

精准发现工程信息- Ei数据库新功能提升检索效率

罗莹

爱思唯尔工程解决方案顾问

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信息在工程领域的使用-常见问题解答

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？

实例 - Engineering Village 的使用

- 分析论文发表情况以及科研创新表现
- 支持科研创新
 - 探索研究方案、研究领域
 - 寻找合作对象、机构、地点
 - 研究刊物和会议以发表工作成果
- 培养工程人才
 - 开展课程指导学生如何有效检索所需资料
 - 用书籍、书目章节教学基础知识，将新生引入工程世界
 - 用跨出版社行业准则对高年级本科生、研究生指导特定工程研究领域的必要知识
 - 与企业对接
 - 博士学位论文：学术界研究现状
 - 会议论文：最新研究进展

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



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, the logo and tagline 'The first choice for serious engineering research.' are visible. The search bar contains the text 'Search for... e.g. transcription factors AND jon smith'. Below the search bar, there are several filters: 'Databases', 'Date', 'Document type', 'Language', 'Treatment', 'Discipline', 'Sort by', 'Autostemming', and 'Browse indexes'. The 'Treatment' filter is expanded, showing options: 'All Treatments', 'Experimental', 'Management aspects', 'Applications', 'General review', 'Numerical', 'Biographical', 'Historical', 'Theoretical', and 'Economic'. The 'Literature review' option is selected and highlighted with a red box. Two orange callout boxes are overlaid on the page: one pointing to the 'General review' option with the text 'General Review' and '综述' (General Review), and another pointing to the 'Literature review' option with the text 'Literature Review' and '文献综述' (Literature Review).

注重学位论文的检索和阅读

- (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 search bar contains the query: `e.g. (artificial intelligence OR intelligent computing) AND {social medic`. The 'Document type' filter is expanded, showing various options. The 'Dissertation' option is selected and highlighted with a red box. An orange callout bubble points to this selection, containing the text 'ProQuest Dissertation' and '学位论文'.

Engineering Village

Search Alerts Selected records Bulletins More ? 0 0 0 YL

Quick search: All fields for `e.g. (artificial intelligence OR intelligent computing) AND {social medic`

Turn on AutoSuggest | + Add search field | R

Databases Date Language Document type Sort by Browse indexes Autostemming Discipli

All Document types Article in Press Book

Conference article Conference proceeding Dissertation

Erratum Journal article Note Editorial

Report chapter Report review Standard Patents (before 1970)

ProQuest Dissertation
学位论文

Engineering Village
About Engineering Village
Accessibility Statement
Content Available
Who uses EV?
Privacy principles

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Careers
All engineering jobs
By job category provided by Mendeley Careers

Feedback

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。

Engineering Village

Search Results Alerts Selected records Bulletins More

Quick search: All fields for water

Suggested terms: Mathematical Models Water Quality Soils Wastewater Treatment Rivers

2,028,613 records found in Compendex for 1884-2020: ((water) WN ALL)

Refine

By physical property

By category

Author

Author affiliation

Author

作者信息

Author Affiliation

机构信息

Techniques for Selection of Artificial Water Recharge Sites

Sustainable water supply systems for the islands: The integration with the energy problem

process to enhance removal of micropollutants from water resources

Databases: Compendex
Document type: Journal article (JA)

