

Engineering Village

开展工程领域研究的首选方案

Ei Compendex

李海舰 博士 爱思唯尔资深培训师

2024



ELSEVIER

内容目录:

1. EI数据库简介
2. EI数据库文献检索过程
3. EI数据库在工科文献调研中的应用
4. 索引结果在科研及投稿上的分析与利用
5. 科研机构在工程领域上的科研产出分析



EI数据库简介

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

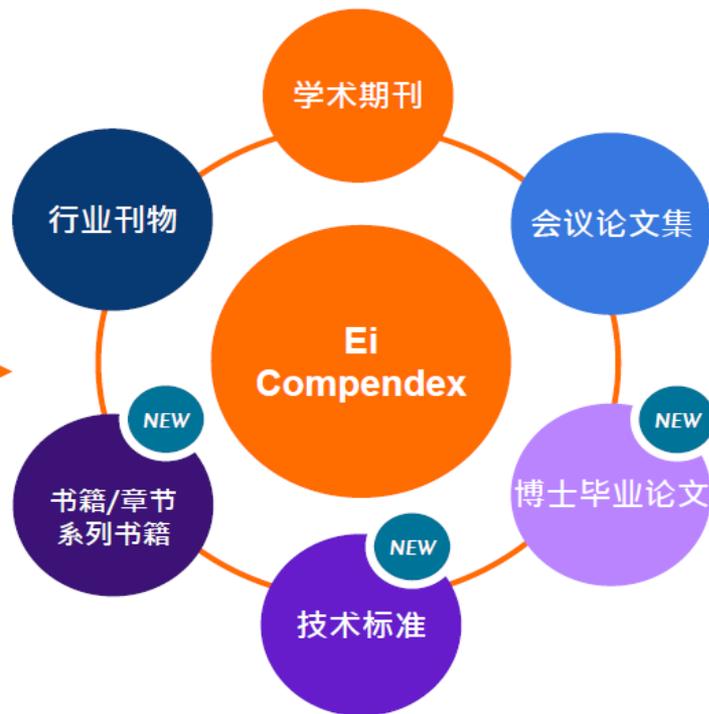
1970年至今



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

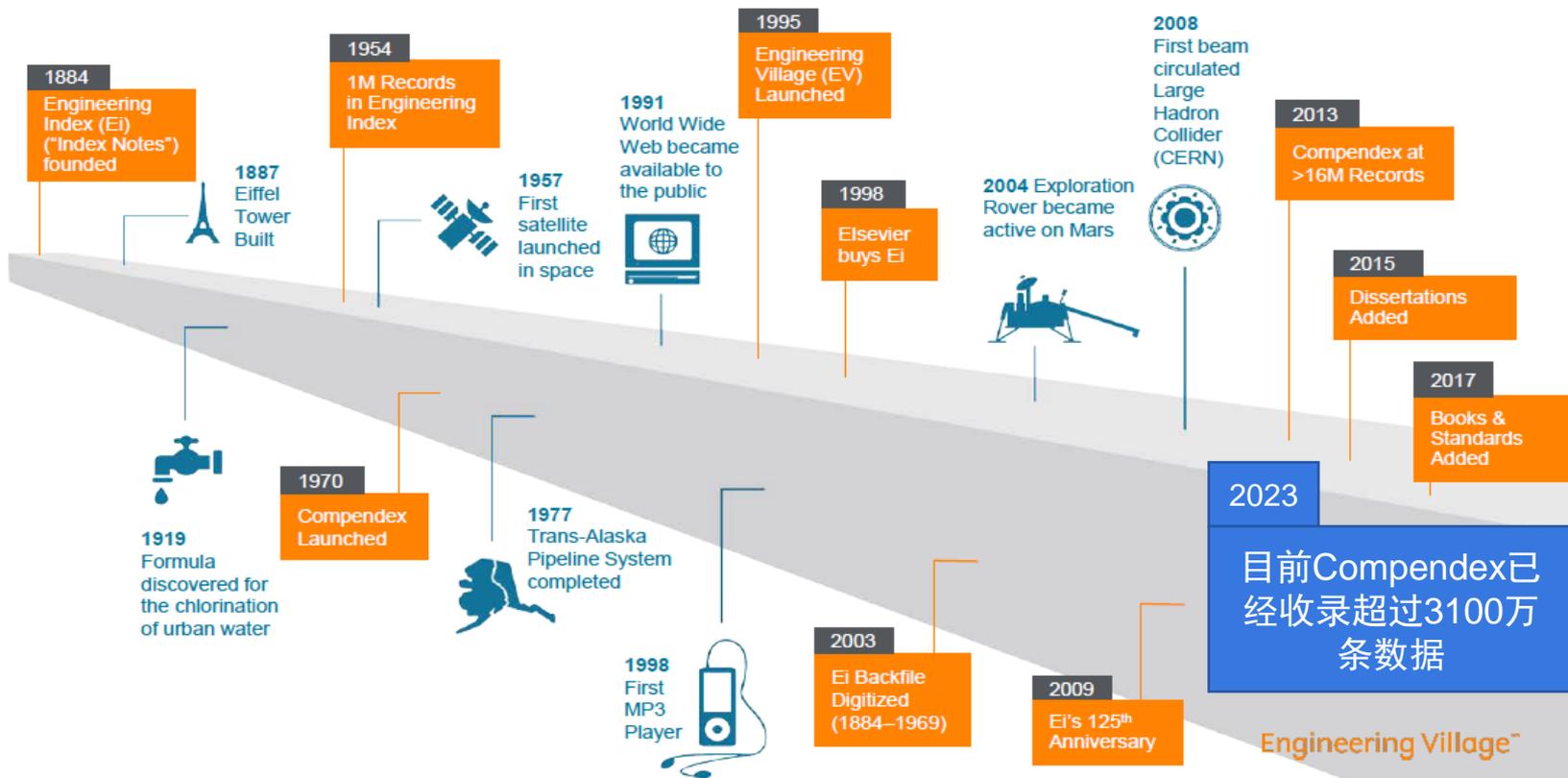


<https://www.engineeringvillage.com/>

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)

Ei Compendex
Ei Backfile
Inspec
Inspec Archive

GEOBASE
GeoRef

Chimica
CBNB

EnCompassLIT
EnCompassPAT

PaperChem

NTIS

USPTO
EPO
WIPO

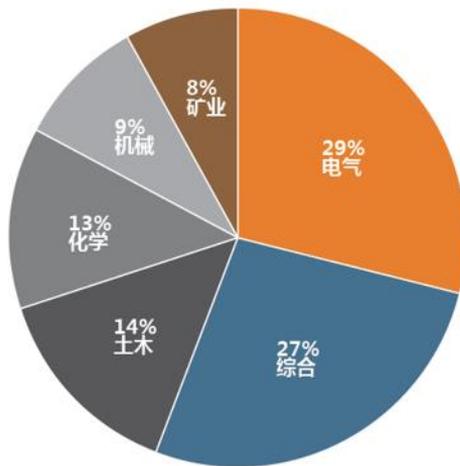


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Ei Compendex 工程学科领域

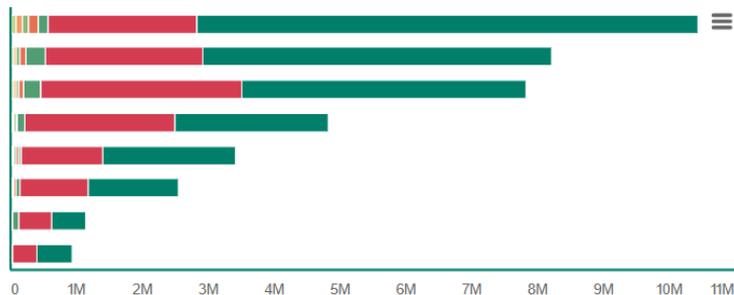
Ei Compendex 相关领域

- 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



Chemical Engineering & Materials Science	10,609,335
Physics	8,357,599
Computer & Control Engineering	7,897,702
Electrical & Electronic Engineering	4,906,811
Civil Engineering	3,490,884
Mechanical Engineering	2,579,713
Aerospace	1,172,806
Petroleum Engineering	963,006

石油工程



EI数据库的文献检索过程

<https://library.cup.edu.cn/>

电子资源

常用中文数据库

[更多 >](#)

-  CNKI中国学术期刊网
2433934
-  学位论文: 本校硕博论文库(2005年后)
2118913
-  万方数据知识服务库
321430
-  超星读秀
119032
-  口语伙伴
106171

常用外文数据库

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704446
-  SCI科学引文索引 (Web Of Science平台)
587625
-  SPE OnePetro
221986
-  SpringerLink数据库
180490
-  EI Village
134695

<https://library.cup.edu.cn/>

数据库名称	El Village
访问地址	http://www.engineeringvillage.com/
资源语种	外文数据库
资源类型	期刊论文 已购数据库
学科	理学 地球物理与信息 机械储运 化学工程 石油工程地球科学
咨询方式	电话: 89731759 邮箱: wangxiaona@cup.edu.cn
数据库介绍	<p>教学课件: EI</p> <p>《EI》(工程索引, Engineering Index) 创刊于1884年, 是美国工程信息公司出版的著名工程技术类综合性检索工具。目前, Engineering Village 平台集成了多个数据库, 其中核心数据库为EI Compendex。</p> <p>EI Compendex选用世界上工程技术类期刊5600多种期刊、行业杂志、会议录(22%)和技术报告的参考资料及摘要; 收录文献几乎涉及工程技术各个领域。如石油、应用物理、电子、自动控制、机械制造、土木、化学和工艺、材料等学科。它具有综合性强、资料来源广、地理覆盖面广、报道量大、报道质量高、权威性强等特点。</p> <p>EI Compendex是全世界最早最全面的工程文摘来源, 收录自1969年以来的期刊、会议录、科技报告等文摘信息。</p> <p>收录年限: 1969年-至今</p>
页面信息	发布时间: 2012-05-10 02:30:00 浏览:134696次



Quick search: All fields for e.g. (art

Essential search

Quick Search

Expert Search

Thesaurus Search

Explore & find

Author

Affiliation

Conference Series Beta

Analytical search

Engineering Research Profile

t computing) AND {social media}

Turn off AutoSuggest | + Add search field | Reset form

Databases [^] Date ^v Language ^v Document type ^v Sort by ^v

Compendex

g ^v Discipline ^v Treatment ^v

检索方式

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



1884 1896 1902 1907 1937 1956 1963 1979 1988 1989 1993 1998 2006

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Quick Search – 快速检索

页面介绍

功能列：快速检索、专家检索、词库检索

Search

Results

Alerts

Selected records

?

