

Engineering Village

在工程领域文献调研及科研中的应用

探索与突破

李海舰 博士 爱思唯尔资深培训师

2025

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

2025



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内容目录:

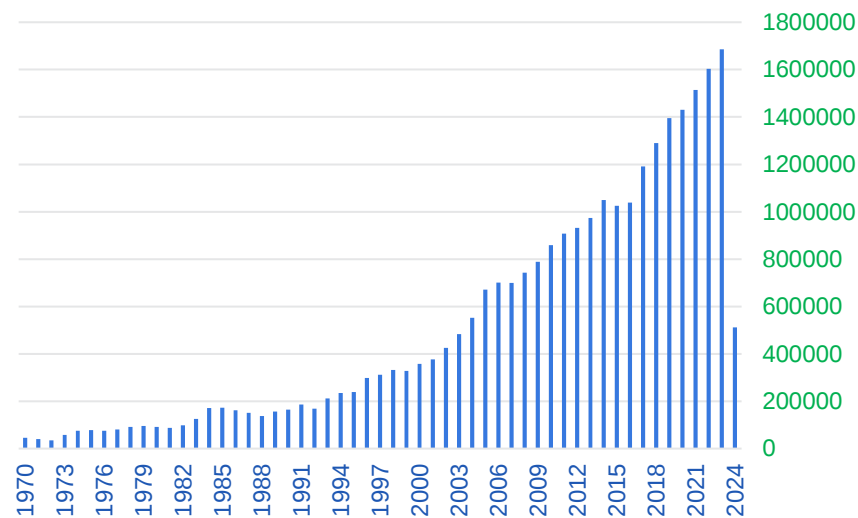
1. EI数据库简介
2. EI数据库文献检索过程
3. EI数据库在工科文献调研中的应用
4. 索引结果在科研及投稿上的分析与利用
5. 科研机构在工程领域上的科研产出分析



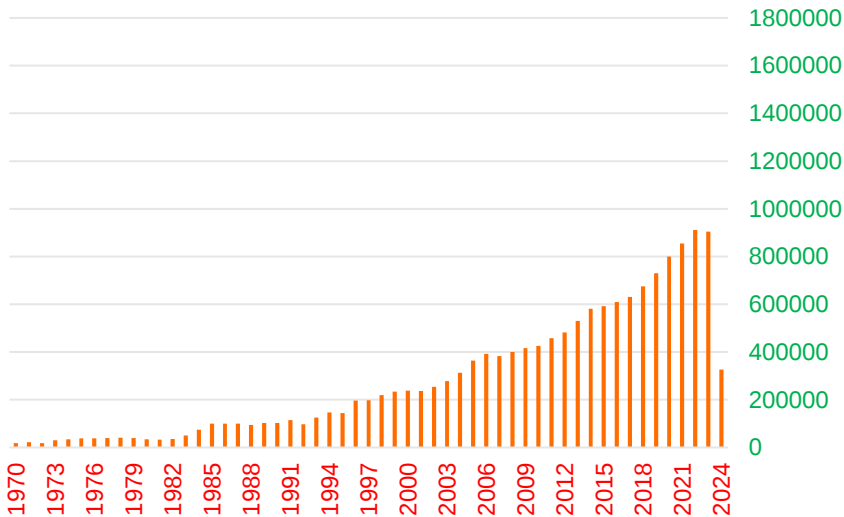
EI数据库简介

工程常用文献类型

1970-2024 工程类**科研**文章数量



1970-2024 工程类**期刊**文章数量



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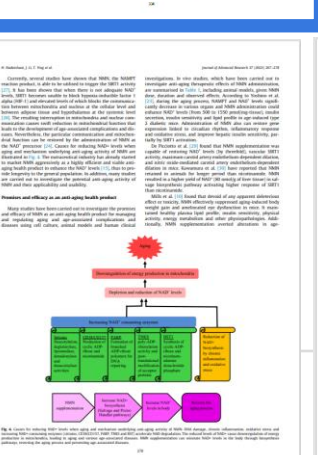
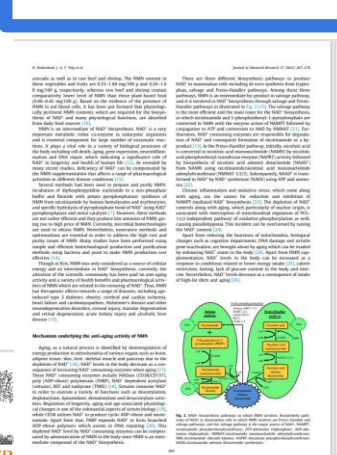
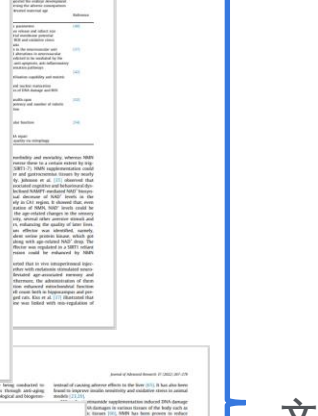
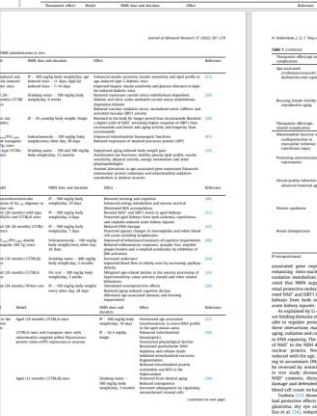
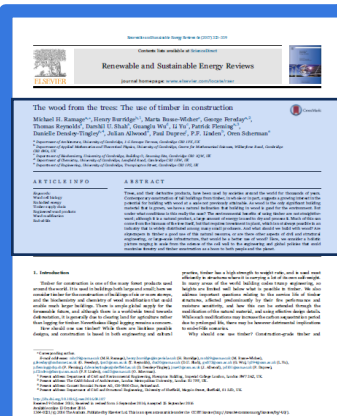
Ei引文索引

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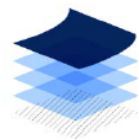
文章
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深入



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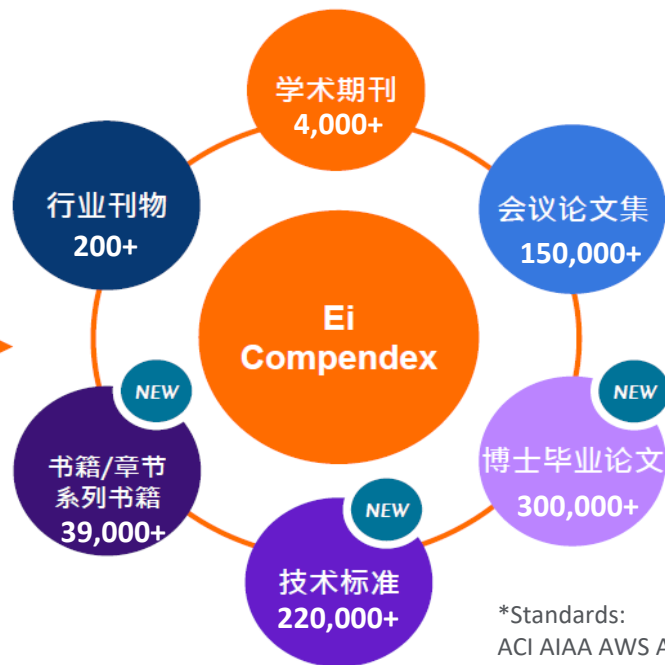
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*Standards:

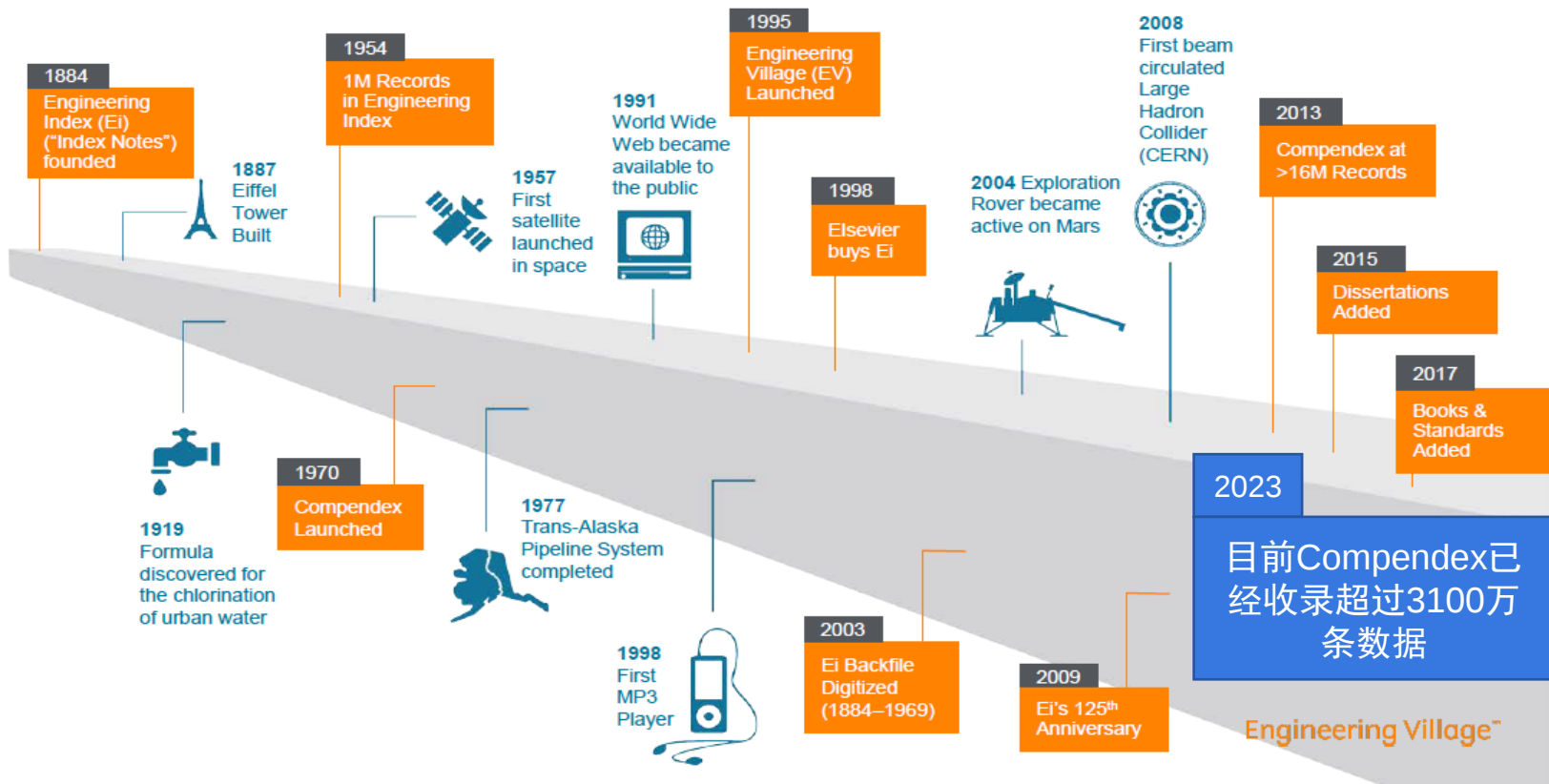
ACI AIAA AWS ASCE ASTM AWWA
BSI IEEE IET SAE SMPTE TAPPI



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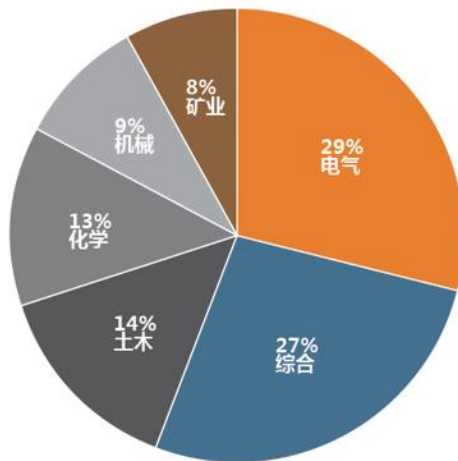