Feedback

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。

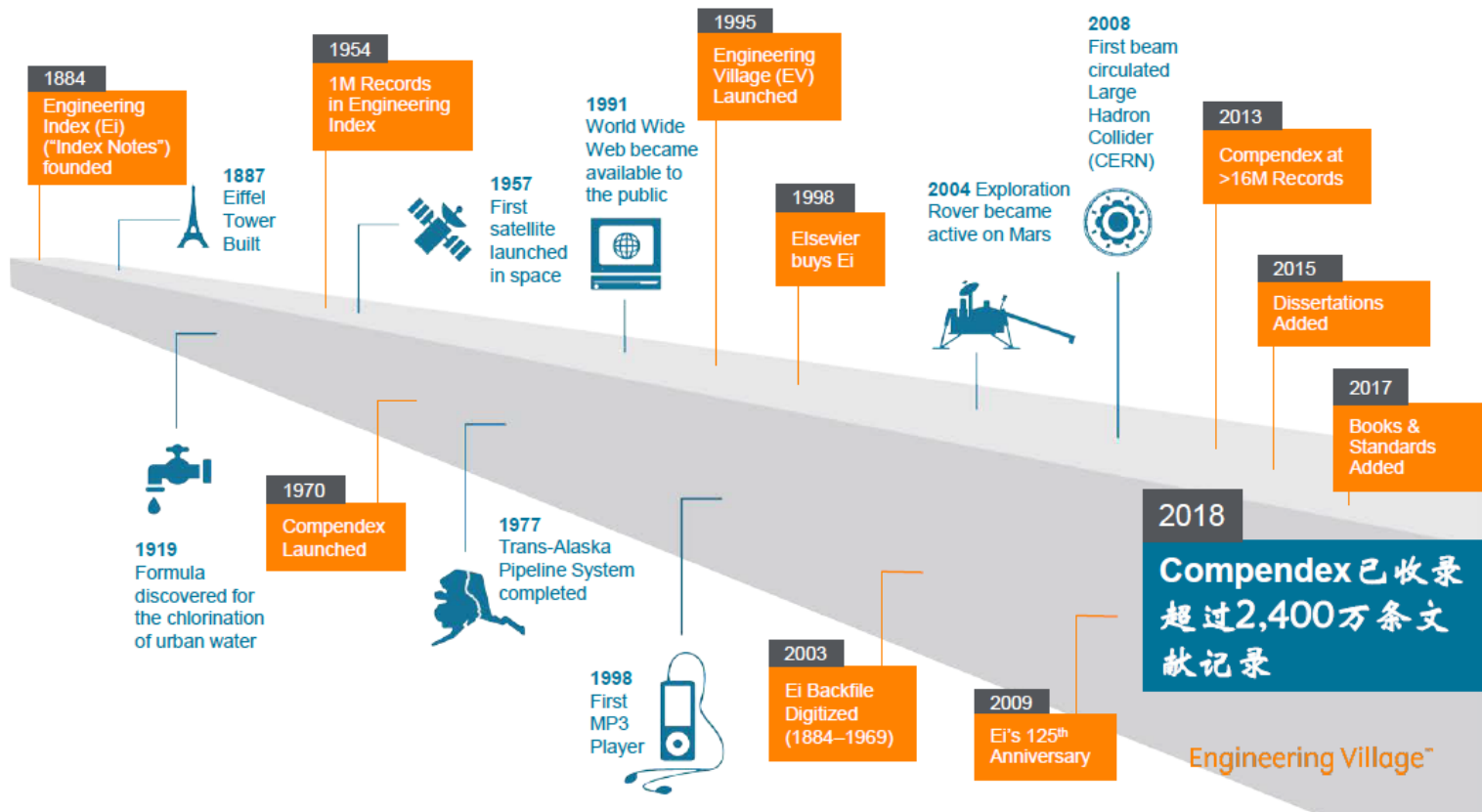
16. **Magnesium deficiency in tap water in Israel: The desalination era**
Rosen, Vasiliy V. (The Interdepartmental Equipment Unit, The Robert H. Environment, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot, Israel); Yona Source: *Desalination*, v 426, p 88-96, 15 January 2018
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (4) [Full text ↗](#) [Check Local Full-text](#)
17. **Maximizing Total Site Water Reuse via a Two-Way Centralized Water Header**
Ahmad Fadzil, Ahmad Fikri (Process Systems Engineering Centre (PROSPECT), Research Institute of Sustainable Environment, Universiti Teknologi Malaysia, Johor Bahru; 81310, Malaysia); Wan Alwi, Sharifah Rafidah; Manan, Zainuddin Abdul; Klemeš, Jiří Jaromír Source: *ACS Sustainable Chemistry and Engineering*, v 6, n 2, p 2563-2573, February 5, 2018
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (1) [Full text ↗](#) [Check Local Full-text](#)
18. **Advance in early warning of water resources carrying capacity**
Jin, Juliang (College of Civil and Hydraulic Engineering, Hefei University of Technology, Hefei; 230009, China); Chen, Menglu; Li, Jianqiang; Zhang, Libing; Wu, Chengguo Source: *Shuikexue Jinzhan/Advances in Water Science*, v 29, n 4, p 583-596, July 30, 2018 Language: Chinese
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview [Full text ↗](#) [Check Local Full-text](#)

引文信息

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



Ei独特的叙词表-深度标引，助力高效检索及跨学科发现

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. At the Jolliet site, the values of strength obtained from the core in the upper 10 to 20-ft. were comparable to the values obtained from the borings. With modifications, the long coring system can be extended to depths of 1000 ft. Large diameter long piston cores and gravity cores can provide an economical alternative to traditional borings, suction caissons, and identification of geohazards.

