

Ei数据库在开题与课题申请前的文献调研中的应用—工程类

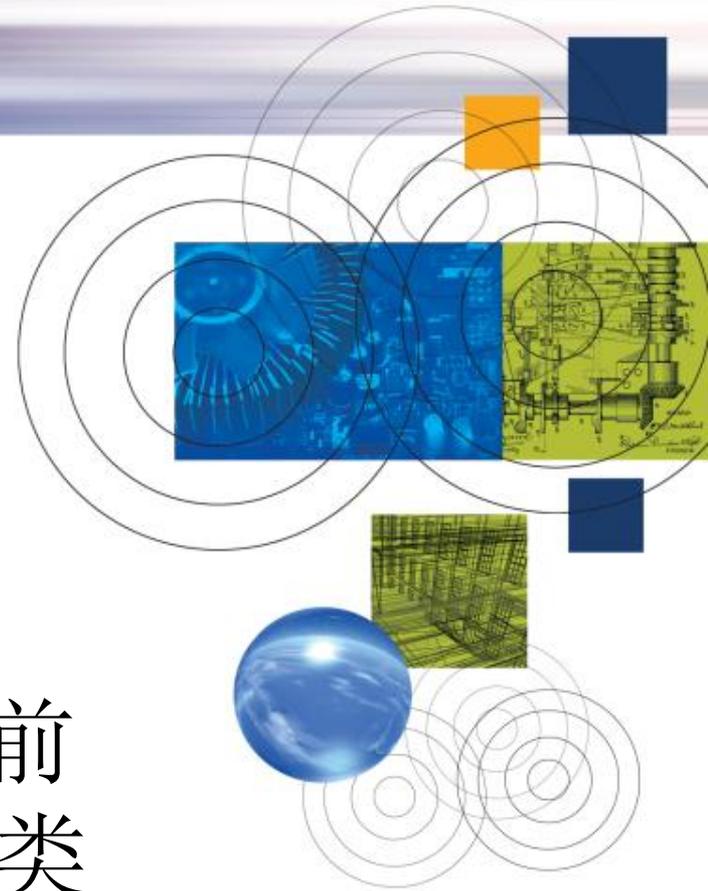


主讲人：罗莹
邮 箱：y.luo@elsevier.com

www.ei.org



Ei数据库在开题与课题申请前的文献调研中的应用—工程类



提纲

1. 文献收集重点
2. 文献检索
3. Engineering Village简介
4. EI检索全解析
 - Thesaurus
 - Quick Search
 - Expert Search
5. iEI-My Profile
6. Q&A环节

Quick Search

Expert Search

Thesaurus

My Profile

Ask an Expert

Help

一、文献收集重点-文献调研阶段

确定主题后的**泛调研**

收集该领域的综述文献、博士学位论文;重点利用本领域经典或综述文集数据库

重点阅读**英文综述**或研究论文标题、摘要:了解**前沿、难点、创新点**、并收集**关键词**

确定**研究题目**=实验室研究背景+当前研究热点+自身兴趣点

确定题目后的**精调研**

有针对性的收集文献,重点在于**确定内容**;利用数据库的**分析功能**,查找主要的研究者和机构

文献阅读-泛读和**精读**相结合

确定课题实施方案(技术和方法的创新)

先看综述性论文，再看研究论文。

- 特点：综合性、扼要性和评价性，参考文献多。
- 应作为“起步文献”加以参考利用。

The screenshot displays the Engineering Village search interface. The 'LIMIT TO' dropdown menu is open, showing various document types. 'General review' is highlighted in blue. A blue callout box with a yellow border points to this option, containing the text 'General Overview' and '文献综述'.

Engineering Village™
The first choice for serious engineering research.

Search | Selected records | Settings | Tags & Groups | Bulletins

Quick Search | Expert Search | Thesaurus Search | Search History

DATABASE

<input type="checkbox"/> All	<input checked="" type="checkbox"/> Compendex	<input 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	

SEARCH FOR

<input type="text"/>	in	All fields
<input type="text"/>	in	All fields
<input type="text"/>	in	All fields

AND AND

Turn Off AutoSuggest | Add search field | Search

ADVANCED OPTIONS

LIMIT TO

- All document types
- All treatment types
- All treatment types
- Applications
- Biographical
- Economic
- Experimental
- General review**
- Historical
- Literature review
- Management aspects
- Numerical
- Theoretical

SORT BY

Relevance Date

Autostemming off

Browse Indexes

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

Latest Resources

More Sources

Interactive Equations and Tools
Powered by Knovel

General Overview
文献综述

注重学位论文的检索和阅读。

- 五个显著特点：
- (1) 数据图表充分详尽
- (2) 参考文献丰富全面
- (3) 可得到课题研究现状综述
- (4) 可跟踪名校导师的科研进程
- (5) 学习学位论文的写作方法

可以获得课题研究的更多相关文献

The screenshot shows the Engineering Village search interface. The 'LIMIT TO' dropdown menu is open, displaying various document types. 'Dissertation' is highlighted in blue. Other options include 'All document types', 'Journal article', 'Conference article', 'Conference proceeding', 'Monograph chapter', 'Monograph review', 'Report chapter', 'Report review', 'Patents (before 1970)', and 'Article in Press'. The 'SEARCH FOR' section shows three search fields with 'All fields' selected for each. The 'ADVANCED OPTIONS' section includes 'LIMIT TO' and 'SORT BY' (Relevance, Date (Newest), Autostemming off).

ProQuest Dissertation
学位论文

寻找本研究领域的高品质期刊。

- 参考 <http://www.scimagojr.com/> 等知名排名。



SCImago
Journal & Country
Rank

EST MODUS IN REBUS
Horatio (Satire 1,1,106)

- Home
- Journal Rankings**
- Journal Search
- Country Rankings
- Country Search
- Compare
- Map Generator
- Help
- About Us

Journal Rankings

Ranking Parameters

Subject Area:

Subject Category:

Region/Country: Year:

Order By:

Display journals with at least:

[Refresh](#)

Complete list (2014).

[Download data \(Excel .xlsx\)](#)

1 - 50 of 22878 << First | < Previous | Next > | Last >>

	Title	Type	SJR	H index	Total Docs. (2014)	Total Docs. (3years)	Total Refs.	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc.	Country
1	Ca-A Cancer Journal for Clinicians	j	37,384	108	48	131	2.888	11.037	111	75,69	60,17	
2	Reviews of Modern	i	28,826	222	27	126	0.245	4.726	120	28.48	251.76	

Related product



阅读本领域的主要研究者/机构的文献

- 如何知道主要的研究者/机构？
- 利用数据库的分析功能获得。
- 通过本领域作者发文量重要国际会议中的特邀报告人信息获得。

The screenshot displays the Engineering Village search results page. On the left, there is a 'Refine results' sidebar with filters for 'Author' and 'Author affiliation'. The 'Author' filter lists names like Brebbia, C. A. (67) and Falconer, R. A. (63). The 'Author affiliation' filter lists institutions like U.S. Geological Survey (186) and Univ Of California (183). Two blue callout boxes with yellow borders point to these filter sections: one labeled 'Author 作者信息' and another labeled 'Author Affiliation 机构信息'. The main search results area shows a list of articles with titles, authors, and sources. The top navigation bar includes 'Search', 'Selected records', 'Settings', 'Tags & Groups', 'Bulletins', 'Support', and 'Ask an expert'. The top right corner shows the user 'Ying Luo' and a 'Logout' button.

