探索与突破：Engineering Village在工程领域文献调研及科研中的应用

ELSEVIER

内容目录：

EI数据库简介

大家是如何选择EI期刊的，有什么好的方法吗？

作者 ltj1992

来源: 小木虫　👁200　💬4　举报帖子

+关注

　　目前准备投国外期刊，因为手中的论文水平不是特别高，打算方向瞄准EI级别，但由于没有相关投稿经验，对于期刊的选取很是迷茫，专业是检测技术及自动化装置方向，求相关大牛不吝指教！ 返回小木虫查看更

wq576122117

导师不指点你吗

frogwangwang

我也有同样疑问

，

flylee1985

同问

swl7839

同问

会议ei论文，含金量怎么样？容易发掉吗？

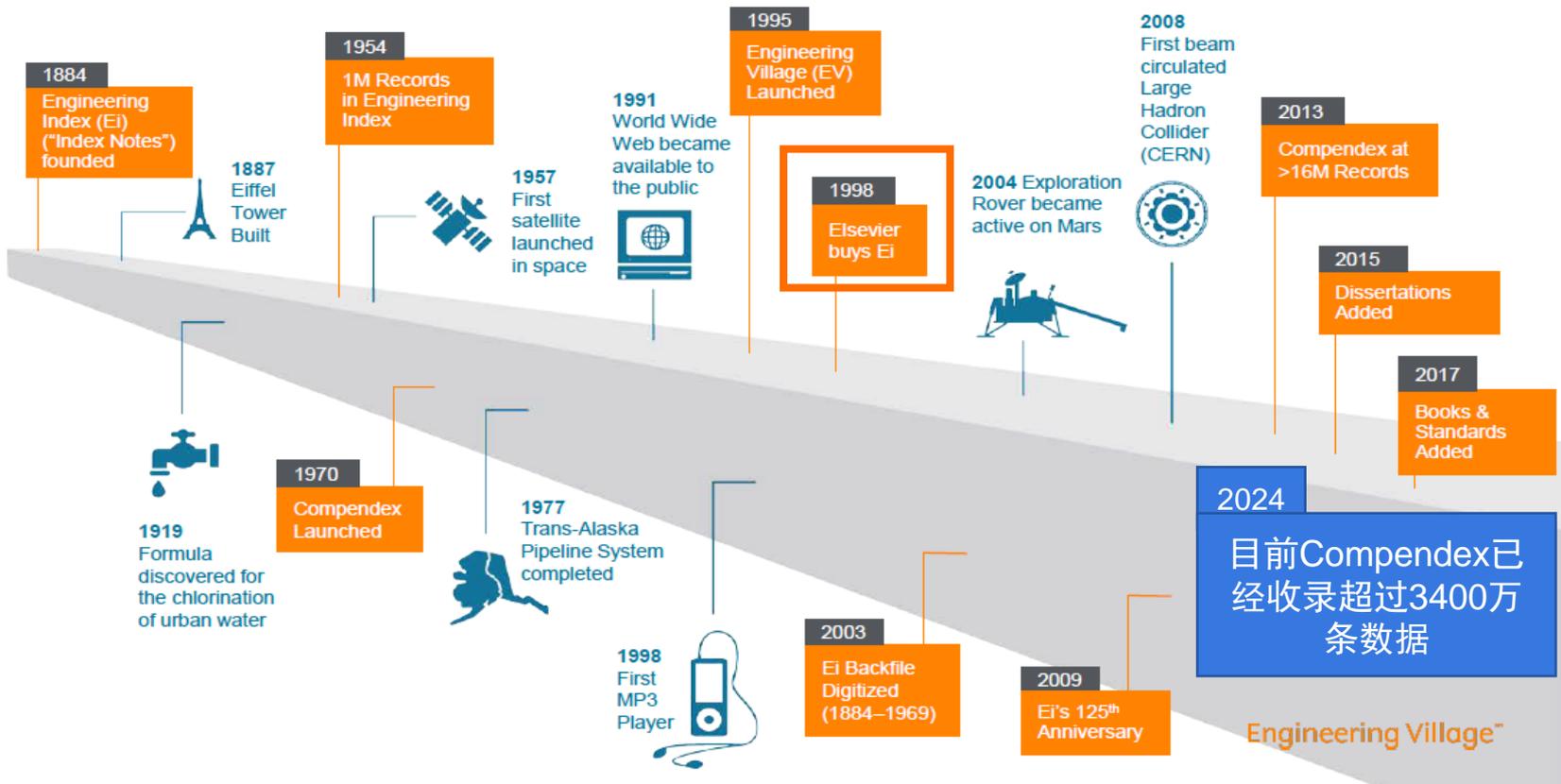|			
会议与征稿布告栏	**【2019-4-30】英文普刊长期征稿▉▉面向全科 当月见刊** 普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。众多优质ISTP,EI会议,期刊诚招代理，多篇多优惠，欢迎咨询！...	fengjiet	2019-04-18 02:28
会议与征稿布告栏	**[2019-06-10][EI检索]2019第三届工程设计和产品创新国际会议...** 他主持了几次国际会议和期刊，并应邀在世界各地发表主题演讲，并在全球几所大学工作过。...【不投稿的你也可以】（3个选择如下）：1,报告者：如果你只想参加会议并作报告，不出版论文，只需要...	sg8s40	2019-04-18 02:12
会议与征稿布告栏	**[2019-07-10][SCI]【牛津大学】2019年第四届先进材料研究与制造...** 2.优秀文章将提交出版在以下SCI期刊特刊中1)JournalofMaterialsandManufacturingProcesses:OnlineISSN:1532-24752)JournalofSurfaceEngineering:...【不投稿的你也可以来】（3个选择如下）：1...	ebubm96	2019-04-18 01:19
会议与征稿布告栏	**多本国外普刊长期征稿面向全科【月刊】** 2414-1895期刊官网：'http://www.ICJ-E.org'投稿邮箱：'...普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...	211827670	2019-04-18 01:40
会议与征稿布告栏	**【2019-04-30】【毕业保底】【基金项目结题】欧美港印英文【普刊...** 【sci检索期刊/ei检索期刊/sci摘要检索会议/ei会议/istp...普刊长期征稿，不送检ei，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...	dingbei170	2019-04-17 10:01
会议与征稿布告栏	**国际英文期刊征文-长期征稿** '美国《internationalcorejournalofengineering》(icje)...注：普刊长期征稿，不送检ei，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...	dswsk18	2019-04-17 09:21
会议与征稿布告栏	**多本国外普刊长期征稿面向全科【月刊】** 2414-1895期刊官网：'http://www.ICJ-E.org'投稿邮箱：'...普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...	进毁细4696	2019-04-17 02:19

