



ELSEVIER

Engineering Village- 开展工程领域研究的首选方案 (EI Compendex)



EI数据库简介

信息在工程领域的使用

科研

合作 & 社交

整合 & 分析



检索、发现、阅读、评审

实验

- 什么是最新的趋势和技术？
- 研究之前有做过吗？
- 我有哪些新的研究机会？
- 我的同行在做什么？
- 我如何写一个成功地投资提案？
- 我如何监控我的竞争对手？
- 如何找到我的合作伙伴？
- 如何快速获取我不熟悉领域的背景知识？

教学

授课&布置作业

批改作业和评分



课程设计

分享支持工具

- 我如何让学生参与/感兴趣？
- 我如何确保学生使用可信的信息来源？
- 我如何教导学生写一篇成功的研究论文？
- 我如何教导学生解决实际的开放式问题？
- 我如何为我的学生准备工作场所？

Engineering Village™ – 深入工程研究的首选工具

掌控您的研究工作

找到所需的



确定研究的独特性



产生想法



保持与时俱进



了解新的学科领域



找到同行和合作者



追踪竞争工作

避免不想要的



质量不可靠
缺乏准确性、可信性



错过内容



重复工作



读到不相关的内容



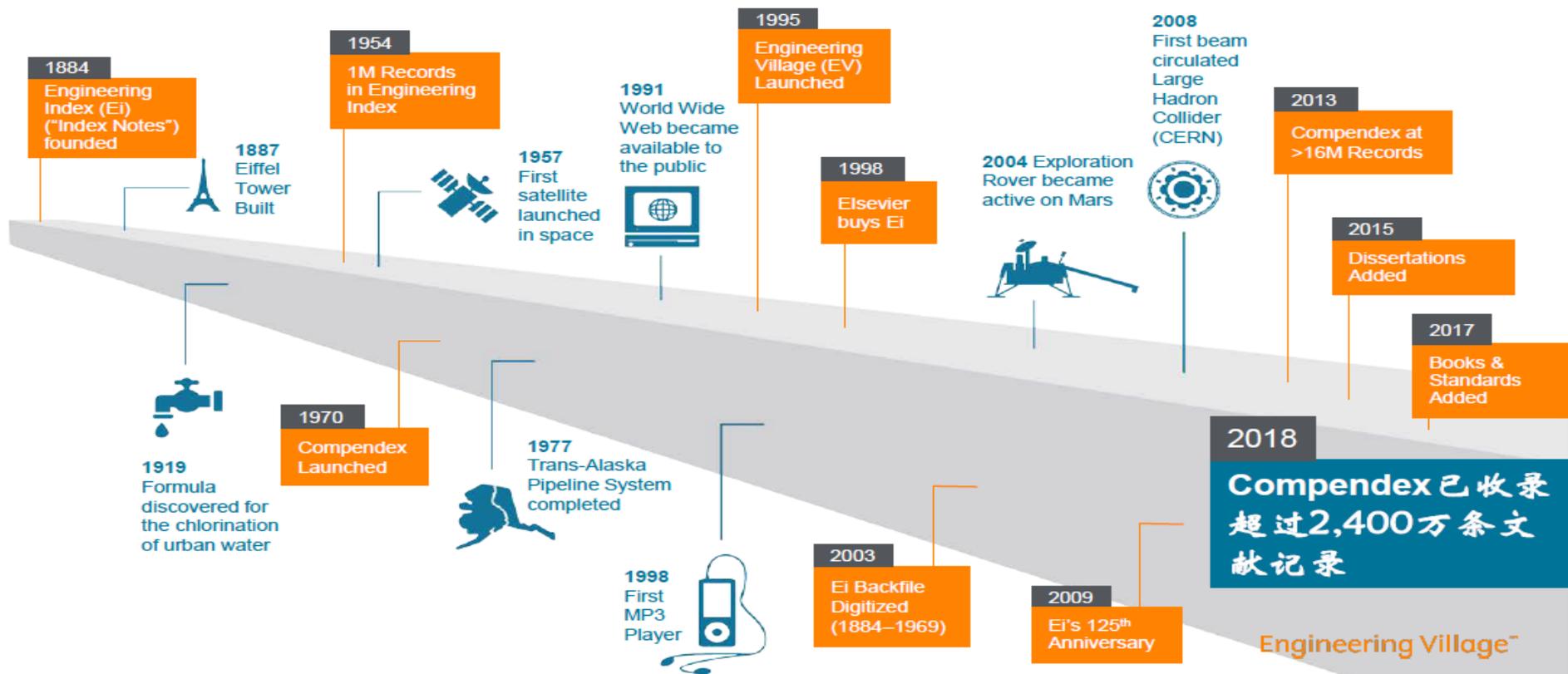
在多个系统中
重复搜索

以最少的时间和劳力取得最大的成果

Ei & Engineering Village 的里程碑

Ei 和 Engineering Village 是已确立声誉的品牌

收录工程文献已有134年



Engineering Village™

- 拥有13个专注专业文摘索引 (A&I) 数据库的平台



20所全球顶尖大学
100% 使用
(US News & World Report)

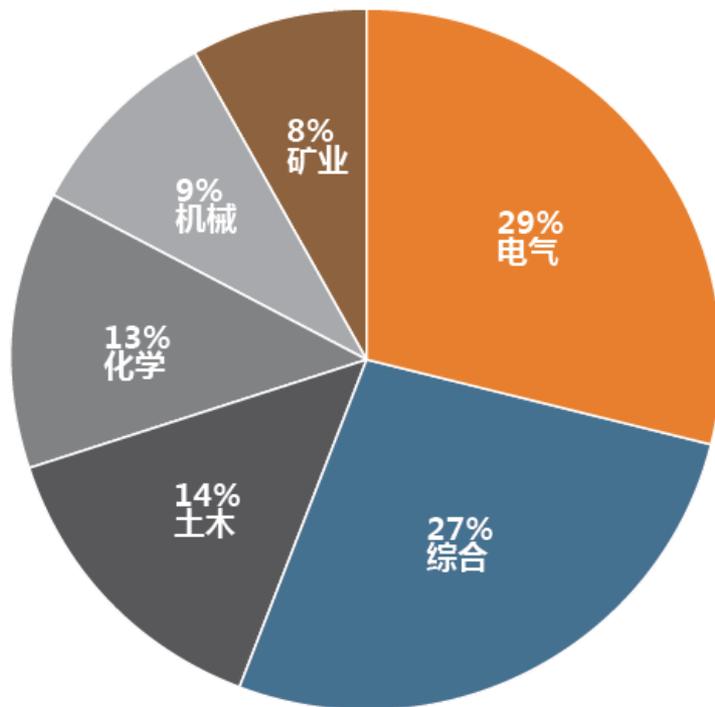


Engineering Village™

Ei Compendex工程学科领域

Ei Compendex相关领域

- 应用物理学，包括光学
- 生物工程与生物技术
- 食品科学与技术
- 材料科学
- 仪器仪表，包括医疗器械
- 纳米技术



Ei Compendex

是世界上涵盖面最广最完整的工程文献数据库



~26.1M条文献记录

并正在持续增长

>1.78M条记录
来自Ei Backfile

1884年至1969年

每年增加

1.3M条记录

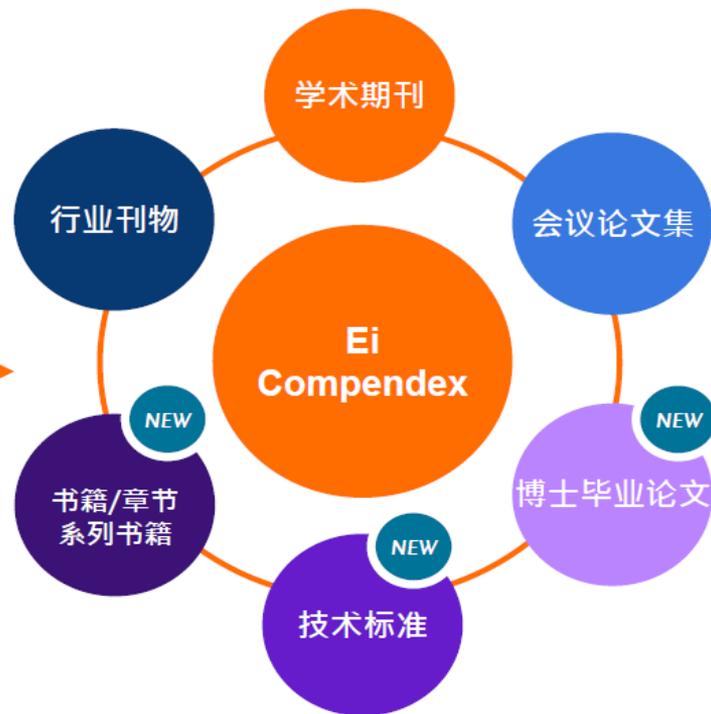
1970年至今



通过DOIs实现全文链接

涵盖**190个**工程相关领域

来自**78个国家**的**2,291个**出版社



在工科文献调研中的应用EI数据库

一、文献收集重点-文献调研阶段

大致确定课题方向后泛调研

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

确定具体研究题目后的精调研

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）



二、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 shows the Engineering Village search interface. At the top left is the logo "Engineering Village™" with the tagline "The first choice for serious engineering research." To the right are navigation links for "Search", "Alerts 0", and "Selected records 0". Below this is a "Quick search" section with a search bar containing the text "Search for... e.g. transcription factors AND jon smith". Below the search bar are various filters: "Databases", "Date", "Document type", "Language", "Treatment" (highlighted with a red box), "Discipline", "Sort by", "Autostemming", and "Browse indexes". Under the "Treatment" filter, there are several radio button options: "All Treatments", "Experimental", "Management aspects", "Applications", "General review", "Numerical", "Biographical", "Historical", "Theoretical", "Economic", and "Literature review" (highlighted with a red box). Below the search interface are two orange callout boxes. The left one is labeled "General Review" and "一般性综述". The right one is labeled "Literature Review" and "文献综述".