阅读高被引次数的文献

- 被引次数是判断一篇论文是否有影响力(价值)的一种比较直观和比较有效的方法。

Engineering Village

14. **Prospects of high temperature superconductors for fusion magnets and power applications**
Fietz, Walter H. (Karlsruhe Institute of Technology, Karlsruhe, Germany); Barth, Christian; Drotziger, Sandra; Goldacker, Wilfried; H
l.; Weiss, Klaus-Peter Source: *Fusion Engineering and Design*, v 88, n 6-8, p 440-445, 2013
Database: Compendex
Abstract | Detailed | Show preview | Cited by in Scopus (6) | Full Text Link | SFX

15. **Conduction cooled high temperature superconducting dipole magnet for accelerator applications**
Zangenberg, Nikolaj (Danfysik A/S, Gregersensvej 8, DK-2630, Taastrup, Denmark); Nielsen, Gunver; Hauge, Nils; Nielsen, Bjarne
Christian G.; Bräuner, Lars; Ulse, Bo; Mller, Sren Pape Source: *IEEE Transactions on Applied Superconductivity*, v 22, n 3, 2012
Database: Compendex
Abstract | Detailed | Show preview | Cited by in Scopus (6) | Full Text Link | SFX

Scopus引文信息

数据库分类及选择标准

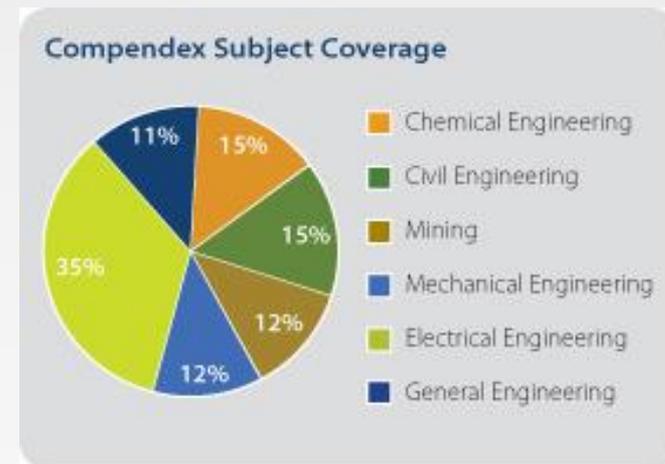
- 分类：
 - 全文型：存储内容为各类原始文献的信息。又称一次文献数据库。如：Elsevier SD、中国知网
 - 书目型：存储描述如目录、题录、文摘等书目线索的数据库，又称二次文献数据库。为用户指出获取原始信息的线索。如：EI Compendex、SCIE
 - 数据、事实型：存储内容来源于百科全书、名录、词典、手册、年鉴和统计资料等参考工具书。如：Knovel, Reaxys等
- 标准：
 - - 广和全的专业覆盖面
 - - 高质量的检索系统
 - - 内容的更新速度
 - - 数据库的权威性
 - - 利用检索平台实现跨库检索

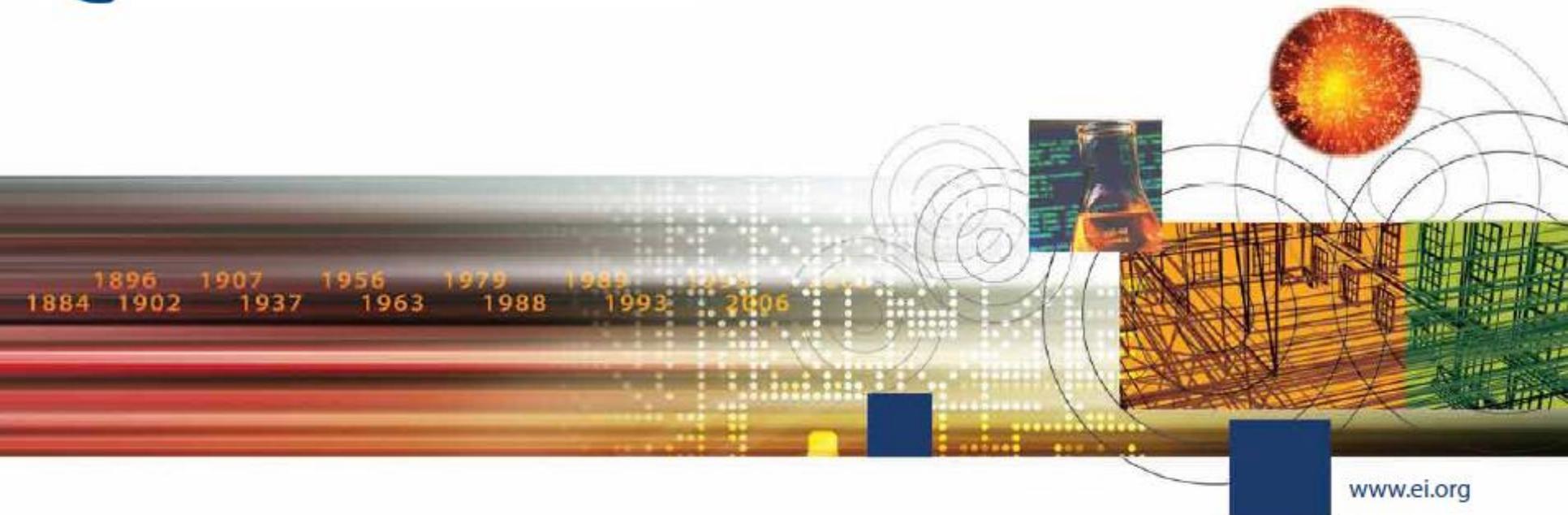
Engineering Village接口与收录内容

- 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：1970年至今
- 3,600多种、期刊、商业杂志、和技术报告资料
- 80000多种工程研讨会会议记录
- 资料量：超过 1800 万篇，每年新增约 100万篇资料
- 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、
- 收录超过55个国家的出版品，其中中文期刊200余种。
- 更新频率：每周
- 回溯期刊：1884年-1969年

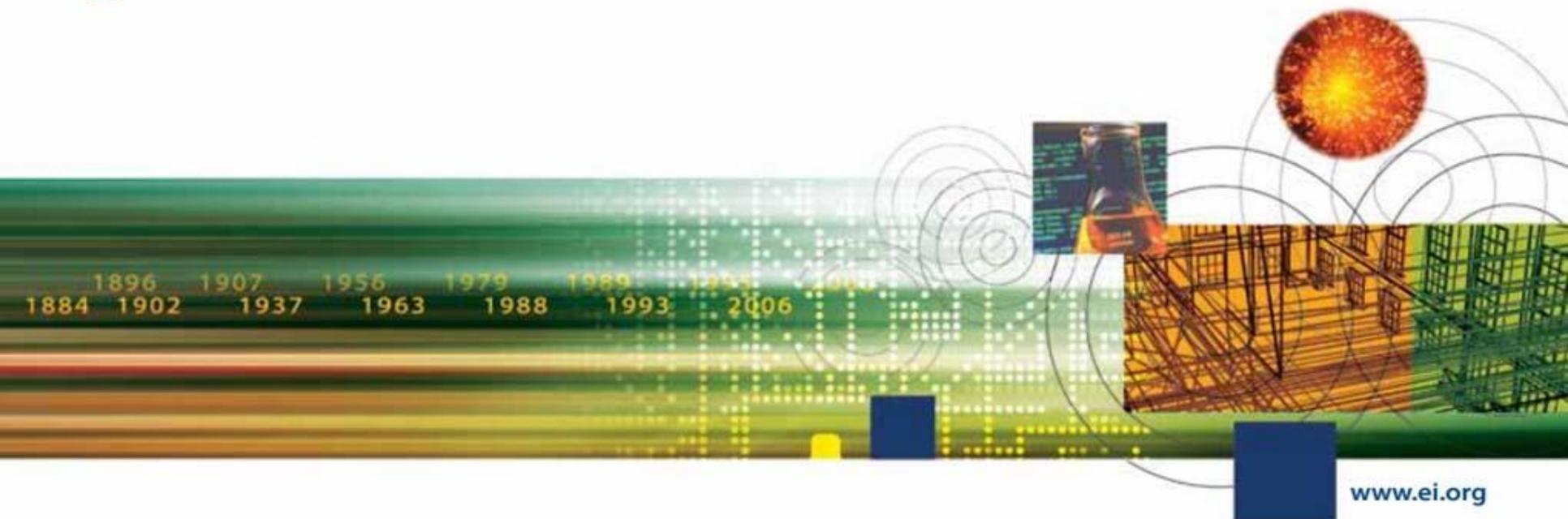




检索方式

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





Quick Search – 快速检索

功能列：快速检索、专家检索、词库检索

Quick Search

Expert Search

Thesaurus Search

Search History (0)

DATABASE

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

选择数据库

Databases | Search Tips

Browse Indexes

Latest Resources

- Learn & Support
- Training
- Releases

Interactive Equations and Tools
Powered by Knovel®

增加检索字段

AND

AND

Turn Off AutoSuggest | Add search field | Search

ADVANCED OPTIONS

限制条件和排序选项

- All document types
- All treatment types
- Discipline type not available
- All Languages

1864 TO 2017
1 Updates

SORT BY

- Relevance
- Date (Newest)
- Autostemming off

相似词检索 (建议不要勾选)

Search Reset

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 (预设相关度); 在相同条件之下, 再依降序或升序规则排序

Quick Search
2031402 articles found in Compendex, Inspec, NTIS, PaperChem, Chimica, CBNB, EnCompassLIT, EnCompassPAT, GEOBASE, GeoRef, US Patents & EP Patents for 1785-2016: // (Stress) W/N All fields