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

1884
Engineering Index (Ei) ("Index Notes") founded

1887
Eiffel Tower Built

1954
1M Records in Engineering Index

1957
First satellite launched in space

1991
World Wide Web became available to the public

1995
Engineering Village (EV) Launched

1998
Elsevier buys Ei

2004 Exploration Rover became active on Mars

2008
First beam circulated Large Hadron Collider (CERN)

2013
Compendex at >16M Records

2015
Dissertations Added

2017
Books & Standards Added

1919
Formula discovered for the chlorination of urban water

1970
Compendex Launched

1977
Trans-Alaska Pipeline System completed

1998
First MP3 Player

2003
Ei Backfile Digitized (1884–1969)

2009
Ei's 125th Anniversary

2024
目前Compendex已经收录超过3400万条数据

Engineering Village™

Ei Compendex
是世界上涵盖面最广最完整的工程文献数据库

~**31.5M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

学术期刊

行业刊物

会议论文集

Ei Compendex

NEW

书籍/章节
系列书籍

博士毕业论文

NEW

NEW

技术标准
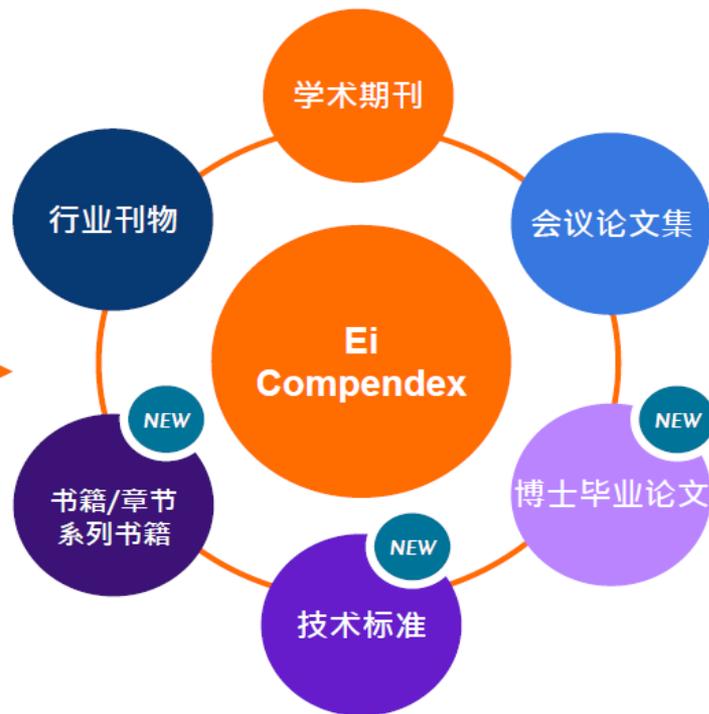
Engineering Village™

- 拥有13个专注专业文摘索引（A&I）数据库的平台

Ei
特
指

Ei Compendex
Ei Backfile
Inspec
Inspec Archive

GEOBASE
GeoRef

Chimica
CBNB

EnCompassLIT
EnCompassPAT

PaperChem

NTIS

USPTO
EPO
WIPO

Engineering Village™
The first choice for serious engineering research.

4·5 Star Review
for Content
from Charleston Advisor

2018 CODiE
Award Winner
—Best Content, Search,
Discovery & Analytics Solution

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

ELSEVIER

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Ei Compendex 资源概览
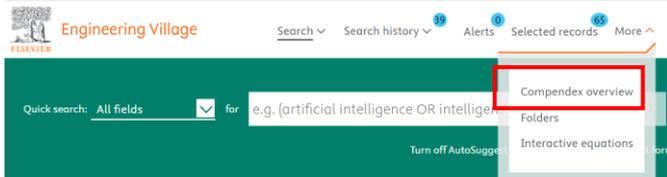
Publication Year

The number of documents for any particular year may vary due to content being added or removed from the Compendex database.

Year	Documents	Year	Documents
2023	1,809,977	2018	1,461,239
2022	1,760,321	2017	1,356,845
2021	1,674,747	2016	1,199,711
2020	1,591,706	2015	1,183,595
2019	1,569,018		

Conference proceeding: 0.4%
Standard: 0.7%
Book chapter: 0.9%
Dissertation: 1.0%
Preprint: 4.1%
Conference article: 32.4%
Journal article: 59.7%
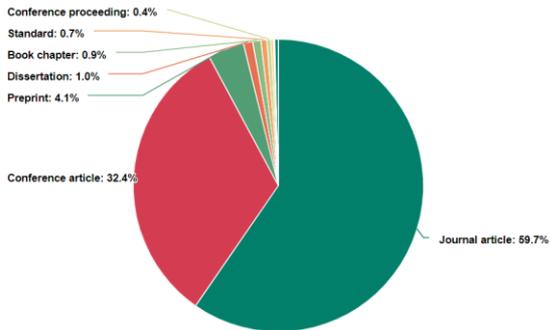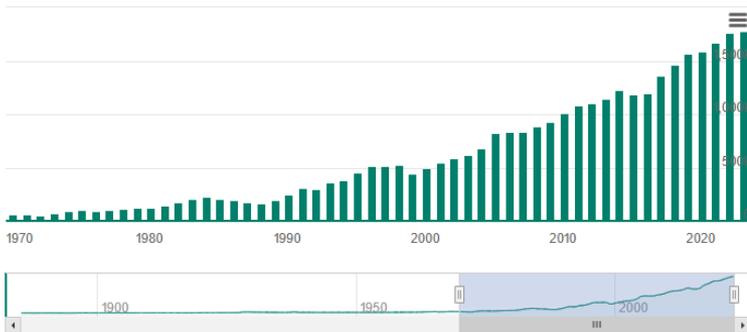
Subject areas

Subject area	Count
Chemical Engineering & Materials Science	12,056,311
Physics	9,923,205
Computer & Control Engineering	9,544,311
Electrical & Electronic Engineering	5,723,185
Civil Engineering	3,785,291
Mechanical Engineering	2,844,290
Aerospace	1,400,541
Petroleum Engineering	934,993
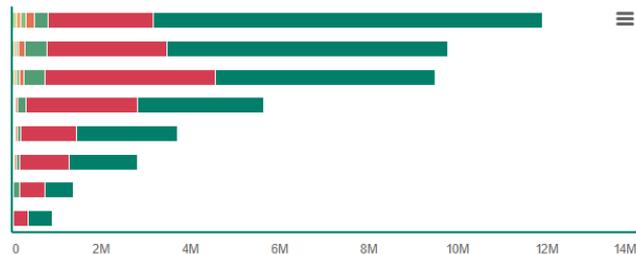
方法：数据库右上角-More-Compendex Overview

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

全文数据库 VS 文摘数据库

同一篇文献，在不同数据库中的呈现

沈阳工业大学EI收录论文趋势概览

工程研究档案 (Engineering Research Profile)

