



Engineering Village- 开展工程领域研究的首选方案

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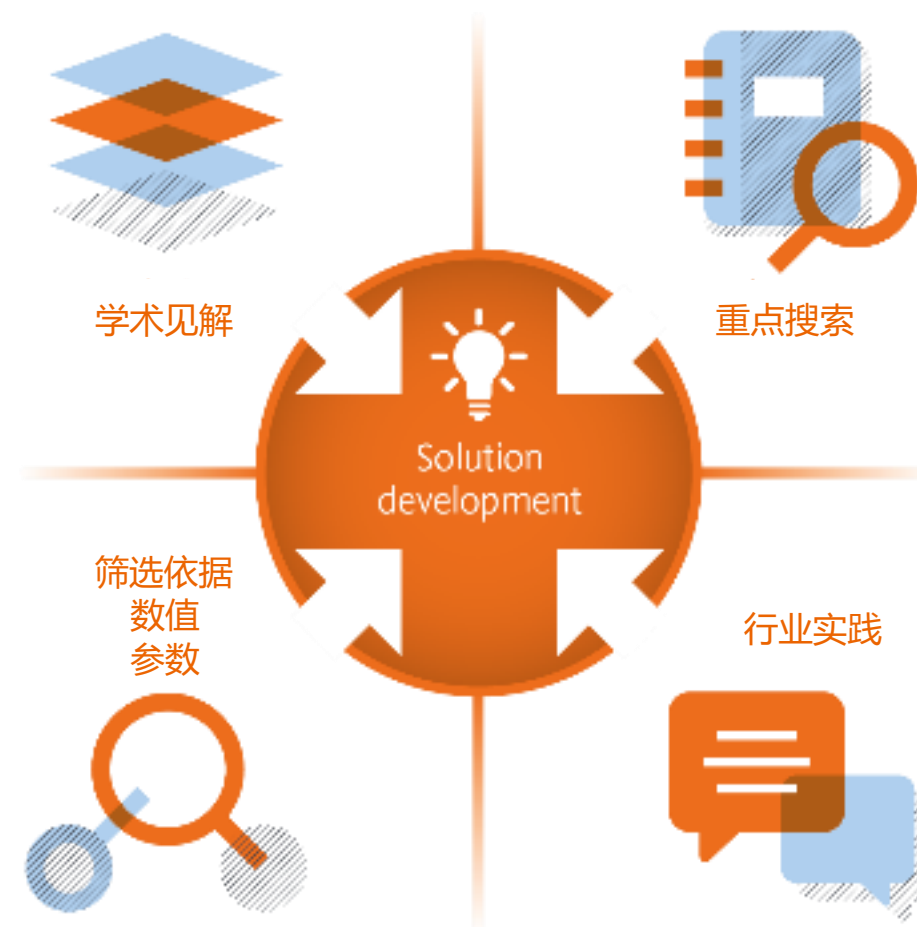
Engineering Village ——工程领域研究的首选方案 (EI Compendex)

Engineering Village®

为工程创新提供动力

工程是一门理论与实践结合的学科。需要面对和解决现实世界的多种挑战。

工程师和工程研究人员需要借助多种类的文献、信息、经验、方法，综合分析总结用于解决问题或实现技术创新。



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Ei Compendex简介

工程文献调研案例

Ei 基本检索 & 特色检索

常见问题 & 支持中心

Ei Compendex 简介

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<https://www.engineeringvillage.com>

Compendex

- The most comprehensive engineering literature database
- Comprised of journals, conference proceedings, dissertations, standards, books, and recently preprints, Compendex content is sourced from thousands of publishers from around the world,
- It is a tool of choice for 85% of the Top ranked Engineering schools in the US and 75% of the Top ranked Engineering schools worldwide.

[Learn more about Compendex](#)

Inspec

- Developed by the Institution of Engineering and Technology (IET).
- Contains 22M+ records across physics, engineering, computing, and IT.
- Inspec Analytics offers research intelligence using the Inspec database and EV integration.