New Search Edit Save Search Create Alert RSS feed Search history

Numeric Filter 1 +

display: 25 results per page

Refine results
Limit to Exclude

Add a term

Controlled vocabulary
Water Pollution (44359)
Water Quality (19944)
Pollution (13232)
Wastewater Treatment (10776)
Groundwater (10128)

Author
Author affiliation
Classification code
Country
Document type
Language
Year
Source title
Publisher
Funding sponsor

Limit to Exclude

Run new search with selected facets

select: Selected Records (0) | Remove all Selected Records

Email Print Download Remove Duplicates

Sort by: Relevance
Relevance
Date (Oldest)
Date (Newest)

Variation of stress intensity factor along a small interface crack front in singular stress fields
Koguchi, Hideo (Nagaoka University of Technology, 1603-1 Kamitomioka, Nagaoka, Niigata 940-2188, Japan); Yokoyama, Koki; Luangarpa, Chonlada Source: International Journal of Solids and Structures, February 05, 2015
Database: Compendex
Detailed | Show preview | Full Text | Check Local Full-text

Dynamic stress analysis applied to the electrodeposition of copper
Lafouresse, M.C. (National Institute of Standards and Technology, Gaithersburg; MD, United States); Bertocci, U.; Stafford, G.R. Source: Journal of the Electrochemical Society, v 162, n 1, p D27-D35, 2015
Database: Chimica
Detailed | Show preview | Full Text | Check Local Full-text

Residual stress reduction in the penetration nozzle weld joint by overlay welding
Jiang, Wenchun (State Key Laboratory of Heavy Mechanical Processing, Beijing University of Aeronautics and Astronautics, Beijing, China); Luo, Yun; Wang, B.Y.; Tu, S.T.; Gong, J.M. Source: Journal of Materials Processing Technology, v 255, p 1-10, 2018
Database: Chimica
Detailed | Show preview | Full Text | Check Local Full-text

Measurement of Stress Redistribution in Flowing Emulsions
Desmond, K.W. (Dept. of Phys., Emory Univ., Atlanta, GA, United States); Weeks, E.R. Source: Physical Review Letters, v 115, n 9, p 098302 (5 pp.), 28 Aug. 2015

Search | Selected records | Settings | Help | Ask an expert

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

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 Indexes

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

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More Sources

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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

文献内容：摘要形式

在Scopus中引用之文献，
点选连至Scopus数据库！

New Search | View search history | Back to results | < Previous 21 of 1093117 Next >

Full text | Blog This | Email | Print | Download | Save to Folder

Abstract

Detailed

 Highlight search terms

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

Check record to add to Selected Records

21. **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)

Database: Compendex

Tools in Scopus

Cited by: This article has been cited **41 times** in Scopus since 1996.

Brujan, E.A.; Ikeda, T.; Matsumoto, Y.

Shock wave emission from a cloud of bubbles
(2012) *Soft Matter*

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

Cavity growth in a triblock copolymer polymer gel
(2012) *Soft Matter*

Author details: View Author Details in Scopus.

Brujan, E.-A.

Vogel, A.

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Add a tag

Public

Add

del.icio.us

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: 找到更多关于这本文刊的文章

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*

Author details: View Author Details in Scopus.

[Brujan, E.-A.](#)
[Vogel, A.](#)

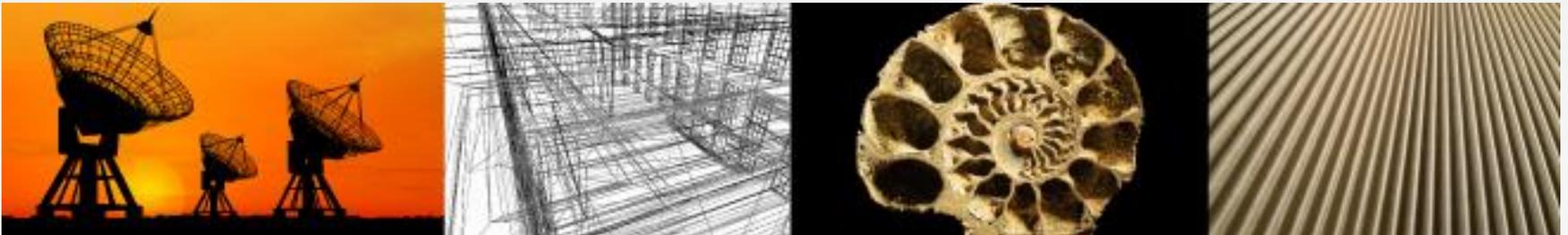
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Add a tag ①

Public

[del.icio.us](#)

结果中再检索



Refine Result 结果再检索

1677437 articles found in Compendex for 1884-2017: (Water) WN All fields

New Search Edit Save Search Create Alert RSS feed Search history

Numeric Filter 1

Refine results

Limit to Exclude

Add a term

Controlled vocabulary

- Water (74379)
- Mathematical Models (72050)
- Computer Simulation (57635)
- Soils (51788)
- Water Quality (46690)

View more

Author

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Publisher

Funding sponsor

Limit to Exclude

Run new search with selected facets

译稿 (7篇)

Display: 25 results per page

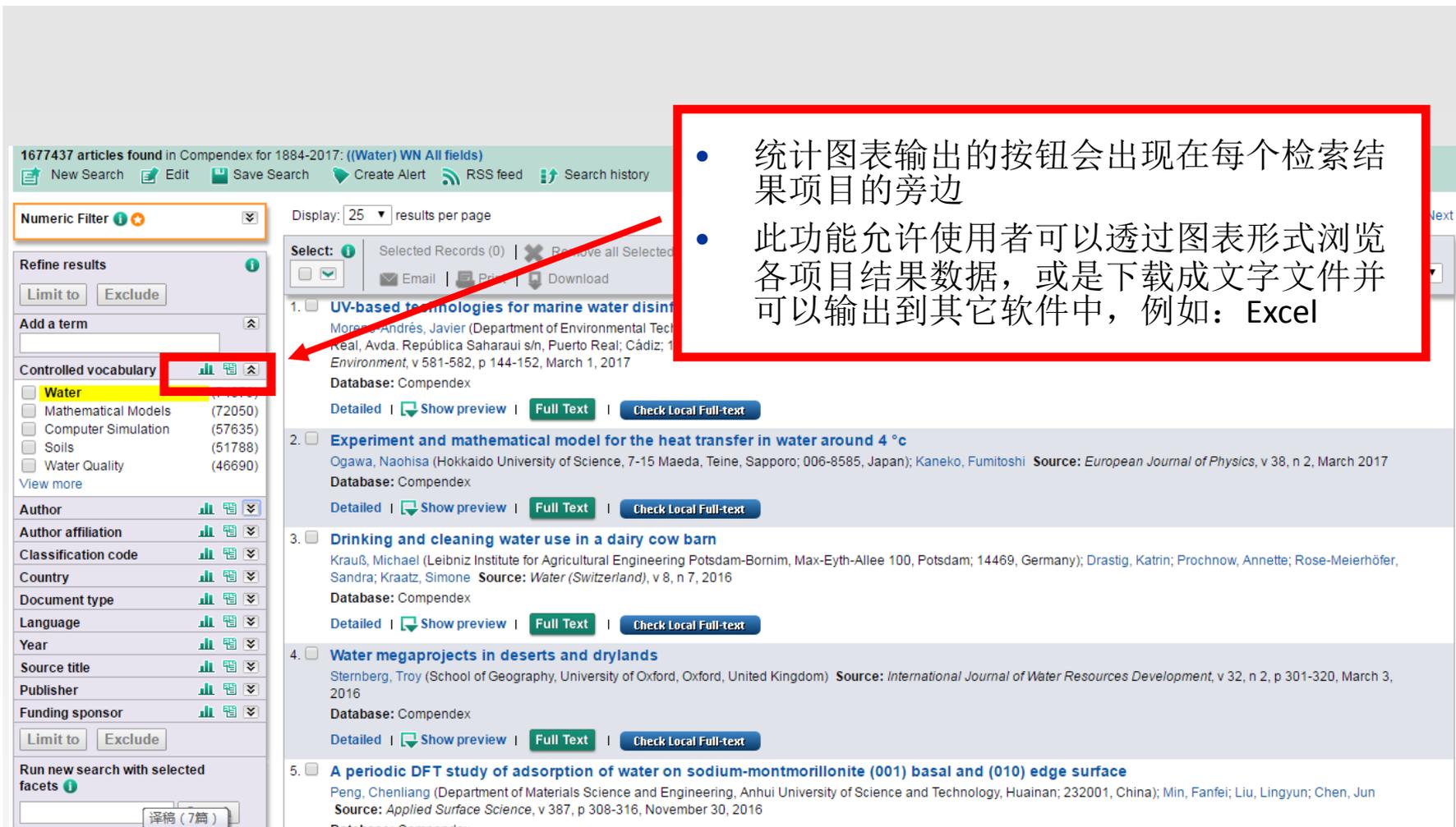
Select: Selected Records (0) Remove all Selected Records