Quick search

Search in:

All fields

for

Search for... e.g. transcription factors AND jon smith

限制条件、排序选项

增加检索字段

Turn off AutoSuggest

+ Add search field

Reset form

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

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

选择数据库

Ei

Engineering Village

Customer Service

About Ei

About Engineering Village

Contact and support

History of Ei

Accessibility Statement

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Content Available

Blog

Who uses EV?

Twitter

Privacy matters

ELSEVIER [Terms and Conditions](#) [Privacy Policy](#)



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页面介绍

The image shows a search interface with a green header. The search bar contains the text: `e.g. (artificial intelligence OR intelligent computing) AND {social media}`. Below the search bar, there are three rows of search criteria, each with a dropdown menu for the operator and a dropdown for the field. The first two rows have "AND" selected, and the third row has "AND" selected and highlighted with a red box. A dropdown menu is open for the third row, showing options: "All fields", "Subject/Title/Abstract", "Abstract", "Author", "First author", and "Author affiliation".

Below the search bar, there are several filters: "Databases ^", "Compendex", "Sort by ^", "Browse indexes ^", "Autostemming ^", "Discipline ^", and "Treatment ^".

A callout box titled "Did you know?" is overlaid on the bottom right. It contains two tips:

- On **Quick search**: select the "Date" search option and then select "Latest" for the end year.
- On **Expert search**: use an asterisk in the "YR" field to indicate an open range. Example: "artificial intelligence AND (2000-* WN YR)"

Buttons for "Try Quick search" and "Try Expert search" are located below the tips.

以关键词“controller”检索：结果页面



Engineering Village

Search

Search history

Alerts

Selected records

More



Create account

Sign in

Quick search: All fields



for controller



Suggested terms:

Quality Control

Controllers

Mathematical Models

Computer Simulation

Optimization

+ Add search field | Reset form

Databases

Date

Language

Document type

Sort by

Relevance

5,786,293 records

found in Compendex for 1884-2023: ((controller) WN ALL)

1 of 231,452 pages

Create alert

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RSS feed

数据精炼功能

Sort by: Relevance



Refine



Preprint articles are included in these search results. To exclude them, please filter by document type. [Learn more](#)



By physical property

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

By category

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Exclude

Add a term

Open Access

All Open Access

(934,032)

Gold

(247,748)

Hybrid Gold

(94,682)

- 图表显示
- 导出数据
- 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

输入关键词开启新的检索

ELSEVIER

点击对应论文标题→经过整理的记录：详细格式

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

Full text BUT Holding SFX Share Export Print Cite Folders

Compindex · Journal article (JA)
Design of a model-free controller based on predictive functional control

Electronics and Communications in Japan, Volume 107, Issue 1, March 2024

Ashida, Yoichiro^[1] ; Katayama, Masaru^[1]

Corresponding author: Ashida, Yoichiro

Author affiliation:

[1] Department of Electrical Engineering and Computer Science, National Institute of Technology, Matsue College, Matsue, Japan

Abstract

Intelligent-PID (i-PID) control proposed by Fliess is a simple control algorithm. The controller is designed based on ultra-local model, and consisted of PID type controller and derivatives of reference signal and controlled variables. Authors have considered discrete i-PID controller and its properties, and one of the result was that PD controller was sufficient in discrete time domain. In discrete i-PID controller, PD type controller is still required to ensure convergence of controlled error to zero, and PD type parameters affects convergence property, fast-response property and stability. In this paper, predictive functional control (PFC) based on an ultra-local model is proposed. By introducing of PFC, controlled variable converge to reference value without PD type controller. User-specified parameters of the proposed controller is smaller than the conventional i-PID controller. Characteristics of the proposed controller are compared with discrete i-PID controller by numerical examples.
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点击对应论文标题→经过整理的记录：详细格式

□ Compendex · Journal article (JA)
Design of a model-free controller based on predictive functional control

Electronics and Communications in Japan, Volume 107, Issue 1, March 2024

Ashida, Yoichiro^[1] ✉; Katayama, Masaru^[1]

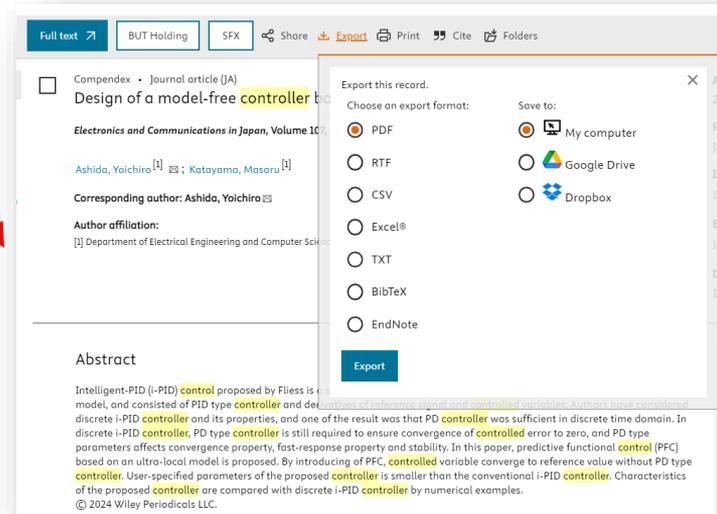
Corresponding author: Ashida, Yoichiro ✉

Author affiliation:

[1] Department of Electrical Engineering and Computer Science, National Institute of Technology, Matsue College, Matsue, Japan

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The screenshot shows a software interface with a document viewer on the left and an 'Export this record.' dialog box on the right. The document viewer displays the same article information as the left panel, including the title, journal name, authors, and affiliation. The dialog box has a title bar with a close button (X) and contains two sections: 'Choose an export format:' and 'Save to:'. Under 'Choose an export format:', there are radio buttons for PDF (selected), RTF, CSV, Excel®, TXT, BibTeX, and EndNote. Under 'Save to:', there are radio buttons for 'My computer' (selected), Google Drive, and Dropbox. An 'Export' button is located at the bottom of the dialog box.

1884 1896 1902 1907 1937 1956 1963 1979 1988 1989 1993 1998 2006

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过滤和分析检索结果

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 🔍

Knowvel Search >

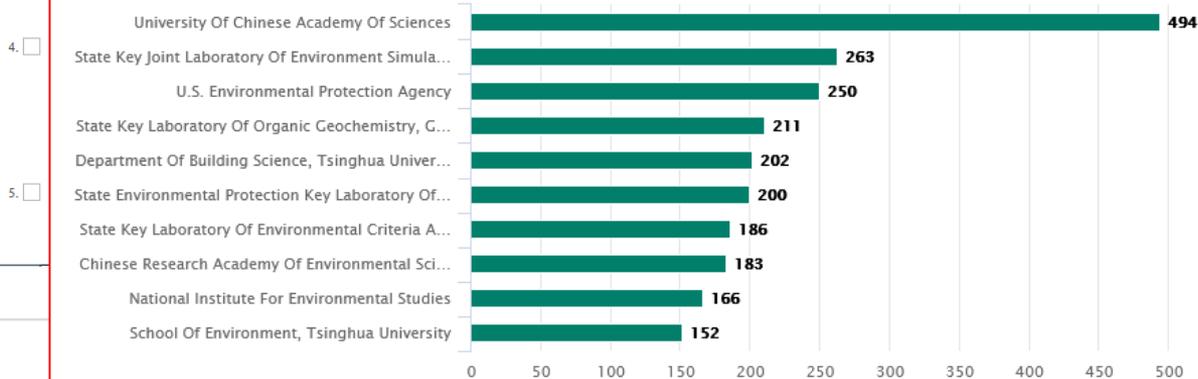
- Water demand forecasting by trend and ha
Kozłowski, Edward (Lublin University of Technol
Beata; Kowalski, Dariusz; Mazurkiewicz, Daria
Database: Compendex
Detailed Show preview Full text
- Estimation of river water temperature from
Ouyang, Heng (Department of Civil Engineering,
and Technologies, v 81, p 264-271, 2018, Advances in Intelligent Information Hiding and Multimedia Signal Processing - Proceedings of the 15th International Conference on Intelligent Information Hiding

- 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

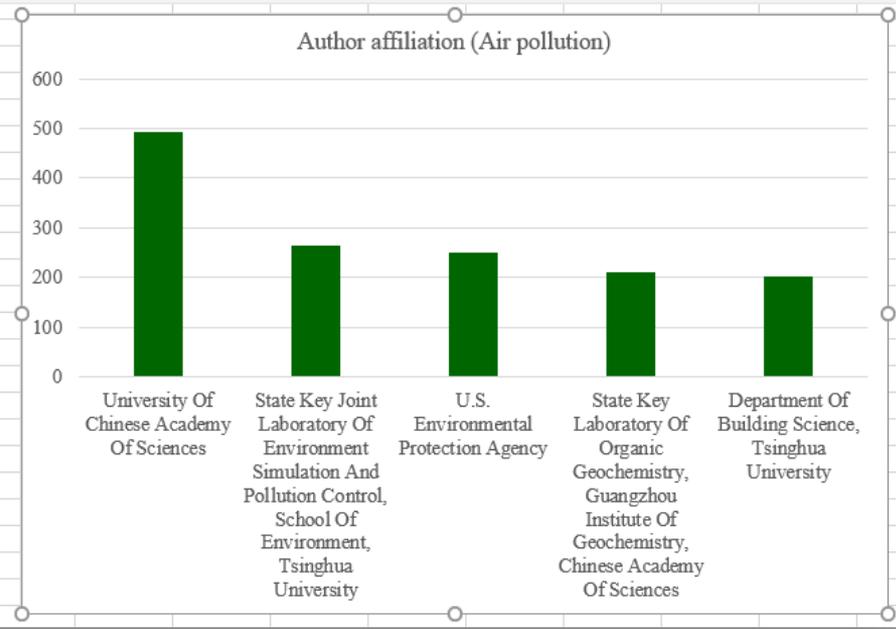


Records

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	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



