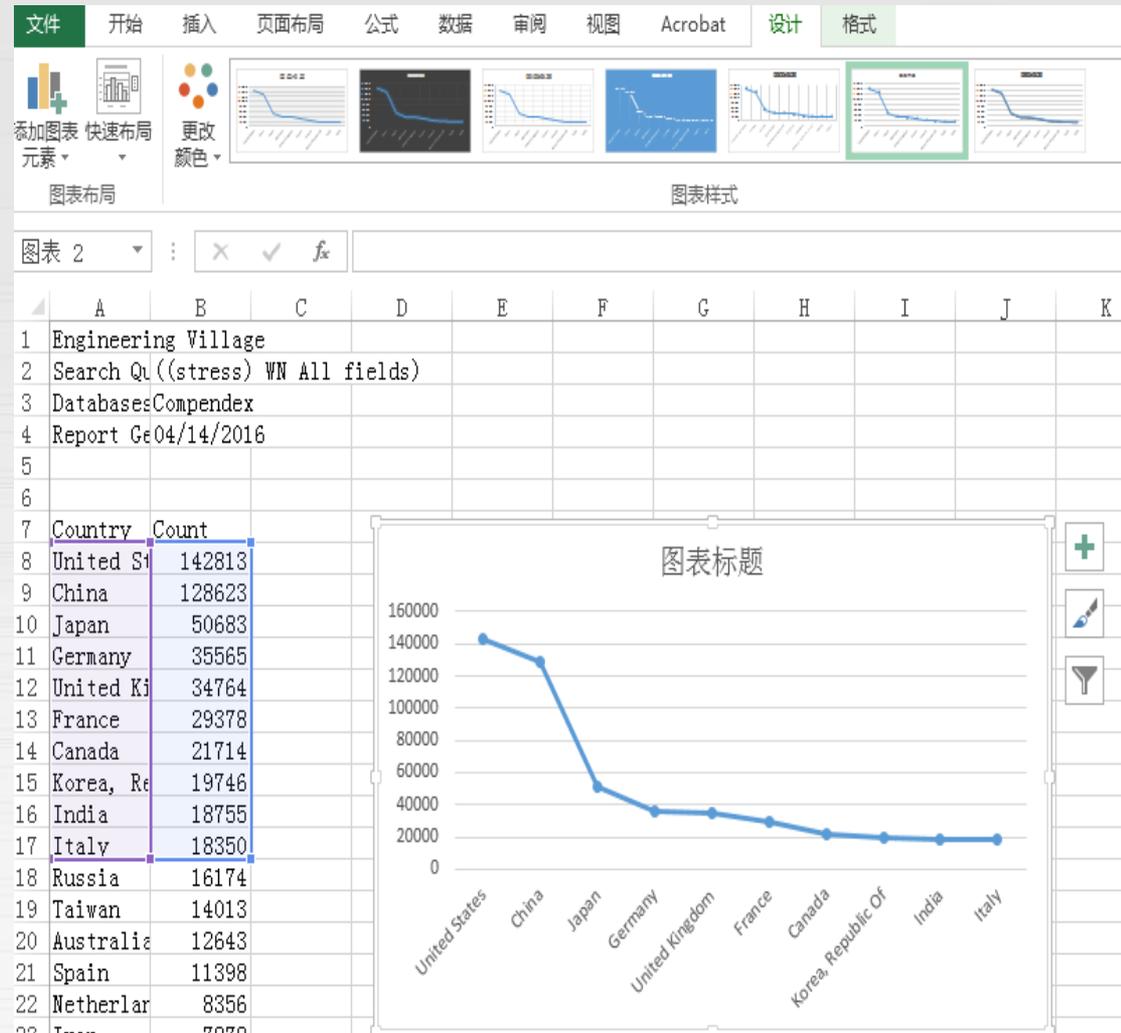
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21 **Stress wave emission and optical breakdown in tissue-like media**Brujan, Emil-Alexandru^{1, 2}Source: *Journal of Fluid Mechanics* 14697645; DOI: 10.1017/S0022256X14000000

Author affiliations:

1 Institute of Biomedical Optics, Romania

2 Department of Hydraulics, Romanian Academy of Sciences, Romania

Abstract:

Stress wave emission and 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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 Rodio, J.J.¹; Xiao, X.²; Hassan, H.A.¹ Source: 53rd AIAA Aerospace Sciences Meeting; ISBN-13: 9781624103438
Article number: AIAA 2015-0590; **Conference:** 53rd AIAA Aerospace Sciences Meeting, January 5, 2015 - January 9, 2015; **Publisher:** American Institute of Aeronautics and Astronautics Inc, AIAA

Author affiliation:
 1 Mechanical and Aerospace Engineering, North Carolina State University, Raleigh, NC; 27697-7910, United States
 2 Corvid Technologies, Mooresville; NC; 28117, United States

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1.