Email Print Download

- UV-based technologies for marine water disinfection**
Moreno-Andrés, Javier (Department of Environmental Technology, University of Cádiz, Puerto Real, Avda. República Saharaui s/n, Puerto Real; Cádiz, 11510, Spain); Romero-Martínez, Leonardo; Acevedo-Merino, Asunción; Nebot, Enrique Source: *Science of the Total Environment*, v 581-582, p 144-152, March 1, 2017
Database: Compendex
Detailed | Show preview | Full Text | Check Local Full-text
- Experiment and mathematical model for the heat transfer in water around 4 °C**
Ogawa, Naohisa (Hokkaido University of Science, 7-15 Maeda, Teine, Sapporo; 006-8585, Japan); Kaneko, Fumitoshi Source: *European Journal of Physics*, v 38, n 2, March 2017
Database: Compendex
Detailed | Show preview | Full Text | Check Local Full-text
- Drinking and cleaning water use in a dairy cow barn**
Krauß, Michael (Leibniz Institute for Agricultural Engineering Potsdam-Bornim, Max-Eyth-Allee 100, Potsdam; 14469, Germany); Drastig, Katrin; Prochnow, Annette; Rose-Meierhöfer, Sandra; Kraatz, Simone Source: *Water (Switzerland)*, v 8, n 7, 2016
Database: Compendex
Detailed | Show preview | Full Text | Check Local Full-text
- Water megaprojects in deserts and drylands**
Sternberg, Troy (School of Geography, University of Oxford, Oxford, United Kingdom) Source: *International Journal of Water Resources Development*, v 32, n 2, p 301-320, March 3, 2016
Database: Compendex
Detailed | Show preview | Full Text | Check Local Full-text
- A periodic DFT study of adsorption of water on sodium-montmorillonite (001) basal and (010) edge surface**
Peng, Chenliang (Department of Materials Science and Engineering, Anhui University of Science and Technology, Huainan; 232001, China); Min, Fanfei; Liu, Lingyun; Chen, Jun Source: *Applied Surface Science*, v 387, p 308-316, November 30, 2016
Database: Compendex

- 在Refine Results检索结果中:可依作者、作者所属机构、国家、文献种类等类别进阶筛选:可Include或是Exclude一个或多个标目
- 在Refine Results中可结合超过一个以上的分析项目,透过每篇标目前的勾选框勾选要结合的记录

Refine Results Graphs & Export



1677437 articles found in Compendex for 1884-2017: (Water) WN All fields

New Search Edit Save Search Create Alert RSS feed Search history

Numeric Filter 1

Refine results

Limit to Exclude

Add a term

Controlled vocabulary

Water (72050)

Mathematical Models (72050)

Computer Simulation (57635)

Soils (51788)

Water Quality (46690)

View more

Author

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Publisher

Funding sponsor

Limit to Exclude

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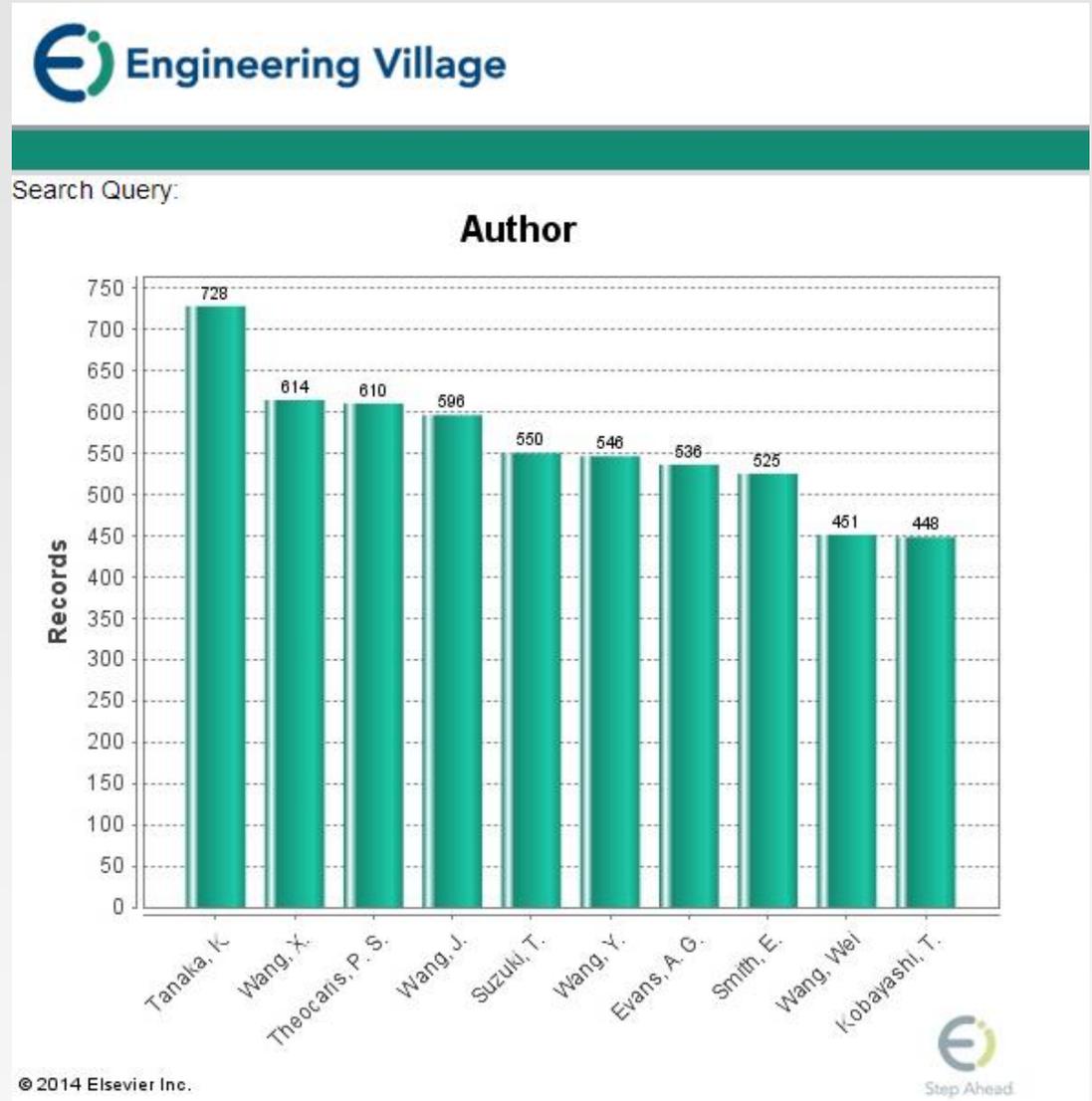
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- A periodic DFT study of adsorption of water on sodium-montmorillonite (001) basal and (010) edge surface**
Peng, Chenliang (Department of Materials Science and Engineering, Anhui University of Science and Technology, Huainan; 232001, China); Min, Fanfei; Liu, Lingyun; Chen, Jun Source: *Applied Surface Science*, v 387, p 308-316, November 30, 2016, p 308-316, 9 p. Database: Compendex

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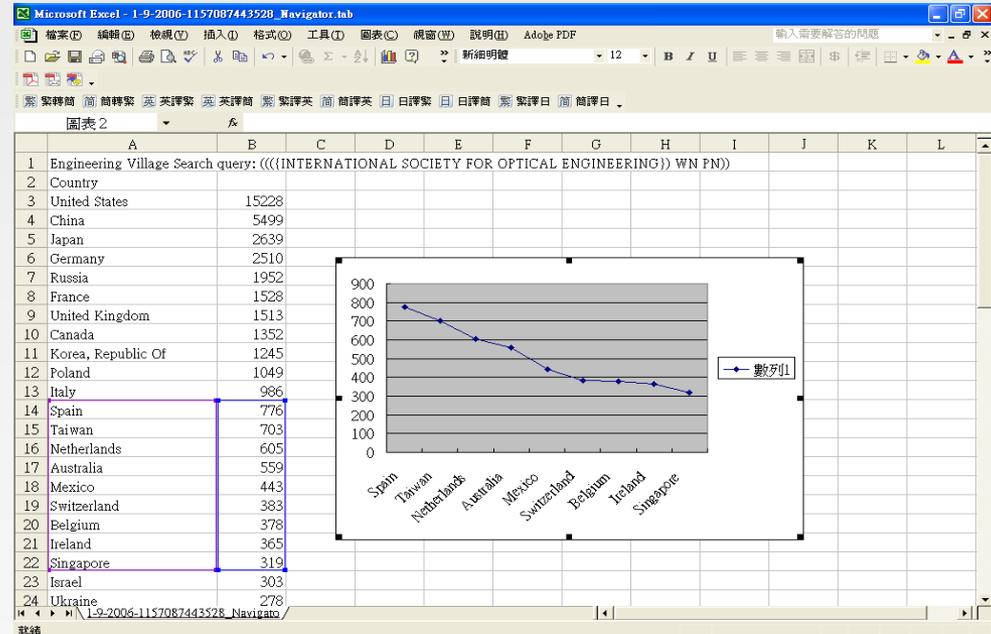
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 21. **Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom**

 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](#)
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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.