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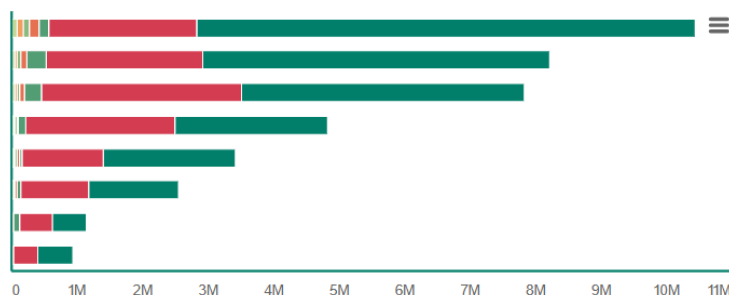
Ei Compendex 工程学科领域

Ei Compendex 相关领域

- 应用物理学，包括光学
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- 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
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1. ☐ Artificial Intelligence Prediction Technology in Intelligent Recommendation Algorithms for Film and Television

Li, J. (Northwest University, Modern College, China) Source: 2024 Second International Conference on Data Science and Information System (ICDSIS), p 1-5, 2024

Database: Inspec

Document type: Conference article (CA)

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2. ☐ The Crisis and Change of Artificial Intelligence Algorithms in Higher Vocational Education

Shi, Ning (Jilin Communications Polytechnic, Jinlin, Changchun; 130012, China); Jing, Zhou; Wu, Xiaoming Source: Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, v 582 LNICST, p 445-452, 2024, Application of Big Data, Blockchain, and Internet of Things for Education Informatization - 3rd EAI International Conference, BigIoT-EDU 2023, Proceedings

Database: Compendex

Document type: Conference article (CA)

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文献类型

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14,801 records found in Compendex for 1884-2025

((artificial intelligence) WN ALL) AND ((algorithms) WN ALL) + vehicle

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- ☐ **Research on Optimization Strategy for Location Selection of Electric Vehicle Charging Stations Based on Artificial Intelligence Algorithms**
Wen, Li (Wuhan Donghu University, China) **Source:** ACM International Conference Proceeding Series, p 279-283, April 26, 2024, Proceedings of 5th International Conference on Computer Information and Big Data Applications, CIBDA 2024
Database: Compendex
Document type: Conference article (CA)
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- ☐ **Simulation of Vehicle-Scheduling Model in Logistics Distribution Center Based on Artificial Intelligence Algorithm**
Zhu, Xiuping (Shanghai Institute of Technology, Shanghai; 200235, China) **Source:** Smart Innovation, Systems and Technologies, v 368, p 87-96, 2024, Proceedings of International Conference on Artificial Intelligence and Communication Technologies, ICAICT 2023 - Artificial Intelligence and Wireless Communications
Database: Compendex
Document type: Conference article (CA)
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- ☐ **Explainable artificial intelligence for decarbonization: Alternative fuel vehicle adoption in disadvantaged communities**
Potwary, A. Latif (Department of Civil and Environmental Engineering, University of TN, Knoxville; TN, United States); Khattak, Asad J. **Source:** International Journal of Sustainable Transportation, v 18, n 5, p 393-407, 2024
Database: Compendex
Document type: Journal article (JA)
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控制词汇

Controlled vocabulary	
☐ Water	(76175)
☐ Mathematical Models	(72140)
☐ Computer Simulation	(57816)
☐ Soils	(53764)
☐ Water Quality	(48305)
View all >	

作者

Author	
☐ Wang, Wei	(1194)
☐ Zhang, Wei	(1139)
☐ Li, Wei	(1112)
☐ Wang, Jun	(883)
☐ Wang, Yan	(806)
View all >	

作者机构

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)
☐ Cairo Land And Water	(1818)
☐ State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology	(1705)
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学科分类

Classification code	
☐ Chemical Products Generally	(305324)
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☐ Chemical Reactions	(228331)
☐ Chemistry	(185796)
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☐ China	(268704)
☐ Japan	(85354)
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Document type	
☐ Journal article	(1171538)
☐ Conference article	(397495)
☐ Dissertation	(18684)
☐ Article in Press	(7993)
☐ Conference proceeding	(7739)
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Language	
☐ English	(1508046)
☐ Chinese	(74904)
☐ German	(18953)
☐ Russian	(13839)
☐ Japanese	(10762)
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出版年

Year	
☐ 2018	(269)
☐ 2017	(64800)
☐ 2016	(94832)
☐ 2015	(92476)
☐ 2014	(97399)
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来源出版物

Source title	
☐ Water Science And Technology	(21535)
☐ Proquest Dissertations And Theses Global	(18684)
☐ Water Research	(16333)
☐ Advanced Materials Research	(14270)
☐ Proceedings Of Spie - The International Society For Optical Engineering	(14068)
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Publisher	
☐ Elsevier Ltd	(144352)
☐ Elsevier	(121944)
☐ American Chemical Society	(67892)
☐ Institute Of Electrical And Electronics Engineers Inc.	(26782)
☐ Springer Verlag	(25231)
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1. Artificial intelligence algorithms in unmanned surf

Gao, Kaizhou (Macau Institute of System Engineering, Macau Un

Ma, Zhenfang Source: *Swarm and Evolutionary Computation*, v 86, A

Database: Compendex

Document type: Journal article (JA)

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全文链接

2. Unlocking the power of industrial artificial intelligence tow

Leng, Jiewu (Guangdong Provincial Key Laboratory of Computer Integrate

Technology and Equipment, Guangdong University of Technology, Guangz

Xueliang; Mourtzis, Dimitris; Wang, Baicun; Qi, Qinglin; Shao, Haidong; V

Systems, v 73, p 349-363, April 2024

Database: Compendex

Document type: Journal article (JA)

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1. Unlocking the power of industrial artificial intelligence towards Industry 5.0: Insights, pathways, and challenges

Accession number: 20241015688155

Authors: Leng, Jiewu (1); Zhu, Xiaofeng (1); Huang, Zhiqiang (1); Li, Xingyu (2); Zheng, Pail (3); Zhou, Xueliang (4); Mourtzis, Dimitris (5); Wang, Baicun (6); Qi, Qinglin (7); Shao, Haidong (8); Wan, Jiafu (9); Chen, Xin (1); Wang, Lihui (10); Liu, Qiang (1)

Author affiliation: (1) Guangdong Provincial Key Laboratory of Computer Integrated Manufacturing, and State Key Laboratory of Precision Electronic Manufacturing Technology and Equipment, Guangdong University of Technology, Guangzhou; 510006, China; (2) School of Engineering Technology, Purdue University, West Lafayette, IN; 47907, United States; (3) Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, 99907, Hong Kong; (4) Department of Electrical and Information Engineering, HuBei University of Automotive Technology, Shiyan; 442002, China; (5) Laboratory for Manufacturing Systems and Automation, Department of Mechanical Engineering and Aeronautics, University of Patras, Rio Patras; 26504, Greece; (6) State Key Laboratory of Fluid Power and Mechatronic Systems, Zhejiang University, Hangzhou; 310027, China; (7) School of Automation Science and Electrical Engineering, Beihang University, Beijing; 100191, China; (8) College of Mechanical and Vehicle Engineering, Hunan University, Changsha; 410082, China; (9) School of Mechanical and Automotive Engineering, South China University of Technology, Guangzhou; 510641, China; (10) Department of Production Engineering, KTH Royal Institute of Technology, Stockholm, Sweden
Corresponding author: Liu, Qiang(liuqiang@gdut.edu.cn)

Source title: Journal of Manufacturing Systems

Abbreviated source title: J Manuf Syst

Volume: 73

Issue date: April 2024

Publication year: 2024

Pages: 349-363

Language: English

ISSN: 02786135

CODEN: JMSYEB

Document type: Journal article (JA)

Publisher: Elsevier B.V.

Abstract: With the continuous development of human-centric, resilient, and sustainable manufacturing towards Industry 5.0, Artificial Intelligence (AI) has gradually unveiled new opportunities for additional functionalities, new features, and tendencies in the industrial landscape. On the other hand, the technology-driven Industry 4.0 paradigm is still in full swing. However, there exist many unreasonable designs, configurations, and implementations of Industrial Artificial Intelligence (IndAI) in practice before achieving either Industry 4.0 or Industry 5.0 vision, and a significant gap between the individualized requirement and actual implementation result still exists. To provide insights for designing appropriate models and algorithms in the upgrading process of the industry, this perspective article classifies IndAI by rating the intelligence levels and presents four principles of implementing IndAI. Three significant opportunities of IndAI, namely, collaborative intelligence, self-learning intelligence, and crowd intelligence, towards Industry 5.0 vision are identified to promote the transition from a technology-driven initiative in Industry 4.0 to the coexistence and interplay of Industry 4.0 and a value-oriented proposition in Industry 5.0. Then, pathways for implementing IndAI towards Industry 5.0 together with key empowering techniques are discussed. Social barriers, technology challenges, and future research directions of IndAI are concluded, respectively. We believe that our effort can lay a foundation for unlocking the power of IndAI in futuristic Industry 5.0 research and engineering practice. © 2024 The Society of Manufacturing Engineers

Number of references: 135

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Title	Accession number	Title of translation	Author	Author affiliation	Corresponding author(s)	Source	Abbreviated source title	Sponsor	Publisher/Repository	Volume	Issue	Pages	Issue date
2	Artificial intelligence	20022870173		Tan, K.C.(1); Le	(1) Department of	Tan, K.C. (electr	Engineering A	Eng Appl Artif		Elsevier Ltd	14	6	825-837	December
3	Research on C	20243216805		Wen, Li(1)	(1) Wuhan Do	Wen, Li (2531	ACM Internati	ACM Int. Conf		Association fo			279-283	April 26, .
4	Simulation of	20240815616		Zhu, Xiuping(1)	Shanghai I	Zhu, Xiuping (Smart	Innovat Smart	Innov. S		Springer Scier	368		87-96	2024
5	Explainable ar	20240715536		Patwary, A. La	(1) Departmer	Khattak, Asad	International J	Intl. J. Sustain		Taylor and Fra	18	5	393-407	2024
6	Artificial intelli	20240915643		Gao, Kaizhou(1)	Macau Inst	Gao, Kaizhou	Swarm and Ev	Swarm Evol. C		Elsevier B.V.	86			April 202
7	A Study on th	20234414982		Sun, Tao(1); H	(1) Wuhan Rai	He, Lijuan (hlj	2023 3rd Inter	Int. Conf. Elect	IEEE	Institute of Ele			695-700	2023
8	Autonomous	20240103357		Garikapati, Di		Garikapati, Div	arXiv	arXiv		arXiv				February
9	Unlocking the	20241015688		Leng, Jiewu(1)	(1) Guangdon	Liu, Qiang (liu	Journal of Mai	J Manuf Syst		Elsevier B.V.	73		349-363	April 202
10	Intelligent ene	20243817070		Wang, Ying(1)	(1) College of		Thermal Scien	Therm. Sci. En		Elsevier Ltd	55			October ;
11	Analyzing the	20222512238		Wang, Jiashuc	(1) Partner of	Wang, Jiashuc	2022 6th Inter	Int. Conf. Tren		Institute of Ele			992-995	2022
12	Facilitating the	20221812055		Zak, Yuval(1);	(1) Ben-Gurion	Zak, Yuval (za	Human Factor	Hum. Factors		SAGE Publicat	65	7	1345-1360	November
13	Managing the	20240115300		Starostin, V.S.	(1) State Univ	Starostin, V.S.	2023 Intellige	Intell. Technol	IEEE; IEEE Reg	Institute of Ele				2023
14	Explainable Ar	20235215286		Banimelhem, (1)	Jordan Uni		2023 14th Int	Int. Conf. Inf. (Jordan Univer		Institute of Ele				2023
15	Optimal desig	20215111372		Liu, Jianjun(1)	(1) Hunan Inst	Liu, Jianjun (Li	Journal of Phy	J. Phys. Conf. !Jilin University		IOP Publishing	2074	1		December
16	Analysis and E	20240915651		Wang, Pin(1);	(1) School of		IEEE Access	IEEE Access		Institute of Ele			1-1	2024
17	Application of	20243216820		Sun, Yanting(1)	CCCC Rail	Dai, Chenlong	ACM Internati	ACM Int. Conf		Association fo			801-806	January 1
18	Inverse design	20243917087		Li, Zhou(1); Li,	(1) College of	Li, Kai (likai01	Engineering S	Eng. Struct.		Elsevier Ltd	321			December
19	Li-ion battery	20241115715		Yuan, Yuebo(1)	(1) Tsinghua U	Yuan, Yuebo (	2023 3rd Inter	Int. Symp. Arti	IEEE	Institute of Ele			82-85	2023
20	Advances in c	20232714353	人工智能控制	Wu, Zhi(1); De	(1) Center for	Zhou, Yu (yuz	Advances in	Adv. Mech.		Chinese Acad	53	2	273-307	June 202
21	Design of veh	20231513872		Liang, Jifeng(1)	(1) School of	Liang, Jifeng (I	IET Wireless S	IET Wirel. Sens		John Wiley an				2023
22	Construction	20242616424		Xiao, Wenni(1)	(1) College Of	Xiao, Wenni (1	3rd IEEE Interr	IEEE Int. Conf. Kishkinda Univ		Institute of Ele				2024
23	Driving assist	20240415431		Abdellaoui, GI	(1) Higher Sch	Abdellaoui, GI	2023 IEEE Inte	IEEE Int. Work		Institute of Ele				2023
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- Artificial intelligence heuristics in solving vehicle routing problems with time window constraints**
 Tan, K.C. (Department of Electrical and Computer Engineering, National University of Singapore, 4 Eng. Dr. 3, 10 Kent Ridge Crescent, Singapore 119260, Singapore); Lee, L.H.; Ou, K. Source: *Engineering Applications of Artificial Intelligence*, v 14, n 6, p 825-837, December 2001
 Database: Compendex
 Document type: Journal article (JA)
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- Specification for a dynamic vehicle routing problem**
 Slater, Alan (Added Value Logistics Consulting, 29-40, February 2002)
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U.S. Environmental Protection Agency	250
State Key Laboratory Of Organic Geochemistry, G...	211
Department Of Building Science, Tsinghua Univer...	202
State Environmental Protection Key Laboratory Of...	200
State Key Laboratory Of Environmental Criteria A...	186
Chinese Research Academy Of Environmental Sci...	183
National Institute For Environmental Studies	166
School Of Environment, Tsinghua University	152