Accession number: 20163202688741

Title: A physics-based transitional/turbulence stress model

Authors: Rodio, J.J.¹; Xiao, X.²; Hassan, H.A.¹

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Conference date: January 5, 2015 - January 9, 2015

Conference location: Kissimmee, FL, United states

Conference code: 176349

Publisher: American Institute of Aeronautics and Astronautics Inc, AIAA

Abstract: A new physics-based approach that is free of empirical correlations and computes the transition from laminar to transitional/turbulent flows in a seam-less way is presented. Good agreement is indicated when used to predict transition resulting from the burst of a laminar bubble. Good agreement is indicated when used to predict transition are made with the Langtry-Mentor model and experimental data. © 2015 by the American Institute of Aeronautics and Astronautics

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1 Institute of Biom

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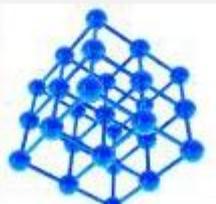
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¹ Université de Lyon. Laboratoire de Physique. École Normale Supérieure de Lyon, 46 Allée d'Italie 69364, Lyon cedex 07, France

² Laboratoire de Physique de la Matière Condensée et Nanostructures, Université de Lyon, Université Claude Bernard Lyon 1, 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, 2009, 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.
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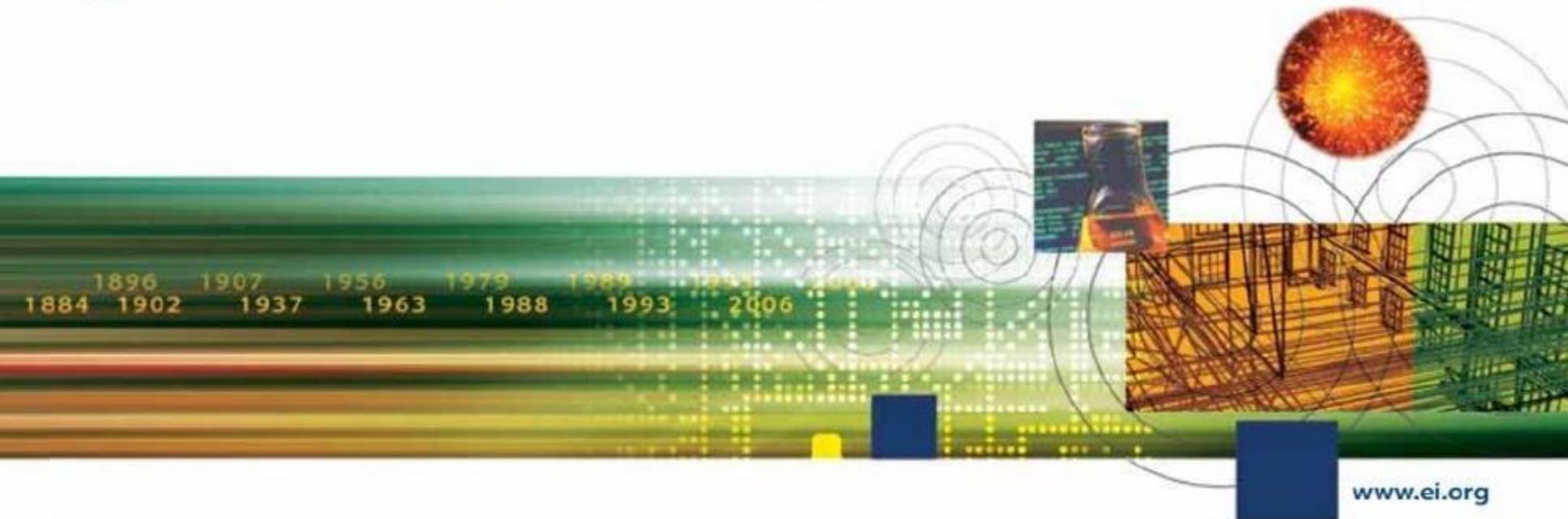
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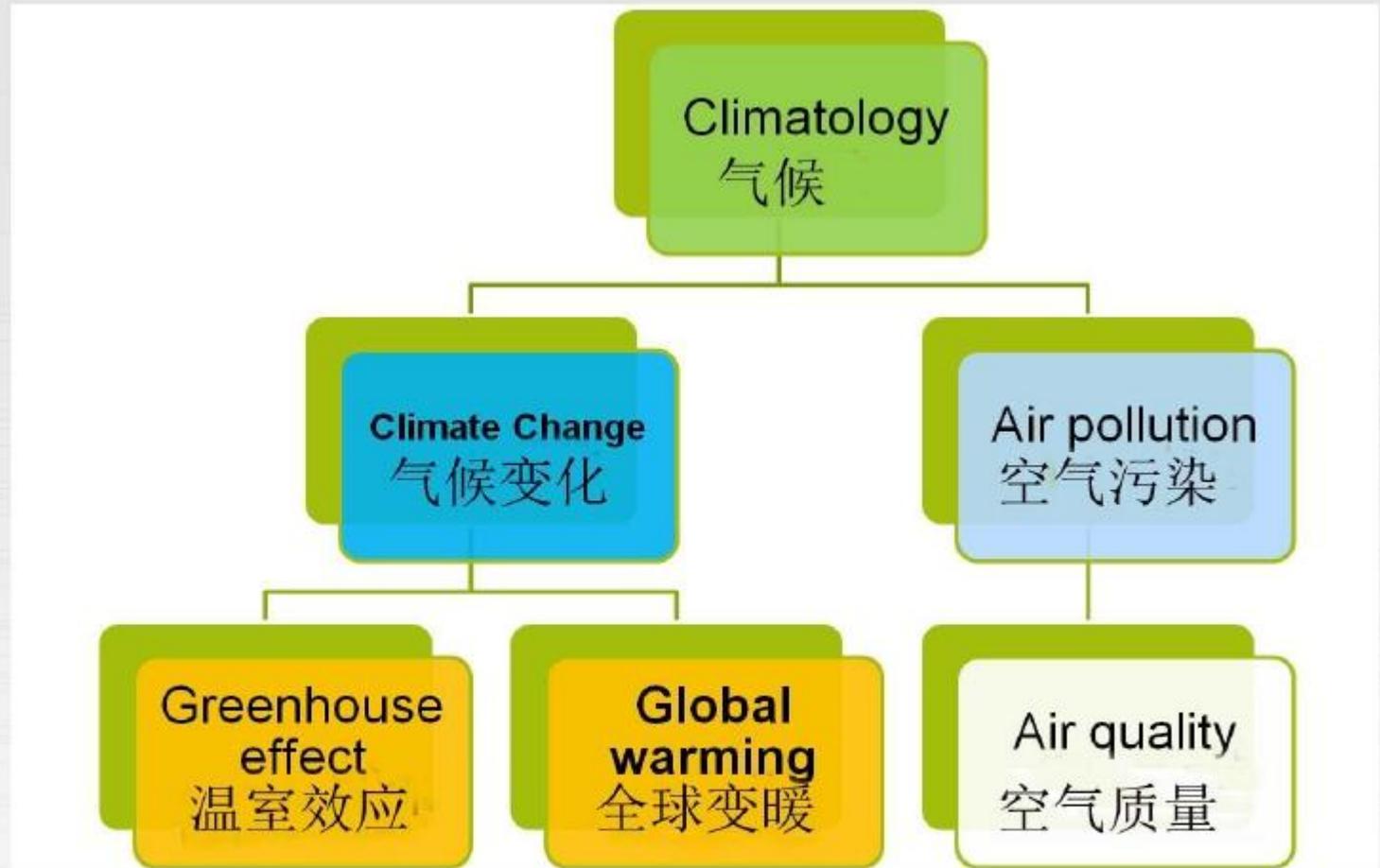
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