三、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



Search Alerts Selected records

Quick search

Search in: All fields for Search for... e.g. transcription factors AND jon smith

Databases Date Document type Language Treatment Discipline Sort by Autostemming Browse index

- All Document types
- Conference article
- Patents (before 1970)
- Article in Press
- Conference proceeding
- Report chapter
- Book
- Dissertation
- Report review
- Book ch...
- Journal article

ProQuest Dissertation
学位论文

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Accessibility Statement
Content Available
Who uses EV?
Privacy matters

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四、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 shows the Engineering Village search interface. The top navigation bar includes the logo, search options, and user information. The main content area displays search results with a 'Refine results' sidebar on the left. Two callout boxes highlight the 'Author' and 'Author affiliation' sections in the sidebar. The 'Author' section lists names and their respective document counts, while the 'Author affiliation' section lists institutions and their document counts. The main results list includes titles, sources, and full-text links.

Author
作者信息

Author Affiliation
机构信息

Author	Count
Wang, Wei	1194
Zhang, Wei	1139
Li, Wei	1112
Wang, Jun	883
Wang, Yan	806

Author affiliation	Count
University Of Chinese Academy Of Sciences	3096
U.S. Geological Survey	2262
State Key Laboratory Of Water Resources And Hydropower Engineering Science, Wuhan University	2049
Csiro Land And Water	1818
State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology	1705

1. **Water demand forecasting by trend and harmonic analysis**
... Source: *Archives of Civil and Mechanical Engineering*, v 18, n 1, p 140-148, January 2018

2. **Temperature from air temperature: Using least square method**
... Source: *Smart Information Systems and Technologies*, v 81, p 264-271, 2018, *Advances in Intelligent Information Hiding and Multimedia Signal Processing - Proceedings of the 13th International Conference on Intelligent Information Hiding and Multimedia Signal Processing*

3. **... and Pharmaceutical Engineering, New Jersey Institute of Technology, Newark; NJ; 07102, United States; Liu, Yin; Yao, Zhenhua;**
... Source: *Environmental Science and Engineering*, v 12, n 1, February 1, 2018

4. **Sustainable energy: Human factors in geothermal water resource management**
Tomaszewska, Barbara (AGH University of Science and Technology, Mickiewicza 30, Krakow; 30-059, Poland) Source: *Advances in Intelligent Systems and Computing*, v 599, p 60-71, 2018, *Advances in Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries - Proceedings of the AHFE 2017 International Conference on Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries, 2017*
Database: Compendex
Detailed Show preview Full text Check Local Full-text

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 I.; 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](#) | 

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; Miller, 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](#) | 

引文信息

文摘索引过程



Nickel-based HVOF coatings promoting high temperature corrosion resistance of biomass-fired power plant boilers

Maria Oksa*, Pertti Auerkari, Jorma Salonen, Tommi Varis

VTT Technical Research Centre of Finland, P.O. Box 1000, 02044 VTT Espoo, Finland

ARTICLE INFO

Article history:
Received 18 November 2013
Received in revised form 4 April 2014
Accepted 5 April 2014
Available online 3 May 2014

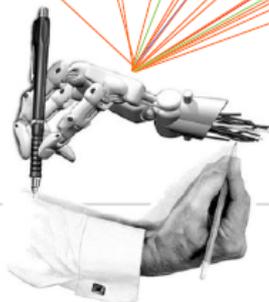
Keywords:

Thermal spray coating
HVOF
High temperature corrosion
Biomass combustion
Corrosion protection
Chlorine induced corrosion

ABSTRACT

There are over 1000 biomass boilers in Europe, and the number is increasing due to actions for reducing greenhouse gas emissions. Biomass boilers often experience strong corrosion due to harmful elements in fuels. In biomass burning, detrimental components include especially chlorine, potassium and heavy metals, which can cause chlorine-induced active oxidation or hot corrosion by molten phases even at fairly low temperatures. In order to increase the corrosion resistance of heat exchanger components, either more alloyed steels or protective coatings should be applied. High velocity oxy-fuel (HVOF) sprayed coatings may provide corrosion protection for low alloy tube materials. Three nickel based thermal spray coatings (Ni-32Cr-5Mo, Ni-22Cr-5Fe-3Mo-4Nb and Ni-30Cr-7Mo-2W) were tested for two years in a 20 MW circulating fluidized boiler (CFB), which had experienced severe corrosion and a tube failure. The coated tubes were installed to the cold and the hot economizer. After the exposure the coatings and the substrate materials were analyzed with SEM-EDX. The uncoated boiler tubes corroded strongly, whereas the thermal spray coatings exhibited excellent corrosion performance. This paper presents the case failure at one cost economizer, exposure conditions, the analysis of the coated and uncoated samples, and the corrosion mechanisms of the steel tubes.

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受控词及非受控词

分类码

会议信息

会议码

NEW

数值数据索引

NEW

化学索引

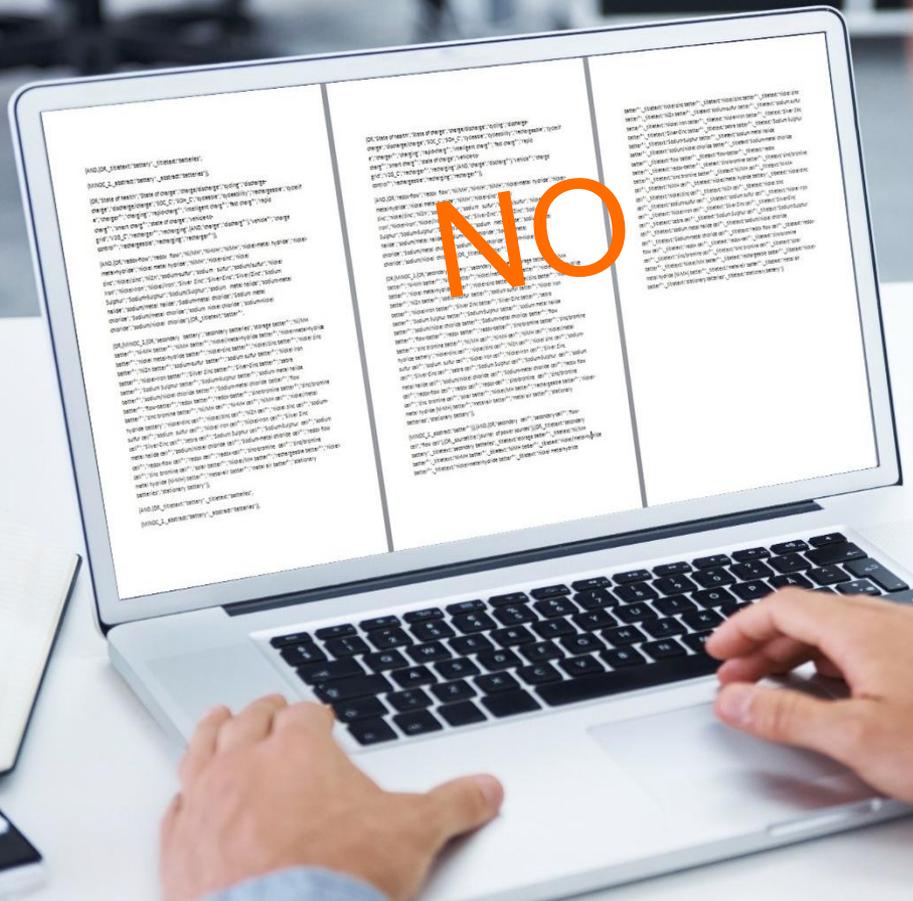
- 根据Ei工程索引叙词表进行索引 (始于1884年)
- 受控词汇由各个学科专家设计并维护
- 学科领域特制索引：
 - 实现高精确度及查全率
 - 节省时间
 - 解决拼写不同、缩写问题
 - 同义词及同形异义词均得到考虑
- 数值数据索引以及化学索引