Cavity growth in a triblock copolymer polymer gel
(2012) Soft Matter

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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, 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 and 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: 0022-14697645; 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**

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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

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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
(2012) *Soft Matter*

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Abstract: **Stress** singularities usually occur at vertexes in three-dimensional joints. Cracks frequently initiate at the vertex, and the joint fails under

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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

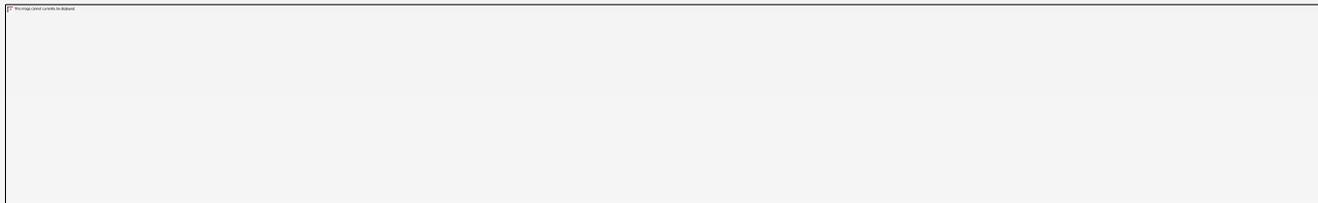
Source: *Soft Matter*, v 7, n 18, p 8409-8418, September 21, 2011

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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
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 r, M.; Ballauff, M.; Voigtmann, Th.
 Colloidal glasses
 Physical Review Letters

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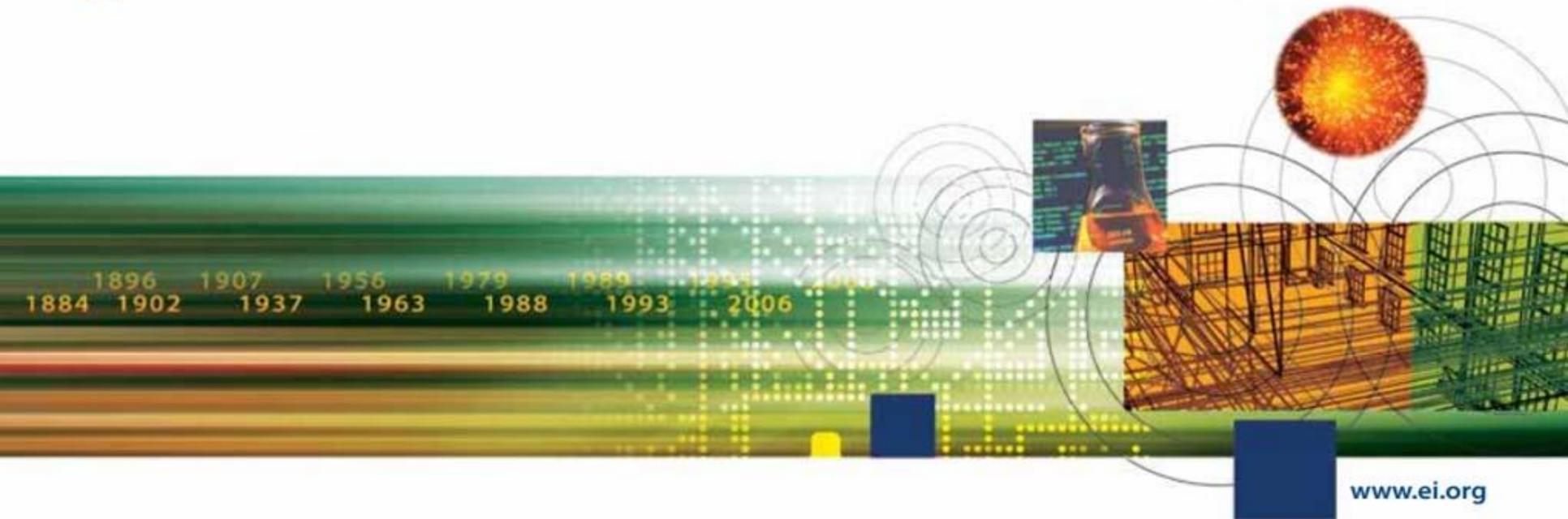
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c = Compendex, i = Inspec, n = NTIS, pc = PaperChem, cm = Chimica, cb = CBNB, ep = EnCompassLIT, g = GEOBASE, f = GeoRef, u = US Patents, e = EP Patents,

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)	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
		Patent application number (en, u, e)	PAM

Browse Indexes

- Author/Inventor
- Affiliation/Assignee
- Controlled term
- Language
- Source title
- Document type
- Publisher
- Treatment type
- Country
- Discipline
- IPC Code

Latest Resources

- [Learn & Support](#)
- [Training](#)
- [Product Releases](#)

Help us to improve Engineering Village

More Sources [Show](#)

Interactive Equations and Tools Powered by Knovel

通配符

- ***右截词-命中检索词起始部分相同的记录**
- **Learn* 命中learn, learns, learning, learned, learnt, learner(s), learner's, learnability, learnable**
- **? 有限截词-问号个数代表字符数**
- **如distance? 可检出复数; Wom?n 命中woman, women**
- **\$词根运算符等价于Auto stemming功能**
- **\$ manage 命中 manage, managing, managed, manager, managers, management, managements。**

位置算符

- 词组检索“ ” 或{ }- 词间不能插词，词序不能颠倒
- “**International Space Station**”命中包含有词组“**International Space Station**”的记录
- 词组检索不能使用通配符与字根符

- **Onear/n-** 两个词之间可插入0—n个词，词序不能颠倒,如
- **Distance Onear/3 learning**

- **Near/n-** 两个词之间可插入0—n个词，词序可以颠倒，如
- **Distance near/3 learning**

EI可用的检索字段及代码从“Expert Search”页面上查

SEARCH CODES

Codes displayed will depend on your current database selection.

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

查收-人名检索

- ◆EI数据库的作者有九种写法：以**娃哈哈**(Wa Haha)老师为例 Wa haha or Wa ha-ha or Wa hh or Wa h-h or Wa h or haha wa or ha-ha wa or haha w or ha-ha w
- ◆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 **Wa H* or haha w* or ha-ha w ***
- ◆利用作者单位提高查准率
**((Wa H*) or (haha w*) or (ha-ha w *)) wn au
AND (XXX onear univ*) wn af)**
- ◆用作者查不到某篇文章时，可用篇名试试

查收-机构检索

- 推荐检索式：
- 以清华大学为例
- (tsinghua onear univ* and (beijing or 100084 or china)) wn af and 2015 wn yr
- 由refine results — author affiliation可知，均为清华大学。
- (此检索式只供参考，在借鉴使用时一定要考虑自身情况优化)

提高主题检索效率的方法（准且全）

- 从文中选词检索易漏检或误检
 - 一个概念有多种表示—**导致漏检** (检索时需要收集同义词, 费时麻烦且易漏检)
 - 一个词可以表示多个概念—**导致误检** (cell 细胞、电池 Cell wn ti, 检出的文献中有solar cell, tumor cells等)
- **EI的解决方案**:对文献进行主题标引
 - 做到标**引词与概念一一对应**,
 - 标引词来源于词表, 故EI的标引词也称为受控词