Records

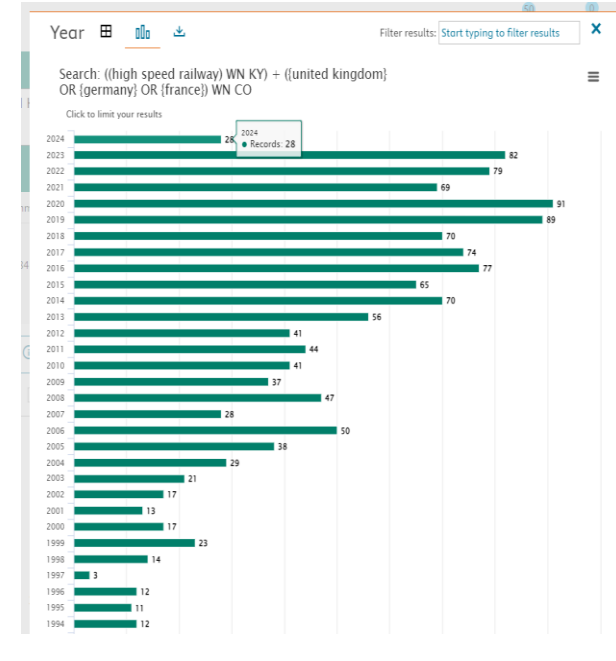
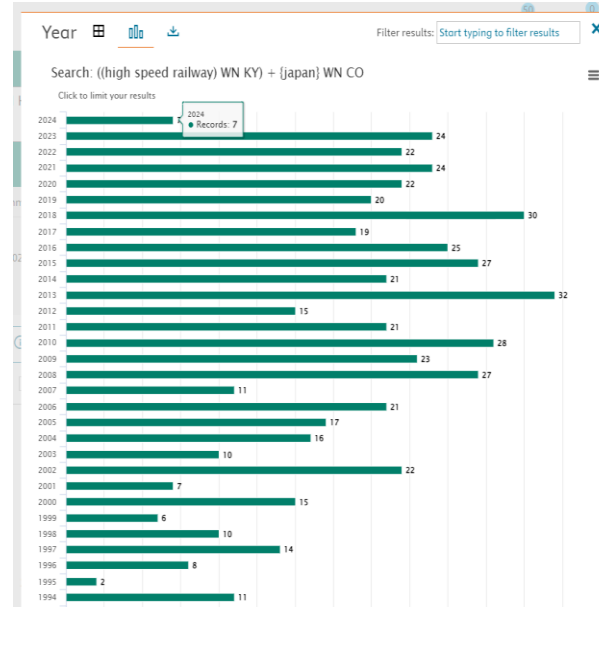
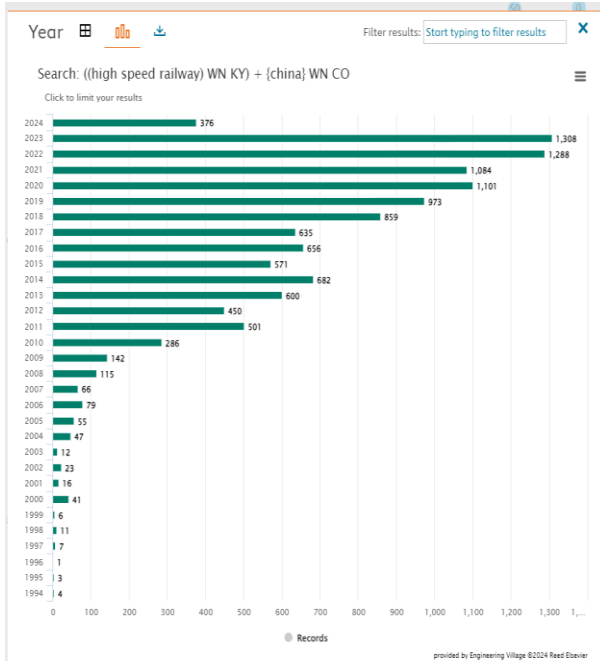
Country	Records
United States	15228
China	5499
Japan	2639
Germany	2510
Russia	1952
France	1528
United Kingdom	1513
Canada	1352
Korea, Republic Of	1245
Poland	1049
Italy	986
Spain	776
Taiwan	703
Netherlands	605
Australia	559
Mexico	443
Switzerland	383
Belgium	378
Ireland	365
Singapore	319
Israel	303
Ukraine	278

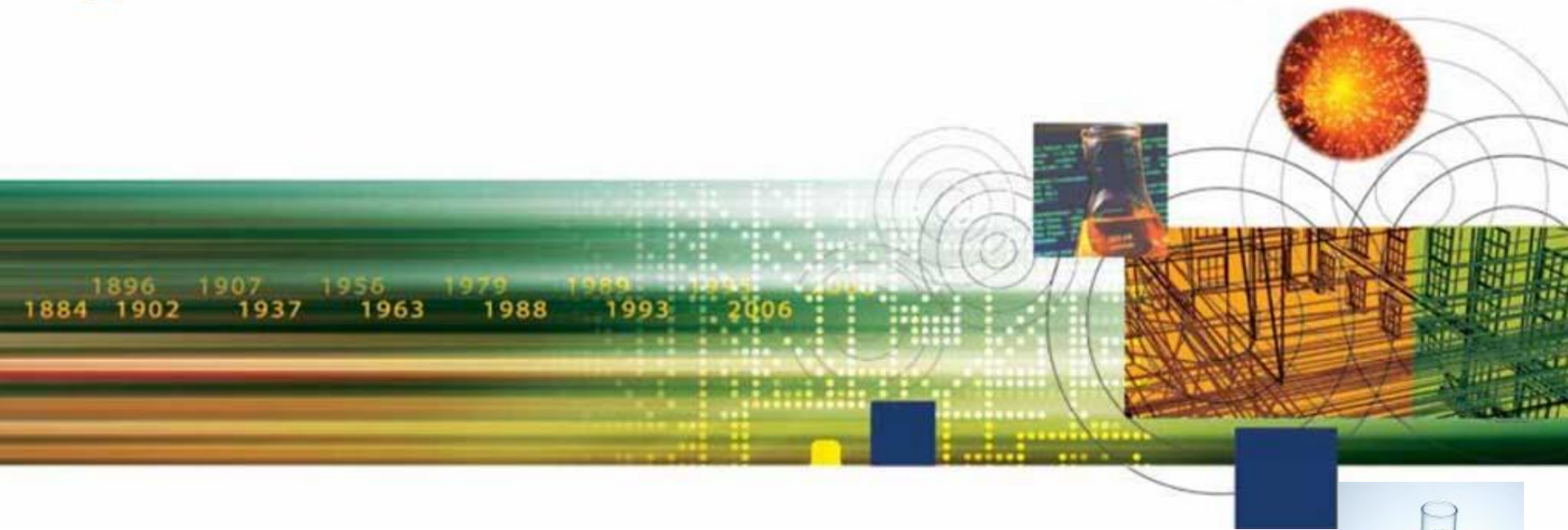
Figure 2: Line graph showing the trend of the data. The x-axis represents the countries, and the y-axis represents the number of records. The data points are connected by a line, showing a general downward trend from left to right.

Refine Results 的用途

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

• High speed railway 研究趋势





Expert Search – 专家检索



Engineering Village

Search

Search history

Alerts

Selected records

More

7



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)

输入检索词汇和检索字段代码

Reset form

Databases

Date

Sort by

Autostemming

Search codes

Browse indexes

Database

Code = Field

Code = Field

c = Compendex

AB = Abstract (c)
ACT = Open Access type (c)
AN = Accession number (c)
AF = Affiliation/Assignee (c)
ALL = All fields (c)
AU = Author/Inventor (c)
FIRSTAU = First author (c)
CL = Classification code (c)

GAG = Funding sponsor (c)
ICS = International Classification for Standards (c)
BN = ISBN (c)
SN = ISSN (c)
SU = Issue (c)
LA = Language (c)
NU = see Numerical Data Codes (c)
PA = Patent application date (c)

Codes displayed will depend on your current database selection

检索字段代码



ELSEVIER

通配符 *

- *命中检索词起始部分相同的记录
- Learn* 命中 learn, learns, learning, learned, learnt, learner(s), learner's, learnability, learnable

位置算符 “ ” { }

- 词组检索 “ ” 或 { }- 词间不能插词，词序不能颠倒



Integrating post-event very high resolution SAR imagery and machine learning for building-level earthquake damage assessment

Macchiarulo, Valentina (Department of Geoscience and Engineering, Delft University of Technology, Stevinweg 1, Delft; 2628 CN, Netherlands); Giardina, Giorgio; Milillo, Pietro; Aktas, Yasemin D.; Whitworth, Michael R. Z. Source: Bulletin of Earthquake Engineering, 2024

Article in Press

Database: Compendex

Document type: Article in Press

Show preview

Full text

Check Local Full-text

Analyzing Facebook Mobile Usage: Efficacy and ESL Learners' Writing Proficiency (Open Access)

Alam, Sohaib (College of Sciences and Humanities, Prince Sattam Bin Abdulaziz University, AlKharij, Saudi Arabia); Usama, Mohammad; Hameed, Ansa; Iliyas, Sana Source: International Journal of Interactive Mobile Technologies, v 18, n 3, p 60-74, 2024

Database: Compendex

Document type: Journal article (JA)

Show preview

Full text

Check Local Full-text

2. Reservation-based traffic signal control for mixed traffic flow at intersections

Huang, Xin (Key Laboratory of Intelligent Air Ground Cooperative Control for Universities in Chongqing, Chongqing; 400065, China); Wang, Huan; Li, Yongfu; Huang, Longwang; Zhao, Hang Source: Physica A: Statistical Mechanics and its Applications, v 633, January 1, 2024

Database: Compendex

Document type: Journal article (JA)

Show preview

Full text

Check Local Full-text

3. Distributed Traffic Signal Control of Interconnected Intersections: A Two-Lane Traffic Network Model

Ru, Xinfeng (Key Laboratory of Intelligent Control and Optimization for Industrial Equipment, Dalian University of Technology, Dalian; 116024, China); Xia, Weiguo; Bai, Ting Source: arXiv, January 21, 2024

Database: Compendex

Document type: Preprint (PP)

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Full text

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Urban Traffic Control Meets Decision Recommendation System: A Survey and Perspective

Ji, Qingyuan (Zhejiang Lab, Hangzhou; 311121, China); Wen, Xiaoyue; Jin, Junchen; Zhu, Yongdong; Lv, Yisheng Source: Database: Compendex

Document type: Journal article (JA)

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 Engineering Village

Quick search

Subject/Title/Abstract

for

learn*

AND

Controlled term

for

{machine learning}

AND

All fields

for

forecasting

AND

Author affiliation

for

"tsinghua university"

0

Selected records 101

More

?