索引实现精确搜索和检索



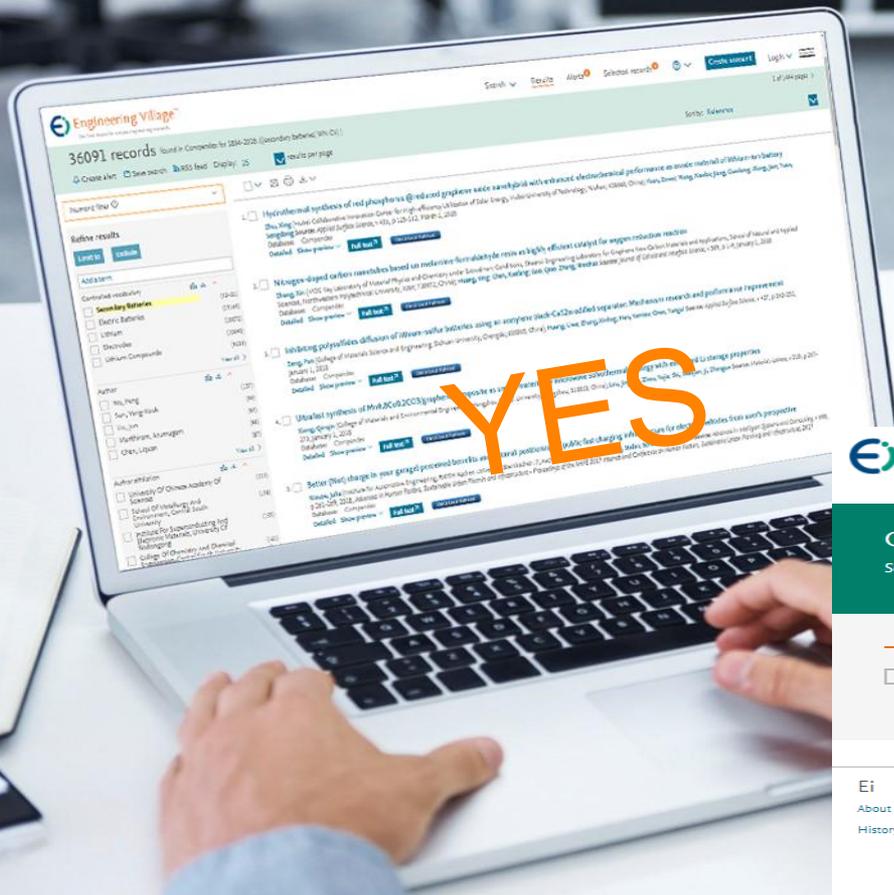
Engineer

如果没有Engineering Village上的Ei Compendex



工程师需要花上2页半长的
搜索查询才能相当于Ei
Compendex叙词表的贡献

而在Engineering Village上的Ei Compendex...



工程师只需通过叙词表中的
“Secondary batteries”在Engineering
Village上检索所需结果
(Ei Thesaurus)

YES

Engineering Village™
The first choice for serious engineering research.

Quick search

Search in: All fields for

rechal

Databases All Compendex GEOBASE Inspec GeoRef NTIS US Patents Paper EP Patents

Rechargeable batteries
Recommended terms: Secondary batteries
Recharging (underground waters)
Auto Suggest Powered by Ei Thesaurus

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叙词检索 Thesaurus Search: 迅速高效了解新领域



Thesaurus search:

Vocabulary search

for

rechargeable batteries

Database:



Compendex

Exact term results

rechargeable batteries > Rechargeable batteries > Secondary batteries

Secondary batteries

For: Electric batteries, Secondary*; Rechargeable batteries

Broader terms

Electric batteries

Related terms

- Battery electric vehicles
- Battery management systems
- Battery storage
- Charging (batteries)
- Charging time
- Electric bikes
- Electrolysis
- Fast charging (Batteries)
- Light electric vehicles
- Plug-in electric vehicles
- Plug-in hybrid vehicles
- Transition metal oxides

Narrower terms

- Automotive batteries
- Battery Pack
- Flow batteries
- Lead acid batteries
- Lithium batteries
- Lithium sulfur batteries
- Metal-air batteries
- Nickel cadmium batteries
- Nickel metal hydride batteries
- Sodium-ion batteries
- Solid-State Batteries

Date

Document type

Language

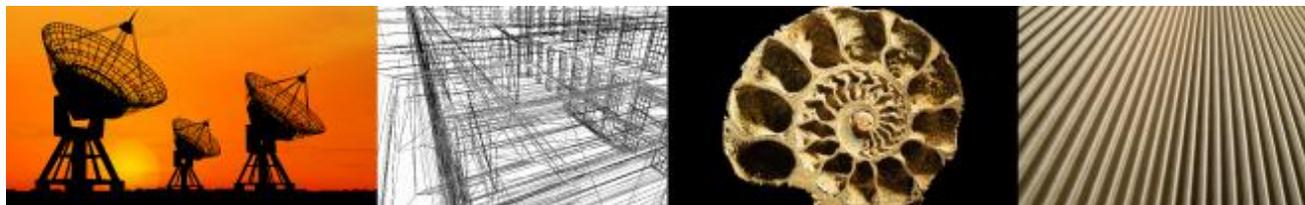
Discipline

Treatment

Sort by

EI数据库文献检索过程

检索文献



检索方式



Engineering Village

Search ^

Search history v ¹

Thesaurus search: Vocabulary search v for

Database: Compendex

Quick **快速检索**

Expert **专家检索**

Thesaurus **词库检索**

Engineering Research Profile

Exact term results ^

[rechargeable batteries](#) > [Rechargeable batteries](#) > [Secondary batteries](#)

Secondary batteries

For: [Electric batteries](#), [Secondary*](#); [Rechargeable batteries](#)

Broader terms

Electric batteries

Related terms

- Battery electric vehicles
- Battery management systems
- Battery storage
- Charging (batteries)
- Charging time
- Electric bikes
- Electrolysis

Narrower terms

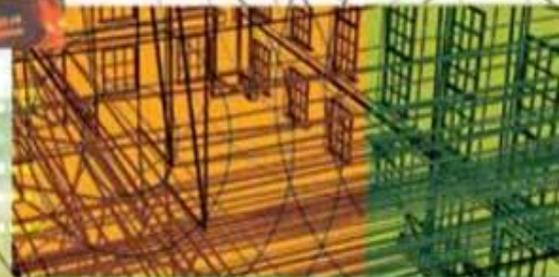
- Automotive batteries
- Battery Pack
- Flow batteries
- Lead acid batteries
- Lithium batteries
- Lithium sulfur batteries
- Metal-air batteries

Selected term(s) >



ELSEVIER

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



www.ei.org

页面介绍

功能列；快速检索、
专家检索、词库检索

限制条件、排
序选项

增加检索字段

Quick search

Search in: All fields ▼ for Q

Turn off AutoSuggest + Add search field Q Reset form

Databases ^ Date ▼ Document type ▼ Language ▼ Treatment ▼ Discipline ▼ Sort by ▼ Autostemming ▼ Browse indexes ▼

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

选择数据库

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以关键词“air pollution”检索：结果页面 - 1

Quick search

Search in:

All fields

air pollution

Databases Date Document type Language Treatment Discipline Sort by

123241 records for 1884-2018 ((air pollution) WN All fields)

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

1 of 4930 pages

Create alert Save search RSS feed Display: 25

results per page

Sort on: Relevance

Numeric filter

数据检索功能

Refine results

Limit to Exclude

Add a term

Controlled vocabulary

Author

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Publisher

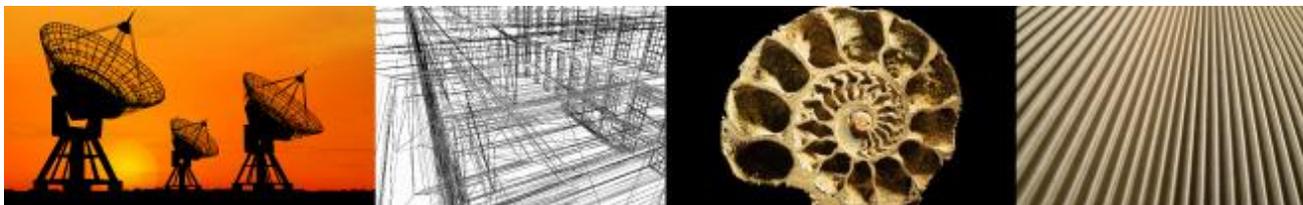
Funding sponsor

输入关键词开启
新的检索

- A review on air pollution monitoring and management using plants with special reference to foliar dust adsorption and physiological stress responses
Ram, S.S. (UGC Centre for Advanced Study in Botany, Department of Botany, University of Calicut, P.O. Box 11, Kalamassery, Calicut, Kerala, India); Sudhakar, M.S. Source: *Environmental Monitoring and Technology*, v 45, n 23, p 2489-2522, December 2, 2015
Database: Compendex Plus
Detailed Show preview
- Air pollution in China: Status and spatiotemporal variations
Song, Congbo (Center for Urban Transport Emission Research, State Environmental Protection Key Laboratory of Urban Ambient Air Particulate Matter Pollution Prevention and Control, College of Environmental Science and Engineering, Nankai University, Tianjin; 300071, China); Wu, Lin; Xie, Yaochen; He, Jianjun; Chen, Xi; Wang, Ting; Lin, Yingchao; Jin, Taosheng; Wang, Anxu; Liu, Yan; Dai, Qili; Liu, Baoshuang; Wang, Ya-nan; Mao, Hongjun Source: *Environmental Pollution*, v 227, p 334-347, 2017
Database: Compendex Plus
Detailed Show preview
- Modelling air pollution in Algiers
Ghazi, Sabri (Conférence sur les Sciences de l'Environnement, Université de Constantine 1, Algiers, Algeria); Dugdale, Julie; Khadir, Tarek Source: *Proceedings of the Annual Hawaii International Conference on System Sciences, HICSS 2016*
Database: Compendex Plus
Detailed Show preview
- Mapping indoor air pollution in a residential building in London, UK
Taylor, Jonathan (Department of Architecture, University of Cambridge, Cambridge, United Kingdom); Davies, David (Department of Architecture, University of Cambridge, Cambridge, United Kingdom); Britain: A modelling study
Bartlett School of Environment, Energy and Resources, Central House, 14 Upper Woburn Plc, London, United Kingdom; Das, Payel; Jones, Benjamin; Oikonomou, Eleni; Biddulph, Phillip Source: *Building and Environment*, v 99, p 1-12, 2016
Database: Compendex Plus
Detailed Show preview