叙词表的作用

- 叙词表是由专业的规范词组成，它可以将同一主题不同表述的词，按主题内容规范在标准的专业词下，避免了由于词汇书写不同造成漏检，或词义概念混淆导致错检的问题。
- 用户利用叙词表可从主题角度检索文献，进而提高文献的查准率。
- 利用叙词表还可以从主题概念的角度扩展或缩小检索范围。

叙词表概述

- **控制词汇**
 - 不使用其他的术语
- **每年更新**
 - 词汇工作组和索引工作人员决定变化
 - 叙词表新版本
- **具体范围标记**
 - 受控词的信息

叙词表概述

- **分面层次**
 - 分面: 按类别分组
 - 层次: 上位类/下位类
- **自动显示的款目**
 - 有信心检索专属性的任一层次
- **相互参照**
 - 引导用户使用有效款目

层次

叙词表层次

设备*

反应器

炼焦器

裂解器

催化裂解器

裂解炉

氢化裂解器

蒸汽裂解器

微分反应器

发酵器

细颈瓶

流反应器

气化炉

液态排渣气化炉

甲烷转化器

下雨固体反应器

裂化炉

如果在层次结构中的一个术语后面有一个*，该术语就不能被它下面的下位词自动显示出来。

EI的主题标引字段: Ei main heading/controlled term/Uncontrolled term

- 采用受控词标引—提高主题检索效率
标引词取自叙词表
相应字段
Ei controlled term, CV
Ei main heading, MH
- 非受控词标引字段—解决词表更新滞后的问题
标引词直接取自文中词, 如关键词及摘要
相应的字段: Uncontrolled term, FL

The screenshot shows a record from Compendex for the article 'Water quality monitoring of water resources conservation area in city of Shanghai based on remote sensing'. The page includes tabs for 'Abstract' and 'Detailed', a 'Highlight search terms' checkbox, and a 'Record 1 from Compendex for: ((water resources--conservation) WN All fields), 1884-2016' header. The main content area contains the title, authors (Yanling, Qiu¹, Hongen, Zhang¹, Xiaohua, Tong², Ling, Chen³, Jianfu, Zhao³), source information (International Geoscience and Remote Sensing Symposium, IGARSS, 2006), author affiliations, an abstract, and various indexing terms. The abstract discusses the use of remote sensing for water quality monitoring in Shanghai. The indexing terms include 'Remote sensing' as the main heading, and 'Condition monitoring', 'Cost effectiveness', 'Water conservation', and 'Water quality' as controlled terms. Uncontrolled terms include 'Inversion model', 'TM image', and 'Water quality monitoring'. Classification codes and treatment information are also provided.

Abstract | **Detailed** Highlight search terms

Record 1 from Compendex for: ((water resources--conservation) WN All fields), 1884-2016

Check record to add to Selected Records

Water quality monitoring of water resources conservation area in city of Shanghai based on remote sensing

Yanling, Qiu¹ Hongen, Zhang¹; Xiaohua, Tong²; Ling, Chen³; Jianfu, Zhao³

Source: International Geoscience and Remote Sensing Symposium (IGARSS), p 3434-3437, 2006; 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS; ISBN-10: 0780395107, ISBN-13: 9780780395107; DOI: 10.1109/IGARSS.2006.881; Article number: 4242029; Conference: 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, July 31, 2006 - August 4, 2006; Sponsor: IEEE Geoscience and Remote Sensing Society; Canadian Remote Sensing Society; National Aeronautics and Space Administration, NASA; National Oceanic and Atmospheric Administration; Office of Naval Research; Publisher: Institute of Electrical and Electronics Engineers Inc.

Author affiliations:

¹ Key Laboratory of Yangtze Aquatic Environment, Tongji University, Ministry of Education, Shanghai, China

² Department of Survey and Geo-Informatics, Tongji University, Shanghai, China

³ State Key Laboratory of Pollution Control and Resource Reuse, College of Environmental Science and Engineering, Tongji University, Shanghai, China

Abstract:

Water pollution of upstream Huangpu River is regarded as one of the most significant environmental problems in Shanghai. As a necessary complement to conventional water quality monitoring methods, remote sensing based water monitoring has the advantages of large scale, speediness, cost-effective and so on. In this study, LANDSAT 5 Thematic Mapper (TM) image was selected as the satellite data source. Inversion models of representative water quality parameters in upstream Huangpu River based on remote sensing were established. The universality of these models was verified. The average fitting deviation between the estimated and real value of dissolved oxygen (DO) and chemical oxygen demand (COD) were less than 19% and 17%, indicating the inversion models could meet the needs of remote sensing based water quality monitoring. (13 refs)

Main heading: Remote sensing

Controlled terms: Condition monitoring - Cost effectiveness - Water conservation - Water quality

Uncontrolled terms: Inversion model - TM image - Water quality monitoring

Classification Code: 444 Water Resources - 445.2 Water Analysis - 731.1 Control Systems - 911.2 Industrial Economics

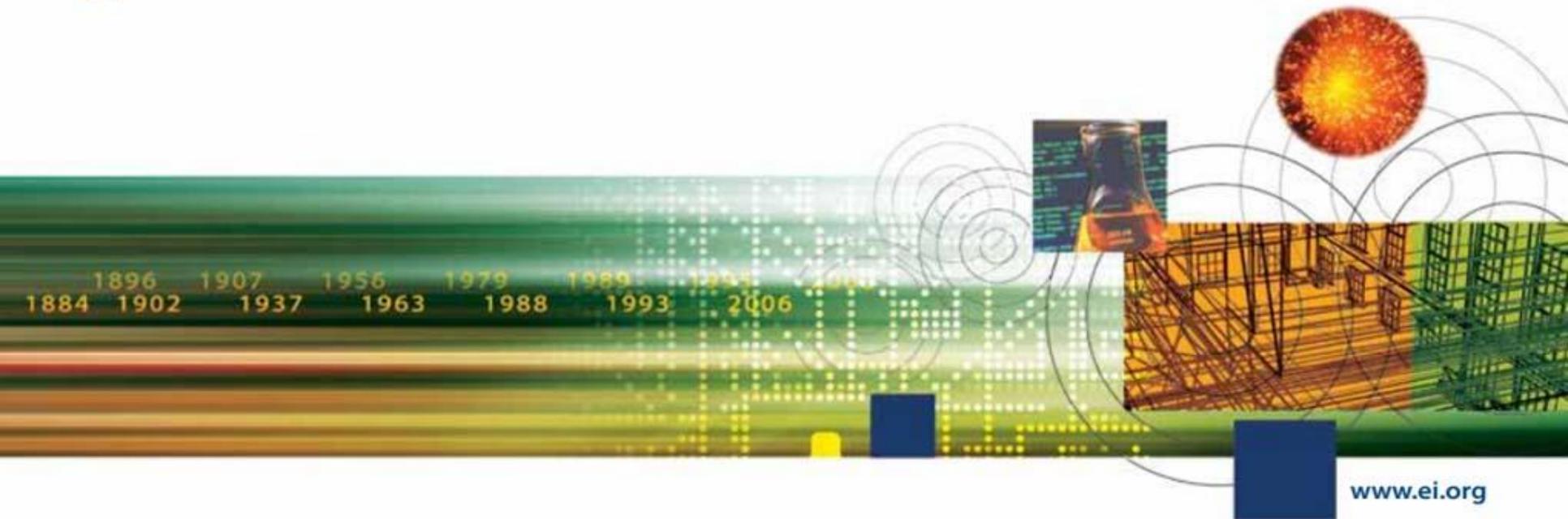
Treatment: Theoretical (THR) - Experimental (EXP)

Database: Compendex

Full-text and Local Holdings Links

[Check Local Full Text](#)