1884 1896 1902 1907 1937 1956 1963 1979 1988 1989 1993 1998 2006

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检索结果的管理

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 e

10.1016/j.acme.2

Author affiliation

Management, Na

² Lublin Universi

Nadbystrzycka 40

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Location:

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- Your Folder(s)

Format:

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- BibTeX
- Text(ASCII)
- CSV
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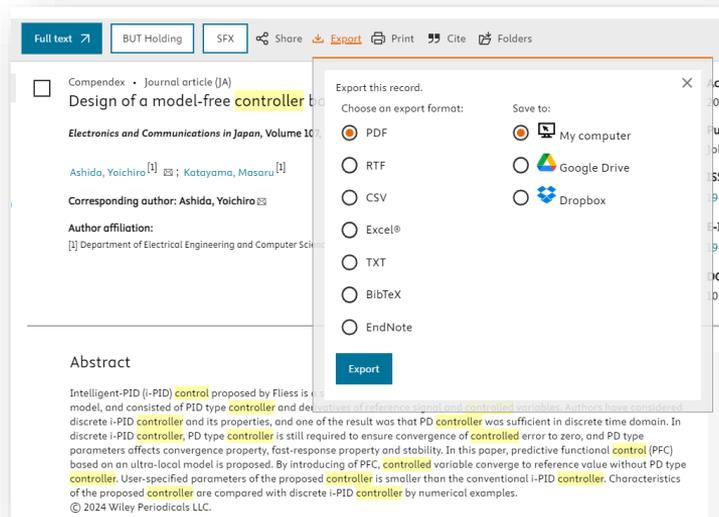
_current_page_view_Date/Time.pdf

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Disposal,

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Full text **BUT Holding** SFX Share Export Print Cite Folders

Compendex - Journal article (JA)
Design of a model-free controller

Electronics and Communications in Japan, Volume 107, Issue 1, 2024

Ashida, Yoichiro [1]; Katayama, Masaru [1]

Corresponding author: Ashida, Yoichiro [1]

Author affiliation:
[1] Department of Electrical Engineering and Computer Science, National Institute of Technology, Matsue College, Matsue, Japan

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Detailed results: 1
Downloaded: 4/12/2024

1. Design of a model-free controller based on predictive functional control

Accession number: 20240815612857

Authors: Ashida, Yoichiro [1]; Katayama, Masaru [1]

Author affiliation: [1] Department of Electrical Engineering and Computer Science, National Institute of Technology, Matsue College, Matsue, Japan

Corresponding author: Ashida, Yoichiro[yashida@matsue-ct.jp]

Source title: Electronics and Communications in Japan

Abbreviated source title: Elec. Commun. Jp.

Volume: 107

Issue: 1

Issue date: March 2024

Publication year: 2024

Article number: 032442

Language: English

ISSN: 19429533

E-ISSN: 19429541

Document type: Journal article (JA)

Publisher: John Wiley and Sons Inc.

Abstract: Intelligent-PID (i-PID) control proposed by Fliess is a simple control algorithm. The controller is designed based on ultra-local model, and consisted of PID type controller and derivatives of reference signal and controlled variables. Authors have considered discrete i-PID controller and its properties, and one of the result was that PD controller was sufficient in discrete time domain. In discrete i-PID controller, PD type controller is still required to ensure convergence of controlled error to zero, and PD type parameters affects convergence property, fast-response property and stability. In this paper, predictive functional control (PFC) based on an ultra-local model is proposed. By introducing of PFC, controlled variable converge to reference value without PD type controller. User-specified parameters of the proposed controller is smaller than the conventional i-PID controller. Characteristics of the proposed controller are compared with discrete i-PID controller by numerical examples. © 2024 Wiley Periodicals LLC.

Number of references: 10

Main heading: Controllers

Controlled terms: Electric control equipment - Proportional control systems - Three term control systems

Uncontrolled terms: Controlled variables - Data-driven control - Intelligent PID control - Local model - Model free controller - PID controllers - PID-type controller - Predictive functional control - Simple+- Ultra-local model

Classification code: 704.2 Electric Equipment - 731.1 Control Systems - 732.1 Control Equipment

DOI: 10.1002/ecj.12442

Compendex references: YES

Databases: Compendex

Data Provider: Engineering Village

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Record

Record 1 from Compendex for: ((water) WN

< Back to results **Full text**

Abstract **Water**

Detailed

Compendex Refs 43

Accession

Authors: 1

Author aff

Managem

2 Lublin U

Nadbystrz

3 Lublin U

Lublin; 20

Correspo

Source title: Archives of Civil

Abbreviated source title: Arch

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<input type="radio"/> Mendeley	<input type="radio"/> BibTeX	<input type="radio"/> Citation
<input type="radio"/> RefWorks	<input type="radio"/> Text(ASCII)	<input type="radio"/> Abstract
<input type="radio"/> Google Drive	<input type="radio"/> CSV	<input type="radio"/> Detailed record
<input type="radio"/> Dropbox	<input type="radio"/> Excel®	
<input checked="" type="radio"/> Your Folder(s)	<input type="radio"/> PDF	
	<input type="radio"/> RTF(Word®)	

File name: water

_Output_Date/T

View/Update Folders

With your personal account, you can create up to ten folders in which to save selected records. Each folder can contain up to 50 records. choose an existing folder or create a new folder.

My existing folders: Water

Create a folder: Example: 'Nanotechnology folder'

Folder Name : Water

1 record in this folder

View Folders

ALL X Citation format

1. X Water demand forecasting by trend and harmonic analysis
Kozłowski, Edward (Lublin University of Technology, Faculty of Management, Department of Kowalski, Dariusz; Mazurkiewicz, Dariusz
Sources: Archives of Civil and Mechanical Engineering, v 18, n 1, p 140-146, January 2018
Database: Compendex

1884 1896 1902 1907 1937 1956 1963 1979 1988 1989 1993 1998 2006

Expert Search – 专家检索

专家检索

输入检索词汇和检索字段代码

Selected records 0



Create account

Expert search

Search for:

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

Reset form

检索代码

Databases ▾ Date ▾ Sort by ▾ Autostemming ▾ Search codes ^ Browse indexes ▾

Database	Code = Field	Code = Field
c = Compendex	AB = Abstract (c,i,n,pc,cm,cb,el,ep,g,f,u,e,k)	CVMA= Major term as a reagent (el,ep)
i = Inspec	AN = Accession number (c,i,n,pc,el,ep,g,f,k)	CVMN= Major term with no role (el,ep)
n = NTIS	AF = Affiliation/Assignee (c,i,n,pc,cm,el,ep,g,f,u,e)	MS = Map Scale (f)
pc = PaperChem	ALL = All fields (c,i,n,pc,cm,cb,el,g,f,u,e,k)	MP = Map Type (f)
cm = Chemica	ANN = Annotation (f)	MI = Material identity number (i)
cb = CBNB	AI = Astronomical indexing (i)	AG = Monitoring agency (n)
el = EnCompassLIT	AU = Author/Inventor (c,i,n,pc,el,ep,g,f,u,e,k)	NT = Notes (n)
ep = EnCompassPAT	AV = Availability (n,cb,f)	NU = see Numerical Data Codes (c,i)
n = CFOR&SE	CR = CAS registry number (cm,cb,el,en)	NI = Numerical indexing (i)

Codes displayed will depend on your current database selection

专家检索



Engineering Village

Search Search history Alerts Selected records Bulletins More



Create account

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Expert search:

(((semiconductor) WN ALL)) AND (((china) WN CO) AND ((2022 OR 2021 OR 2020) WN YR)))

举例：只关注“中国”近3年的“semiconductor”（半导体）的研究



Reset form

Databases Date Sort by Autostemming Search codes Browse indexes

48,098 records found in Compendex for 1884-2022: ((semiconductor) WN ALL) * + ((china) WN CO) AND ((2022 OR 2021 OR 2020) WN YR)

Create alert

Save search

Share search

RSS feed

根据检索过程中的筛选和精炼，自动生成专家检索检索式

Refine



Display: 25 results per page

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 (7,373)

Gold (3,976)

Hybrid Gold (564)

Bronze (1,429)

Green (3,312)

Learn more

- Model and performance analysis of non-uniform piezoelectric semiconductor nanofibers**
Fang, Kai (State Key Laboratory of Mechanics and Control of Mechanical Structures, College of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing; 210016, China); Li, Peng; Li, Nian; Liu, Dianzi; Qian, Zhenghua; Kolesov, Vladimir; Kuznetsova, Iren Source: *Applied Mathematical Modelling*, v 104, p 628-643, April 2022
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Full text Check Local Full-Text
- Research and Semiconductor Production Equipment Operation Management System**
Wang, Hairong (College of Optoelectronic Engineering, Yunnan Open University, Kunming, Yunnan Province; 650223, China) Source: *Lecture Notes on Data Engineering and Communications Technologies*, v 81, p 239-243, 2021
Database: Compendex
Document type: Conference article (CA)
Detailed Show preview Full text Check Local Full-Text
- A Stable Dual-Wavelength DFB Semiconductor Laser with Equivalent Chirped Sampled Grating**
Zhang, Yunshan (College of Microelectronics, Nanjing University of Posts and Telecommunications, Nanjing, China); Yuan, Bocheng; Shi, Jianqin; Qi, Wenxuan; Li, Lianyan; Wang, Leilei; Zheng, Jilin; Guan, Shijian; Fang, Tao; Chen, Xiangfei Source: *IEEE Journal of Quantum Electronics*, v 58, n 1, February 1, 2022
Database: Compendex



Feedback



查收-机构检索

- 回顾刚才的操作：
- (((((controller) WN ALL)) AND (({china} WN CO) AND ((2023 OR 2022 OR 2021) WN YR))))
- 中国近三年关于控制器的文章

- 推荐检索式：
- 以清华大学为例
- (tsinghua near univ* and (beijing or 100084 or china)) wn af and 2021 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



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 13 November 2013
Received in revised form 4 April 2014
Accepted 5 April 2014
Available online 3 May 2014