方法：Search-Engineering Research Profile-数据库界面左侧输入机构名称

弄清自己机构的工科类研究并追踪论文发表情况: 仅需单个界面

Engineering Village™

谁在发表？ 👤

Top authors — Pie ☰
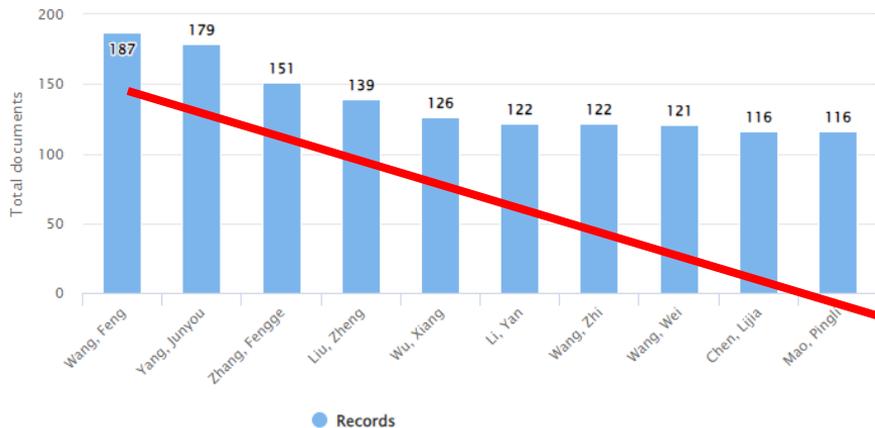
点击直接索引作者具体发文

187 records found in Compendex for 1884-2025: ((203181 WN INSTID) AND (2014-2025 WN YR) AND ({wang feng} WN au))

Create alert | Save search | Share search | RSS feed

Refine

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

Open Access		
All Open Access		9
Gold		5
Hybrid Gold		2
Bronze		2

Learn more ↗

✉ 🖨 ⬇ ⌄

1. ☐ Investigation of the physical characteristics of Bi4Ti3O12, Bi2
   Geng, Yunshuang (School of Science, Shenyang University of Technology, Sh
   October 2024
   Database: Compendex
   Document type: Journal article (JA)
   Show preview ⌄ **Full text** ↗ Check Local Full-text

2. ☐ Microstructure and mechanical properties of extruded Mg–Z
   Sha, Sha (School of Materials Science and Engineering, Shenyang Universi
   Liu, Boshu; Li, Shanshan; Tang, Yan Source: Journal of Materials Research an
   Database: Compendex
   Document type: Journal article (JA)
   Show preview ⌄ **Full text** ↗ Check Local Full-text

3. ☐ Investigation on the lattice vibration, mechanical properties
   from a first-principles calculations

最热的研究领域是什么？

Research focus (Bar)

Legend:
- Permanent Magnets
- Aluminum Alloys
- Finite Element Method
- Tensile Strength
- Synchronous Motors
- Microstructure
- Scanning Electron Microscopy
- Binary Alloys
- Magnesium Alloys
- Morphology

437 records found in Compendex for 1884-2025: ((203181 WN INSTID) AND (2014-2025 WN YR) AND ({aluminum alloys} WN cv))

[Create alert] [Save search] [Share search] [RSS feed]

Refine

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

Open Access

- All Open Access — 77
- Gold — 51
- Hybrid Gold — 3
- Bronze — 21

1. Influence of femtosecond laser textured shapes on the fricti...
   Li, Qiang (School of Mechanical Engineering, Shenyang University of Techno...
   Database: Compendex
   Document type: Journal article (JA)
   Show preview ⌄   [Full text ↗]   [Check Local Full-text]

2. Peculiar microstructure with high damping capacity for Al0...
   Wang, Hongding (School of Materials Science and Engineering, Shenyang U...
   Yinglei; Yu, Bo; Qiu, Keqiang Source: Journal of Alloys and Compounds, v 100...
   Database: Compendex
   Document type: Journal article (JA)
   Show preview ⌄   Cited by in Scopus (1)   [Full text ↗]   [Check Local Full-te...]

3. Significantly ameliorating room-temperature brittleness of...
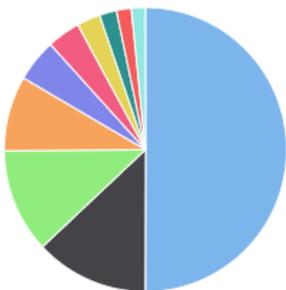   Han, Dona (Shenyana National Laboratory for Materials Science, Institute ...
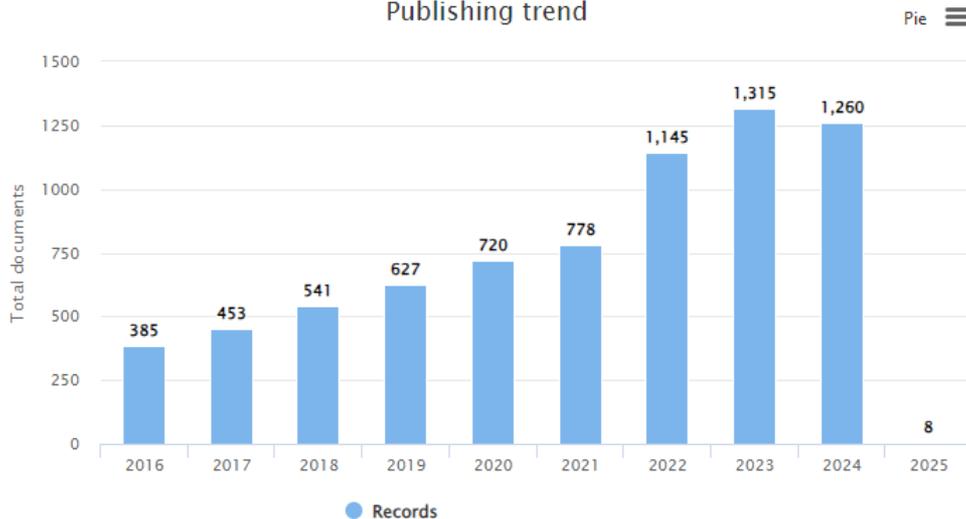
研究资助来自哪里？ 💲　　　论文发表趋势？📈