-输出数-图表显示
数据
-打开/关闭限缩字段详细
信息
-可用拖曳的方式改变限
缩字段顺序

过滤和分析检索结果



过滤检索结果

Numeric filter ⁰ ▾

Refine results

Limit to Exclude

Add a term

Controlled vocabulary ▾

Author ▾

Author affiliation ▾

Classification code ▾

Country ▾

Document type ▾

Language ▾

Year ▾

Source title ▾

Publisher ▾

Funding sponsor ▾

Limit to Exclude

New search with facets Q

Knovel Search >

- Water demand forecasting by trend and harmonic**
Kozłowski, Edward (Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland); Beata; Kowalski, Dariusz; Mazurkiewicz, Dariusz Source: *Water Resources Management*, v 32, n 1, p 1-12, 2018, 12 p. Database: Compendex Plus
Detailed Show preview ▾ Full text [↗] Check Local Full-text
- Estimation of river water temperature from air temperature**
Ouyang, Heng (Department of Civil Engineering, Fujian University of Technology, Fuzhou, China); Wang, Xianqin Source: *Advances in Intelligent Information Hiding and Multimedia Signal Processing - Proceedings of the 13th International Conference on Intelligent Information Hiding and Multimedia Signal Processing*, v 81, p 264-271, 2018, 8 p. Database: Compendex Plus
Detailed Show preview ▾ Full text [↗] Check Local Full-text
- Catalytic reduction for water treatment**
Hu, Maocong (Department of Chemical, Biological and Pharmaceutical Engineering, New Jersey Institute of Technology, Newark, NJ; 07102, United States); Liu, Yin; Yao, Zhenhua; Ma, Liping; Wang, Xianqin Source: *Frontiers of Environmental Science and Engineering*, v 12, n 1, February 1, 2018, 12 p. Database: Compendex Plus
Detailed Show preview ▾ Full text [↗] Check Local Full-text
- Sustainable energy: Human factors in geothermal water resource management**
Tomaszewska, Barbara (AGH University of Science and Technology, Mickiewicza 30, Krakow; 30-059, Poland) Source: *Advances in Intelligent Systems and Computing*, v 599, p 60-71, 2018, 12 p. Database: Compendex Plus
Detailed Show preview ▾ Full text [↗] Check Local Full-text
- Evaluation and reutilization of water sludge from fresh water processing plant as a green clay substituent**
Ling, Yew Pei (School of Materials and Mineral Resources Engineering, Engineering Campus, Universiti Sains Malaysia, Nibong Tebal; Penang; 14300, Malaysia); Tham, Ren-Haw; Lim, Siew-Ming; Fahim, Muhammad; Ooi, Chee-Heong; Krishnan, Puspanathan; Matsumoto, Akihiko; Yeoh, Fei-Yee Source: *Applied Clay Science*, v 143, p 300-306, July 1, 2017, 7 p. Database: Compendex Plus
Detailed Show preview ▾ Full text [↗] Check Local Full-text

•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

控制词汇

Controlled vocabulary		
<input type="checkbox"/> Water	(76175)	
<input type="checkbox"/> Mathematical Models	(72140)	
<input type="checkbox"/> Computer Simulation	(57816)	
<input type="checkbox"/> Soils	(53764)	
<input type="checkbox"/> Water Quality	(48305)	
View all >		

作者

Author		
<input type="checkbox"/> Wang, Wei	(1194)	
<input type="checkbox"/> Zhang, Wei	(1139)	
<input type="checkbox"/> Li, Wei	(1112)	
<input type="checkbox"/> Wang, Jun	(883)	
<input type="checkbox"/> Wang, Yan	(806)	
View all >		

作者机构

Author affiliation		
<input type="checkbox"/> University Of Chinese Academy Of Sciences	(3096)	
<input type="checkbox"/> U.S. Geological Survey	(2262)	
<input type="checkbox"/> State Key Laboratory Of Water Resources And Hydropower Engineering Science, Wuhan University	(2049)	
<input type="checkbox"/> Csiro Land And Water	(1818)	
<input type="checkbox"/> State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology	(1705)	
View all >		

学科分类

Classification code		
<input type="checkbox"/> Chemical Products Generally	(305324)	
<input type="checkbox"/> Chemical Operations	(284168)	
<input type="checkbox"/> Organic Compounds	(258893)	
<input type="checkbox"/> Chemical Reactions	(228331)	
<input type="checkbox"/> Chemistry	(185796)	
View all >		

国家

Country		
<input type="checkbox"/> United States	(300214)	
<input type="checkbox"/> China	(268704)	
<input type="checkbox"/> Japan	(85354)	
<input type="checkbox"/> United Kingdom	(67054)	
<input type="checkbox"/> Germany	(65020)	
View all >		

文献类型

Document type		
<input type="checkbox"/> Journal article	(1171538)	
<input type="checkbox"/> Conference article	(397495)	
<input type="checkbox"/> Dissertation	(18684)	
<input type="checkbox"/> Article in Press	(799)	
<input type="checkbox"/> Conference proceeding	(773)	
View all >		

原文语言

Language		
<input type="checkbox"/> English	(1508046)	
<input type="checkbox"/> Chinese	(74904)	
<input type="checkbox"/> German	(18953)	
<input type="checkbox"/> Russian	(13839)	
<input type="checkbox"/> Japanese	(10762)	
View all >		

年

Year		
<input type="checkbox"/> 2018	(269)	
<input type="checkbox"/> 2017	(64800)	
<input type="checkbox"/> 2016	(94832)	
<input type="checkbox"/> 2015	(92476)	
<input type="checkbox"/> 2014	(97399)	
View all >		

刊源

Source title		
<input type="checkbox"/> Water Science And Technology	(21535)	
<input type="checkbox"/> Proquest Dissertations And Theses Global	(18684)	
<input type="checkbox"/> Water Research	(16333)	
<input type="checkbox"/> Advanced Materials Research	(14270)	
<input type="checkbox"/> Proceedings Of Spie - The International Society For Optical Engineering	(14068)	
View all >		

出版社

Publisher		
<input type="checkbox"/> Elsevier Ltd	(144352)	
<input type="checkbox"/> Elsevier	(121944)	
<input type="checkbox"/> American Chemical Society	(67892)	
<input type="checkbox"/> Institute Of Electrical And Electronics Engineers Inc.	(26782)	
<input type="checkbox"/> Springer Verlag	(25231)	
View all >		

赞助机构

Funding sponsor		
<input type="checkbox"/> National Natural Science Foundation of China	(16140)	
<input type="checkbox"/> National Science Foundation	(2324)	
<input type="checkbox"/> Natural Sciences and Engineering Research Council of Canada	(1002)	
<input type="checkbox"/> National Research Foundation of Korea	(842)	
<input type="checkbox"/> U.S. Department of Energy	(826)	
View all >		

分析检索结果

Numeric filter 0 ▾

Refine results

Limit to Exclude

Add a term

Controlled vocabulary ⓘ ⬇

Author ⓘ ⬇

Author affiliation ⓘ ⬇

Classification code ⓘ ⬇

Country ⓘ ⬇

Document type ⓘ ⬇

Language ⓘ ⬇

Year ⓘ ⬇

Source title ⓘ ⬇

Publisher ⓘ ⬇

Funding sponsor ⓘ ⬇

Limit to Exclude

New search with facets

Knowel Search >

📄 ✉ 📄 📄

1. Water demand forecasting by trend and ha
Kozłowski, Edward (Lublin University of Technol
Beata; Kowalski, Dariusz; Mazurkiewicz, Daria
Database: Compendex
Detailed Show preview Full text ↗