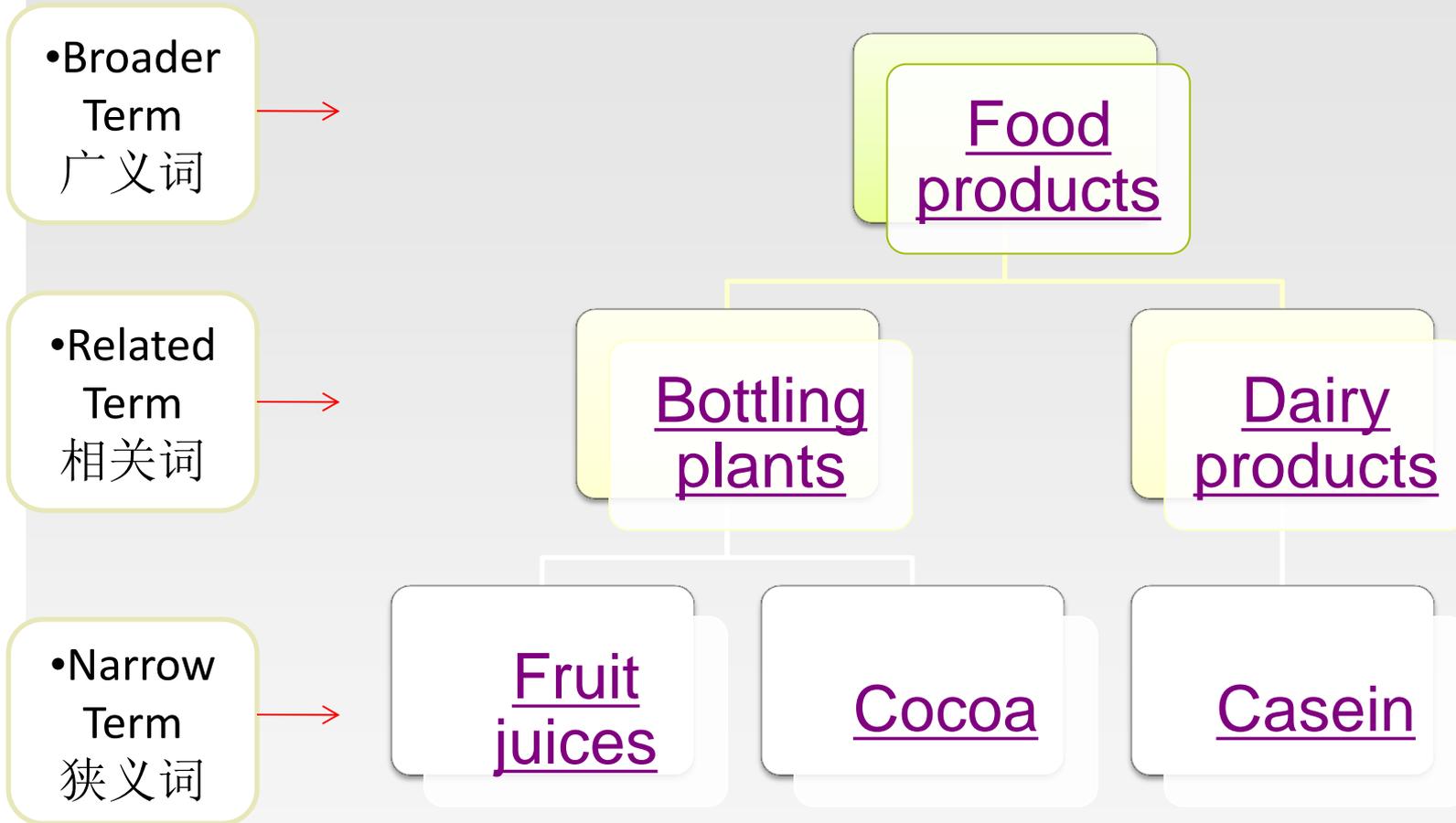
[Full Text](#)



Thesaurus Search – 词库检索



THESAURUS词库-Beverages (饮料)

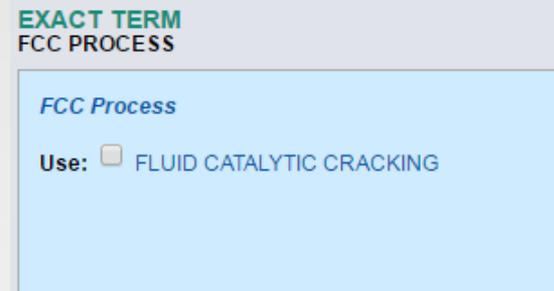


相互参照

- FCC PROCESS 流化催化裂化过程

use: FLUID CATALYTIC CRACKING 流化催化裂化

use:... 表示直接参照



- AUTOIGNITION 自燃

SEE: SURFACE IGNITION 表面着火

See:... 列出可参考的有效条目



实例一用叙词表选词进行主题检索

- 用Thesaurus方式检索有关气候学中气候变化的温室效应
- 构设计方面的文献。
- 从课题名称中提取概念
 - 气候学 Climatology
 - 气候变化 Climate Change
 - 温室效应 Greenhouse effect
- 检索式：
- ((({Climatology} WN CV) AND ({Climate change} WN CV) AND ({Greenhouse effect} WN CV)))

用EI叙词表选词

点击“Thesaurus”，打开叙词表，输入关键词，点击“submit”，系统显示与之相应的叙词，勾选后，系统将所选的叙词调入检索框。选完词后，点击“search”检索

Quick Search | Expert Search | **Thesaurus Search** | Search History (1)

DATABASE: Compendex Inspec GeoRef GEOBASE EnCompass

SEARCH FOR: Climate Change

Search Exact Term Browse

Submit

EXACT TERM
Climate Change

Climate change

Broader Terms: Climatology

Related Terms: Air pollution, Atmospheric composition, Atmospheric temperature, Climate models, Greenhouse gases

Narrower Term: Global warming, Greenhouse effect

LIMIT TO: All document types, All treatment types, All Languages, 1884 TO 2016, 1 Updates

SEARCH BOX: Climate change, Climatology, Greenhouse effect

COMBINE SEARCH WITH: AND OR

SORT BY: Relevance Date (Newest)

Remove selected terms | Search | Reset

EI叙词表(Thesaurus)

- EI标引用词
- 表中的词已规范化, 故也称为受控词(**controlled term**)
- 词表由字顺表和等级结构表组成。以下显示的为等级结构表

The screenshot displays the 'Thesaurus Search' interface. At the top, there are tabs for 'Quick Search', 'Expert Search', and 'Thesaurus Search', along with a 'Search History (1)' link. Below the tabs, the 'DATABASE' section includes radio buttons for 'Compendex', 'Inspec', 'GeoRef', 'GEOBASE', and 'EnCompass'. The 'SEARCH FOR' section contains a text input field with 'Climate Change' and a 'Submit' button. Below the search input, there are radio buttons for 'Search', 'Exact Term', and 'Browse'. The 'EXACT TERM' section shows 'Climate Change' with a dropdown menu icon. The main results area is a light blue box containing three columns of terms, each with a red box around its header: 'Broader Terms' (with a checked checkbox for 'Climate change' and a sub-item 'Climatology'), 'Related Terms' (with unchecked checkboxes for 'Air pollution', 'Atmospheric composition', 'Atmospheric temperature', 'Climate models', and 'Greenhouse gases'), and 'Narrower Term' (with unchecked checkboxes for 'Global warming' and 'Greenhouse effect').

1896 1907 1956 1979 1989 1995 2000
1884 1902 1937 1963 1988 1993 2006

www.ei.org

个人化功能



My Profile

- 功能
 - 储存检索策略 (125个)
 - 建立E-mail Alert (25篇)
 - 建立个人数据夹
 - 3个资料夹
 - 每个数据夹可储存50篇记录
 - 修改个人账号信息



My Setting List

Search | Selected records | **Settings** | Tags & Groups | Bulletins | Support ▾ | Ask an expert

Help
Contact
What's New

My Settings

- [View/Update Saved Searches & Alerts](#)
Manage your saved searches and email alerts.
- [View/Update Folders](#)
View, rename or delete your folders.
- [Modify personal details & preferences](#)
Change or add information to your personal details entered during registration.
- [Change Password](#)
Change the password you use to login.