Funding sponsorship

- National Natural Science Fou...
- Department of Education of L...
- Liaoning Revitalization Talent...
- China Postdoctoral Science F...
- Department of Science and T...
- Natural Science Foundation o...
- National Key Research and D...
- Fundamental Research Funds...
- Program for Liaoning Innovat...
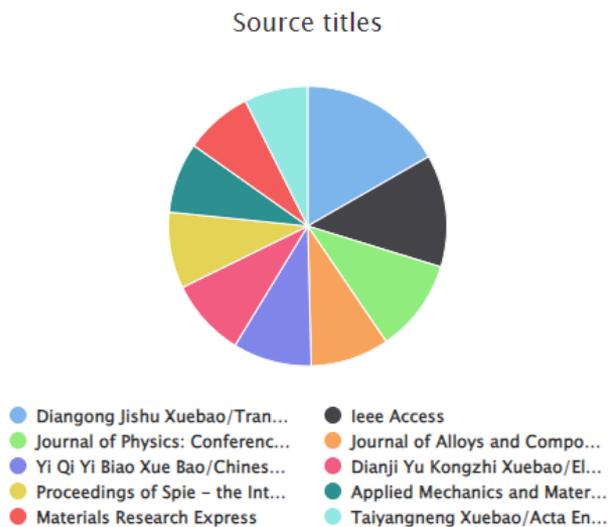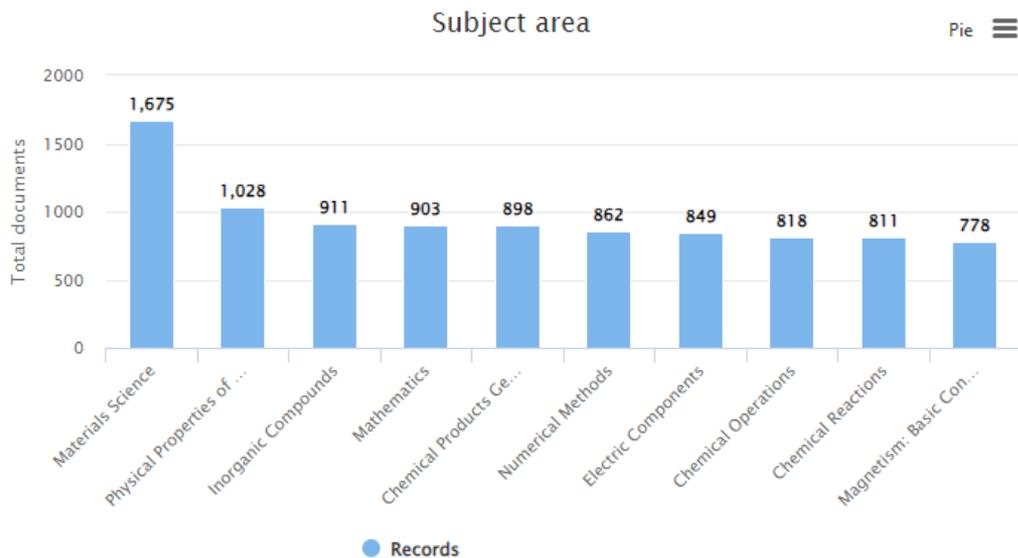- National Basic Research Prog...

Publishing trend　　　Pie ☰

Total documents

- 2016: 385
- 2017: 453
- 2018: 541
- 2019: 627
- 2020: 720
- 2021: 778
- 2022: 1,145
- 2023: 1,315
- 2024: 1,260
- 2025: 8

● Records

最热的研究主题是什么？ 📈 教职员在哪里发表论文？ 📖

Subject area

- Materials Science: 1,675
- Physical Properties of ...: 1,028
- Inorganic Compounds: 911
- Mathematics: 903
- Chemical Products Ge...: 898
- Numerical Methods: 862
- Electric Components: 849
- Chemical Operations: 818
- Chemical Reactions: 811
- Magnetism: Basic Con...: 778

Records

Source titles

- Diangong Jishu Xuebao/Tran...
- Ieee Access
- Journal of Physics: Conferenc...
- Journal of Alloys and Compo...
- Yi Qi Yi Biao Xue Bao/Chines...
- Dianji Yu Kongzhi Xuebao/El...
- Proceedings of Spie – the Int...
- Applied Mechanics and Mater...
- Materials Research Express
- Taiyangneng Xuebao/Acta En...

EI数据库在工科文献调研中的应用

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

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

26,241 records found in Compendex for 1884-2025: (((nanomaterials) WN KY) AND ((Elsevier) WN PN))

Create alert   Save search   Share search   RSS feed

- ◉ All Languages
- ◯ German
- ◯ Spanish
- ◯ Chinese
- ◯ Italian
- ◯ English
- ◯ Japanese
- ◯ French
- ◯ Russian

- ◉ All Document types
- ◯ Conference article
- ◯ Erratum
- ◯ Preprint
- ◯ Standard
- ◯ Article in Press
- ◯ Conference proceeding
- ◯ Journal article
- ◯ Report chapter
- ◯ Book
- ◯ Dissertation
- ◯ Note
- ◯ Report review
- ◯ Book chapter
- ◯ Editorial
- ◯ Patents (before 1970)
- ◯ Retracted

Author ↗   Author affiliation ↗   Classification code ↗   Controlled term ↗
Publisher ↗   Source title ↗

- ◉ All Treatments
- ◯ Experimental
- ◯ Management aspects
- ◯ Applications
- ◯ General review
- ◯ Numerical
- ◯ Biographical
- ◯ Historical
- ◯ Theoretical
- ◯ Economic
- ◯ Literature review
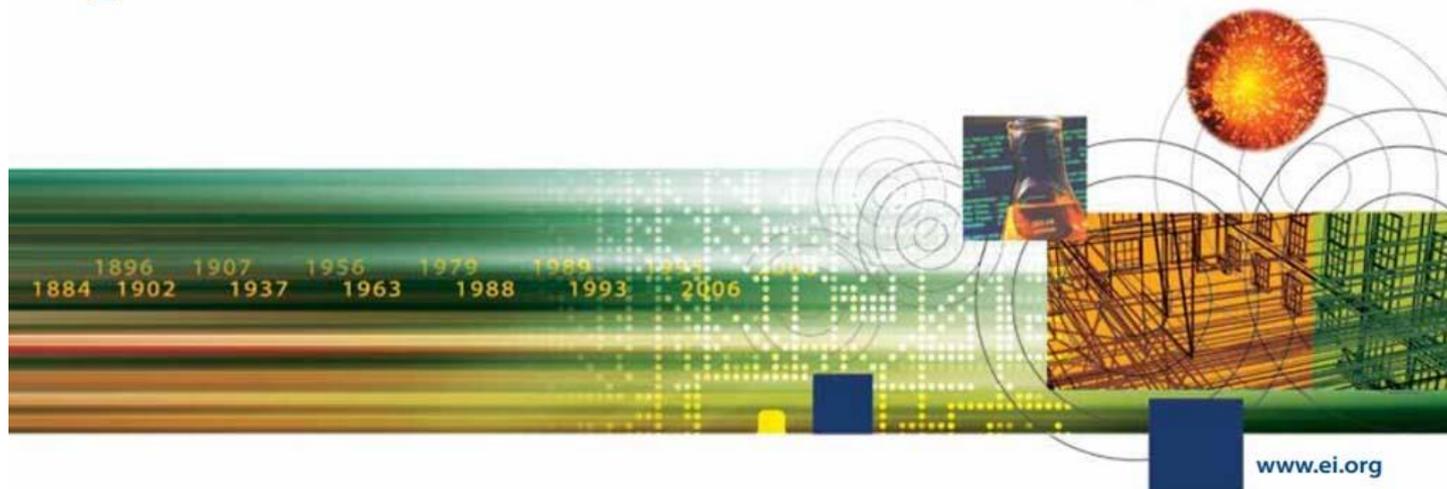
Expert Search – 专家检索

Engineering Village

Expert search:

e.g. ((ad*hoc networks WN CV OR wireless sensor networks WN CV) AND {protocols} WN ALL) AND (wireless WN PN OR network WN PN)