[Learn more about Inspec](#)

Ei Backfile

- The Ei Backfile offers a historical view of engineering innovations before 1970.
- Engineering Index records major global engineering advancements across Civil, Mechanical, Electrical, and Mining Engineering.

[See what's included in Ei Backfile](#)

Ei Patents Plus

- Ei Patents provides access to US (USPTO), European (EPO), and World (WIPO) patent records.
- Updated weekly, it covers applications, granted patents, and supports US, CPC, and IPC classifications.

Chemical Business NewsBase

- CBNB tracks market trends, commercial developments, and regulations in the chemical and chemical engineering industry.
- It provides financial data, R&D news, and legislative updates from key industry sources.
- Content includes trade journals, newspapers, company newsletters, and expert analysis.

[See which industrial sectors are covered.](#)
[See which journals are included.](#)

GeoRef

- GeoRef, produced by the American Geosciences Institute (AGI), offers comprehensive coverage of geology and geoscience literature.
- It's the most in-depth A&I database for geoscience research, indexed with terms from the GeoRef Thesaurus and geolocation data when applicable.
- The database holds over 4.6 million records dating back to 1666.

[GeoRef covers the following subject categories.](#)

GEOBASE

- Indexed research on international geoscience and geography literature, focusing on human/physical geography, ecology, geology, oceanography, geomorphology, and development studies/impacts.
- GEOBASE offers in-depth geological evaluations, covering structure, natural resources, and connections to resource management, transport, and planning.
- The content spans various subjects, languages, and cultures, providing a unique research tool. [View source list](#)

PaperChem

- PaperChem is a specialized database for pulp and paper industry research, covering chemistry, engineering, and production technology.
- It is indexed using the Thesaurus of Pulp and Paper for precise categorization.
- Content is curated from industry-specific and multidisciplinary publications.

[View source list](#)

National Technical Information Service

- The NTIS database is the US Federal Government's clearinghouse for scientific and technical information (STEL), offering unclassified reports from US and international government agencies.
- It covers various subjects, including Electrotechnology, Energy, and Health Care.
- The database contains 2.6 million reports, with 82% from the US and 18% from other countries, including 3,836 from international organizations.

[See more](#)