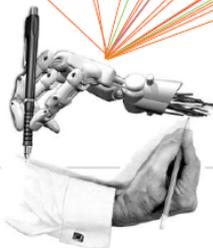
Keywords:

Thermal spray coating
Inconel
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 flue. 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 temperature. In order to increase the corrosion resistance of heat exchanger components, either more alloyed steels or protective coatings should be applied. High velocity oxygen fuel (HVOF) spray coating may provide corrosion protection for low alloy tube materials. Three nickel based thermal spray coatings (Inconel 625, Inconel 718, NiCrAlY-500) and Inconel 625 (TIG) 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 stoppage the coating and the substrate materials were analyzed with SEM-EDS. The uncoated boiler tubes corroded strongly, whereas the thermal spray coating exhibited excellent corrosion performance. This paper presents the tube failure at air cold 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：
 - 实现高精度度及查全率
 - 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

Engineering Village™



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**

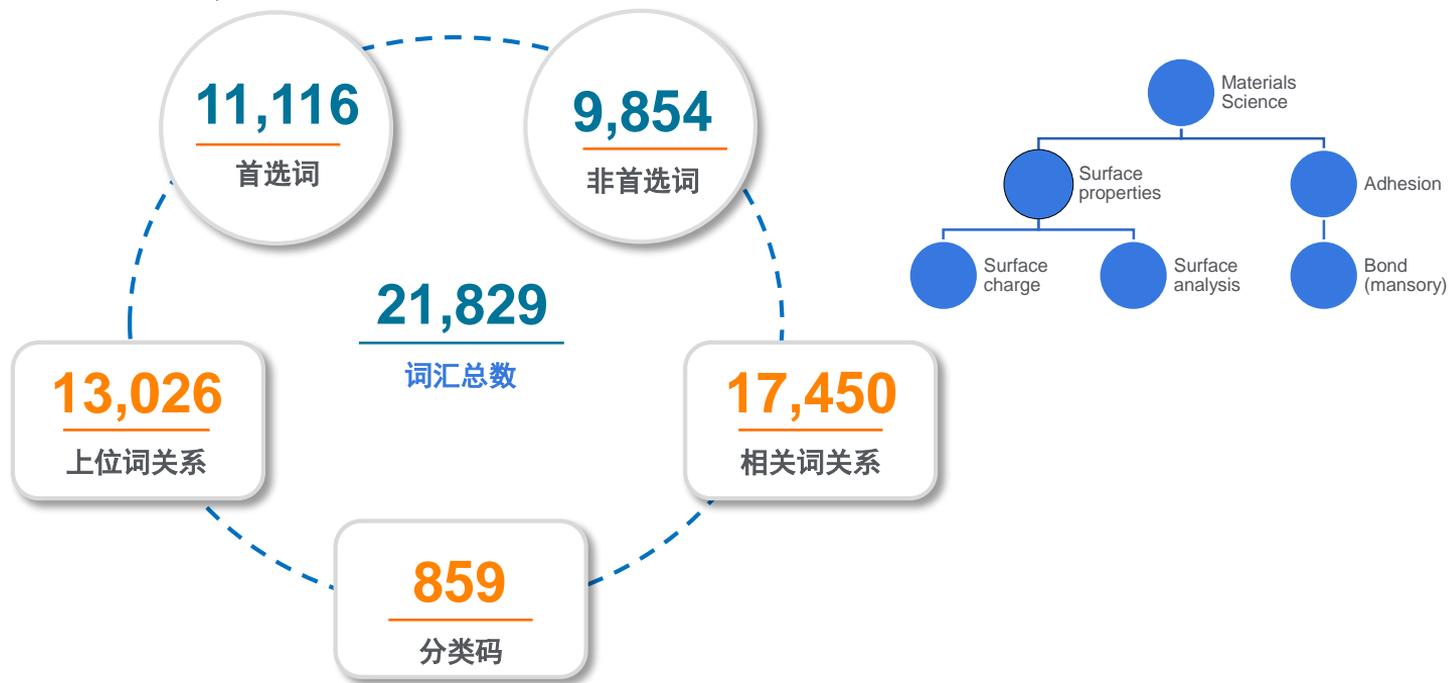
- 有信心检索专属性的任一层次

- **相互参照**

- 引导用户使用有效款目

EI工程索引叙词表

源自1884年，目前仍在发展中



叙词检索 Thesaurus Search: 迅速高效了解新领域

Thesaurus search: Vocabulary search for

Database: Compendex

Exact term results ^

secondary battery > Secondary batteries

Secondary batteries

For: Electric batteries, Secondary; Rechargeable batteries

Broader terms	Related terms	Narrower terms
<input type="checkbox"/> Electric batteries	<input type="checkbox"/> Battery management systems	<input type="checkbox"/> Automotive batteries
	<input type="checkbox"/> Battery storage	<input type="checkbox"/> Battery Pack
	<input type="checkbox"/> Charging (batteries)	<input type="checkbox"/> Flow batteries
	<input type="checkbox"/> Charging time	<input type="checkbox"/> Lead acid batteries
	<input type="checkbox"/> Electric bikes	<input type="checkbox"/> Lithium batteries
	<input type="checkbox"/> Electrolysis	<input type="checkbox"/> Lithium sulfur batteries
	<input type="checkbox"/> Fast charging (Batteries)	<input type="checkbox"/> Metal-air batteries
	<input type="checkbox"/> Light electric vehicles	<input type="checkbox"/> Nickel cadmium batteries
	<input type="checkbox"/> Plug-in electric vehicles	<input type="checkbox"/> Nickel metal hydride batteries
	<input type="checkbox"/> Plug-in hybrid vehicles	<input type="checkbox"/> Sodium-ion batteries
	<input type="checkbox"/> State of charge	<input type="checkbox"/> Solid-State Batteries
	<input type="checkbox"/> Transition metal oxides	

Selected term(s) >

Select term by using the checkboxes or find additional terms by clicking on the term...

AND
 OR

叙词检索Thesaurus Search：迅速高效了解新领域

The screenshot shows a Thesaurus Search interface. On the left, under 'sensor > Sensor arrays', there are three columns: 'Broader terms' with 'Sensors', 'Related terms' with 'Electronic nose' and 'Sensor networks', and 'Narrower terms' with 'Array processing'. A red arrow points from 'Array processing' to a selection panel on the right. The panel has radio buttons for 'AND' (selected) and 'OR', and a list of terms: 'Electronic nose', 'Sensor networks', and 'Array processing', each with a close button. Below the list are 'Reset form' and a search button.

叙词索引将拓展出关键词的：

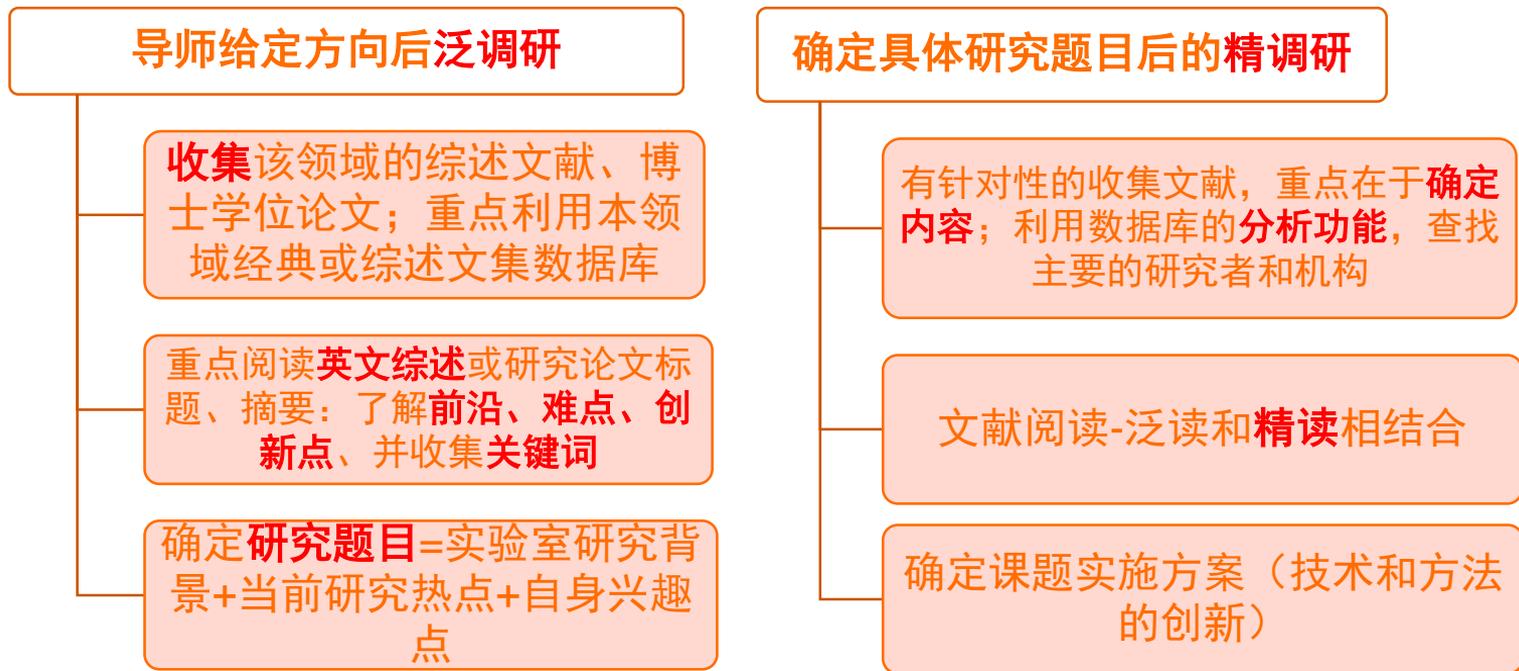
- 1.上位词 - 传感器
- 2.相关词 - 传感器网络，电子鼻技术
- 3.下位词 - 阵列处理

可直接勾选进行组合检索

The screenshot shows search results for 'Array processing'. The top bar indicates 'Exact term results' and '37,867 records found in Compendex for 1884-2023: (((([Electronic nose] WN CV) OR ([Sensor networks] WN CV) OR ([Array processing] WN CV))))'. Below this are buttons for 'Create alert', 'Save search', 'Share search', and 'RSS feed'. A 'Refine' section allows filtering by physical property and category. The first result is 'A Generic FPGA Module for QCM Sensor Array Processing using Neural Network' by Muttaqin, Adharul, Sakti, Setyawan P., Naba, Agus, published in FORTEI-International Conference on Electrical Engineering, FORTEI-ICEE 2022 - Proceeding, p 97-101, 2022, 2022 FORTEI-International FORTEI-ICFF 2022 - Proceeding.