Reset form

Databases ⌄   Date ⌄   Sort by ⌄   Autostemming ⌄   Search codes ⌄   Browse indexes ⌄

☑ Compendex

Expert search:

e.g. ((ad*hoc networks WN CV OR wireless sensor networks WN CV) AND {protocols} WN ALL) AND (wireless WN PN OR network WN PN)

Reset form

Database

c   =

CC	= Conference code (c)	YR	= Publication year (c)
CF	= Conference information (c)	PN	= Publisher (c)
CV	= Controlled term/Subject Area (c)	ST	= Source title (c)
PU	= Country of application (c)	STDID	= Standard ID (c)
CO	= Country of origin (c)	KY	= Subject/Title/Abstract (c)
DOI	= DOI (c)	TI	= Title (c)
DT	= Document type (c)	TR	= Treatment type (c)
MH	= Main heading (c)	FL	= Uncontrolled term (c)
GFA	= Funding acronym (c)	VO	= Volume (c)
GFI	= Funding information (c)		
GFN	= Funding number (c)		

Expert Search – 专家检索

输入检索词汇和检索字段代码

检索代码

如何又快有准的找到目标文献

Expert search:

e.g. ((ad*hoc networks WN CV OR wireless sensor networks WN CV) AND {protocols} WN ALL) AND (wireless WN PN OR network WN PN)

Res

| Databases ⌄ | Date ⌄ | Sort by ⌄ | Autostemming ⌄ | Search codes ⌃ | Browse indexes ⌄ |

Database	Code = Field		Code = Field	
c = Compendex	AB	= Abstract (c)	GAG	= Funding sponsor (c)
	ACT	= Access type (c)	BN	= ISBN (c)
	AN	= Accession number (c)	SN	= ISSN (c)
	AF	= Affiliation/Assignee (c)	SU	= Issue (c)
	ALL	= All fields (c)	LA	= Language (c)
	AU	= Author/Inventor (c)	NU	= see Numerical Data Codes (c)
	CL	= Classification code (c)	PA	= Patent application date (c)
	CN	= CODEN (c)	PI	= Patent issue date (c)
	CC	= Conference code (c)	PM	= Patent number (c)

Expert search:

(Semiconductor wn TI and jilin university wn AF)

🔍

Reset form

1. [ ] **A semiconductor-electrochemistry model for design of high-rate Li ion battery**

Zhang, Wei (Key Laboratory of Mobile Materials MOE, and School of Materials Science & Engineering, and International Center of Future Science, and Electron Microscopy Center, Jilin University, Changchun; Jilin; 130012, China); Wang, Dong; Zheng, Weitao
Source: *Journal of Energy Chemistry*, v 41, p 100-106, February 2020
Database: Compendex
Document type: Journal article (JA)
Detailed   Show preview ⌄   **Full text** ↗

2. [ ] **Semiconductor metal oxides as chemoresistive sensors for detecting volatile organic compounds** (*Open Access*)

Lin, Tingting (College of Instrumentation and Electrical Engineering, Jilin University, Changchun; 130061, China); Lv, Xin; Hu, Zhinen Xu, Aoshu; Feng, Caihui Source: *Sensors (Switzerland)*, v 19, n 2, January 2, 2019
Database: Compendex
Document type: Journal article (JA)
Detailed   Show preview ⌄   Cited by in Scopus (6)   **Full text** ↗

Feedback 💬

5. [ ] **Theoretical calculation and experimental study of the electronic structure and catalysis of defected semiconductor**

Li, Ji (Key Laboratory of Functional Materials Physics and Chemistry of the Ministry of Education, Jilin Normal University, Siping; 136000, China); Shen, Jason Source: *Physica E: Low-Dimensional Systems and Nanostructures*, v 108, p 399-403, April 2019
Database: Compendex
Document type: Journal article (JA)
Detailed   Show preview ⌄   **Full text** ↗

11. ☐ **Effect of Surface Trap States on Photocatalytic Activity of Semiconductor Quantum Dots**

Zou, Haoyang (College of Physics, Jilin University, Changchun; 130012, China); Dong, Chunwei; Li, Suyu; Im, Chan; Jin, Mingxing; Yao, Shiyu; Cui, Tian; Tian, Wenjing; Liu, Yi; Zhang, Hao Source: *Journal of Physical Chemistry C*, v 122, n 17, p 9012-9319, May 3, 2018
Database: Compendex
Document type: Journal article (JA)
Detailed   Show preview ⌄   Cited by in Scopus (2)   **Full text ↗**

12. ☐ **Tunable spin waves in diluted magnetic semiconductor nanoribbon**

Lyu, Pin (Department of Physics, Jilin University, Changchun; 130012, China); Zhang, Jun-Yi Source: *Journal of Applied Physics*, v 123, n 1, 2018
Database: Compendex
Document type: Journal article (JA)
Detailed   Show preview ⌄   **Full text ↗**

13. ☐ **Interlayer coupling in two-dimensional semiconductor materials**

Shi, Zhiming (Key Laboratory of Automobile Materials of MOE, College of Materials Science, Jilin University, Changchun; 130012, China); Wang, Xinjiang; Sun, Yuanhui; Li, Yawen; Zhang, Lijun Source: *Semiconductor Science and Technology*, v 33, n 9, August 17, 2018
Database: Compendex
Document type: Journal article (JA)
Detailed   Show preview ⌄   Cited by in Scopus (5)   **Full text ↗**

Expert search: (Semiconductor wn TI and jilin onear/0 university wn AF)

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**

Boolean language search

布尔语言搜索

AND	默认算符，要求多个检索词同时出现在文章中
OR	检索词中的任意一个或多个出现在文章中
AND NOT	后面所跟的词不出现在文章中
通配符 *	取代单词中的任意个（0,1,2...）字母 如transplant* 可以检索到transplant, transplanted, transplanting...
通配符?	取代单词中的1个字母 如wom?n 可以检索到woman, women
W/n PRE/n	两词相隔不超过n个词，词序不定　quick w/3 response 两词相隔不超过n个词，词序一定　quick pre/2 response
""	宽松短语检索，标点符号、连字符、停用字等会被自动忽略 "heart-attack"
{ }	精确短语检索，所有符号都将被作为检索词进行严格匹配 {c++}

在EI库中查计算机层析用于火箭无损检测方面的文献

确定概念：计算机层析，火箭，无损检测

概念的逻辑表达式：计算机层 and 火箭 and 无损检测

确定英文检索词：

计算机层析：Computerized Tomography

火箭：Rocket*、Propellant*

无损检测：Nondestructive examination

检索式：

((Computerized Tomography) and (Rocket* or Propellant*)

and (Nondestructive examination)) wn ky

Expert search: | e.g. ((ad*hoc networks WN CV OR wireless sensor networks WN CV) AND {protocols} WN ALL) AND (wireless WN PN OR network WN PN)