2. Estimation of river water temperature from
Ouyang, Heng (Department of Civil Engineering,
and Technologies, v 81, p 264-271, 2018, Advances in Intelligent Information Hiding and Multimedia Signal Processing - Proceedings of the 15th International Conference on Intelligent Information Hiding
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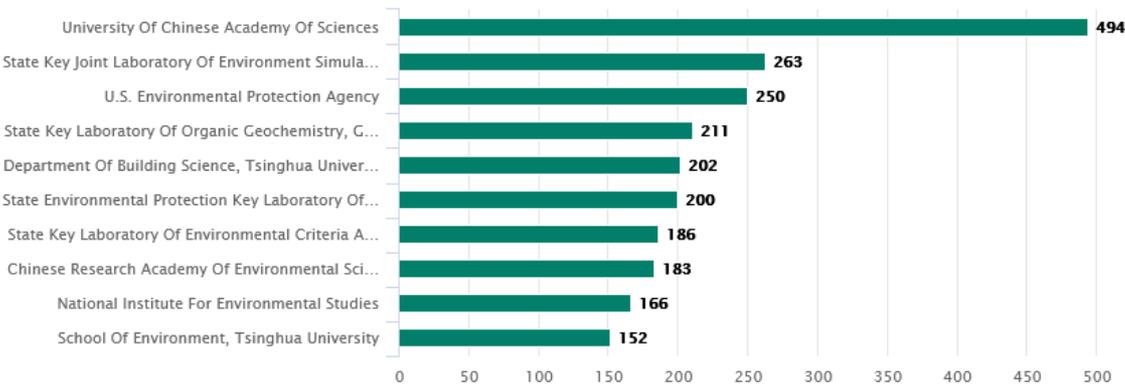
5. Ev
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- 统计图表输出的按钮会出现在每个检索结果项目的旁边
- 此功能允许使用者可以透过图表形式浏览各项目结果数据，或是下载成文字文件并可以输出到其它软件中，例如：Excel

Author affiliation ⓘ ⬇

Search: ((air pollution) WN ALL)

Click to limit your results

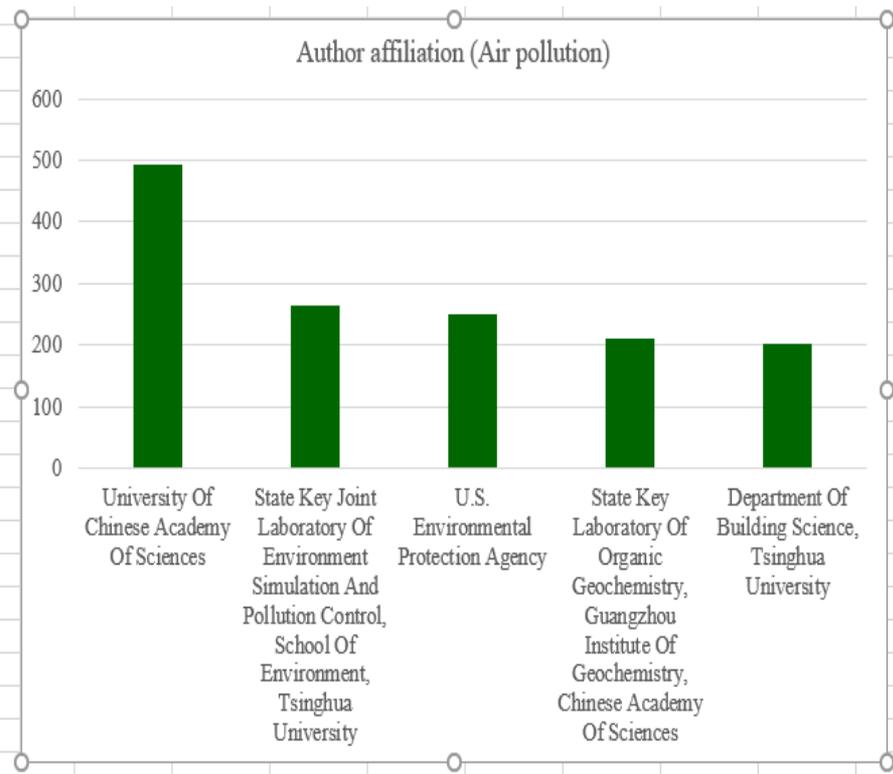


● Records

分析检索结果

- 点选  图标可以让您将图表输出成tab档案
- 您也可以将输出的档案以 **Excel** 软件开启分析管理

Author affiliation	Count
University Of Chinese Academy Of Sciences	494
State Key Joint Laboratory Of Environment Simul	263
U.S. Environmental Protection Agency	250
State Key Laboratory Of Organic Geochemistry, C	211
Department Of Building Science, Tsinghua Univer	202
State Environmental Protection Key Laboratory C	200
State Key Laboratory Of Environmental Criteria A	186
Chinese Research Academy Of Environmental Sc	183
National Institute For Environmental Studies	166
School Of Environment, Tsinghua University	152
Air Pollution Research Center, University Of Califo	142
State Key Joint Laboratory Of Environmental Sim	142
State Key Laboratory Of Atmospheric Boundary I	140
Division Of Atmospheric Sciences, Desert Researc	137
California Air Resources Board	137
Univ Of California	131
Department Of Environmental Engineering, Natic	126
School Of Environmental Science And Engineerin	124
National Center For Atmospheric Research	118
School Of Civil And Environmental Engineering, C	108
University Of California	108
Key Laboratory Of Beijing On Regional Air Polluti	107



举例：只关注‘中国’近5年的‘air pollution’的研究

Country   

<input type="checkbox"/>	United States	(27736)
<input checked="" type="checkbox"/>	China	(14306)
<input type="checkbox"/>	United Kingdom	(5507)
<input type="checkbox"/>	Canada	(4594)
<input type="checkbox"/>	Germany	(4435)

View more >

Language   

<input type="checkbox"/>	English	(109118)
<input type="checkbox"/>	Chinese	(2360)
<input type="checkbox"/>	German	(2152)
<input type="checkbox"/>	Russian	(1115)
<input type="checkbox"/>	French	(398)

View more >

Year   

<input checked="" type="checkbox"/>	2018	(2884)
<input checked="" type="checkbox"/>	2017	(5827)
<input checked="" type="checkbox"/>	2016	(5381)
<input checked="" type="checkbox"/>	2015	(4596)

8. **H15-59: High quality air pollution dispersion modelling using high computational performance Lagrangian particle model**

Graši, Boštjan (MEIS d.o.o., Mali Vrh pri Šmarju 78, Šmarje - Sap, Slovenia); Mlakar, Primo; Bonar, Marija Zlata; Kocijan, Juš; Tinarelli, Gianni Source: *Proceedings of the 15th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, HARMO 2013*, p 337-342, 2013, *Proceedings of the 15th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, HARMO 2013*

Database: Compendex

Detailed Show preview ▾

Check Local Full-text

9. **Ozone Levels in the North and South of Jordan: Effects of Transboundary Air Pollution**

Alsawair, Jihad Khalaf (University of Nevada, Reno) Source: *ProQuest Dissertations and Theses Global*, 2011

Database: Compendex

Detailed Show preview ▾

Full text ↗

Check Local Full-text

10. **Air pollution forecast in cities by an air pollution index highly correlated with meteorological variables**

Cogliani, Euro (Energy Department, ENEA (Agency for New Technologies, Energy and Environment), Box 117, Via Anguillarese, 301 S. Maria di G., 00060 Rome, Italy) Source: *Atmospheric Environment*, v 35, n 16, p 2871-2877, 2001

Database: Compendex

Detailed Show preview ▾

Cited by in Scopus (62)

Full text ↗

Check Local Full-text

11. **Responses of serum chemokines to dramatic changes of air pollution**

Li, Yanli (State University of New York at Buffalo) Source: *ProQuest Dissertations and Theses Global*, 2013

Database: Compendex

Refine Results 的用途

- 了解你的同行，他们目前研究处于什么阶段
- 了解你关心的课题所涉及的领域，是否能发现新的研究方向
- 了解课题所处的生命周期，通过文献计量的年代分析
- 了解课题的热门期刊，作为投递文章的选择
- 通过文献类型了解论文的分布

经过EI整理：文献记录详细格式

Record 21 from Compendex & Inspec for: ((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, Alfred¹ 

Author affiliation: ¹ Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23554 Lübeck, Germany
² Department of Hydraulics, University Politehnica, Spl. Independentei 313, 060042 Bucharest, Romania

Corresponding author: Vogel, A. (vogel@brmo.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

CODE#: 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.