EI数据库在工科文献调研中的应用

一、文献收集重点-文献调研阶段



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, the logo reads "Engineering Village™ The first choice for serious engineering research." Navigation links include "Search", "Alerts", and "Selected records". The main search bar contains the text "Search for... e.g. transcription factors AND jon smith". Below the search bar, a filter menu is open for "Treatment". The "Literature review" option is selected and highlighted with a red box. Other filter options include "All Treatments", "Experimental", "Management aspects", "Applications", "General review", "Numerical", "Biographical", "Historical", "Theoretical", and "Economic". Two orange callout boxes are overlaid on the page: one pointing to the "General review" option with the text "General Review 综述", and another pointing to the "Literature review" option with the text "Literature Review 文献综述". The footer includes the Elsevier logo and the text "ELSEVIER Terms and Conditions Privacy Policy".



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

Engineering Village™
The first choice for serious engineering research.

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 Indexes

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

ProQuest Dissertation
学位论文

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About Engineering Village
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/重要国际会议中的特邀报告人等信息获得。

The screenshot shows the Engineering Village search interface. On the left, the 'Refine results' panel is visible, with 'Author' and 'Author affiliation' sections highlighted by red boxes. Two orange callout boxes with blue borders point to these sections: one labeled 'Author' and '作者信息' points to the 'Author' list, and another labeled 'Author Affiliation' and '机构信息' points to the 'Author affiliation' list. The main search results area shows several entries with their respective authors and affiliations.

Author
作者信息

Author Affiliation
机构信息

Engineering Village™
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Search Results Alerts Selected records Ying Luo

Refine results
Limit to Exclude
Add a term
Controlled vocabulary
Author
Wang, Wei (1194)
Zhang, Wei (1139)
Li, Wei (1112)
Wang, Jun (883)
Wang, Yan (806)
Author affiliation
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)

...ing by trend and harmonic analysis
...iversity of Technology, Faculty of Management, Department of Quantitative Methods in Management, Nadbystrzycka 38D, Lublin; 20-618, Poland); ...; Mazurkiewicz, Dariusz Source: Archives of Civil and Mechanical Engineering, v 18, n 1, p 140-148, January 2018
Full text? Check Local Full text?

... temperature from air temperature: Using least square method
...oyang, Feng (Department of Civil Engineering, Fujian University of Technology, Fuzhou; Fujian; 350108, China); Xue, Xingsi; Qiu, Zongxin; Lu, Yongsheng Source: Smart ... 2018, Advances in Intelligent Information Hiding and Multimedia Signal Processing - Proceedings of the 13th International ... Multimedia Signal Processing.
Full text? Check Local Full text?

... and Pharmaceutical Engineering, New Jersey Institute of Technology, Newark; NJ; 07102, United States); Liu, Yin; Yao, Zhenhua; ... Environmental Science and Engineering, v 12, n 1, February 1, 2018
Databases: Compendex Detailed Show preview Full text? Check Local Full text?

4. Sustainable energy: Human factors in geothermal water resource management
Tomaszewska, Barbara (AGH University of Science and Technology, Mickiewiczza 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
Databases: Compendex Detailed Show preview Full text? Check Local Full text?



四、阅读本领域的主要研究者/机构的文献

- 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。

1. **A review of intelligent systems software for autonomous vehicles**

Long, Lyle N. (Pennsylvania State University); **Hanford, Scott D.**; **Janrathitikarn, Oranuj**; **Sinsley, Greg L.**; **Miller, Jodi A.** **Source:** Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Security and Defense Applications, CISDA 2007, p 69-76, 2007, Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Security and Defense Applications, CISDA 2007

Database: Compendex

Document type: Conference article (CA)

Show preview Cited in Scopus (55)

Full text

BUT Holding

SFX

2. **A multiagent approach to autonomous intersection**

Dresner, Kurt (Department of Computer Sciences, University of Texas at Austin) **Source:** Journal of Artificial Intelligence Research, v 31, p 591-656, January/April 2008

Database: Compendex

Document type: Journal article (JA)

Show preview Cited in Scopus (984)

Full text

BUT Holding

SFX

Cited by

被引用情况

(C0500), Austin, TX 78712, United States); **Stone, Peter** **Source:** Journal of Artificial Intelligence

3. **Toward reliable off road autonomous vehicles operating in challenging environments**

Kelly, Alonzo (Robotics Institute, Carnegie Mellon University); **Stentz, Anthony**; **Amidi, Omead**; **Bode, Mike**; **Bradley, David**; **Diaz-Calderon, Antonio**; **Happold, Mike**; **Herman, Herman**; **Mandelbaum, Robert**; **Pilarski, Tom**; **Rander, Pete**; **Thayer, Scott**; **Vallidis, Nick**; **Warner, Randy** **Source:** International Journal of Robotics Research, v 25, n 5-6, p 449-483, May/June 2006

Database: Compendex

Document type: Conference article (CA)

Show preview Cited in Scopus (181)

Full text

BUT Holding

SFX

4. **Real-time motion planning for agile autonomous vehicles**

Frazzoli, Emilio (University of Illinois at UC, Dept. of Aero./Astronautical Eng., 321b Talbot Laboratory, 104 S. Wright Street, Urbana, IL 61801, United States); **Dahleh, Munther A.**; **Feron, Eric** **Source:** Journal of Guidance, Control, and Dynamics, v 25, n 1, p 116-129, January/February 2002

Database: Compendex

Document type: Journal article (JA)

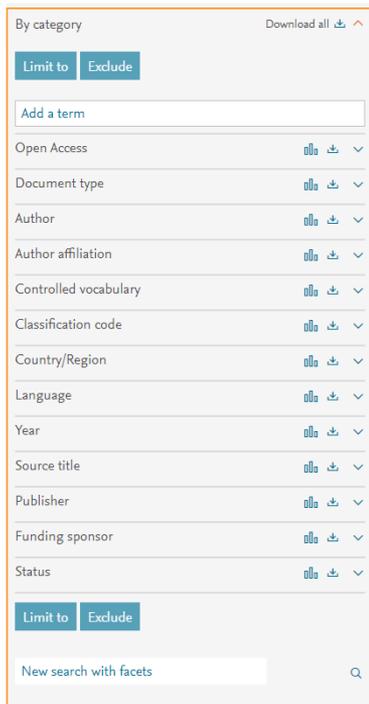
Show preview Cited in Scopus (591)

BUT Holding

SFX

索引结果在科研及投稿上的分析与利用

索引结果分析



- 利用Refine字段筛选索引结果
- 根据文献类型，年份，学科等信息进一步分析：
 - 了解你的同行吗，他们又有哪些成就呢？
 - 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？

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	(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)	

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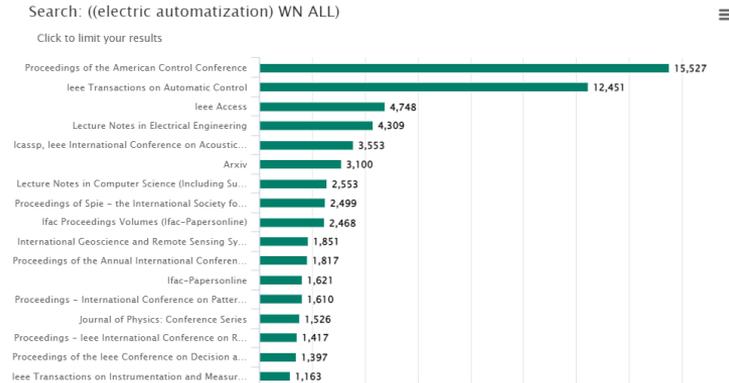
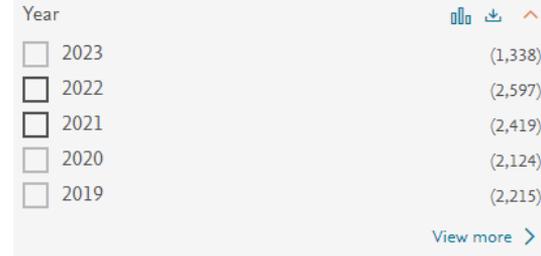
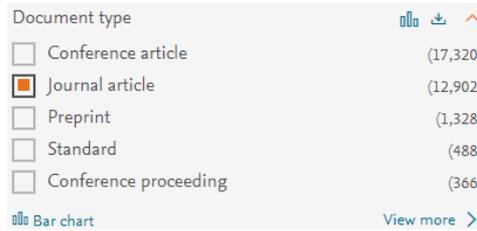
赞助机构

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 >](#)

以主题词electric automatization为例

- 限定年份和文献类型为JA
- 检索该主题下近十年EI发表的文章
- 并利用refine功能统计分析此类文章的刊源统计
- 锁定投稿方向



以主题词electric automatization为例

- 进一步查看某一期刊选择，例如：IEEE自动控制汇刊
- 了解其收录目标学科主题论文数量，发文作者，发文机构情况
- 验证是否被EI稳定收录（同时对照EI刊源表）

Author	
<input type="checkbox"/> Shi, Peng	(51)
<input type="checkbox"/> Wang, Zidong	(48)
<input type="checkbox"/> Xie, Lihua	(43)
<input type="checkbox"/> Hong, Yiguang	(38)
<input type="checkbox"/> Ren, Wei	(37)

[View more >](#)

Author affiliation	
<input type="checkbox"/> School of Electrical and Electronic Engineering, Nanyang Technological University	(69)
<input type="checkbox"/> Department of Automation, Shanghai Jiao Tong University	(46)
<input type="checkbox"/> School of Control Science and Engineering, Shandong University	(42)
<input type="checkbox"/> Department of Mechanical Engineering, University of Hong Kong	(38)
<input type="checkbox"/> State Key Laboratory of Synthetical Automation for Process Industries, Northeastern University	(38)