来自Ei叙词表
自1884年发展至今

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

Ei的优势：高效筛选信息，并提供文献计量数据及分析支持

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"/> Cairo 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	(7993)	
<input type="checkbox"/> Conference proceeding	(7739)	
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 >		

举例：只关注‘中国’近5年的‘air pollution’的研究



Engineering Village

Search ▾

Results ▾ 2

Alerts 0

Selected records 0

Bulletins

More ▾

? ▾

🏠 ▾

YL

By physical property ▾
Filter results by physical properties such as size, temperature, pressure and many more ↗.

By category Download all ⬆️ ⬆️ ⬆️

Limit to Exclude

Add a term

Country 📊 ⬆️ ⬆️ ⬆️

United States (30,665)

China (18,140)

United Kingdom (6,184)

Canada (5,083)

Germany (4,978)

View more >

Year 📊 ⬆️ ⬆️ ⬆️

2020 (93)

2019 (5,260)

2018 (6,733)

2017 (6,205)

2016 (5,524)

View more >

Access type 📊 ⬆️ ⬆️ ▾

Open Access (7,734)

Other (128,697)

1. **IOT-Based Conceptual Framework for the Prevention of Acute Air Pollution Episodes for Reducing and Limiting Related Diseases in Egypt**

El Haddad, Basmah (Institute of National Planning, Cairo, Egypt); **Elsadi, Zainab** Source: *Advances in Intelligent Systems and Computing*, v 921, p 876-887, 2020, *The International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2019*

Database: Compendex

Document type: Conference article (CA)

Detailed Show preview ▾

Full text ↗

Check Local Full-text

2. **A brief review of progress in air pollution measurements**

Nelms, Leonard H. (Tetra Tech em Inc., 2901 Wilcrest Drive, Houston; TX; 77042, United States) Source: *100th Annual Conference and Exhibition of the Air and Waste Management Association 2007, ACE 2007*, v 1, p 590-602, 2007

Database: Compendex

Document type: Conference article (CA)

Detailed Show preview ▾

Check Local Full-text

3. **Application of an indoor air pollution metamodel to a spatially-distributed housing stock** (Open Access)

Taylor, Jonathon (UCL Institute for Environmental Design and Engineering, Central House, 14 Upper Woburn Plc, London; WC1H 0NN, United Kingdom); **Shrubsole, Clive; Symonds, Phil; Mackenzie, Ian; Davies, Mike** Source: *Science of the Total Environment*, v 667, p 390-399, 1 June 2019

Database: Compendex

Document type: Journal article (JA)

Detailed Show preview ▾ Cited by in Scopus (1)

Full text ↗

Check Local Full-text

4. **Modelling air pollution crises using multi-agent simulation**

Ghazi, Sabri (Computer Science Department, University Badji Mokhtar, PO-Box 12, Annaba; 23000, Algeria); **Dugdale, Julie; Khadir, Tarek** Source: *Proceedings of the Annual Hawaii International Conference on System Sciences*, v 2016-March, p 172-177, March 7, 2016, *Proceedings of the 49th Annual Hawaii International Conference on System Sciences, HICSS 2016*

Database: Compendex

Document type: Conference article (CA)

Detailed Show preview ▾ Cited by in Scopus (2)