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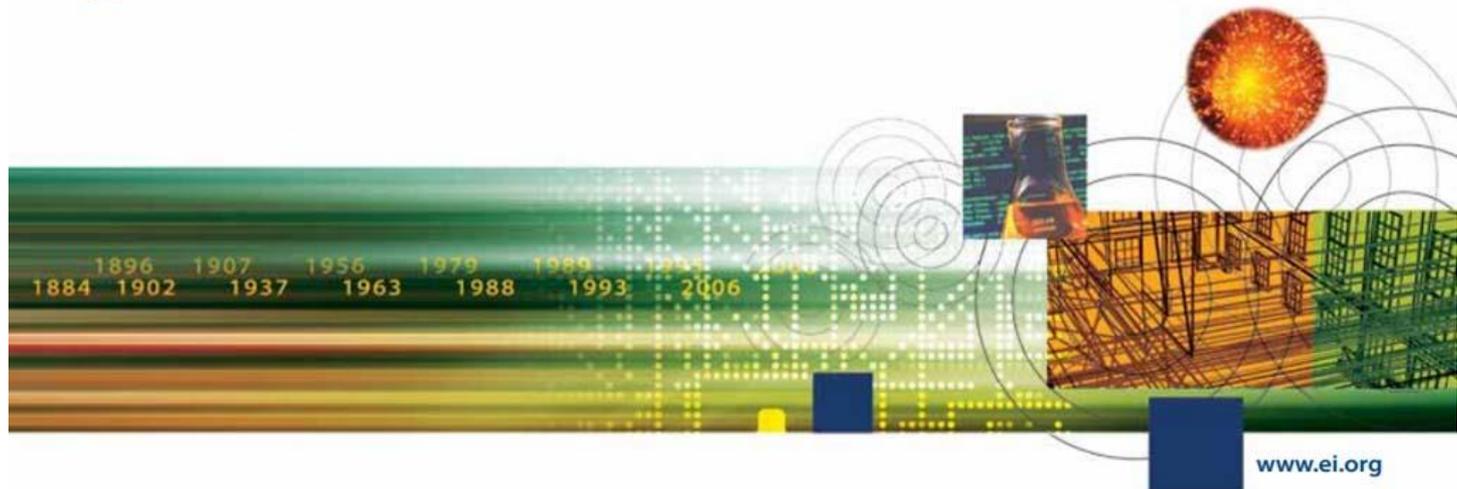
Thesaurus Search – 叙词检索

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。**

- 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
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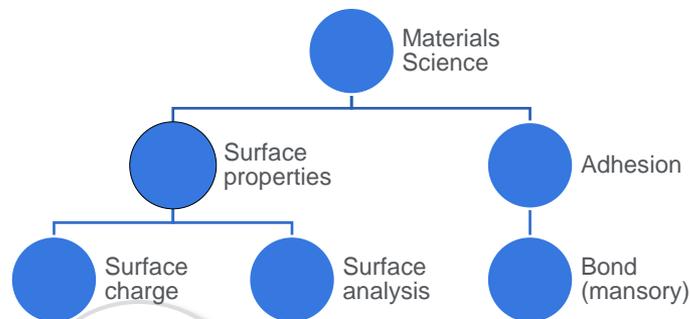
THESAURUS词库-Beverages（饮料）

- **Broader Term 广义词**

- **Related Term 相关词**

- **Narrow Term 狭义词**

Food products

Bottling plants

Dairy products

Fruit juices

Cocoa

Casein
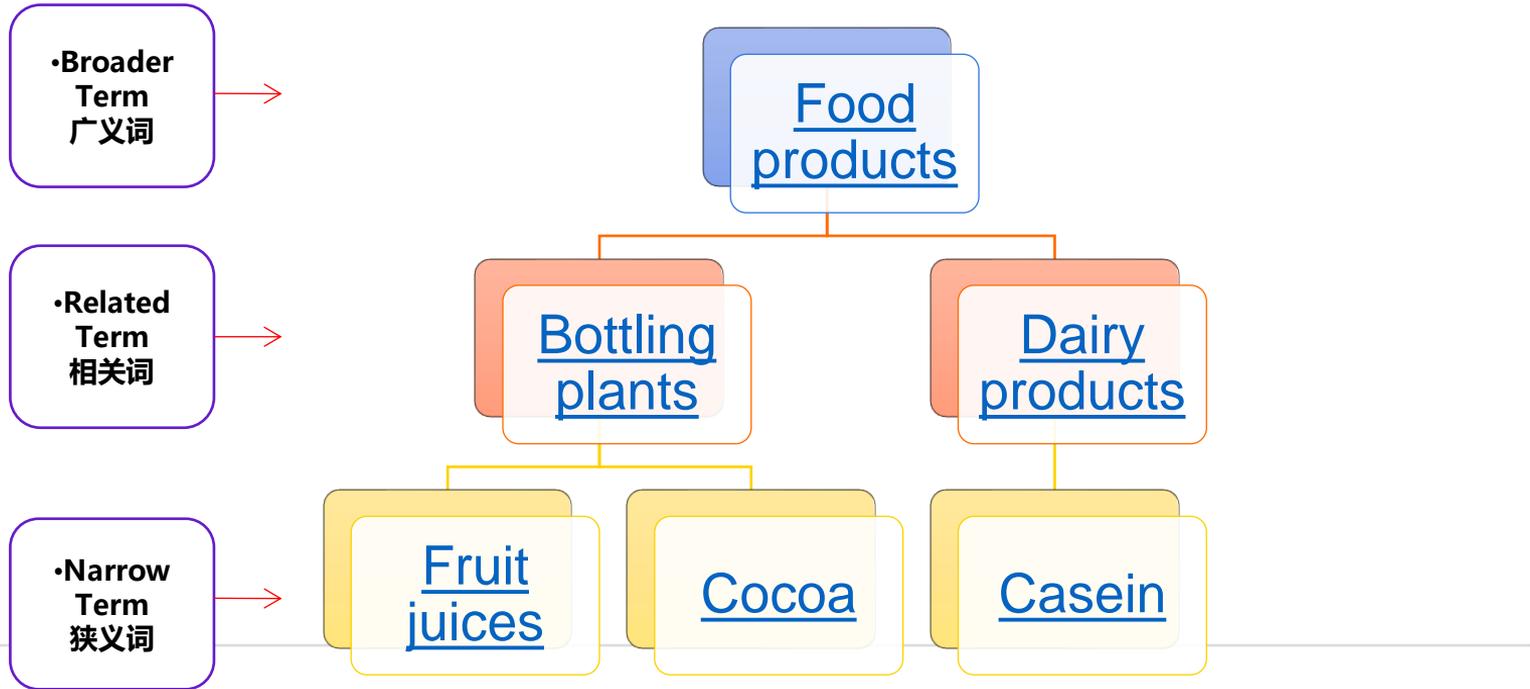
叙词检索Thesaurus Search：迅速高效了解新领域

叙词索引将拓展出关键词的：
1.广义词
2.相关词
3.狭义词
可直接勾选进行组合检索

索引实现精确搜索和检索

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

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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