Search: ((electric automatization) WN ALL) + {iee transactions on automatic control} WN ST

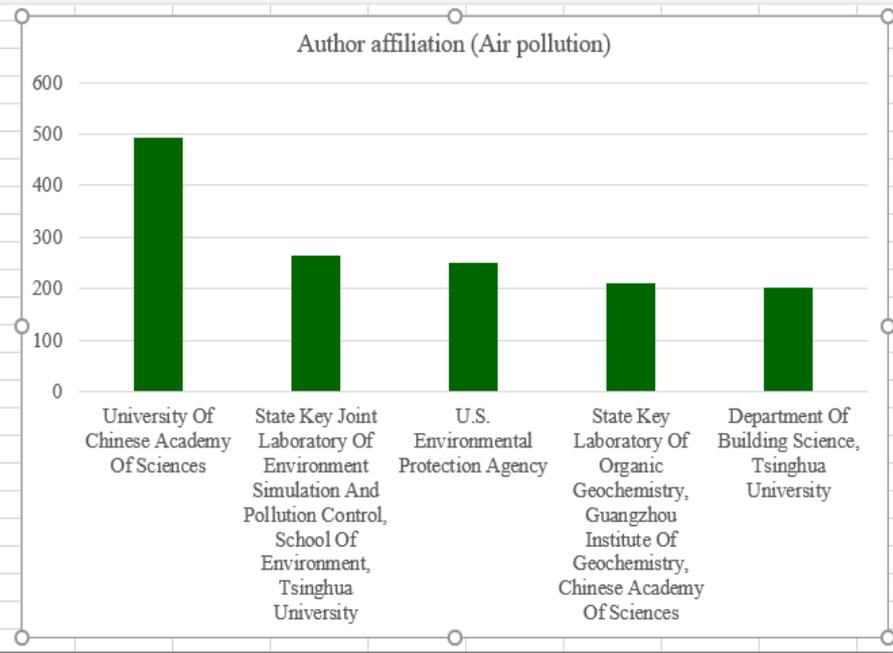
Click to limit your results



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



科研机构在工程领域上的科研产出分析

工程研究档案 (Engineering Research Profile)



Engineering Village

Search

Search history

Alerts

Selected records

More

?

HL

Quick search:

All fields



for

"China University of Petroleum, Beijing"



Turn off AutoSuggest | + Add search field | Reset form

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

10,935 records found in Compendex for 1884-2024: (("China University of Petroleum, Beijing") WN ALL)

1 of 438 pages

Create alert Save search Share search

Sort by: Relevance

Refine

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

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Dong, Yanlei (College of Geosciences, **China University of Petroleum, Beijing**; 102249, China); Zhu, Xiaomin; Xian, Benzong; Hu, Tinghui; Geng, Xiaojie; Liao, Jijia; Luo, Qi Source: *Marine and Petroleum Geology*, v 104, p 489, June 2019
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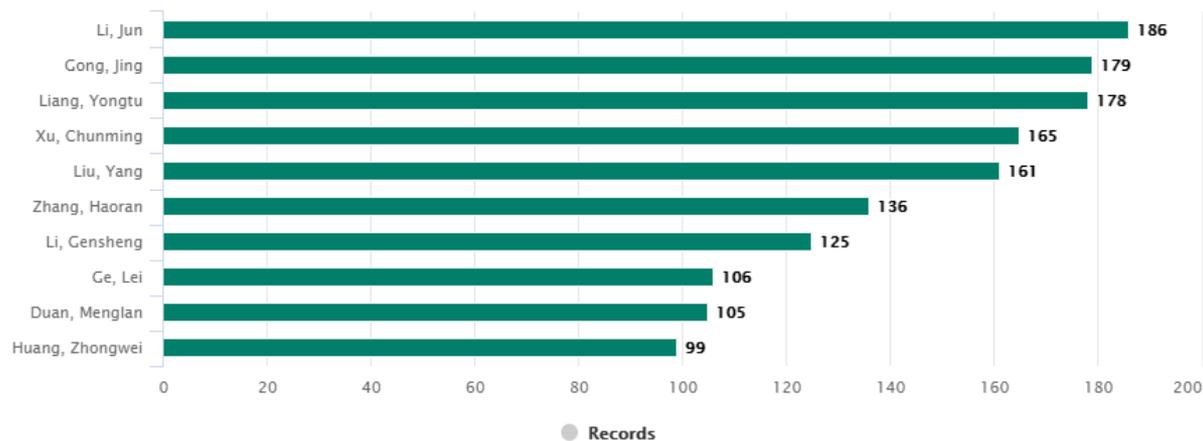
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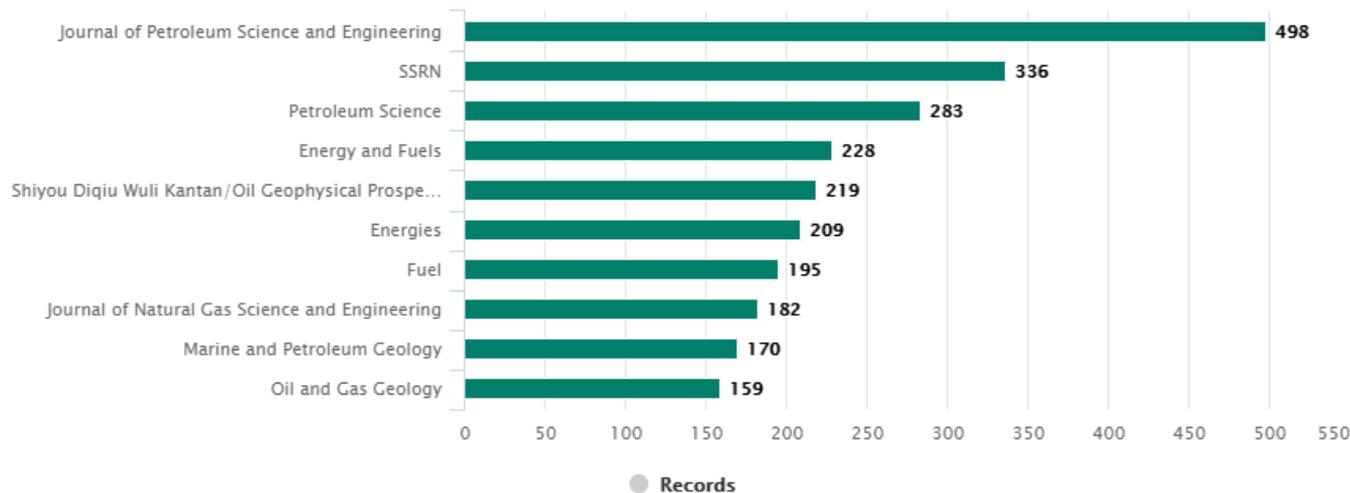
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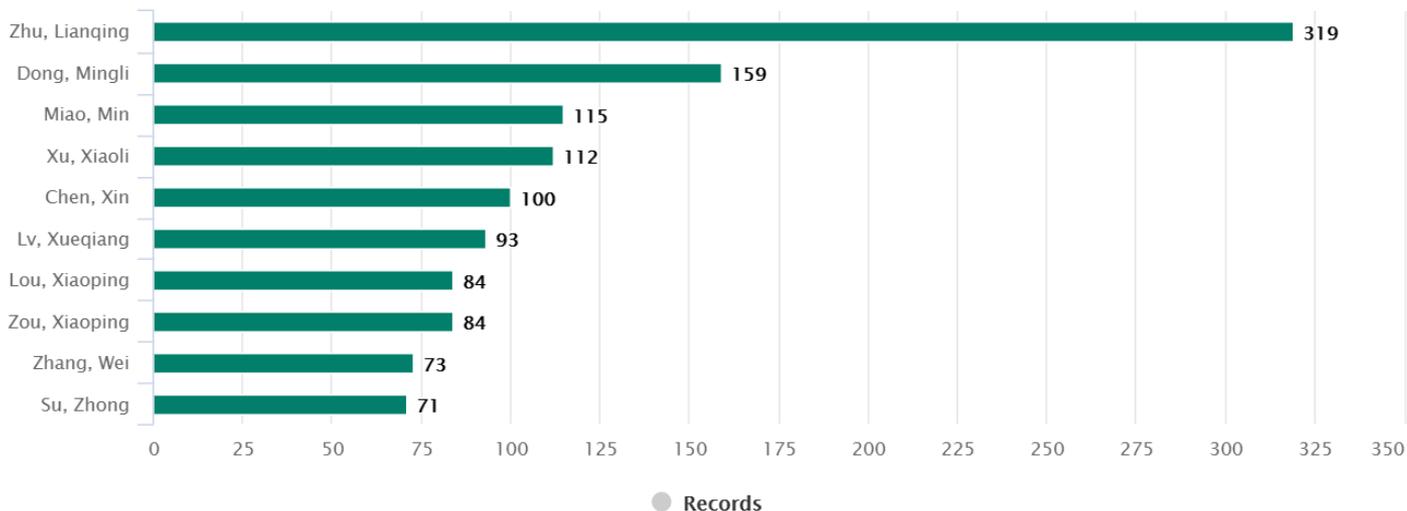
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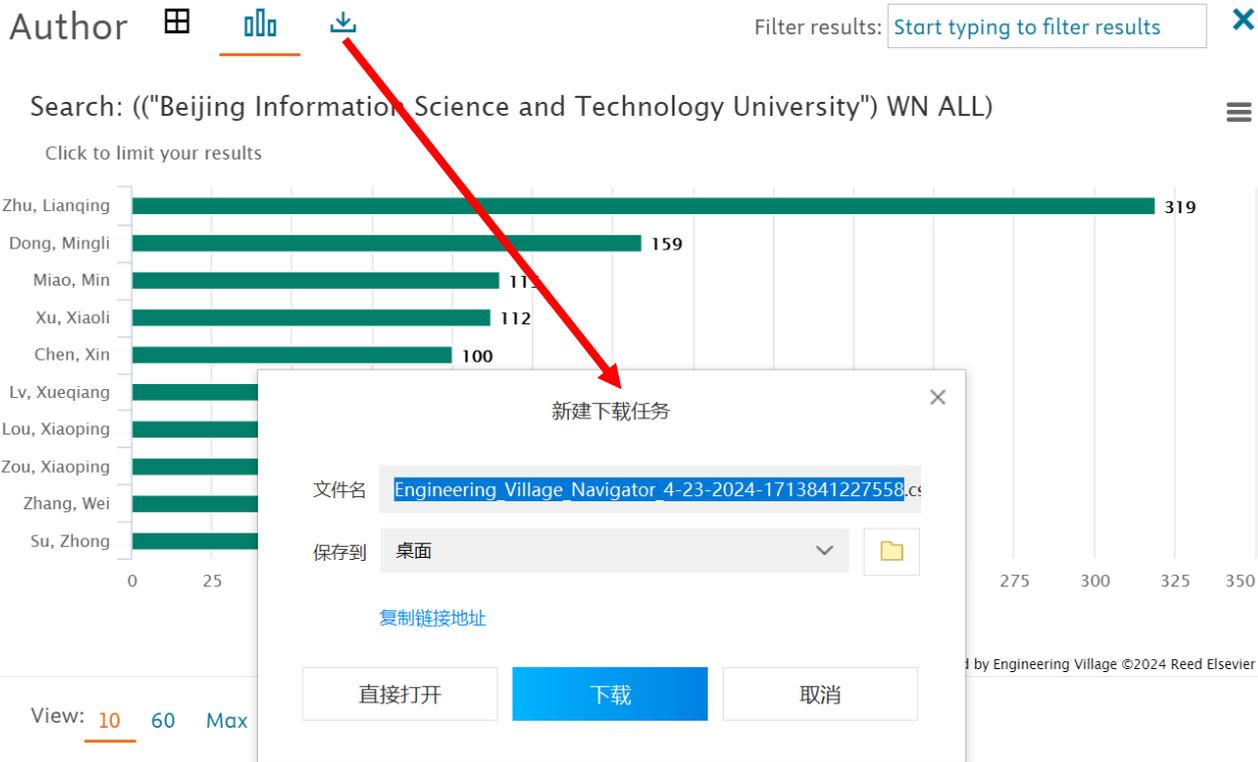
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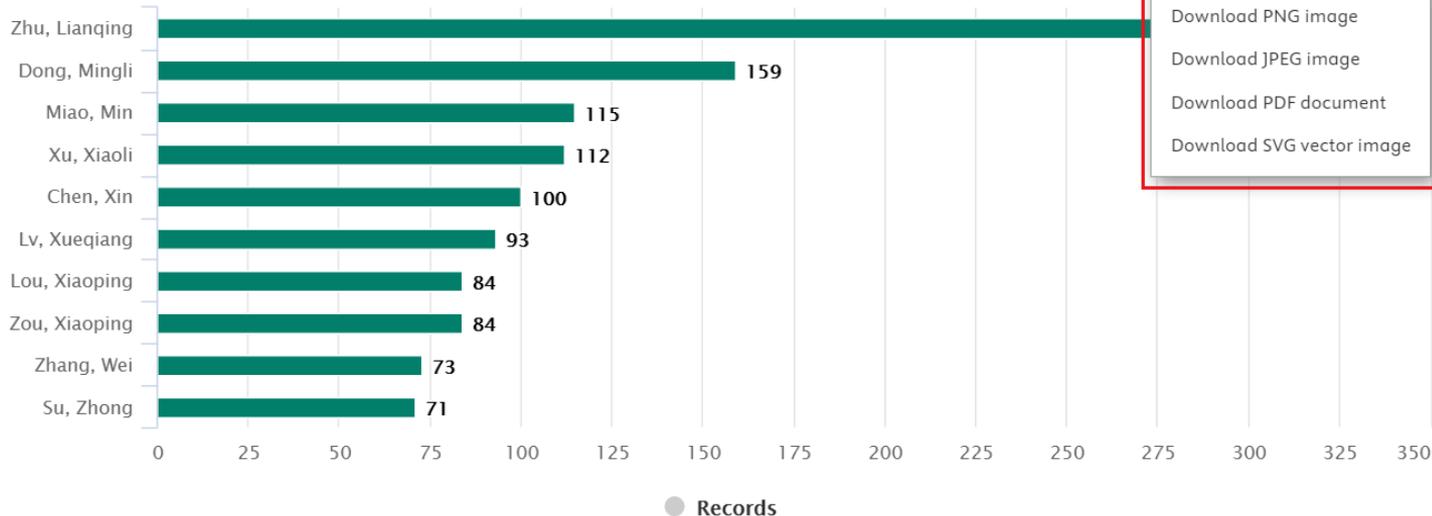