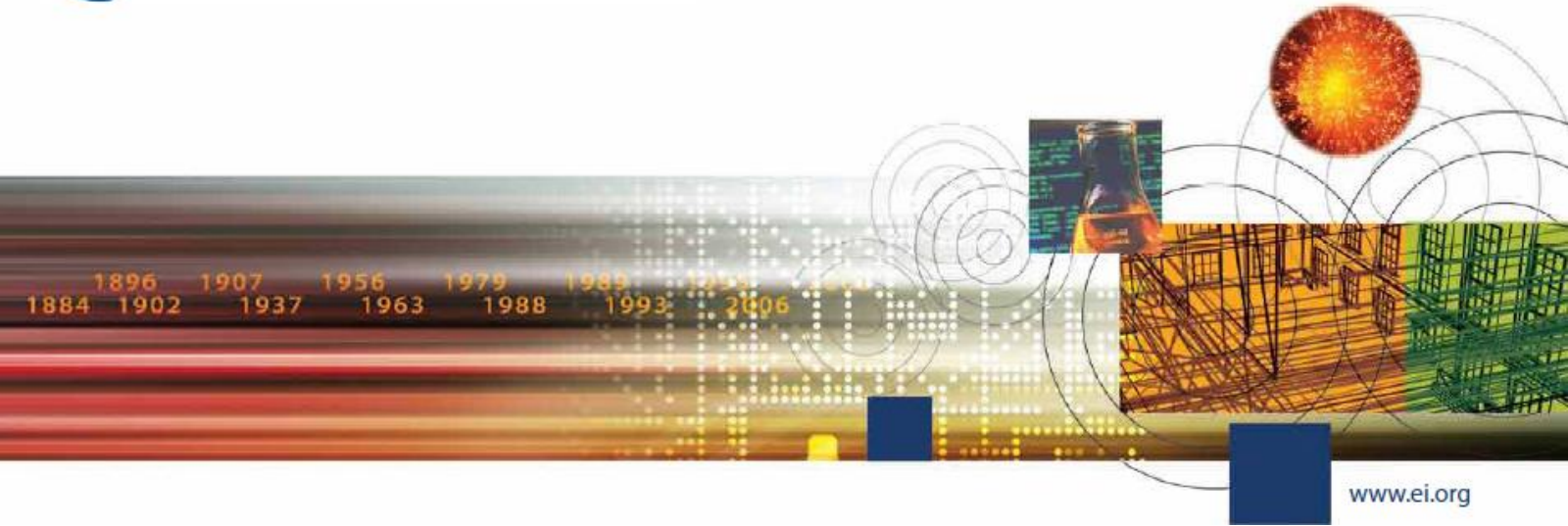
Full text ↗

Check Local Full-text

5. **Air pollution in China: Status and spatiotemporal variations**

State Council of Urban Transport Engineering Research, State Environmental Protection Key Laboratory of Urban Ambient Air Pollution Monitoring and Assessment

Feedback 🗨️



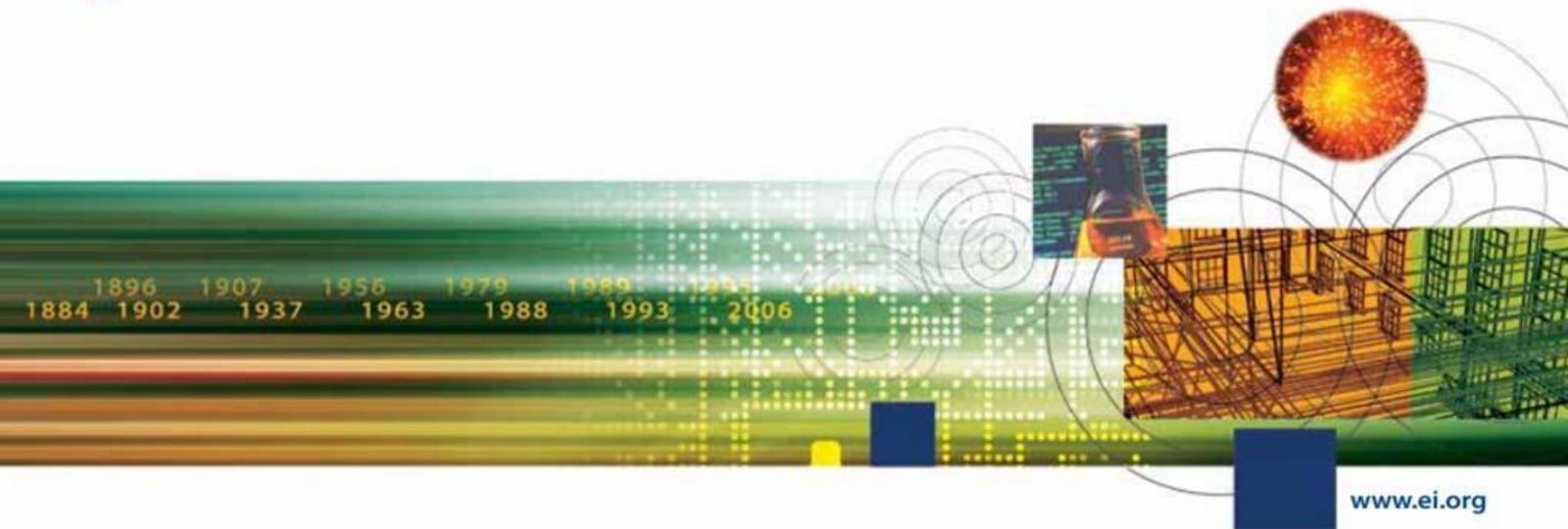
检索方式

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





Thesaurus Search - 词库检索



Thesaurus Search – 叙词检索





Example

An engineer wants to evaluate peer-reviewed literature on rechargeable batteries.