View/Update Folders

 semiconductor	 View Folder	 Rename Folder	 Delete Folder
 Coatings	 View Folder	 Rename Folder	 Delete Folder
 climate changes	 View Folder	 Rename Folder	 Delete Folder

My Saved Search & Alerts

Search | Selected records | **Settings** | Tags & Groups | Bulletins

Support ▾ Ask an expert

Help
Contact
What's New

View/Update Saved Searches & Alerts

My Saved Searches

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 {{{eee} 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"/>

[Delete All](#)

[Save Email Alerts](#)

建立Email 新知通报
(先勾选再储存)

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



在线询问

可在线询问EV的两种专家
EV产品专员
图书馆员

Settings | Tags & Groups | Bulletins

Support | [Ask an expert](#)

Ask a Product Specialist



Our Product Specialist can help you:

- Learn to use EV features effectively
- Analyze results
- Register for online seminars or trainings

Ask a Librarian



A librarian can help you:

- Formulate searches
- Locate a content source (book, journal, conference paper, etc.)
- Find additional resources

相关网站资源

- 中文使用指南, 培训课件和Webex视频培训: 爱思唯尔 :
<http://china.elsevier.com/elsevierdnn/ch/%E8%AE%B2%E5%B A%A7%E4%B8%8E%E6%B4%BB%E5%8A%A8/%E4%BA%A7 %E5%93%81%E8%A7%A3%E5%86%B3%E6%96%B9%E6%A1 %88%E5%9C%A8%E7%BA%BF%E5%9F%B9%E8%AE%AD/ta bid/2698/Default.aspx>
- 英文产品相关信息: www.elsevier.com/engineering-village
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- Ei最新刊源信息公布链接为
<https://www.elsevier.com/solutions/engineering-village/content>

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2016年更新

- 拨款资助 (Grant Funding): 提供拨款资助的信息。
- Knovel 检索 (Knovel Content): 加入Knovel数据库的辅助工具和参考工具书的引文信息
- 快速开始向导 (Getting Started tutorials)
- 数据检索 (Numeric search Filte): 从文摘中提取数值信息并提供数值检索新功能。

拨款资助：精炼检索，快速检索和专家检索中的体现

Publisher

Funding sponsor

- National Natural Science Foundation of China (20404)
- National Science Foundation (3977)
- Engineering and Physical Sciences Research Council (1579)
- Natural Sciences and Engineering Research Council of Canada (1558)
- National Research Foundation of Korea (1249)

[View more](#)

Detailed |

6. **Providing syste**
 Knox, K. (Departme
 S.; Akinci, B. **Sourc**
Engineering - Proc
Database: Compe
Detailed |

7. **Sustainable en**
 McCormick, Mary (;
 Christopher W.; Pat
Database: Compe
Detailed |

8. **Framework of k**
 Balogh, Zsuzsa E.

- Inspec
- CBNB
- GeoRef
- NTIS
- EnCompassLIT
- US Patents
- PaperChem
- EnCompassPAT
- EP Patents

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

Funding number

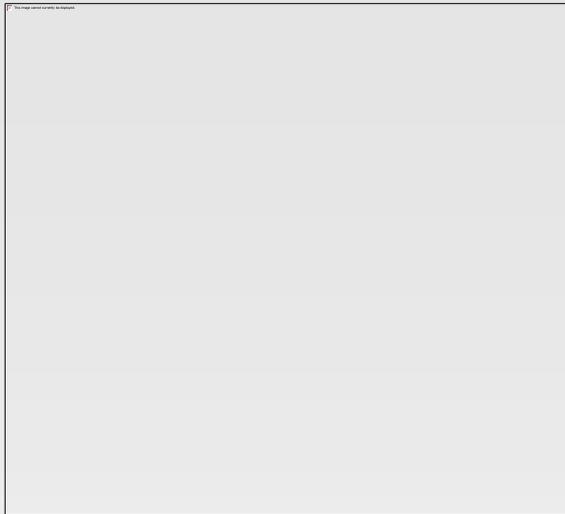
Funding acronym

Funding sponsor

SEARCH CODES Codes displayed will depend on your current database selection.

AU	= Author/Inventor (c)	PM	= Patent number (c)
CL	= Classification code (c)	YR	= Publication year (c)
CN	= CODEN (c)	PN	= Publisher (c)
CC	= Conference code (c)	ST	= Source title (c)
CF	= Conference information (c)	KY	= Subject/Title/Abstract (c)
CV	= Controlled term/Subject Area (c)	TI	= Title (c)
PU	= Country of application (c)	TR	= Treatment type (c)
CO	= Country of origin (c)	FL	= Uncontrolled term (c)
DOI	= DOI (c)	VO	= Volume (c)
DT	= Document type (c)	GFN	= Funding number (c)
MH	= Ei main heading (c)	GFA	= Funding acronym (c)
BN	= ISBN (c)	GAG	= Funding sponsor (c)
SN	= ISSN (c)		

Knovel 检索: 工具快速链接和Knovel摘要检索



Quick Search
Expert Search
Thesaurus Search
Search History (0)

[Databases](#) | [Search Tips](#)

DATABASE

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

SEARCH FOR

<input type="text"/>	in	<input type="text" value="All fields"/>	<input type="text" value="All fields"/>	<input type="text" value="All fields"/>
<input type="text" value="AND"/> ▾		<input type="text"/>	<input type="text" value="All fields"/>	<input type="text" value="All fields"/>
<input type="text" value="AND"/> ▾		<input type="text"/>	<input type="text" value="All fields"/>	<input type="text" value="All fields"/>

Turn Off AutoSuggest ⓘ |
 🔍 Add search field |
 Search

ADVANCED OPTIONS

快速开始向导

The screenshot shows the Engineering Village search interface. At the top right, there are links for 'Register', 'Login', and 'End Session'. Below the header is a navigation bar with 'Search', 'Selected records', 'Settings', 'Tags & Groups', and 'Bulletins'. On the right side of this bar are 'Support' and 'Ask an expert'. The main content area is divided into several sections:

- Quick Search:** Includes tabs for 'Quick Search', 'Expert Search', and 'Thesaurus Search'. It features a 'DATABASE' section with checkboxes for various databases (All, Compendex, Chimica, GEOBASE, Knovel, Inspec, CBNB, GeoRef, NTIS, EnCompassLIT, US Patents, PaperChem, EnCompassPAT, EP Patents). Below this is a 'SEARCH FOR' section with three input fields and dropdown menus for 'in All fields'. There are also 'AND' dropdowns and a 'Search' button.
- Browse Indexes:** A section with a dropdown arrow and the text 'Select a different database combination to use this feature.'
- Latest Resources:** A section with a dropdown arrow.
- More Sources:** A section with a dropdown arrow.
- Interactive Equations and Tools:** A section with a dropdown arrow and the text 'Powered by Knovel'.

A red arrow points from the 'Getting Started' notification bar on the right towards the 'Interactive Equations and Tools' section. The notification bar itself is a vertical orange bar with the text 'Getting Started' written vertically.

This is a close-up of the 'Getting Started' notification box. It has a title bar with 'Getting Started' and a close button (X). The box contains a list of items with checkboxes:

- Quick Search
- Results Page
- Record Page
- Alerts
- Set up an Alert i

At the bottom of the box, there is a link: 'Opt out of Getting Started'.

数据检索

Comparison of geotechnical properties from large-diameter long cores and borings in deep water Gulf of Mexico

Authors: Young, A.G. (1); Honganen, C.D. (1); Silva, A.J. (1); Bryant, W.R. (1)
Author affiliation: (1) Marsco Inc.
Corresponding author: Young, A.G.
Source title: Proceedings of the Annual Offshore Technology Conference
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Abstract: Large-diameter long piston cores (Jumbo Piston Corer, JPC) and Large-diameter Gravity Cores (LGC) were taken immediately adjacent to previously drilled geotechnical borings at three floating platform sites: Auger, Jolliet, and Marlin. This task was included as part of a more comprehensive NSF program on seabed processes in the deep water Gulf of Mexico. Sediment properties measured included bulk density, magnetic susceptibility, compression wave velocity, vane shear strength, and unconsolidated-undrained triaxial strength. A comprehensive geotechnical-testing program confirms the samples are high quality and shear strengths within the 63-ft core depth were comparable to the results of tests on the geotechnical borings. The exception occurred when gassy deposits were encountered. The use of the LGC and Multi-Sensor Core Logger (MSCL) in conjunction with the JPC proved to be valuable in assessing the quality and continuity of the piston cores. At the Auger and Marlin sites, there was good agreement between the sediment properties obtained from the borings and cores over the cored depth of 63 ft. At the Jolliet site, the values of strength obtained from the core in the upper 10 to 20-ft. were considerably higher than those obtained from the nearby boring. With modifications, the long coring system can be extended to take 100-ft samples. The use of large-diameter piston and gravity cores can provide an economical alternative to traditional borings for the design of shallow foundations for subsea completions, pipelines, suction caissons, and identification of geohazards.

Numerical data indexing: Size 1.92e+01m, Size 3.05e+00m to 6.10e+00m, Size 3.05e+01m

Database: Compendex

Data Provider: Engineering Village

Numeric Filter ⓘ ⌵

Size ▾

Foot (ft) ▾

Equals ▾ 63

Continue

Greater than

Greater or equal ⓘ

Less than

Less or equal

Range

⌵

Nanometer (nm) 📊 📄 ⌵

Picometer (pm) 📊 📄 ⌵

Yard (yd) 📊 📄 ⌵

RotationalSpeed 📊 📄 ⌵

Size 📊 📄 ⌵

Specific Energy 📊 📄 ⌵

Specific Surface Area 📊 📄 ⌵

Surface Charge Density 📊 📄 ⌵

Surface Density 📊 📄 ⌵

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