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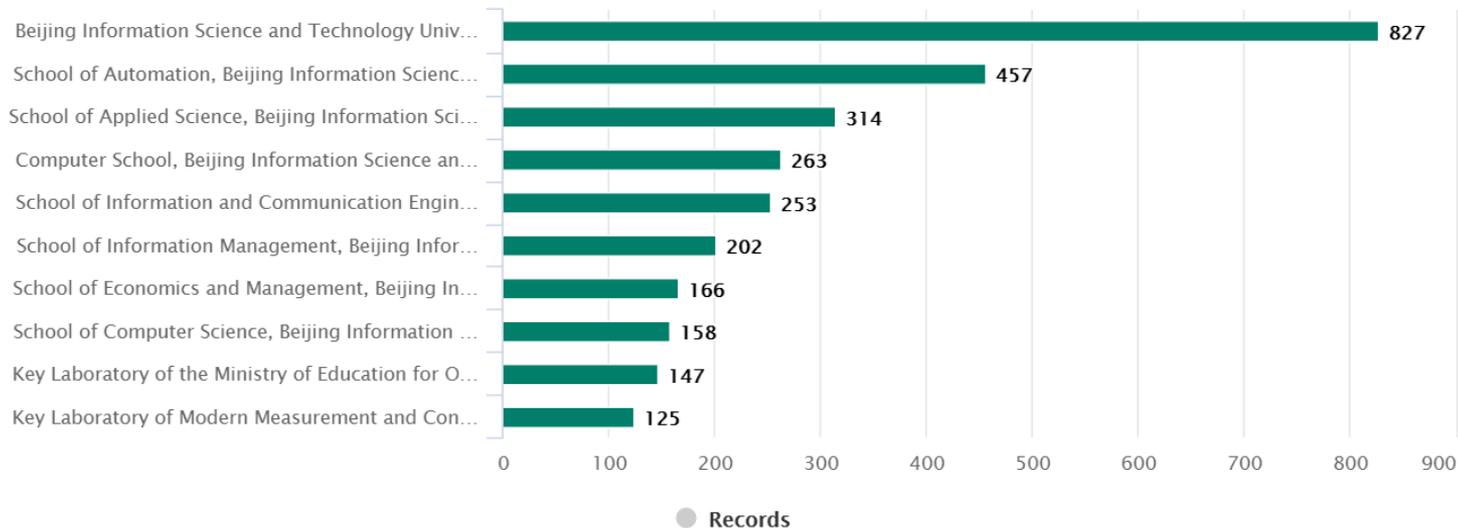
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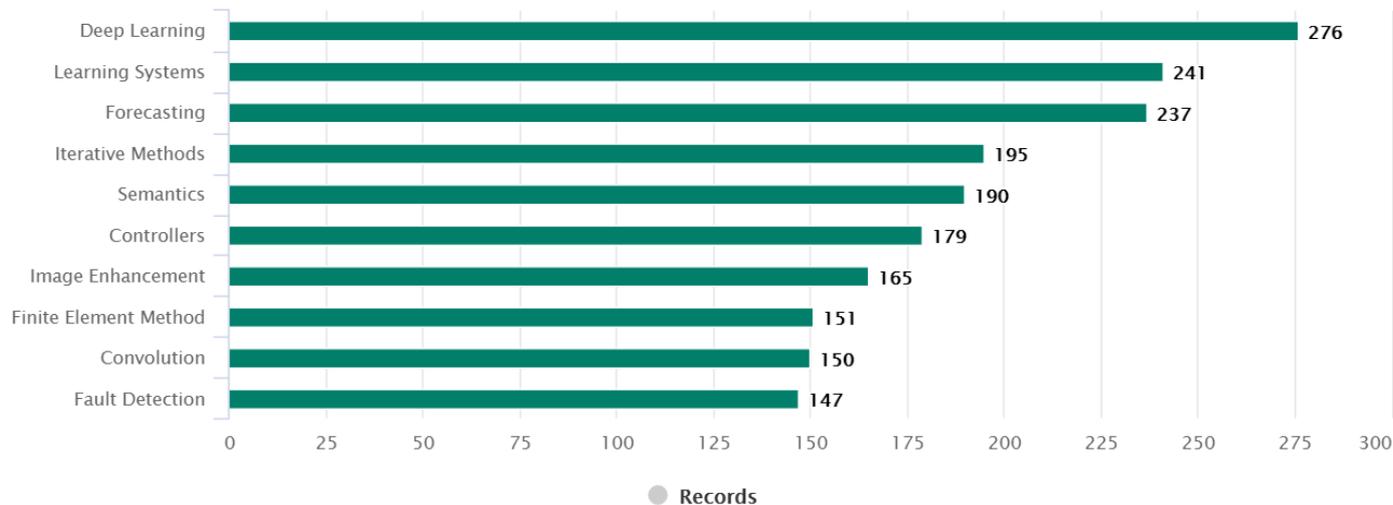
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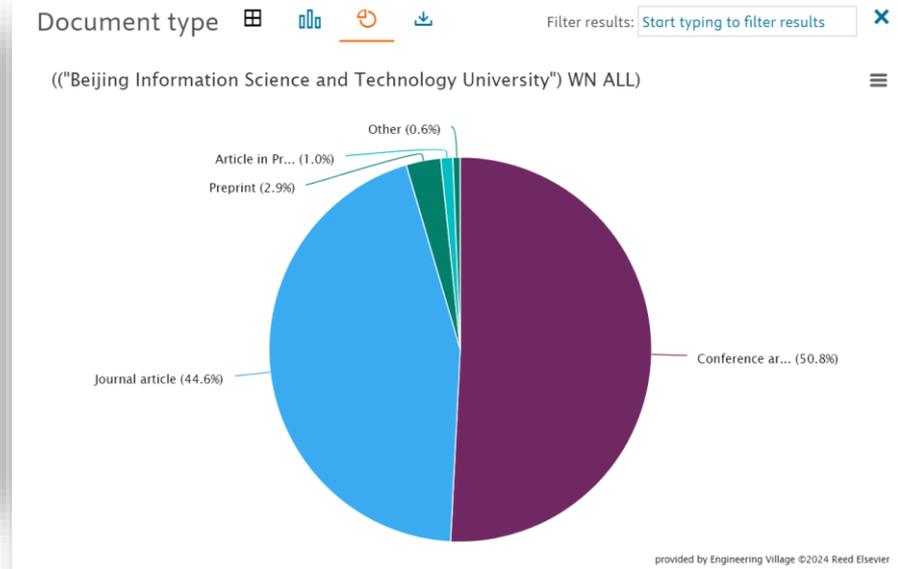
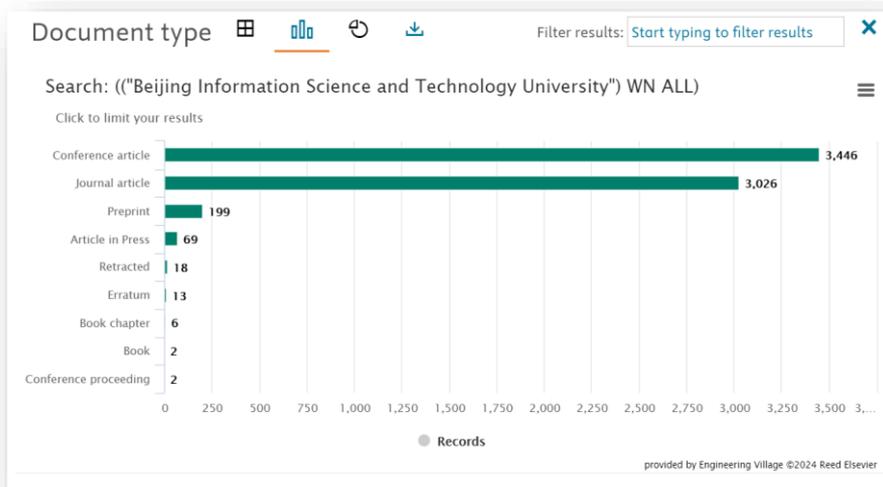
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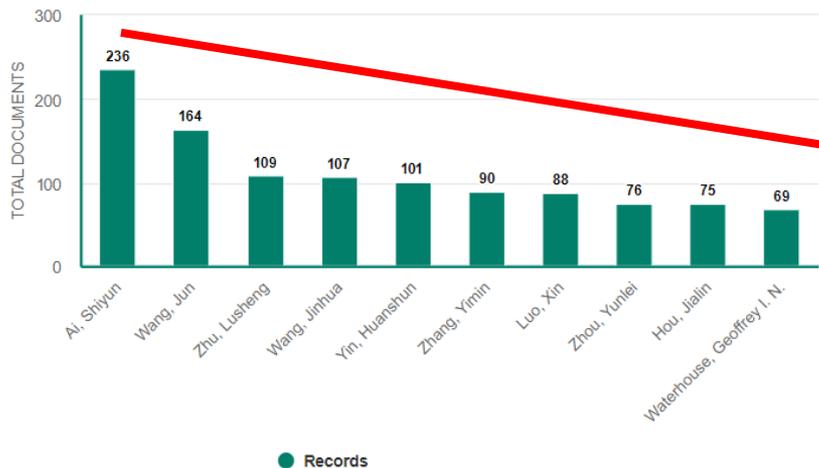
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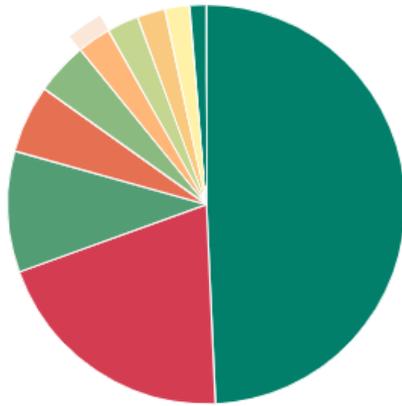
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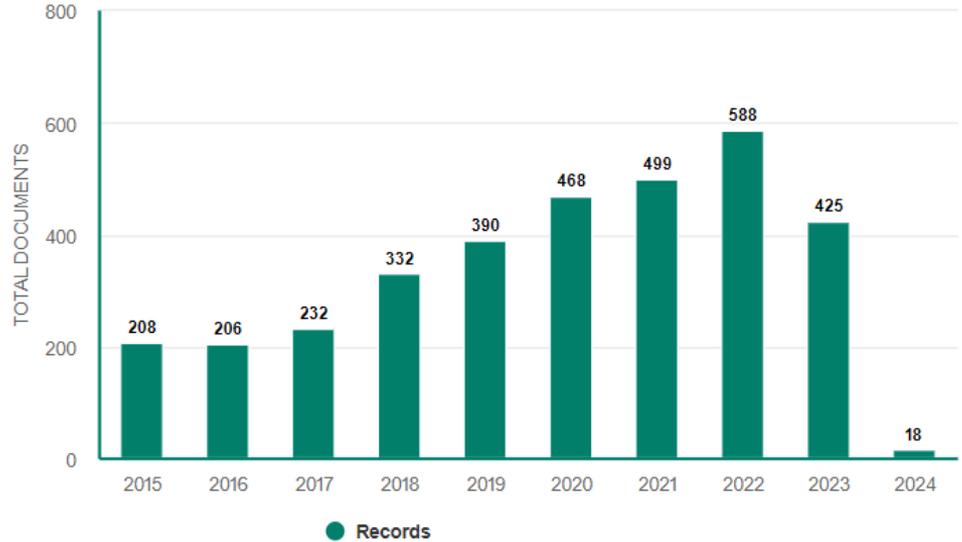