They need to survey all recent publications and don't want to miss anything.

术语表达

材料种类

不同机理

电池类型

Engineering

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** (如heavy water, 也叫Deuterium oxide-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

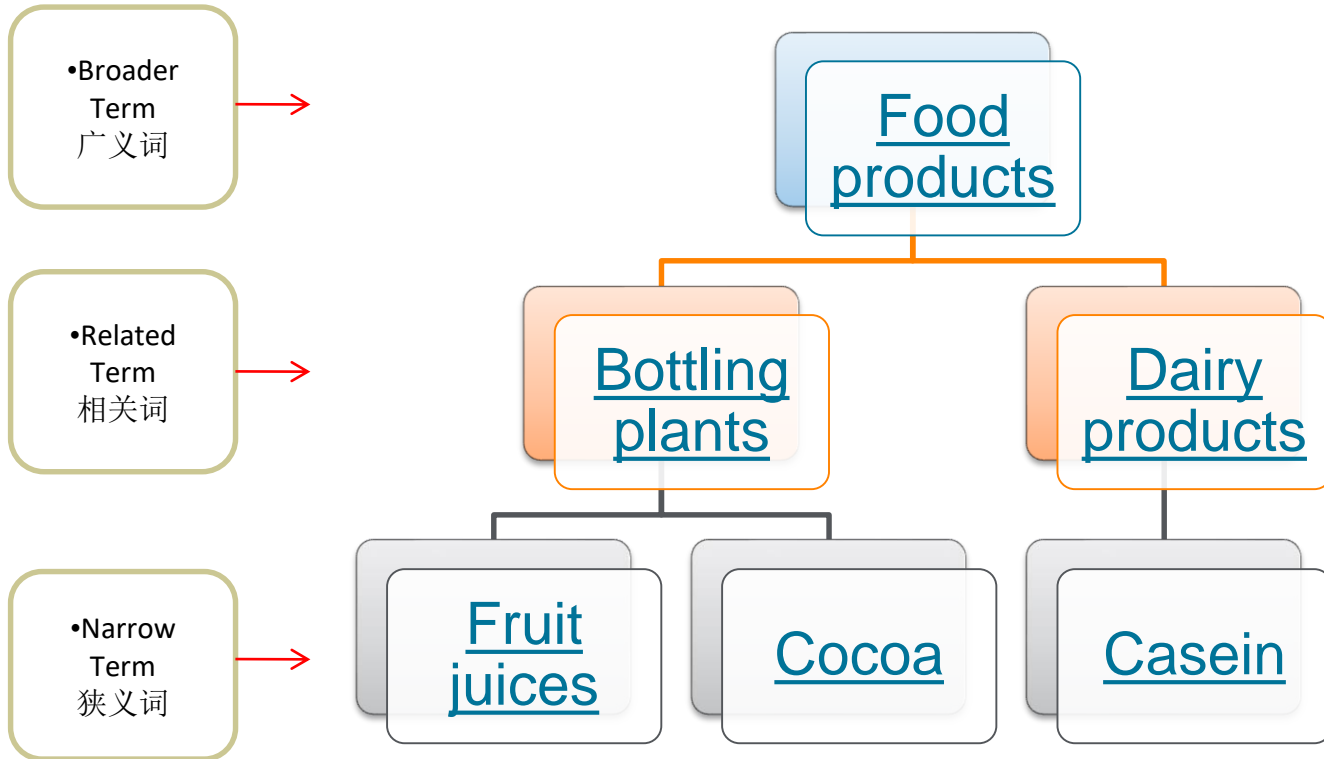
叙词表的作用

- 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。

- 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：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.

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) >

AND
 OR

Date Document type Language Discipline Treatment Sort by

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

特别功能

- 数值检索
- PlumX 指数
- 工科院校Ei档案
- 检索历史

www.ei.org

CODiE AWARDS ²⁰¹⁸

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Numeric Index & Search**
RELX Group

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& Analytics Solution

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2018 WINNER!