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

Corresponding Author: 通讯作者

Abstract: 文章内容摘要

Main heading: 主要主题

Controlled term: 索引词汇标准

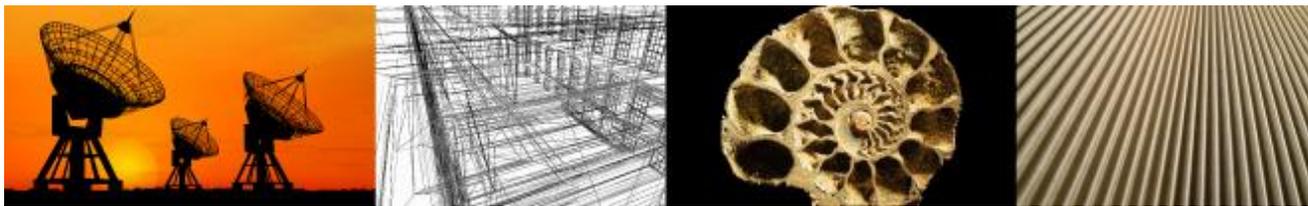
Uncontrolled term: 相关主题的广义分类

Classification code: 在来源中其它附加优势的词汇和词组

管理检索结果

[Blog/E-mail/打印/](#)

[下载书目信息/存到我的数据夹](#)



有五种选项保存需要的文章

Record

Record 1 from Compendex for: ((water) WN All fields) , 1884-2018

< Back to results

Full text



Abstract

Detailed

Compendex Refs 43

Water dem

Kozłowski, Edward

Source: Archives of

10.1016/j.acme.2

Author affiliation

Management, Na

2 Lublin Universi

Nadbystrzycka 40

Download record(s)

NOTE: Your selected records (maximum of 500) will be kept until your session ends. To clear selected records:

* Go to the Selected records page and clear records; OR

* End your session

Location:

- My PC
- Mendeley
- RefWorks
- Google Drive
- Dropbox
- Your Folder(s)

Format:

- EndNote (RIS, Ref. Manager)
- BibTeX
- Text (ASCII)
- CSV
- Excel[®]
- PDF
- RTF (Word[®])

Output:

- Current page view
- Citation
- Abstract
- Detailed record

File name:

Engineering_Village

Login or Create account to save to My Preferences

_current_page_view_Date/Time.pdf

Cancel

Download record(s)

Disposal,

存到我的资料夹

注意，此为个人化功能，需注册及登录后才能使用。

The screenshot shows the Engineering Village interface with a 'Download record(s)' dialog box open. The dialog has three columns: 'Location', 'Format', and 'Output'. Under 'Location', 'Your Folder(s)' is selected and highlighted with a red box. Below this, a 'View/Update Folders' dialog is also open, showing a list of existing folders with 'Water' selected. The 'View/Update Folders' dialog has a 'Save' button next to the 'Water' folder name. A red arrow points from the 'Your Folder(s)' selection to the 'View/Update Folders' dialog.

The screenshot shows the 'Folder Name : Water' view in Engineering Village. It displays '1 record in this folder'. The record is 'Water demand forecasting by trend and harmonic analysis' by Kozłowski, Edward (Lublin University of Technology, Faculty of Management, Department : Kowalski, Dariusz; Mazurkiewicz, Dariusz). The record is from 'Archives of Civil and Mechanical Engineering', v 18, n 1, p 140-148, January 2018. The database is 'Compendex'. There are buttons for 'Full text' and 'Check Local Full-text'.

标签功能

Tags & Groups

Browse tags Search tags View/Edit groups Rename/Delete tags

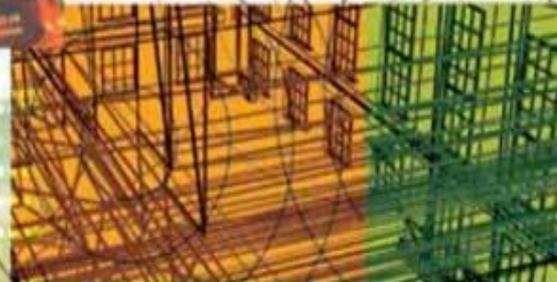
Display: Public ▾

1 123 Ad Hoc networks AP Arabidopsis thaliana assessment BUPT cao Capillary electrophoresis Cloud Index Conducting polymers Contact resistance Data sets Datasets EI2 Electrode Electronics cooling ESJP Fault diagnosis folksonomy Gene expression Gulf of Mexico Hydrogen production Informatics Information Literacy irr irrelevant Lead Free solder L Metamaterials Microchannels Modeling My Nanoparticles Ni Chen Noise sources nope Numerical modeling Oil Spills Paper Ontology Optical Burst Switching OBS Optical netwo fibers Photonic crystals Power Quality Room temperature Sea Surface Temperature SST Sensor networks Silicon photonics Soil properties Stars Suction Support Vector Machine SVM support vector machines survey paper tag clouds tagging TEST Thermal aging Thermal management Triaxial tests Unsaturated Soils usc Volume rendering Water content Water management waynestate Web Services Wireless Sensor Networks xionghui yes

- My preferences
- Personal details
- Change password
- Alerts & Saved searches
- Folders
- Tags & groups**
- Publications
- Interactive equations

标签功能

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



Expert Search – 专家检索

Expert search

Search for:

Eg.:smith wn AU and ("autonomous navigation" or radar)*



Reset form

Databases ▾

Date ▾

Sort by ▾

Autostemming ▾

Search codes [^]

Browse indexes ▾

Database

Code = Field

Code = Field

c = Compendex

i = Inspec

n = NTIS

pc = PaperChem

cm = Chimica

cb = CBNB

el = EnCompassLIT

ep = EnCompassPAT

n = GFOR&SF

4

AB = Abstract (c,i,n,pc,cm,cb,el,ep,g,f,u,e,k)

AN = Accession number (c,i,n,pc,el,ep,g,f,k)

AF = Affiliation/Assignee (c,i,n,pc,cm,el,ep,g,f,u,e)

ALL = All fields (c,i,n,pc,cm,cb,el,g,f,u,e,k)

ANN = Annotation (f)

AI = Astronomical indexing (i)

AU = Author/Inventor (c,i,n,pc,el,ep,g,f,u,e,k)

AV = Availability (n,cb,f)

CR = CAS register number (cm,cb,el,en)

CVMA= Major term as a reagent (el,ep)

CVMN= Major term with no role (el,ep)

MS = Map Scale (f)

MP = Map Type (f)

MI = Material identity number (i)

AG = Monitoring agency (n)

NT = Notes (n)

NU = see Numerical Data Codes (c,i)

NI = Numerical indexing (i)



Codes displayed will depend on your current database selection

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**

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
- **near/n-** 两个词之间可插入**0—n**个词,如
- **Distance Onear/3 learning**

查收-人名检索

- ◆EI数据库的作者有九种写法： 以**赵文立** (Zhao Wenli) 为例 Zhao Wenli or Zhao Wen-li or Zhao Wl or Zhao W-l or Zhao W or Wenli Zhao or Wen-li Zhao or Wenli Z or Wen-li Z
- ◆建议大家采用通配符“ * ”，以三种形式来代替，并用其他检索字段来限制 Zhao W* or Wenli Z* or Wen-li Z *
- ◆利用作者单位提高查准率
**((Zhao W*) or (Wenli Z*) or (Wen-li Z*)) wn au AND (Aalto near 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 near 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）



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

www.ei.org

Thesaurus Search – 叙词检索



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 w n 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。

- 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

- 分面层次

- 分面: 按类别分组
- 层次: 上位类/下位类

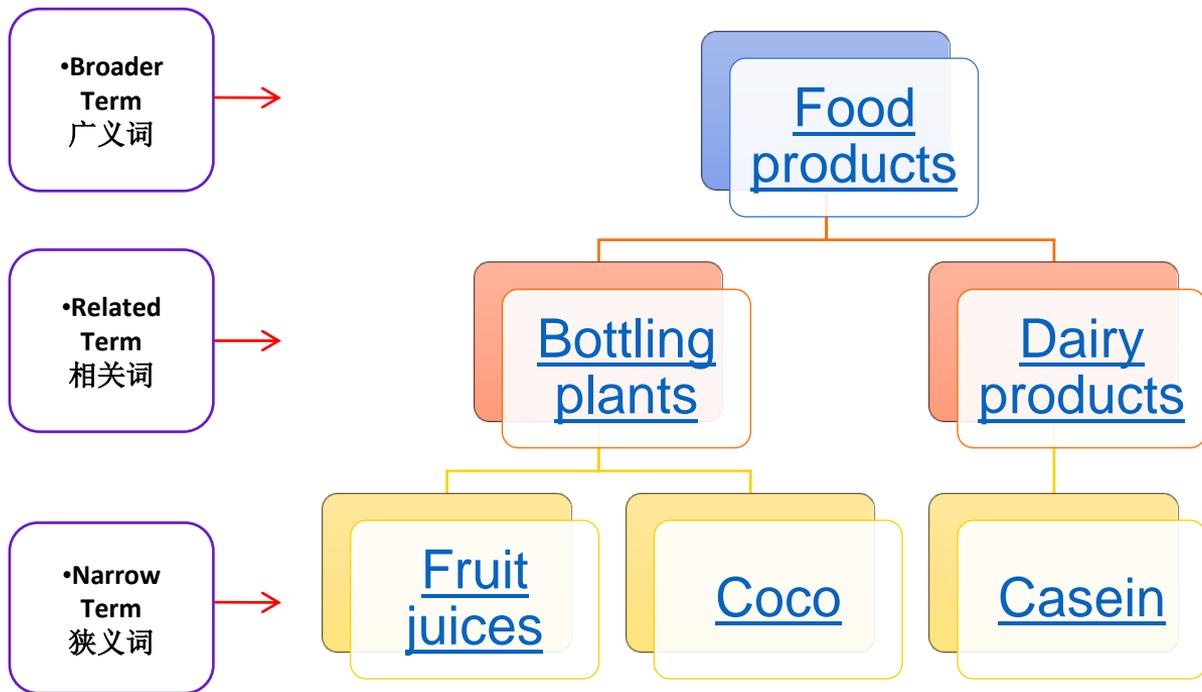
- 自动显示的款目

- 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

THESAURUS词库-Beverages (饮料)



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
- 专家检索式写法：
- ((({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“Search Index”，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

Engineering Village™
The first choice for serious engineering research.