Essential search

Quick Search

Expert Search

Thesaurus Search

Explore & find

Author

Affiliation

Conference Series

Beta

Analytical search

Engineering Research Profile

Inspec Analytics

Click to switch to professional search

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Databases

Date

Language

Document type

Sort by

Browse indexes

Autostemming

Discipline

Treatment

64 records found in Compendex for 1884-2025: (((((learn*) WN KY) AND ((({machine learning}) WN CV)) AND ((forecasting) WN ALL)) AND ((("tsinghua university") WN AF))

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Ei Compendex 工程引文索引



Engineering Village

Expert search

(((learn*) WN KY) AND (((machine learning)) WN CV)) AND ((forecasting) WN ALL

Databases ▾

Date ▾

Sort by ▾

Autostemming ▾

Search codes ▾

Browse indexes ^

Author ↗

Author affiliation ↗

Classification code ↗

Document type ↗

ICS code ↗

Language ↗

Source title ↗

Treatment ↗

Controlled term ↗

选控词



Expert search

(((learn*) WN KY) AND (((machine learning)) WN CV)) AND ((forecasting) WN ALL)) AND (("tsinghua university") WN AF) OR (((ACCIDENT PREVENTION)) WN CV)



Reset form



ELSEVIER

htt

Engineering Village - Browse Index Lookup - Work - Microsoft Edge



https://www.engineeringvillage.com/search/browseindex.url

Search for: Accident

Search index

Click on letter below to browse index:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Aa Ab Ac Ad Ae Af Ag Ah Ai Aj Ak Al Am An Ao Ap Aq Ar As At Au Av Aw Ax Ay Az

Select terms below to add to search

Connect terms with: ☐ AND ☒ OR

☒ ACCIDENT PREVENTION (Compendex)

☐ ACCIDENTS (Compendex)

☐ Accident prevention (Compendex)

☐ Accidents (Compendex)

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勾选自动生成

Controlled term ↗

选控词



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

www.ei.org

Thesaurus Search – 叙词检索



索引实现精确搜索和检索



The image shows a person's hands typing on a laptop. The laptop screen displays the following text:

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.

Four thought bubbles are shown to the right of the laptop, containing the following text:

- 术语表达
- 材料种类
- 不同机理
- 电池类型

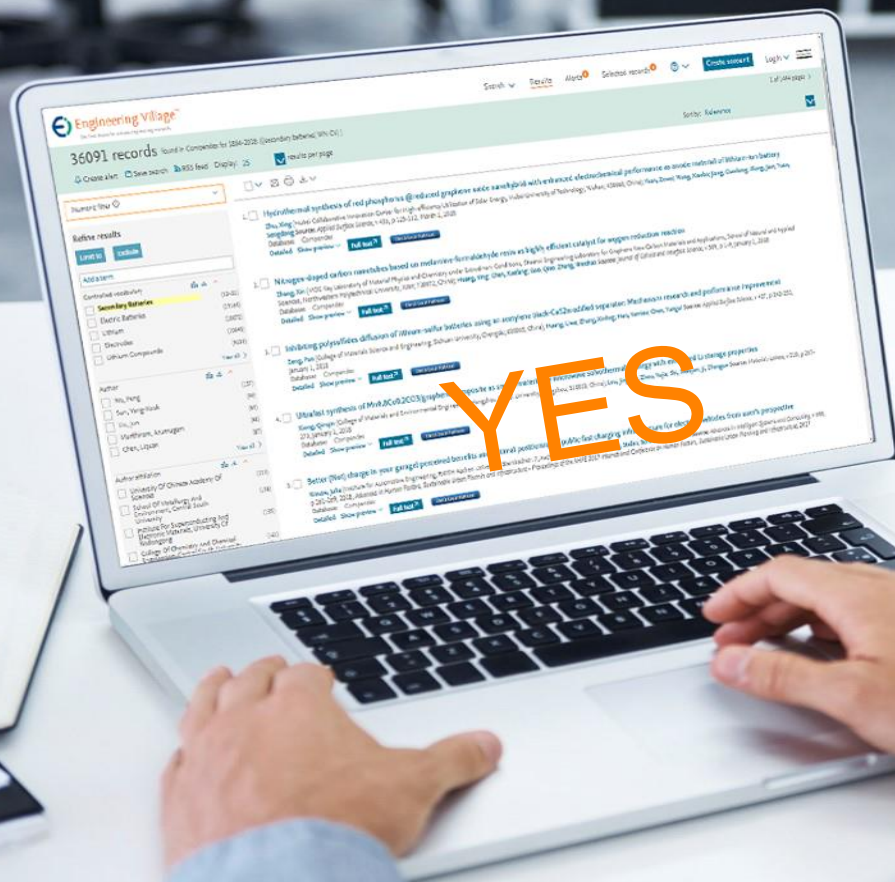
The word "Engineer" is written in orange text at the bottom right of the image.

如果没有Engineering Village上的Ei Compendex

NO

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

而在Engineering Village上的Ei Compendex...



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

精确查找特定研究领域：Ei独有的工程索引叙词表

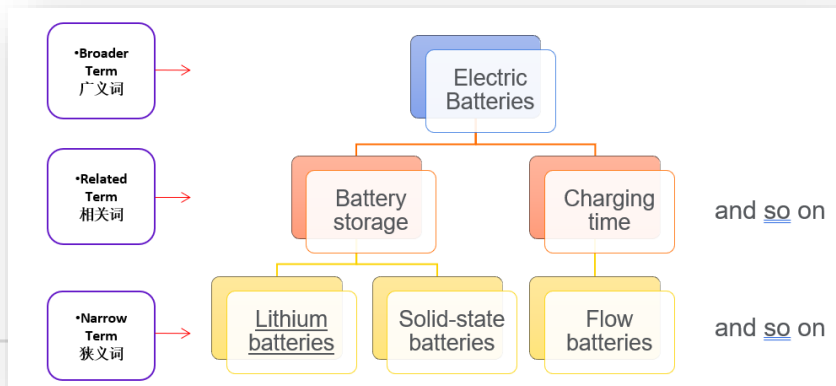
从1884年起，一直在发展中



叙词表是由**专业的规范词组成**，它可以将**同一主题不同表述的词**，按主题内容规范在标准的专业词下，避免了由于词汇书写不同造成漏检，或词义概念混淆导致错检的问题。

用户利用叙词表可从主题角度检索文献，进而提高文献的查准率。

利用叙词表还可以从主题概念的角度**扩展或缩小检索范围**。



叙词检索 Thesaurus Search: 先查词, 再查文章

Thesaurus search: Vocabulary search for secondary batter*

Database: ☒ Compendex ☐ Inspec ☐ PaperChem ☐ GEOBASE ☐ GeoRef

27 matching terms ^

secondary batter* 1 of 3 >

Term	Term
☒ Secondary batteries	☒ Charging (batteries)
☒ Automotive batteries	☐ Charging time
☐ Battery management systems	☐ Electric batteries
☐ Battery Pack	☐ Electric bikes
☐ Battery storage	☐ Electrolysis

Selected term(s) >

Secondary batteries X

Automotive batteries X

Charging (batteries) X

☐ AND
☒ OR

Reset form

左侧勾选,
右侧直接进
行组合检索

89,894 records found in Compendex for 1884-2024 : (((((Secondary batteries} WN CV) OR {(Automotive batteries} WN CV) OR {(Charging (batteries)} WN CV))))

1 of 899 pages >

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Open Access

☐ All Open Access	18,128
☐ Gold	8,939
☐ Hybrid Gold	2,423
☐ Bronze	2,512
☐ Green	6,524

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Controlled vocabulary

☐ Charging	59,408
☐ Secondary Batteries	48,987
☐ Electric Vehicles	20,531

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

Display: 100 results per page

- ☐ **A coreless track-type seamless wireless charging system using co-planar wires enabling quasi-free planar movements for mobile logistics robots**
Jo, Hyunkyeong (Department of Electrical Engineering, Ulsan National Institute of Science and Technology, Ulsan; 689-798, Korea, Republic of); **Seo, Seoktae; Kim, Jungho; Bien, Franklin** Source: *Applied Energy*, v 375, December 1, 2024
 Database: Compendex
 Document type: Journal article (JA)
 Show preview [Full text](#) [Check Local Full-text](#)
- ☐ **Solar Panel Tracking with Battery-Assisted and Battery Charging Modes**
Kavitha, S. (Department of Electrical and Electronics Engineering, Saveetha Engineering College, Chennai, India); **Karpaga Priya, R.; Sinthia, P.; Malathi, M.; Kanchana, K.; Chinthamani, B.** Source: *Lecture Notes in Networks and Systems*, v 1006 LNNS, p 55-65, 2024, *Universal Threats in Expert Applications and Solutions - Proceedings of 3rd UNI-TEAS 2024*
 Database: Compendex
 Document type: Conference article (CA)
 Show preview [Full text](#) [Check Local Full-text](#)
- ☐ **Joint Route Optimization of Electric Modular Buses and Mobile Charging Vehicles Considering Charging-on-the-move**
Li, Xin (Dalian Maritime University, College Of Transportation Engineering, Dalian; 116026, China); **Xie, Chengen; Yuan, Yun** Source: *IEEE Intelligent Vehicles Symposium, Proceedings*, p 63-68, 2024, *35th IEEE Intelligent Vehicles Symposium, IV 2024*
 Database: Compendex
 Document type: Conference article (CA)
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Feedback



Thesaurus search: Vocabulary search  for traffic control 

Database: ☒ Compendex ☐ Inspec ☐ PaperChem ☐ GEOBASE ☐ GeoRef

38 matching terms 

traffic control

Term

- ☒ Air traffic control
- ☒ Emergency traffic control
- ☐ Highway traffic control
- ☐ Railroad traffic control
- ☐ Street traffic control

Term

- ☐ Traffic control
- ☒ Air navigation--Air traffic control
- ☐ Railroads--Traffic control
- ☐ Street traffic control--Emergency measure
- ☐ Street traffic control--Parking

Exact term results 

traffic control > Traffic control

☐ Traffic control 

For: Transportation--Traffic control

Broader terms

- ☐ Transportation

Narrower terms

- ☐ Air traffic control
- ☐ Highway traffic control
- ☐ Railroad traffic control
- ☐ Street traffic control
- ☐ Traffic congestion
- ☐ Traffic signs

☐ AND ☒ OR

Reset form 



Refine by physical property 数值搜索

Refine by physical property 数值搜索

Design and testing of **45 kV, 50 kHz** pulse power supply for dielectric barrier discharges
Sharma, Surender Kumar¹ ✉, Shyam, Anurag¹
Source: *Discharge Science and Technology*, v. 10, October 1, 2016, ISSN: 0933-4674, E-ISSN: 1899-7633, DOI: 10.1016/j.dsc.2016.09.001, Article number: 100000, Publisher: Elsevier

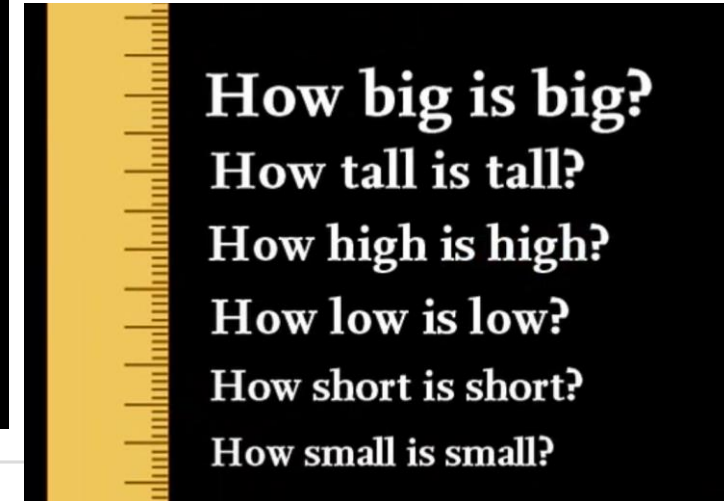
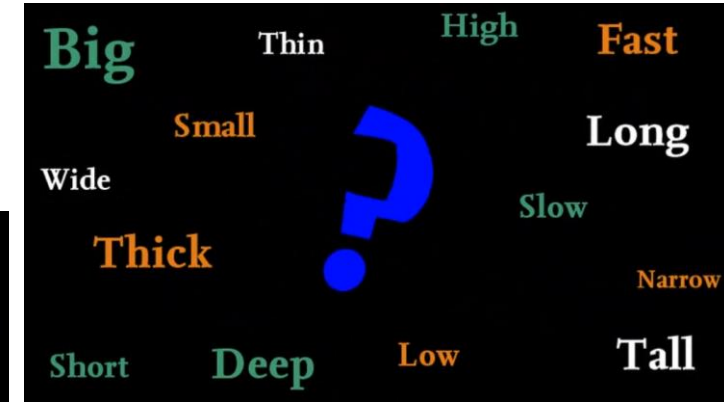
Wind survival strategy for a large point focusing solar collector: Analytical results of a **71 m/s (160 mph)** gust study
Bilodeau, E.A.¹, Durnin, J.E.¹, Rogers, W.E.¹
Source: *Journal of Microelectromechanical Systems*, v. 24, n. 1, p. 108-114, February 1, 2015, ISSN: 1057-7157, DOI: 10.1109/JMEMS.2014.2317778, Article number: 6825800, Publisher: Institute of Electrical and Electronics Engineers