//CODiE//
2018 SIA 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](#)

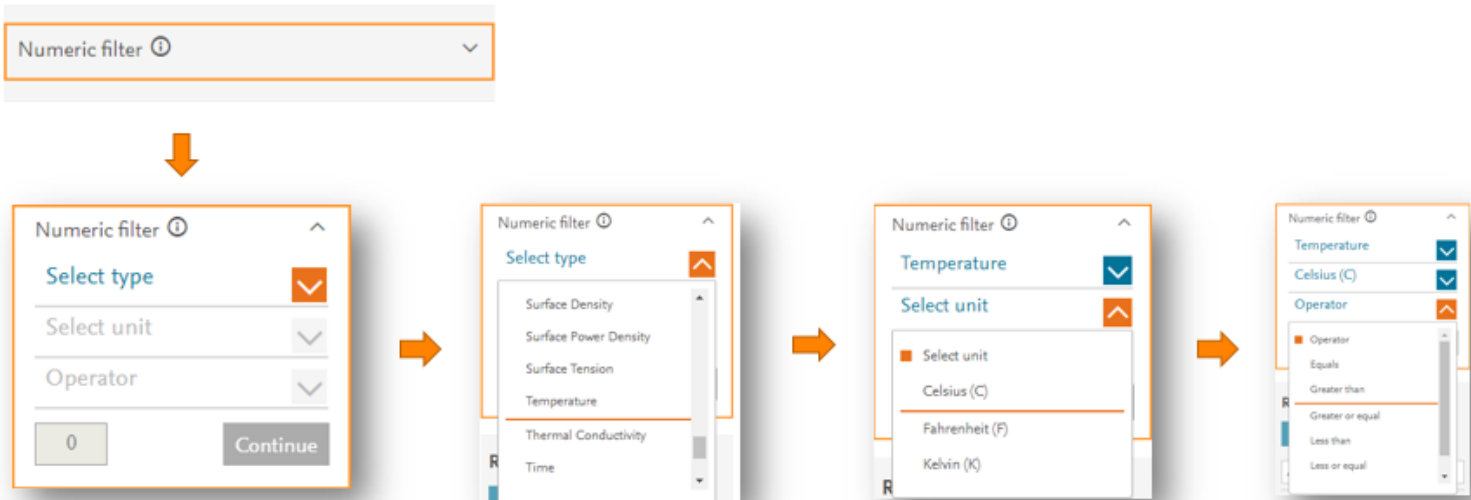
Classification code: [481.1](#)Geology - [483.2](#)Foundations - [511.1](#)Oil Field Production Operations - [674.2](#)Marine Drilling Rigs and Platforms - [701.2](#)Magnetism: Basic Concepts and Phenomena - [931.2](#)Physical Properties of Gases, Liquids and Solids

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

数值检索

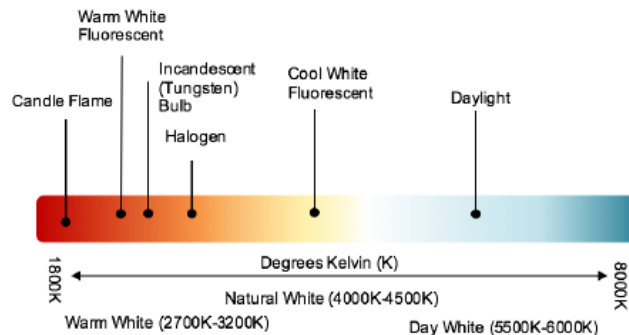
Engineering Village是唯一支持Compendex和Inspec数值搜索的平台。数值数据通常描述工程文献中最重要的方面。通过数字数据索引，研究人员可以访问可能未通过纯文本搜索发现的文档。

- 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:



for



Turn off AutoSuggest | + Add search field | Reset form

Refine <<

Numeric filter ⓘ ^

Temperature



Kelvin (K)



Range



5500

6000

Continue

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

数值检索优势

一：打破计量单位限制

二：提高查全率-数值检索比关键词检索的结果多出一倍

三：高效便捷地跟踪前沿

Refine your results to the latest cutting edge research for electronic circuits using an easy-to-use numeric search filter.