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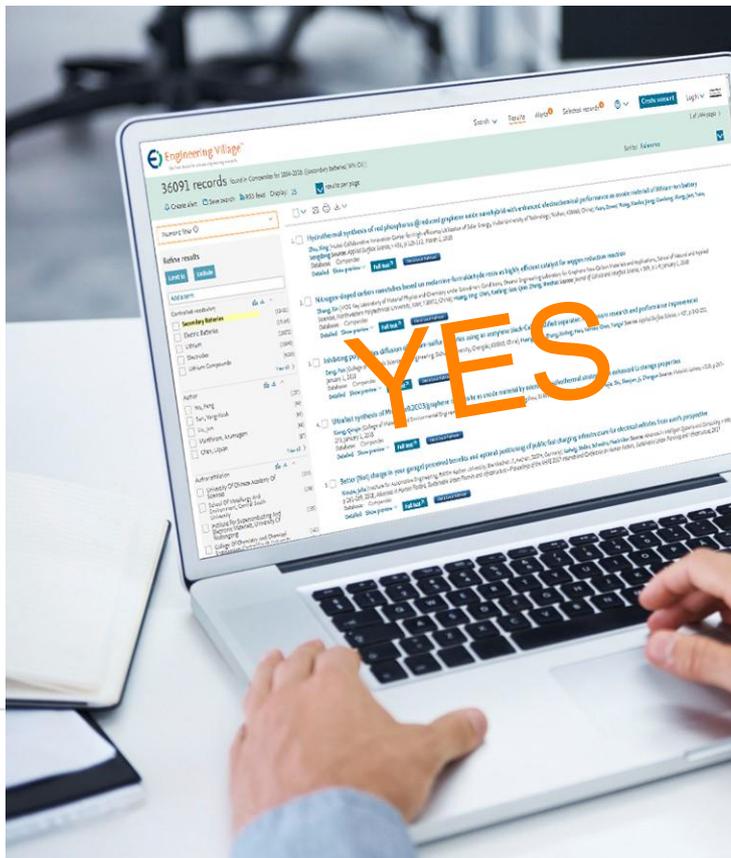
工程师只需通过叙词表中的 "Secondary batteries" 在Engineering Village上检索所需结果

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Quick search

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Rechargeable batteries

Recommended terms: Secondary batteries

Recharging (underground waters)

AutoSuggest Powered by Ei Thesaurus

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索引结果在科研及投稿上的分析与利用

一、文献收集重点-文献调研阶段

导师给定方向后泛调研

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）

此页引自清华大学图书馆钱俊雯《开题与立项前的文献调研概述（理工类）》

二、论文的选择：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。

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

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。
- ☐ 通过本领作者发文量域重要国际会议中的特邀报告人信息获得。

五、阅读重点文献——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. ☐ **Heavy Metal Removal from Aqueous Effluents by TiO2and ZnO Nanomaterials** *(Open Access)*

Sosa Lissarrague, Matías H. (Instituto de Química Del sur (IN[ ]o de Química, Universidad Nacional Del Sur, Av. Alem 1253, Bahía Blanca; 8000, Argentina); **Alsheh[ ]** **Verónica L.**; **López Corral, Ignacio**
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引文信息

17. ☐ **Nanomaterials-Based Nanochannel Membrane for Osmotic Energy Harvesting**

Li, Shangzhen (Research Institute of Membrane Separation Technology of Shaanxi Province, Key Laboratory of Membrane Separation of Shaanxi Province, School of Environmental & Municipal Engineering, Xi'an University of Architecture and Technology, No. 13 Yan Ta Road, Xi'an; 710000, China); **Wang, Jin**; **Lv, Yongtao**; **Cui, Zheng**; **Wang, Lei Source:** Advanced Functional Materials, v 34, n 4, January 22, 2024
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- 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？(Controlled vocabulary, Claasification code, ICS code)
- 了解课题所处的生命周期，通过文献计量的年代分析？(Year)
- 了解课题的热门期刊，作为投递文章的选择？(Source title, Publisher)
- 通过文献类型了解论文的分布？(Document Type)

控制词汇

Controlled vocabulary

Water	(76175)
Mathematical Models	(72140)
Computer Simulation	(57816)
Soils	(53764)
Water Quality	(48305)

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作者

Author

Wang, Wei	(1194)
Zhang, Wei	(1139)
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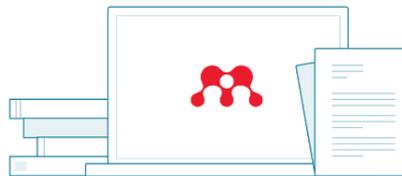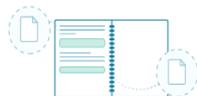
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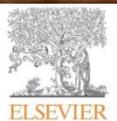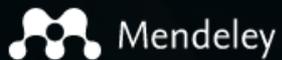
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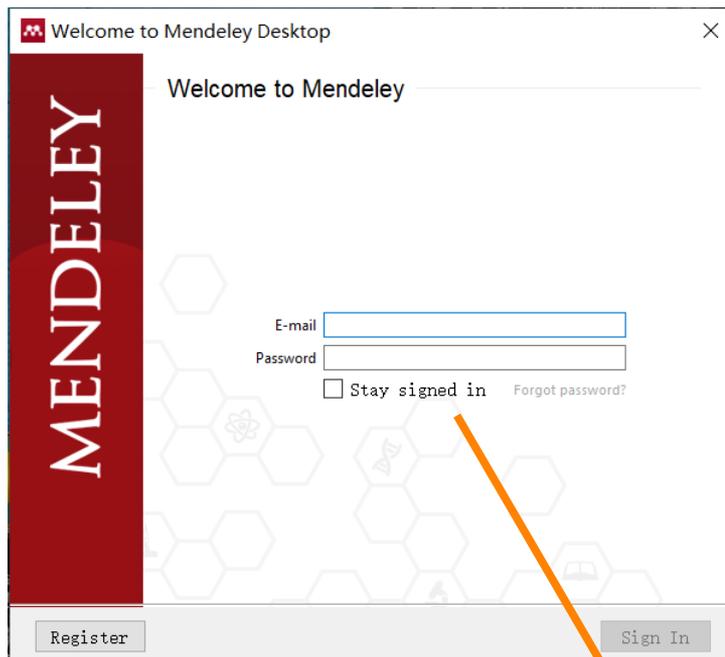
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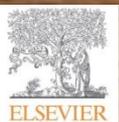
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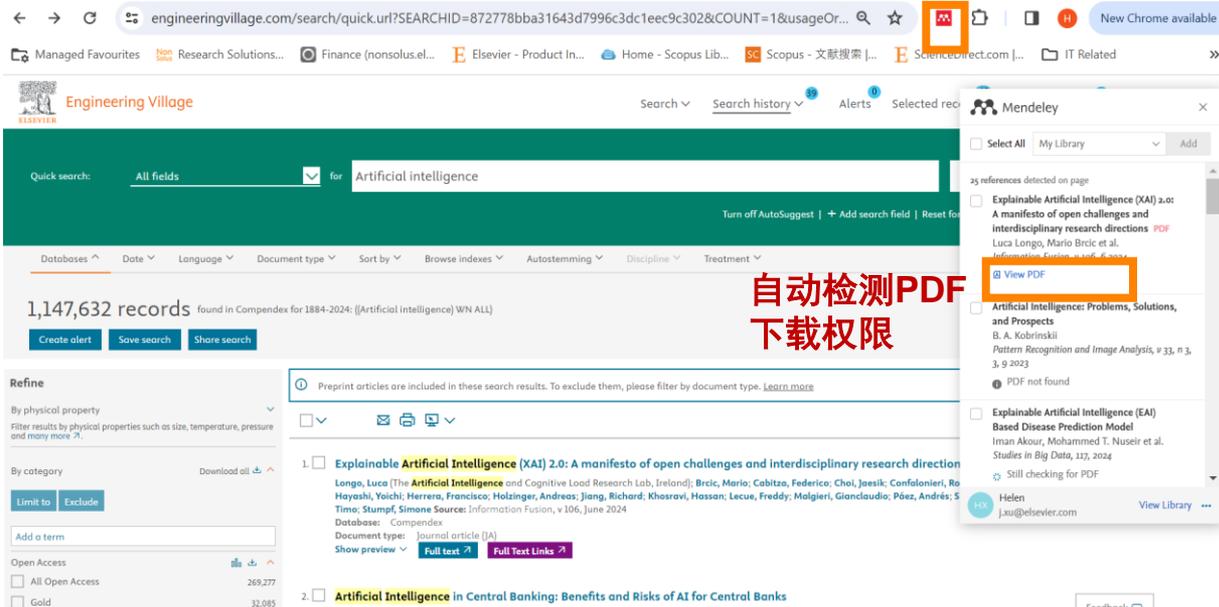
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In this review, a group of two-dimensional (2D) hydrogen-bonded supramolecular networks developed in our laboratory are discussed[1–3]. Our attention is mainly focused on: (1) recognition of Fe^{3+} through two-component molecular network[1,3–5]; (2) site-selective fabrication of 2D fullerene arrays; and (3) fabrication of the nanoporous structure regulated by photoisomerization reaction process.