Millimeter-scale traveling wave rotary ultrasonic motors
Rudy, Ryan Q.^{1,2} ✉, Smith, Gabriel L.¹ ✉, DeVoe, Don L.² ✉, Polcawich, Ronald G.¹ ✉
Source: *Journal of Microelectromechanical Systems*, v. 24, n. 1, p. 108-114, February 1, 2015, ISSN: 1057-7157, DOI: 10.1109/JMEMS.2014.2317778, Article number: 6825800, Publisher: Institute of Electrical and Electronics Engineers

Novel MEMS **900 MHz** electrostatic silicon delay line
Tabib-Azar, Massoud¹ ✉, Alzoubi, Khawla², Saab, Daniel²
Source: *Proceedings of IEEE Sensors*, p. 205-207, 2010, IEEE Sensors 2010 Conference, SENSORS 2010, ISSN: 1530-4388, E-ISSN: 2153-3992, ISBN: 978-1-4244-6163-2, DOI: 10.1109/SENSOR.2010.5600425, Article number: 5600425

Optical receivers in **0.35 μm** BiCMOS for heterogeneous 3D integration
Milovanec, Dinka¹ ✉, Brandt, Paul¹ ✉, Vokic, Nemanja¹ ✉, Goll, Bernhard¹ ✉, Schneider-Hornstein, Kerstin¹ ✉
Source: *Formal Proceedings of the 2016 IEEE 19th International Symposium on Design and Diagnostics of Electronic Circuits and Systems, DDECS 2016*, May 31, 2016, *Formal Proceedings of the 2016 IEEE 19th International Symposium on Design and Diagnostics of Electronic Circuits and Systems, DDECS 2016*, ISBN-13: 9781509024674, DOI: 10.1109/DDECS.2016.7482450, Article number: 7482450, Conference: 19th IEEE International Symposium on Design and Diagnostics of Electronic Circuits and Systems, DDECS 2016, April 20, 2016 - April 22, 2016, Publisher: Institute of Electrical and Electronics Engineers Inc.

Author affiliation:
¹ Institute of Electrodynamics, Microwave and Circuit Engineering, Vienna University of Technology, Vienna, Austria



Refine by physical property 数值搜索

- 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。

Engineering Village 支持中心



请注意：在 62 个数字字段中，每个字段均有一个默认度量单位。此外，部分字段有多个 [optional units of measure \(可选度量单位\)](#) 可供使用。使用数值数据筛选功能进行搜索时，可将可选的单位自动换算成默认的单位。使用此功能，您可以自行选择度量单位，而无需将其转换成默认度量单位。例如，“Time (时间)”字段的默认单位为“second (秒)”。但这并不意味着您必须将搜索词转换成秒，才可以使用此数值数据筛选功能。您可选择其他的任何选项（飞秒、小时、微秒、毫秒、分钟、纳秒或皮秒）进行查询。

数据类型	字段名称	说明	默认单位 (区分大小写)	数据库	厘米	cm
吸收剂量	NU_ABSORBED_DOSE	戈瑞	Gy	Compendex和Inspec	英尺	ft
加速度	NU_ACCELERATION	米每二次方秒	m/s ²	Compendex	英寸	in
年龄	NU_AGE	岁	yr	Compendex和Inspec	千米	km
物质的量	NU_AMOUNT_OF_SUBSTANCE	摩尔	mol	Compendex	*米	m
角速度	NU_ANGULAR_VELOCITY	弧度每秒	rad/s	Compendex	微米	um
视在功率	NU_APPARENT_POWER	伏安	VA	Compendex和Inspec	英里	miles
面积	NU_AREA	平方米	m ²	Compendex	毫米	mm
					纳米	nm

https://cn.service.elsevier.com/app/answers/detail/a_id/27296/supporthub/engineering-village/

实例：半导体纳米技术

1,251,857 records found in Compendex for 1884-2025: ((semiconductor) WN ALL)

1 of 12,519 pages >

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172,156

☐ Gold

55,734

☐ Hybrid Gold

21,676

☐ Bronze

31,672

☐ Green

81,756

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Document type



☐ Journal article

790,229

☐ Conference article

361,882

☐ Preprint

33,361

☐ Dissertation

17,639

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Size

选择尺寸



There are 245,158 total results for Size

<=



14

输入数字

Nanometer (nm)

选择单位



Refine

Sustainability Model for Semiconductor Manufacturing

Qi, Eason (Applied Materials, AGS, Santa Clara; CA, United States); Luo, Tienying; Wick, Mallory; Armer, Helen; Raiford, Michael; Marteniz, Tony; Mittal, Sanjiv

Source: ASMC (Advanced Semiconductor Manufacturing Conference) Proceedings, 2024, 2024 35th Annual SEMI Advanced Semiconductor Manufacturing

Conference, ASMC 2024

Database: Compendex

Document type: Conference article (CA)

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实例：半导体纳米技术

1,747 records found in Compendex for 1884-2025: ((semiconductor) WN ALL) × + (NU_SIZE LTE 14 nm) × + cmos ×

1 of 18 pages >

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- ☐ All Open Access 253
- ☐ Gold 103
- ☐ Hybrid Gold 38
- ☐ Bronze 52
- ☐ Green 81

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Document type

- ☐ Journal article 815
- ☐ Conference article 760



Display: 100 results per page

- ☐ **A snapshot review on metal-semiconductor contact exploration for 7-nm CMOS technology and beyond**
Yu, Hao (imec, Kapeldreef 75, Louvain, Belgium); Schaekers, Marc; Everaert, Jean-Luc; Horiguchi, Naoto; De Meyer, Kristin; Collaert, Nadine Source: *MRS Advances*, v 7, n 36, p 1369-1379, December 2022
Database: Compendex
Document type: Journal article (JA)
Show preview ☐ Cited by in Scopus (4) [Full text](#) [Check Local Full-text](#)
- ☐ **Matched printed carbon nanotube complementary metal-oxide-semiconductor (CMOS) devices for flexible circuits**
Guo, Penghui (SEU-FEI Nano-Pico Center, Key Laboratory of MEMS of Ministry of Education, School of Integrated Circuit, Southeast University, Nanjing; 210096, China); Li, Min; Shao, Shuangshuang; Fang, Yuxiao; Chen, Zheng; Guo, Hongxuan; Zhao, Jianwen Source: *Carbon*, v 215, November 2023
Database: Compendex
Document type: Journal article (JA)
Show preview ☐ Cited by in Scopus (4) [Full text](#) [Check Local Full-text](#)
- ☐ **Zero-Change CMOS Nanophotonics: Converting Foundry Semiconductor Chips to Plasmonic Electro-optic Modulators**
ElKabbash, Mohamed (Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge; MA, United States); Harris, Isaac; Trajtenberg-Mills, Sivan; Bandyopadhyay, Saumil; Chen, Xibi; Ibrahim, Mohamed I.; Han, Ruonan; Englund, Dirk Source: *2023 Conference on Lasers and Electro-Optics, CLEO 2023*, 2023, 2023 Conference on Lasers and Electro-Optics, CLEO 2023
Database: Compendex
Document type: Conference article (CA)
Show preview ☐ [Check Local Full-text](#)

实例：半导体纳米技术

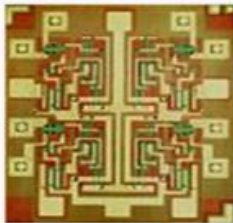
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二：提高查全率-数值检索比关键词检索的结果多出一倍

三：高效便捷地跟踪前沿

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

实例：高速交通管控

88,926 records found in Compendex for 1884-2025: (("traffic control") WN ALL)

1 of 890 pages >

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☐ Gold

4,217

☐ Hybrid Gold

920

☐ Bronze

1,874

☐ Green

4,988

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Document type

☐ Conference article

44,557

☐ Journal article

38,100

Refine

By physical property

Filter results by physical properties such as size, temperature, pressure and [many more](#).

Velocity

There are 625 total results for Velocity

>=

100

Kilometer/Hour (km/hr)

Refine

Conference on Autonomous Agents and Multiagent Systems, AAMAS, v 2024-May, p 889-897, 2024, AAMAS 2024 - Proceedings of the 23rd International Conference on Autonomous Agents and Multiagent Systems

Database: Compendex

Document type: Conference article (CA)

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A Survey and Perspective

en; Zhu, Yongdong; Lv, Yisheng Source: IEEE/CAA Journal of Automatica Sinica, v

policies: Perimeter control, TUC, and their combination

439, United States); Minatto Saucedo, Rafael; Mousavizadeh, Omid; Castelan
A: Policy and Practice, v 186, August 2024

Control Systems

es); Wenkstern, Rym Z. Source: Proceedings of the International Joint
A: Policy and Practice, v 186, August 2024

实例：高速交通管控

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☐ Journal article 122

1. ☐ Safety and Operational Analysis of Free Right-Turn Ramps at Rural Intersections

Haque, M M Shariat (Department of Civil and Environmental Engineering, Mid-America Transportation Center, University of Nebraska-Lincoln, Lincoln, NE, United States); Camenzind, Jon; Khattak, Aemal Source: Transportation Research Record, 2024

Article in Press

Database: Compendex

Document type: Article in Press

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2. ☐ Research on Influencing Factors on the Safety of Right-Turn Ramps at Rural Intersections

Zhao, Jing (Business School, Yunnan University of Aeronautics and Astronautics, Kunming, China)

Database: Compendex

Document type: Journal article

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3. ☐ Modeling and Operational Analysis of Right-Turn Ramps at Rural Intersections

Tang, Qing (The Pennsylvania State University, University Park, PA, United States)

Database: Compendex

Document type: Dissertation

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Classification codes:

406.2 Roads and Streets

723 Computer Software, Data Handling and Applications

911 Cost and Value Engineering; Industrial Economics

912.2 Management

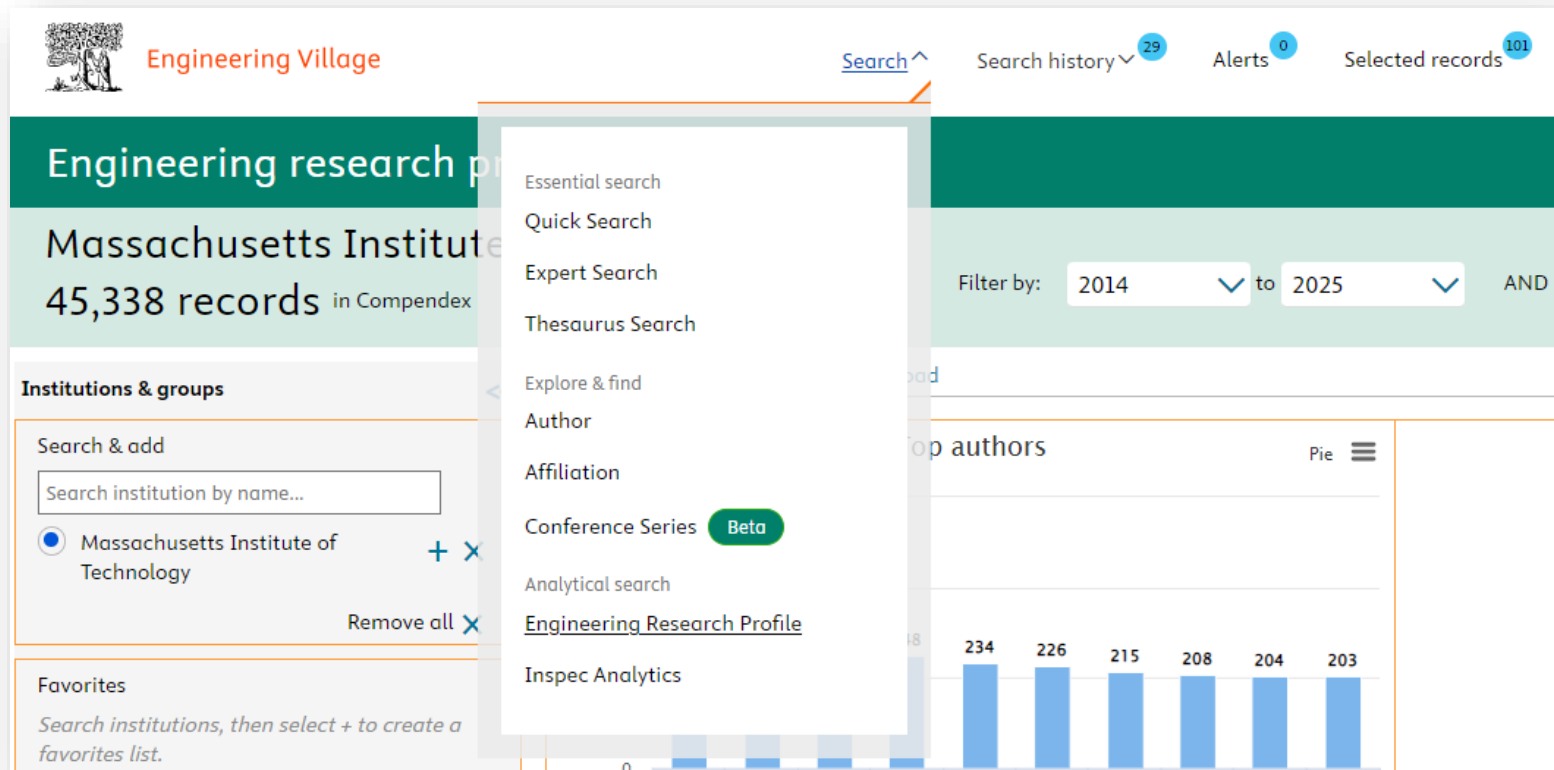
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1884 1902 1937 1963 1988 1993 2006

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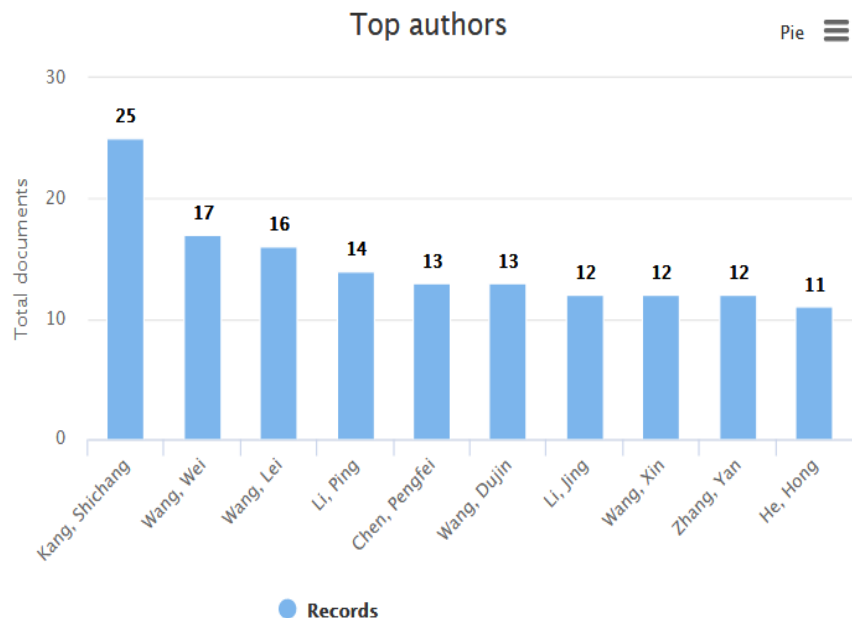


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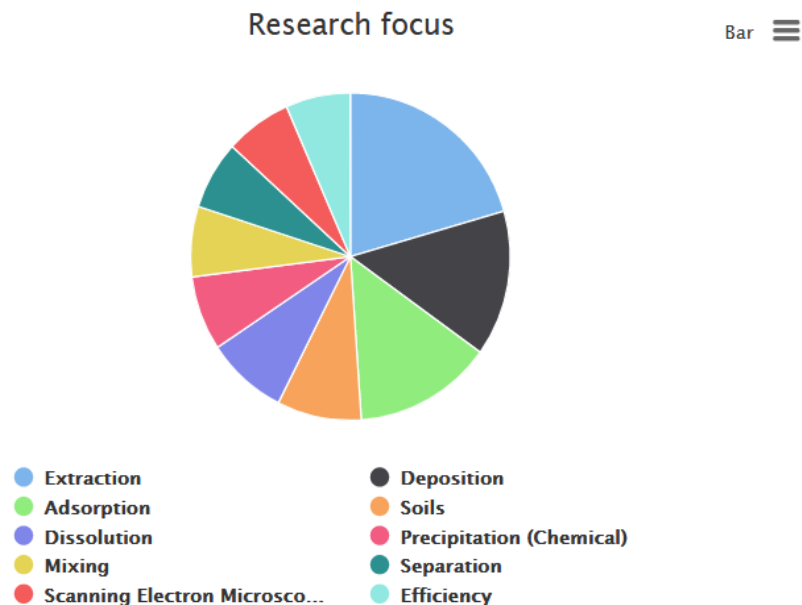
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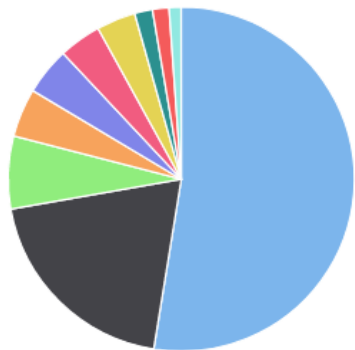


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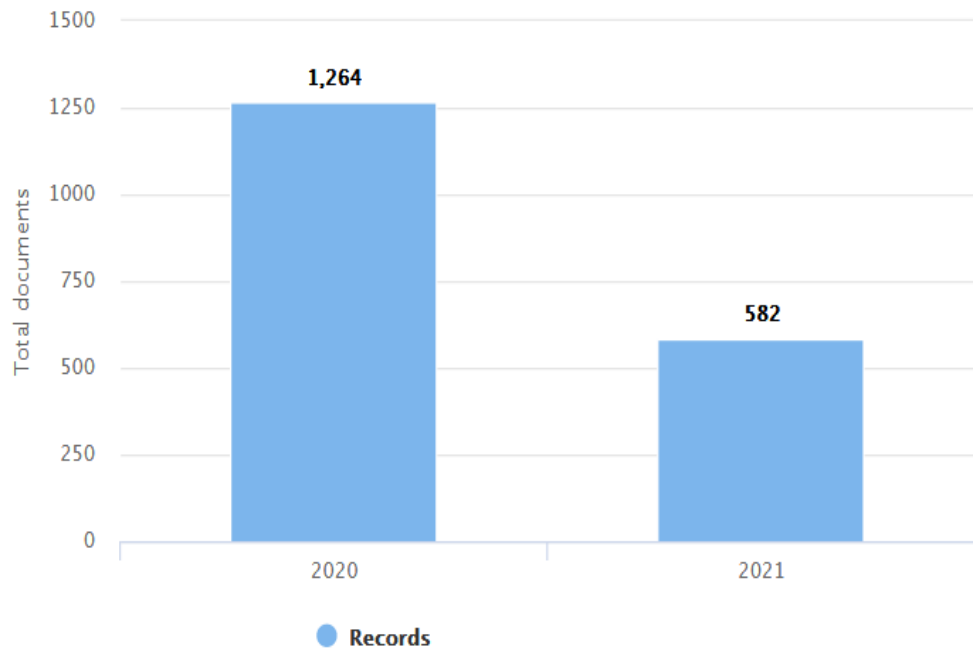
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- national key research and development project
- national basic research program
- china postdoctoral science foundation
- china scholarship council
- chinese academy of sciences
- youth innovation promotion action plan
- fundamental research funds for central government
- youth innovation promotion action plan
- natural science foundation of china

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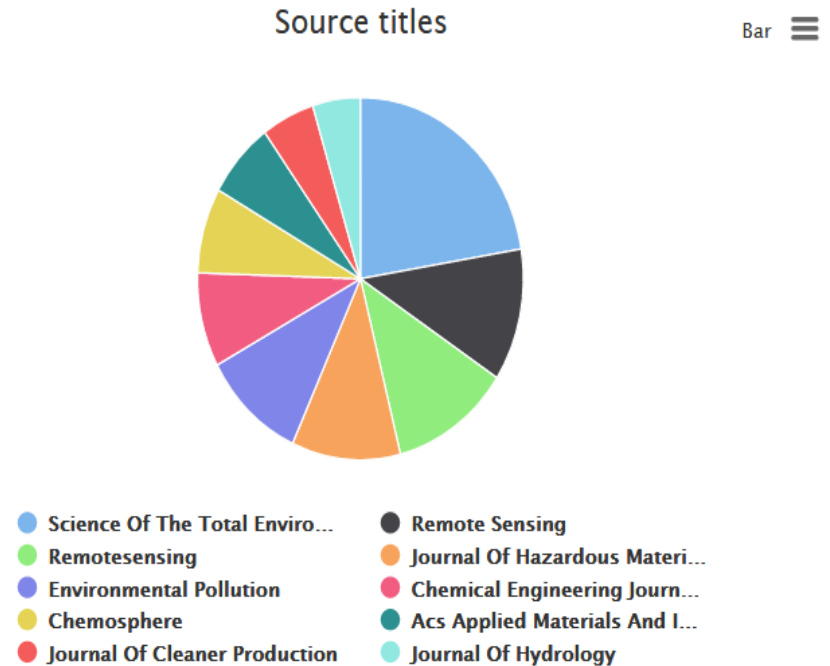
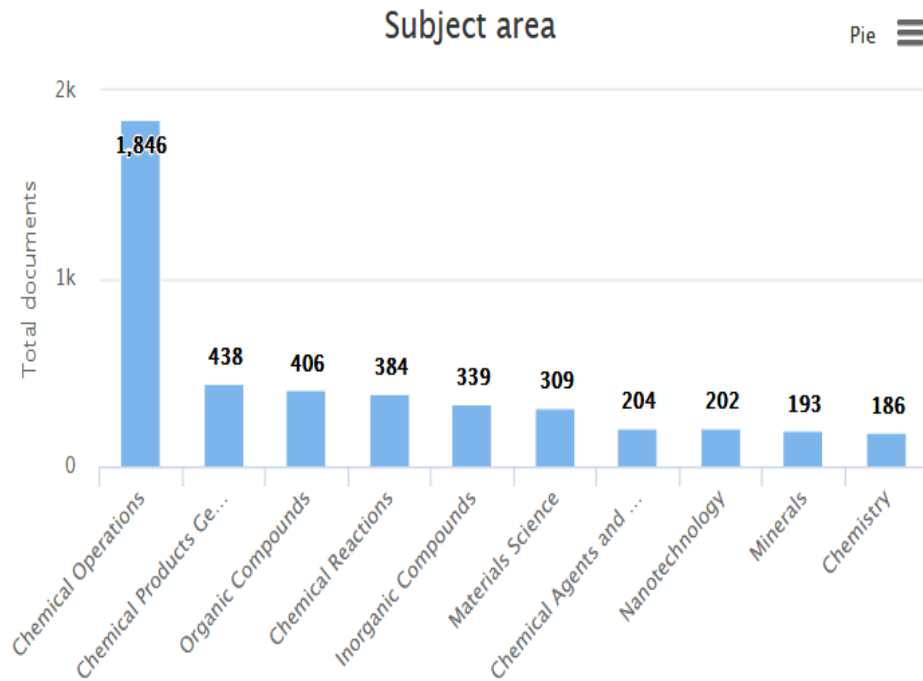
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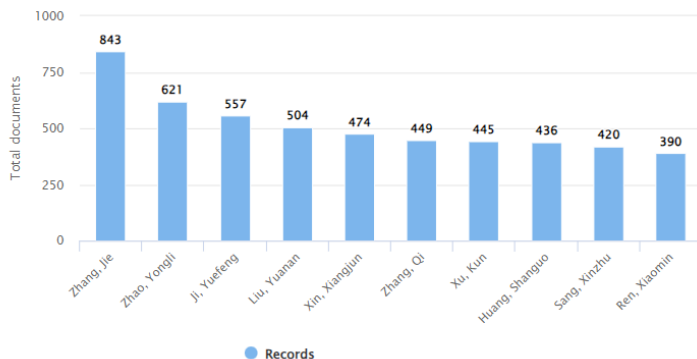
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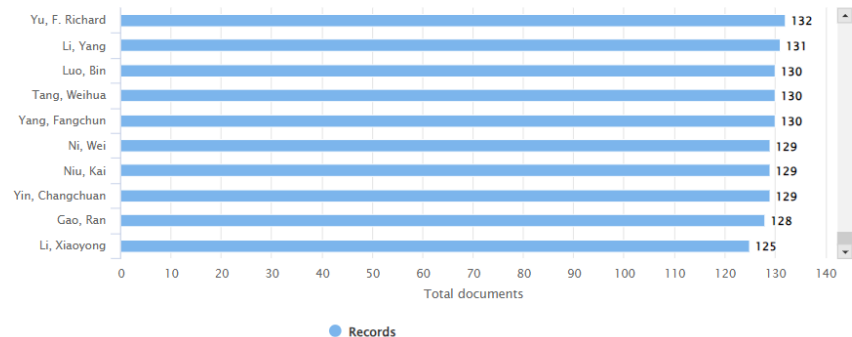