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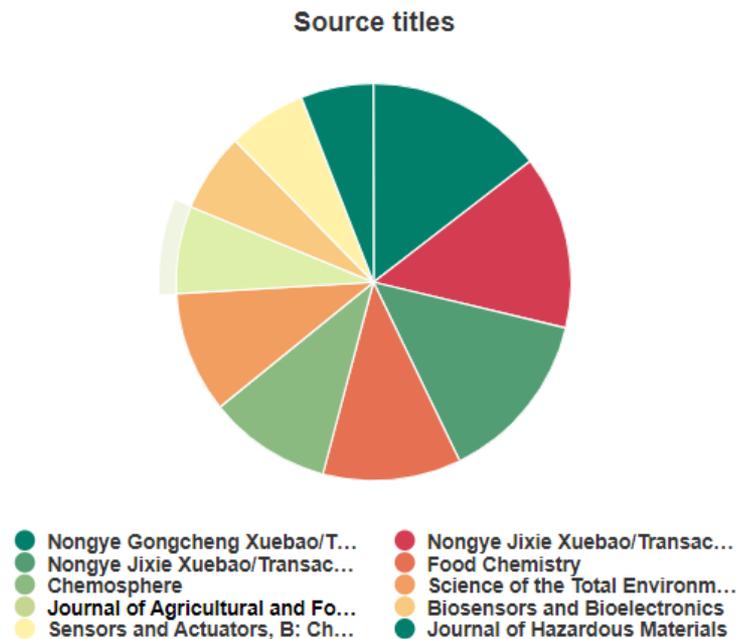
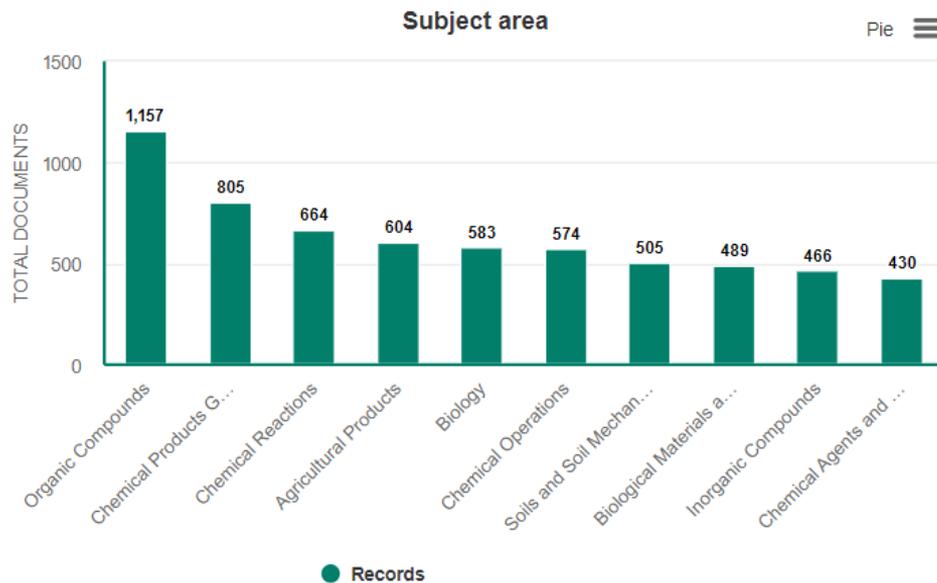


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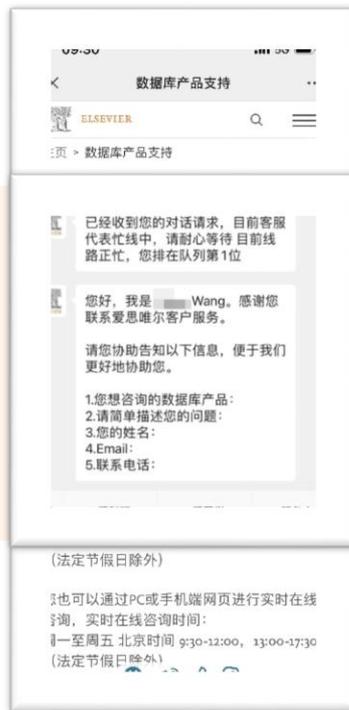
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