2,305 records found in Compendex for 1884-2020: ((cmos)WN ALL) * + (NU_SIZE LTE 14 nm) *

1 of 93 pages >

Create alert Save search Share search RSS feed

Sort by: Relevance

Refine << >> Display: 25 results per page

By physical property

Filter results by physical properties such as size, temperature, pressure and many more >

Size

There are 2,305 total results for Size

<= 14

Nanometer (nm) Refine

Controlled vocabulary

- Cmos Integrated Circuits (1,444)
- Mosfet Devices (444)
- Gates (Transistor) (288)
- Mos Devices (282)
- Finfet (230)

View more >

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*

Database: Compendex
Document type: Conference article (CA)
Detailed Show preview Full text Check Local Full-text

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

Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited in Scopus (3) Full text Check Local Full-text

Testing system for radiation effects of CCD and CMOS image sensors

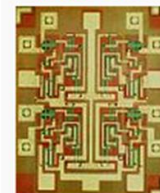
Li, Yu-Dong (Xinjiang Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Urumqi 830011, China); Wang, Bo; Guo, Qi; Ma, Li-Ya; Ren, Jian-Wei Source: *Guangxue Jingmi Gongcheng/Optics and Precision Engineering*, v 21, n 11, p 2778-2784, November 2013

Language: Chinese
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited in Scopus (24) Full text Check Local Full-text

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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PlumX 指数：进一步了解论文影响力

PlumX Metrics



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Abstract Views: 62
Full Text Views: 44

Captures

Exports-Saves: 2
Readers: 5

Citations

Citation Indexes: 4

PlumX Metrics

PlumX Metrics提供了人们与在线环境中各个研究成果交互方式的衡量。在评估研究文章时，度量标准可用于确定文档的范围或影响。度量标准分为5个独立区域：

Usage - clicks, downloads, views, library holdings, video plays

Captures – Bookmarks and favorites are examples of Captures.

Mentions – Blog posts, comments, reviews, and news media are tracked as Mentions.

Social media -tweets, Facebook likes, etc. that reference the research.

Citations – traditional citation indexes such as Scopus, as well as citations that help indicate societal impact such as Clinical or Policy Citations.

Reach –How many others are using the research.


Repeat Use – Indicates leading indicator of future citations.

Engagement – Mentions is a way to tell that people are truly engaging with the research.

Attention - Social Media can measure “buzz” and how well a particular piece of research has been promoted.

Impact – indicate societal impact such as Clinical or Policy Citations.

工科院校Ei档案 Engineering School Profile


Engineering Village
Search ^

Quick search: for

Databases ^
Date v
Language v
Document type v
Sort by v
Browse ind

All
 Compendex
 Inspec
 NTIS
 PaperChem

GEOBASE
 GeoRef
 US Patents
 EP Patents

Quick


Expert

Thesaurus

Author

Affiliation

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Search v
Results v
Alerts
Selected records
More v
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SF

Engineering school profile

Stanford University


35,990 records in Compendex

Filter by: 2008 to 2019 AND Select subject Area

Reset filters

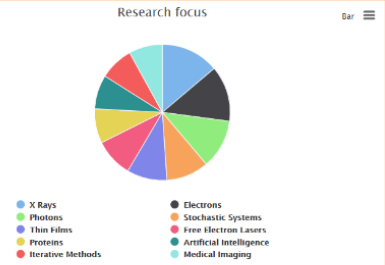
Institutions and Groups ?

Top authors




Author	Total documents
Ekn. Shrivastava	420
Choi, P.	344
Babu, Dattaram	318
Wang, H.-S. Phillip	291
Watanabe, Junho	265
Feng, M. M.	236
Tomey, Michael F.	231
Watanabe, Ryoichi K.	189
Nishi, Yoshio	176
Watanabe, Junzo &	170

Research focus




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

Funding sponsorship



Publishing trend



Year	Summits
2008	8,227
2009	8,385
2010	8,470
2011	8,569
2012	8,646
2013	8,649
2014	8,891
2015	8,616
2016	8,340

工院校Ei档案

综合基金、研究重点和综合情况做出基于数据的科学决策

基于EI Compendex数据库分析并回答：



基金来源



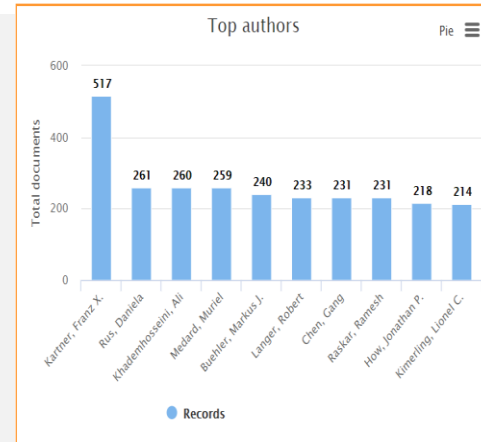
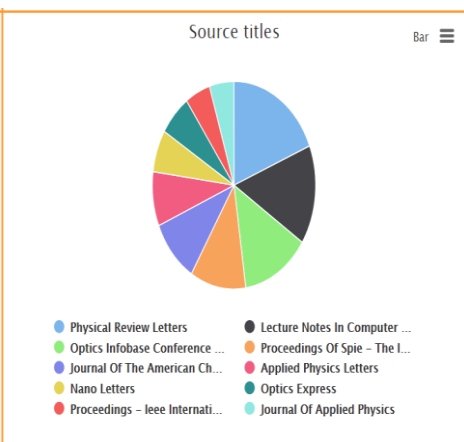
出版去向