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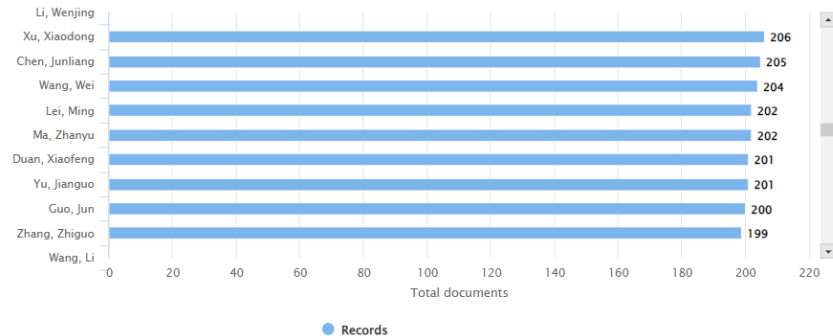
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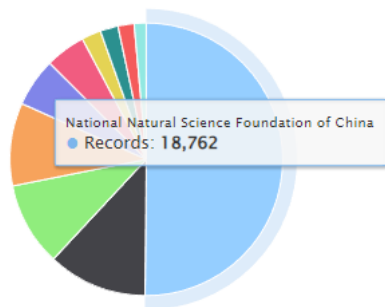


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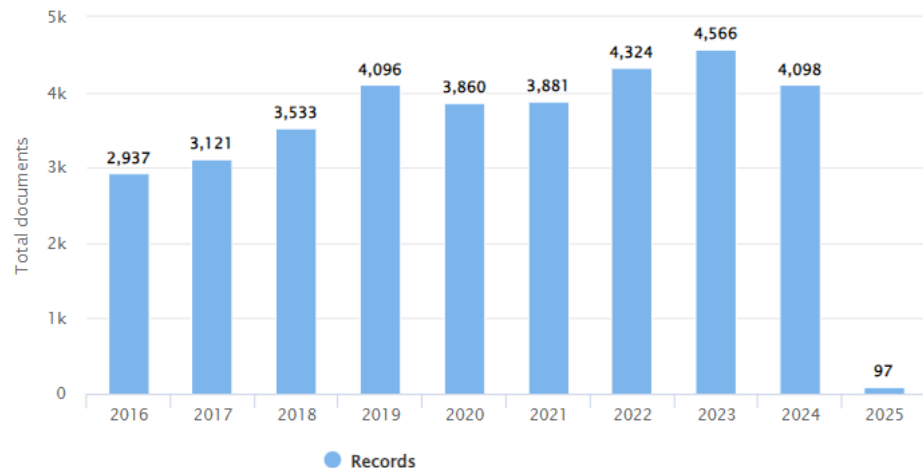


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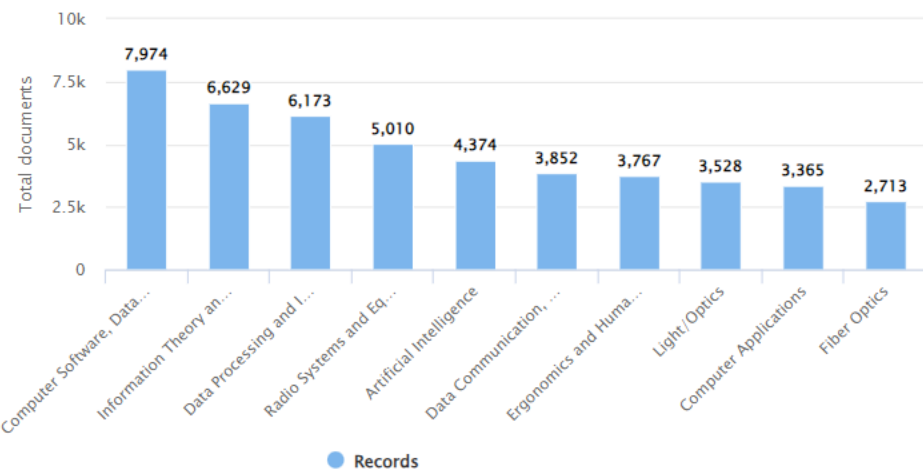
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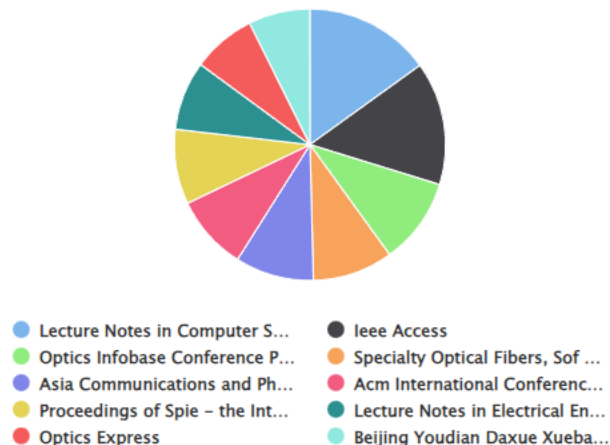
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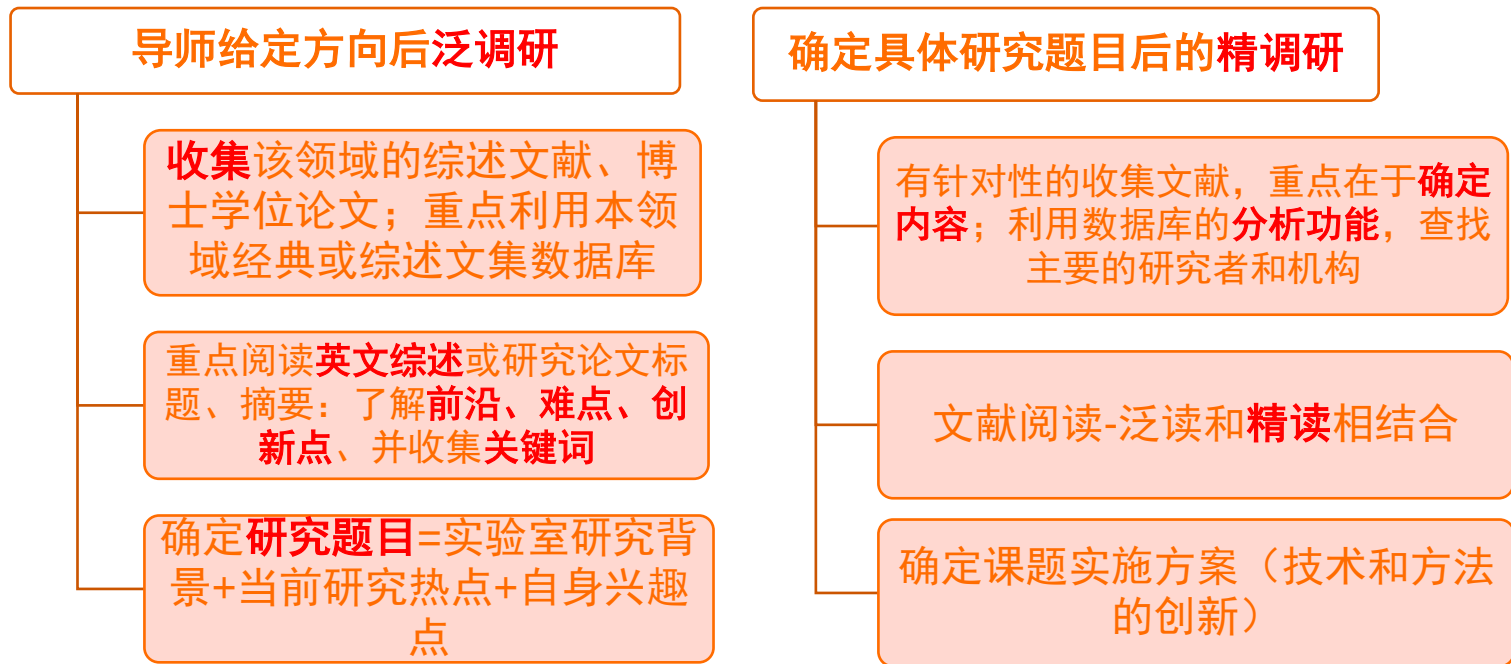
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一、文献收集重点-文献调研阶段



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 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 highlighted with a red box, and its dropdown menu is open, showing options like 'All Treatments', 'Experimental', 'Management aspects', 'Applications', 'General review', 'Numerical', 'Biographical', 'Historical', 'Theoretical', 'Economic', and 'Literature review'. The 'Literature review' option is also highlighted with a red box. Two orange callout boxes with blue borders are overlaid on the interface. The first callout box, labeled 'General Review' and '综述', points to the 'General review' option in the 'Treatment' dropdown. The second callout box, labeled 'Literature Review' and '文献综述', points to the 'Literature review' option in the 'Treatment' dropdown. The bottom of the page features the Elsevier logo and the text 'ELSEVIER Terms and Conditions Privacy Policy'.

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☐ Experimental
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☐ Applications
☐ General review
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综述

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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
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- The screenshot shows the Engineering Village search results page. Two orange callout boxes highlight filtering options: 'Author' (作者信息) and 'Author Affiliation' (机构信息). The 'Author' box points to the 'Author' filter section, which lists authors like Wang, Wei (1194), Zhang, Wei (1139), Li, Wei (1112), Wang, Jun (883), and Wang, Yan (806). The 'Author Affiliation' box points to the 'Author affiliation' filter section, which lists institutions like 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), and State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology (1705). The search results list various papers, including 'Predicting the temperature from air temperature: Using least square method' and 'Sustainable energy: Human factors in geothermal water resource management'.