Search ▾ Alerts 0 Selected records 0 ? ▾ Create account

Thesaurus search

Database: Compendex Inspec GeoRef GEOBASE EnCompass

Search in: Exact term ▾ for

Exact term

Climate Change

Broader terms	Related terms	Narrower terms
<input checked="" type="checkbox"/> Climatology	<input type="checkbox"/> Air pollution <input type="checkbox"/> Atmospheric composition <input type="checkbox"/> Atmospheric temperature <input type="checkbox"/> Climate models <input type="checkbox"/> Greenhouse gases	<input type="checkbox"/> Global warming <input checked="" type="checkbox"/> Greenhouse effect

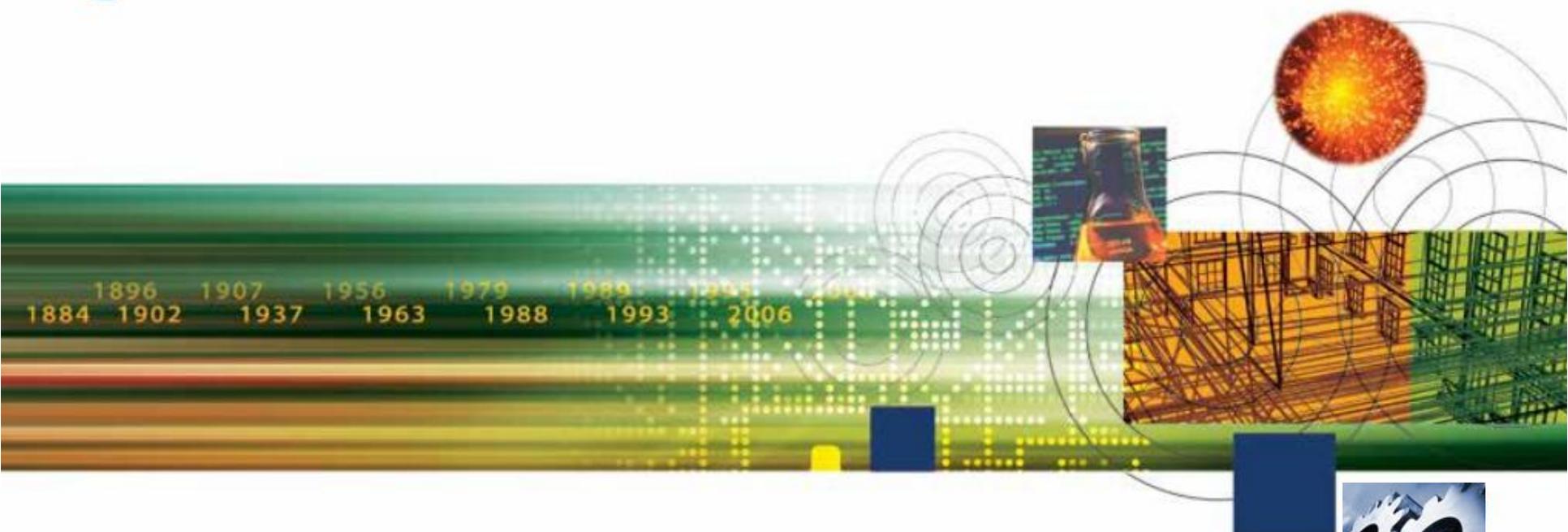
Selected term(s) >

- Climatology X
- Greenhouse effect X

AND
 OR

Date ▾ Document type ▾ Language ▾ Discipline ▾ Treatment ▾ Sort by ▾

ELSEVIER



个人化功能

My Profile

- 功能
 - 储存检索策略 (125个)
 - 建立E-mail Alert (25篇)
 - 建立用户个人数据夹
 - 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

1884 1896 1907 1956 1979 1983 1993 2006
1902 1937 1963 1988

特别功能

- 数值检索
- PlumX 指数
- 工院校Ei档案
- 检索历史

CODiE AWARDS ²⁰¹⁸

▶ **Engineering Village with
Numeric Index & Search**
RELX Group

Best Content Search, Discovery
& Analytics Solution

CONGRATULATIONS,
2018 WINNER!

//CODiE//
2018 SHIA CODiE AWARDS

数值检索-来自数值数据的更多信息

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

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.

Controlled terms: [Core drilling](#) - [Density \(specific gravity\)](#) - [Geotechnical engineering](#) - [Hazards](#) - [Magnetic susceptibility](#) - [Mooring](#) - [Offshore pipelines](#) - [Petroleum geology](#) - [Production platforms](#) - [Sediments](#) - [Shear strength](#)

Uncontrolled terms: [Compression wave velocity](#) - [Geotechnical properties](#) - [Large diameter long piston cores](#) - [Sensor core logger](#)

Classification code: [481.1](#)Geology - [483.2](#)Foundations - [511.1](#)Oil Field Production Operations - [674.2](#)Marine Drilling Rigs and Platforms - [701.2](#)Magnetism: Basic Concepts and Phenomena - [931.2](#)Physical Properties of Gases, Liquids and Solids

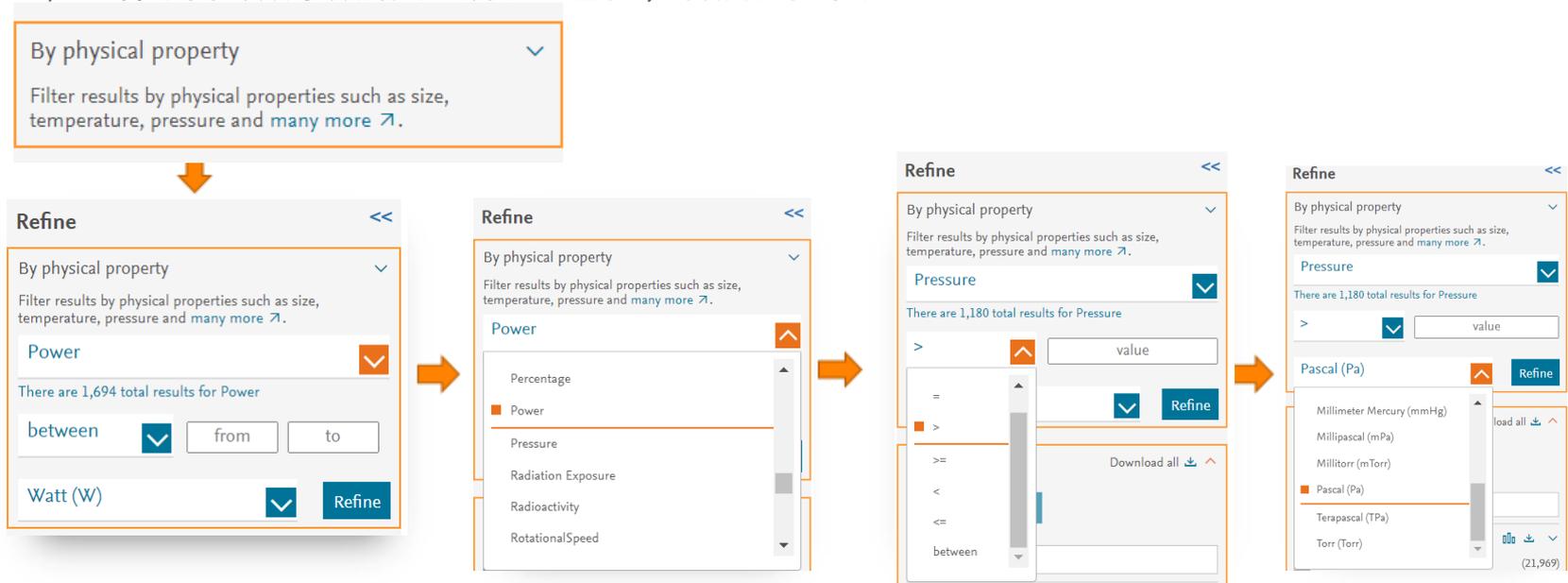
Numerical data indexing [Size 1.92e+01m](#) [Size 3.05e+00m to 6.10e+00m](#) [Size 3.05e+01m](#)

//CODiE//
2018 SIIA CODiE WINNER

数值检索

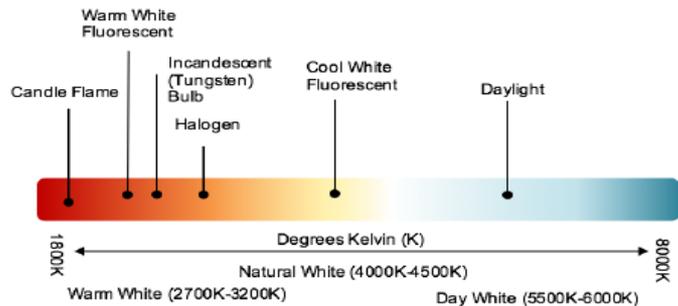
Engineering Village是唯一支持Compendex和Inspec数值搜索的平台。数值数据通常描述工程文献中最重要 的方面。通过数字数据索引，研究人员可以访问可能未通过纯文本搜索发现的文档。

- 为Compendex索引的62种不同的物理和化学性质。
- 在Compendex和Inspec数据库中可用于交叉搜索的记录超过650万条。
- 460,000种不同的数字数据写入方式 - 匹配，转换和标准化。



实例：LED灯泡的研发

工程师参与一个LED灯泡的研发项目。该工程师需要开发日照白的LED灯泡，由于色彩取决于灯泡的温度，因此该工程师在EV上进行了基于温度的搜索。



Quick search: All fields

for light emitting diodes

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Numeric filter

Temperature

Kelvin (K)

Range

5500

6000

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Title: White light-emitting diodes based on ultrasmall CdSe nanocrystal electroluminescence

Abstract: ... hese LEDs have excellent color characteristics, defined by their pure white CIE color coordinates (0.333, 0.333). correlated color temperatures of **5461-6007 K**. and color rendering Indexes as high as 96.6. ...