主要科学家



最强学科



检索历史

- 可快速访问最近5个检索式
- 可链接到该对话期中所有的检索式
- 可简便地再次进行检索

全新的界面

Engineering Village™

The screenshot displays the Engineering Village search interface. At the top, the search bar contains the text 'alloys'. Below the search bar, there are navigation options: 'Databases', 'Date', 'Language', 'Document type', 'Sort by', and 'Browse indexes'. The main search results area shows '1641373 records found in Compendex & Inspec for 1884-2018: ((alloys) WN All fields)'. A 'Recent results' pop-up window is overlaid on the right side of the interface, listing the top 10 search results. The 'Results' tab in the navigation bar is highlighted with a red circle and shows a count of 10. The 'Recent results' window lists the following search results:

Rank	Search Query	Results
10.	((alloys) WN All fields)	1641373 results
9.	((((steel fatigue) WN All fields) AND ((fatigue cracks) WN CV))	7232 results
8.	((steel fatigue) WN All fields)	69085 results
7.	((((autonomous vehicles) WN All fields) AND ((path planning) WN CV))	5042 results
6.	((autonomous vehicles) WN All fields)	81488 results

Engineering Village



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

www.ei.org

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- 作者和机构检索 Author & Affiliation Search
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机构检索

基于Institution ID的检索, 提升查准性

← → ↻ <https://www.engineeringvillage.com/search/affil/affil.url?searchid=83829645c5064fd18432358fe8a4171e&COUNT=1> 🔍 ☆ 📄 🌐 🏠 🌐 🌐 🌐 🌐

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Engineering Village

Search ▾

Results ▾ ³⁶

Alerts ⁰

Selected records ⁰

Bulletins

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YL

Affiliation name:



Show exact matches only

* Searches are limited to affiliations within Compendex records

2 affiliation results in Compendex for Affiliation: "Renmin University of China"

1 of 1 pages

Display: 25 results per page

Sort by: Count (DESC)

Refine <<

By category

Country

- China (1)
- United States (1)

City

- Beijing (1)
- Oakland (1)

Name

Documents

City

1. **Renmin University of China**
Renmin University Of China

[View 5,223 records](#)

Beijing

2. **MOE. Renmin University of China**
MOE. Renmin University of China

[View 1 records](#)

Oakland



1 of 1 pages

Display: 25 results per page

Feedback

作者检索

基于ORCID的检索，提升查准性



Engineering Village

Search ▾

Results ▾ ³²Alerts ⁰Selected records ⁰

Bulletins

More ▾

? ▾

Library ▾

YL

Author last name:

Du

ORCID:

e.g. 1111-2222-3333-444x



Author first name:

Xiaoyong

Affiliation name:

Renmin University of China


 Show exact matches only | [Reset form](#)

* Searches are limited to authors within Compendex records

2 author results in Compendex for Last name: "Du", First name: "Xiaoyong", Affiliation: "Renmin University of China"

1 of 1 pages

Display: 25

 results per page

Sort by: Count (DESC)



Refine <<

By category ^

Source Title ^

 Lecture Notes In Computer Science Including Subseries Lecture Notes In Artificial Intelligence And Lecture Notes In Bioinformatics (2)

Name

Subject area

1. Du, Xiaoyong

Du, X.
Du, Xiao Yong

2. Du, Xiaoyong

Business, Management and Accounting; Computer Science; Decision Sciences; ...

Computer Science; Mathematics;



Affiliation

City

Country

Renmin University of China Beijing China

Renmin University of China Beijing China

EV特色

检索利器

- 1、有效筛选和分析：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、知识图谱：叙词词表及检索
- 3、为工程科研人员优化的数值检索功能
- 4、一键获取学校Ei收录概览：工科学术档案



帮助

Search ▾

Alerts ⁰

Selected records ⁰

More ▾



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ing) AND {social media}

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Treatment ▾

EnCompassLIT EnCompassPAT

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Quick search tutorial

Video help

售后服务

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