[1]   M.C. Huang, H.Y. Xu, H. Yu, H.L. Zhang, M. Micheal, X.H. Yuan, H.A. Wu, Fast prediction of methane adsorption in shale nanopores using kinetic theory and machine learning algorithm, Chemical Engineering Journal. 446 (2022). https://doi.org/10.1016/j.cej.2022.137221.

[2]   H. Haarstad, S. Sareen, J. Kandt, L. Coenen, M. Cook, Beyond automobility? Lock-in of past failures in low-carbon urban mobility innovations, Energy Policy. 166 (2022) 113002. https://doi.org/10.1016/J.ENPOL.2022.113002.

[3]   H. Kim, D.-W. Kim, M.-K. Kim, Economics of charging infrastructure for electric vehicles in Korea, Energy Policy. 164 (2022) 112875. https://doi.org/10.1016/J.ENPOL.2022.112875.

[4]   K. Hayakawa, Recent development of covariance structure analysis in economics, Econom Stat. (2021). https://doi.org/10.1016/J.ECOSTA.2021.10.002.

[5]   D.W. Hands, The many faces of unification and pluralism in economics: The case of Paul Samuelson's Foundations of Economic Analysis, Stud Hist Philos Sci. 88 (2021) 209–219. https://doi.org/10.1016/J.SHPSA.2021.06.008.
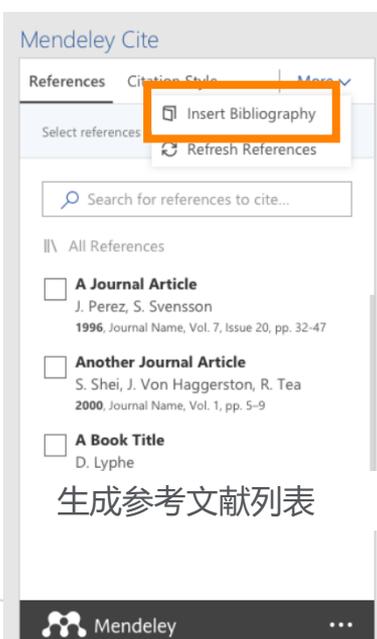
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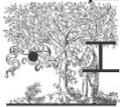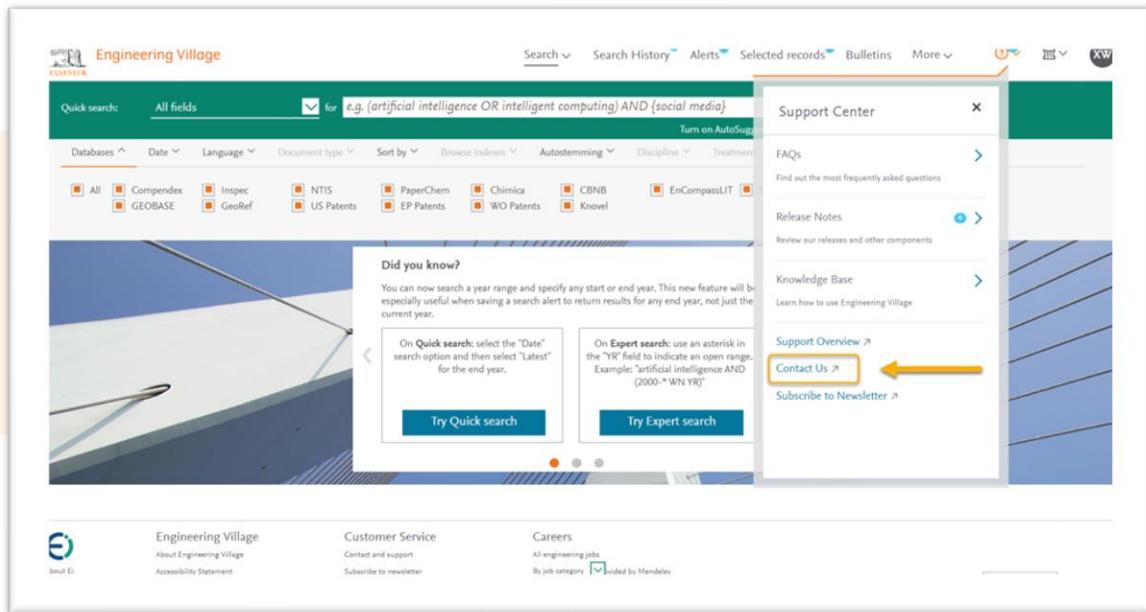https://service.elsevier.com/app/contact/supporthub/engineering-village-content/

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- 工作日：9:00-12:00，13:00-18:00（中文支持）

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