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)

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2. ☐ A multiagent approach to autonomous intersection

Dresner, Kurt (Department of Computer Sciences, University of Texas at Austin, TX 78712, United States); **Stone, Peter** **Source:** Journal of Artificial Intelligence Research, v 31, p 591-656, January/April 2008

Database: Compendex

Document type: Journal article (JA)

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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)

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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)

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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？
 - 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？

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

Author	
☐ Wang, Wei	(1194)
☐ Zhang, Wei	(1139)
☐ Li, Wei	(1112)
☐ Wang, Jun	(883)
☐ Wang, Yan	(806)
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作者机构

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)
☐ Cairo Land And Water	(1818)
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☐ Chemistry	(185796)
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☐ Journal article	(1171538)
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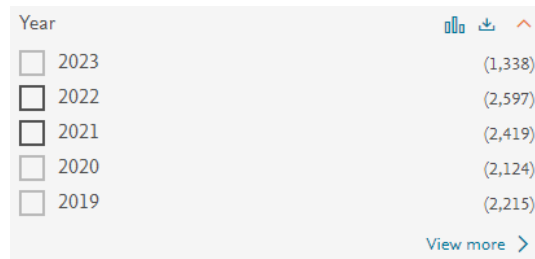
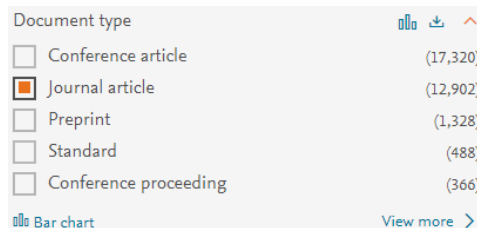
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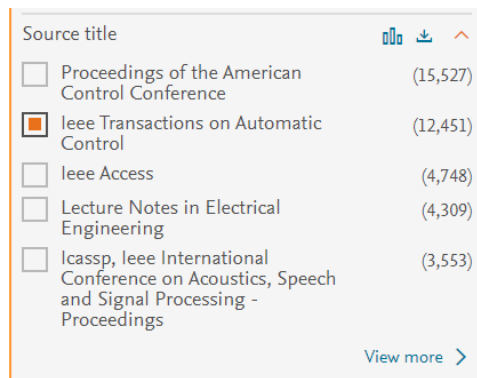
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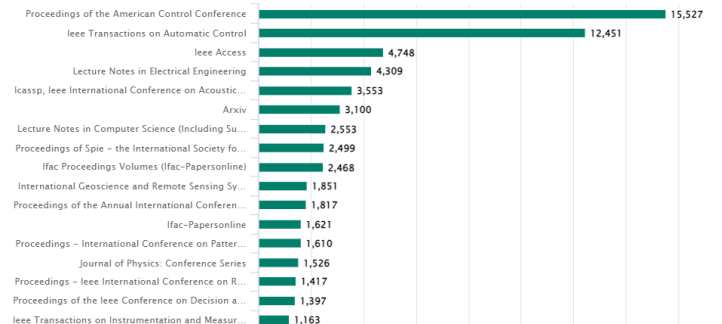
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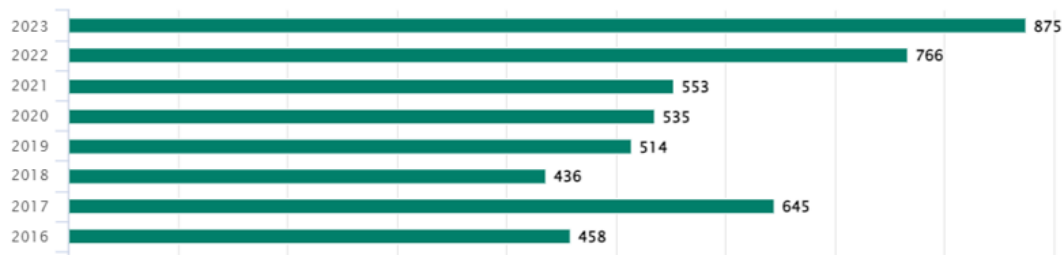
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☐ Xie, Lihua	(43)
☐ Hong, Yiguang	(38)
☐ Ren, Wei	(37)
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Author affiliation	
☐ School of Electrical and Electronic Engineering, Nanyang Technological University	(69)
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☐ School of Control Science and Engineering, Shandong University	(42)
☐ Department of Mechanical Engineering, University of Hong Kong	(38)
☐ State Key Laboratory of Synthetical Automation for Process Industries, Northeastern University	(38)

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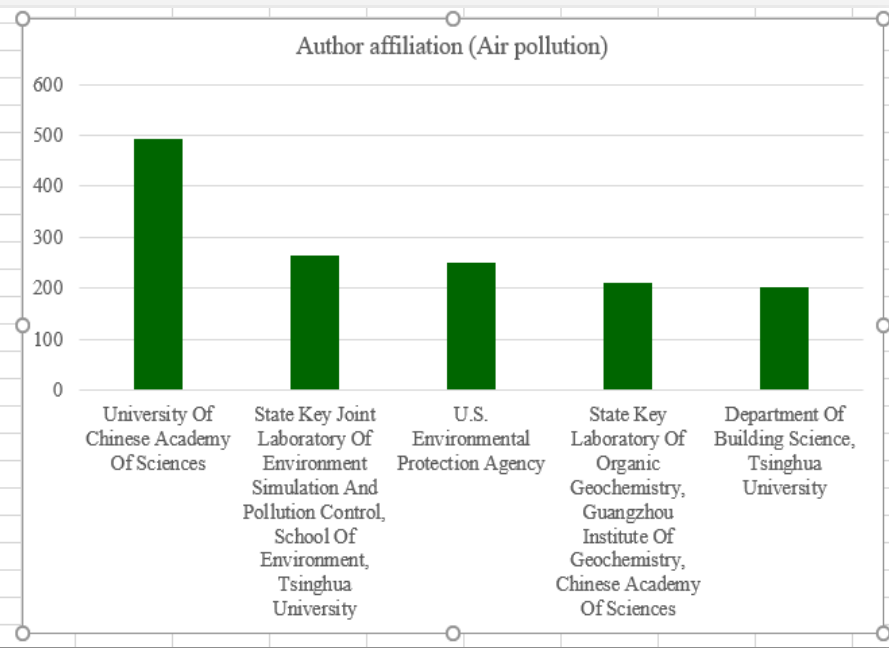
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U.S. Environmental Protection Agency	250
State Key Laboratory Of Organic Geochemistry, C	211
Department Of Building Science, Tsinghua Univer	202
State Environmental Protection Key Laboratory C	200
State Key Laboratory Of Environmental Criteria A	186
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
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National Center For Atmospheric Research	118
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Abstract
Agriculture is the foundation of the national economy, and Chinese agriculture in the digital background should realize the intelligent management of agricultural production To improve the efficiency of international trade of Chinese agricultural products and help Chinese agricultural products occupy a larger share in the international market, this paper takes the clustering algorithm and agricultural IoT technology as the research method applies the improved spectral clustering algorithm for processing agricultural data to extract research data and perform data correction, simulates and evaluates the performance of the algorithm through agricultural IoT data pooling and simulation analysis, and uses the chance routing performance index as the main judgment The variance results are derived from the criteria. The data show that the production of agriculture, forestry, animal husbandry, and fishery has developed qualitatively in the digital background, and the total output value reached 122,874.96 billion yuan in 2021, and the total grain production reached 73,000,000 tons in 2021, with obvious export advantages. The export value of agricultural products has grown from \$48.98 billion in 2020 to \$85.06 billion in 2021, and the export value of China's agricultural products exceeded \$70 billion in 2014, making China's international trade in agricultural products fruitful. Based on this, this paper explores the multifaceted achievements and future development path of international trade in agricultural products in the context of digitalization, intending to contribute its share to China's international trade in agricultural products.
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(2022) Mathematical Problems in Engineering

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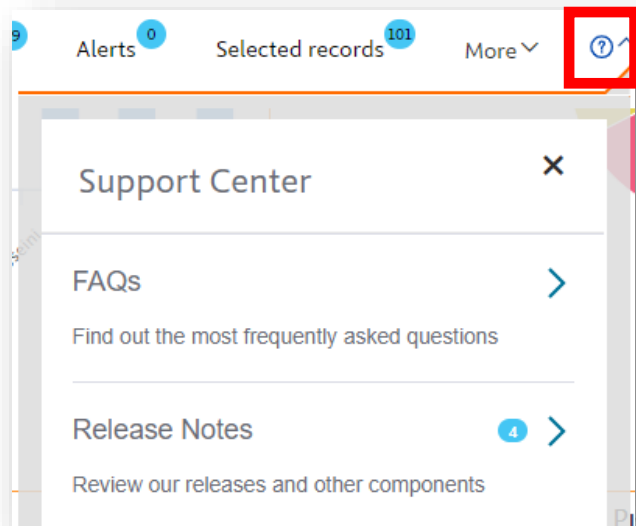
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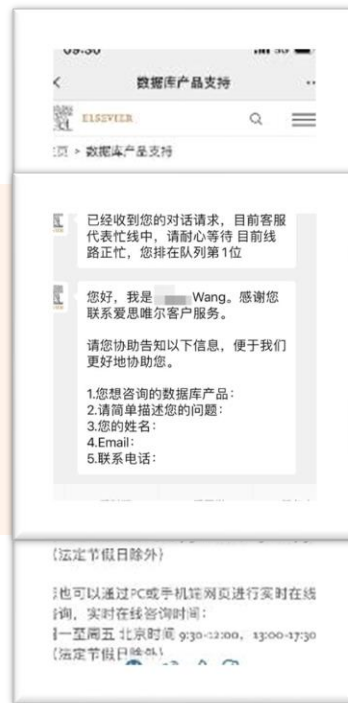
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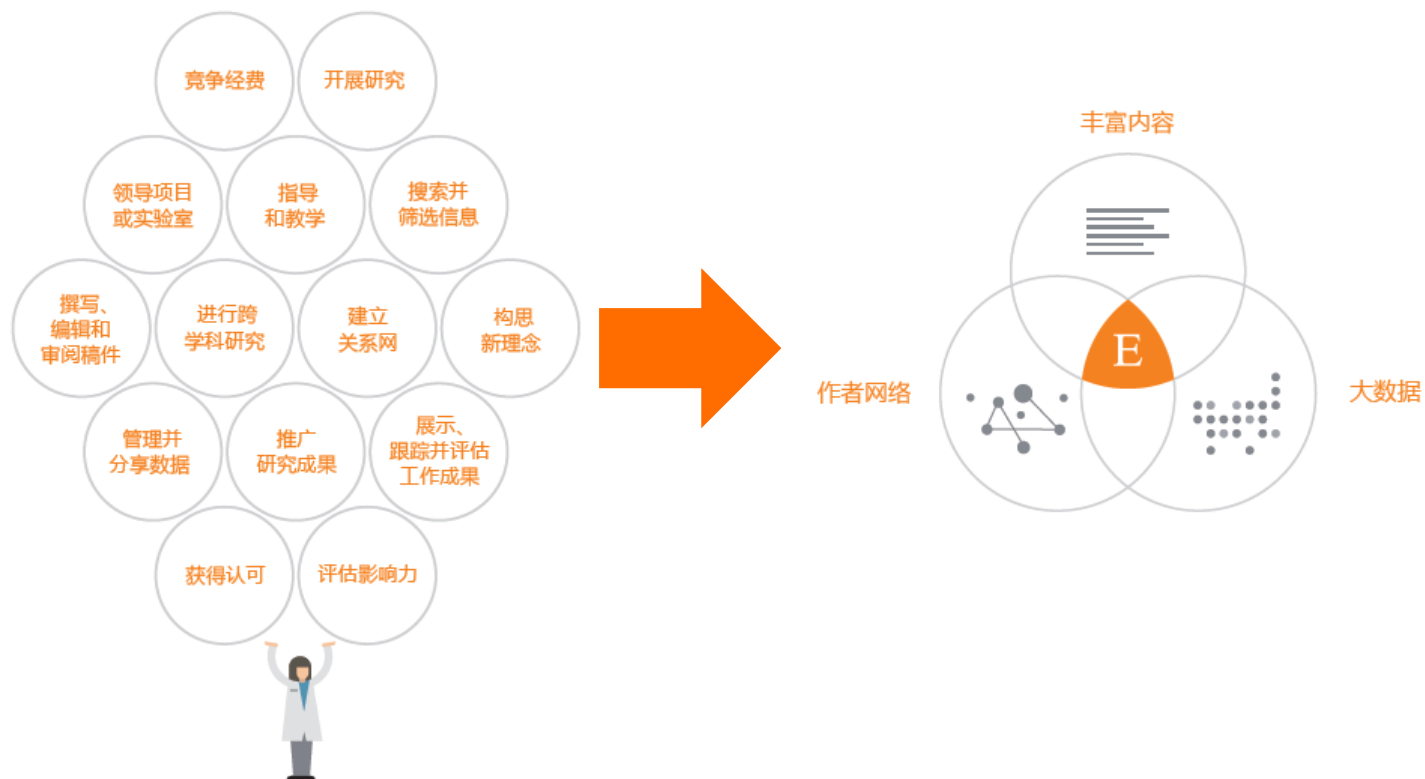
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