Numerical data indexing: temperature 5.46e+03K to 6.01e+03K

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Controlled vocabulary Add a term

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- Finfet (230)

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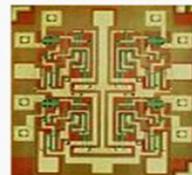
Comparative analysis of standard cells performance for 7nm FinFET and 28nm CMOS technologies with considering for parasitic elements
Ilin, Sergey (JSC 'Molecular Electronics Research Institute', Moscow, Russia); Ryzhova, Daria; Korshunov, Andrey Source: Proceedings of the 2018 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2018, v 2018-January, p 1360-1363, March 14, 2018, Proceedings of the 2018 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2018
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Effect of fin shape of tapered FinFETs on the device performance in 5-nm node CMOS technology
Kurniawan, Erry Dwi (Department of Engineering and System Science, National Tsing Hua University, Hsinchu; 300, Taiwan); Yang, Hao; Lin, Chia-Chou; Wu, Yung-Chun Source: Microelectronics Reliability, v 83, p 254-259, April 2018
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3. Testing system for radiation effects of CCD and CMOS image sensors
Li, Yu-Dong (Xinjiang Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Urumqi 830011, China); Wang, Bo; Guo, Qi; Ma, Li-Ya; Ren, Jian-Wei Source: Guangxue Jingmi Gongcheng/Optics and Precision Engineering, v 21, n 11, p 2778-2784, November 2013
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4. Opportunities and challenges of FinFET as a device structure candidate for 14nm node CMOS technology
Yamashita, T. (IBM Research, Albany Nanotech., Albany, NY 12203, United States); Basker, V.S.; Standaert, T.; Yeh, C.-C.; Faltermeier, J.; ...

Semiconductor manufacturing processes



- 10 μm – 1971
- 6 μm – 1974
- 3 μm – 1977
- 1.5 μm – 1982
- 1 μm – 1985
- 800 nm – 1989
- 600 nm – 1994
- 350 nm – 1995
- 250 nm – 1997
- 180 nm – 1999
- 130 nm – 2001
- 90 nm – 2004
- 65 nm – 2006
- 45 nm – 2008
- 32 nm – 2010
- 22 nm – 2012
- 14 nm – 2014
- 10 nm – 2017
- 7 nm – ~2018
- 5 nm – ~2020

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Bian, Zhongmin	318
Wang, Li-Si, Peng	291
Wu, Xianbin, Jinhua	265
Feng, W, Ji	236
Tang, Michael F	231
Hu, Hongbin, Li	189
Wang, Yongbo	176
Hu, Junjie, S	170

Research focus

- X Rays
- Photons
- Thin Films
- Proteins
- Iterative Methods
- Electronics
- Stochastic Systems
- Free Electron Lasers
- Artificial Intelligence
- Medical Imaging

Funding sponsorship

Publishing trend

Year	Records
2008	3,227
2009	3,385
2010	3,470
2011	3,569
2012	3,646
2013	3,669
2014	3,691
2015	3,616
2016	3,340



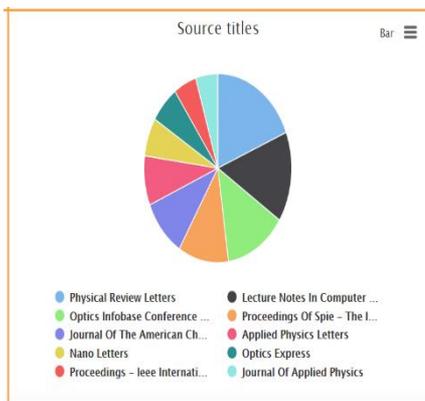
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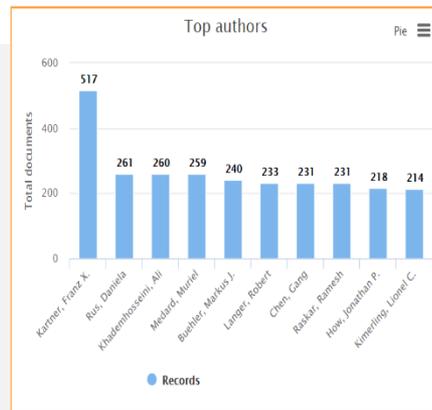
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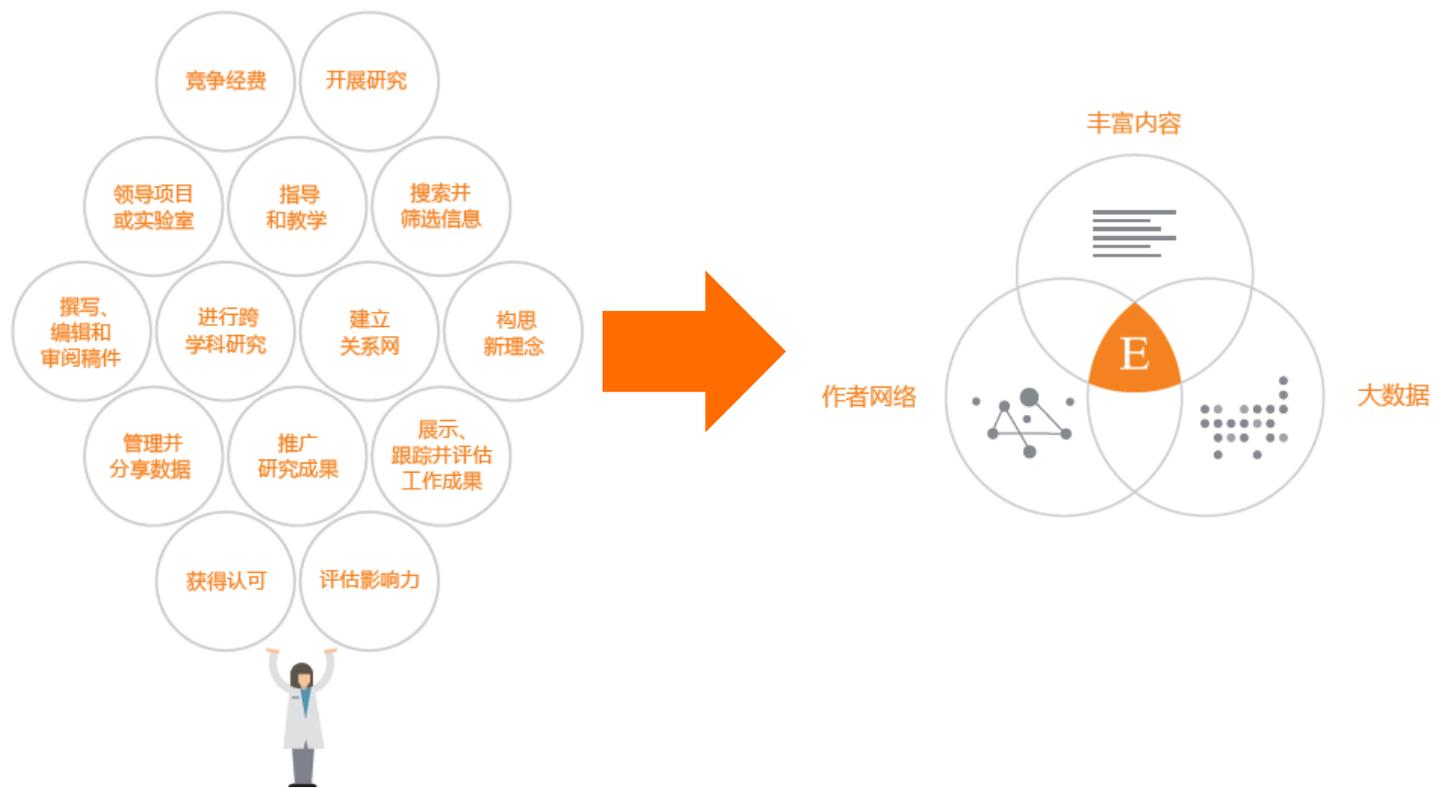
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