Chimica

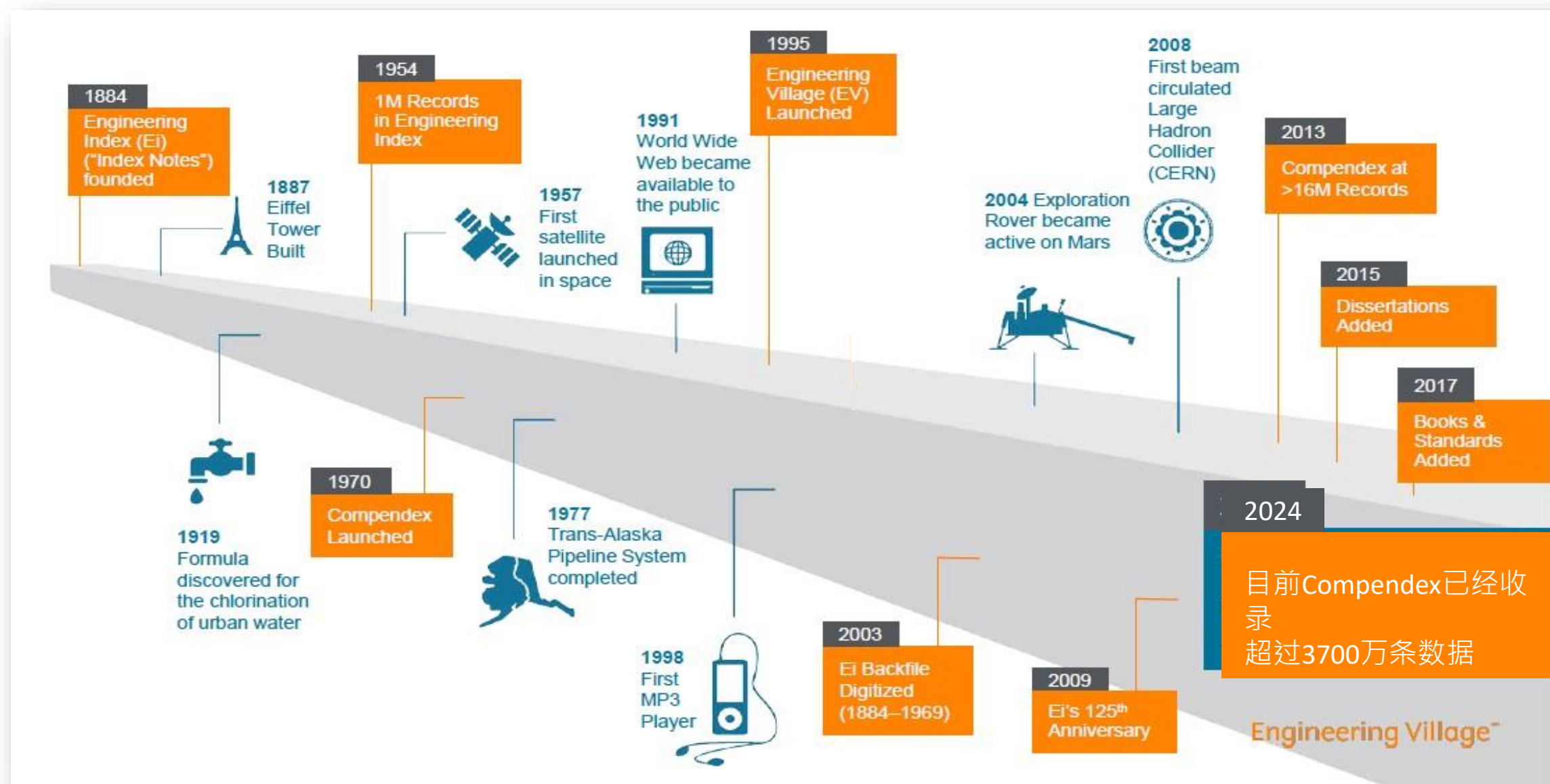
- Chimica offers reliable, up-to-date information for chemistry and chemical engineering researchers.
- It features a weekly updated database of engineering literature abstracts.
- Content is indexed from top international chemistry journals, covering all major chemistry fields.

[View source list](#)



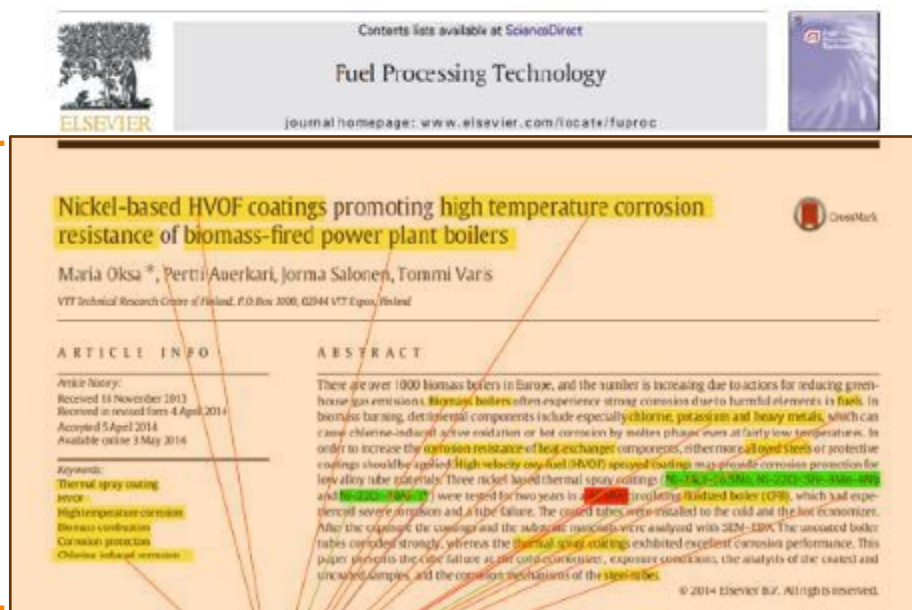
ELSEVIER

Ei数据库, Ei索引, Engineering Index, Ei Compendex



文摘索引过程

标题
摘要
关键字



受控词及非受控词

分类码

会议信息

会议码

NEW

数值数据索引

NEW

化学索引

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

Ei Compindex 工程引文索引

<https://www.engineeringvillage.com>



*Standards:

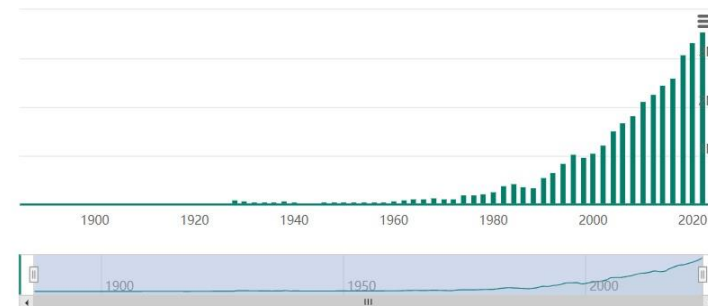
ACI AIAA AWS ASCE ASTM AWWA BSI IEEE IET
SAE SMPTE TAPPI



Publication Year

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

2024	2,052,328	2019	1,593,303
2023	1,903,369	2018	1,483,984
2022	1,796,265	2017	1,376,186
2021	1,703,967	2016	1,218,345
2020	1,619,816		



Conference proceeding: 0.4%

Standard: 0.7%

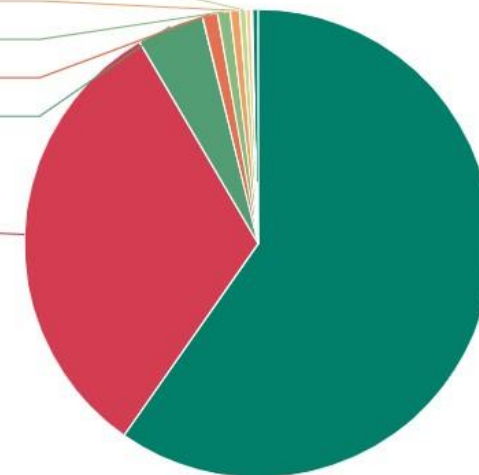
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Dissertation: 1.0%

Preprint: 4.6%

Conference article: 31.8%

Journal article: 59.7%



Ei Compendex 工程引文索引

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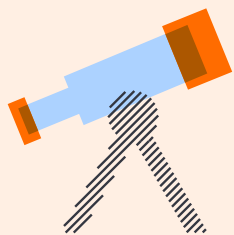
What does Compendex cover?

Comprising journals, conference proceedings, dissertations, standards, books, and recently preprints, Compendex content is sourced from thousands of publishers from around the world, including major engineering societies such as IEEE, ASME, SAE and ACM.

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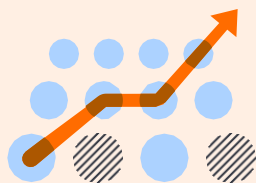
COMPENDEX SOURCE LIST: UPDATED JUNE 1, 2023						
Source title	Source type	ISSN	EISSN	Publisher	Country/Region	Subject 1
2D Materials	Journal	-	20531583	Institute of Physics	United States	Chemistry (all)
3D Printing and Additive Manufacturing	Journal	23297662	23297670	Mary Ann Liebert Inc.	United States	Industrial and Manufacturing Engineering (all)
3D Printing in Medicine	Journal	-	23656271	BioMed Central Ltd	United Kingdom	Computer Science Applications
3DTV-Conference	Proceeding	21612021	2161203X	IEEE Computer Society	United States	Computer Graphics and Communications
AAAI Fall Symposium - Technical Report	Proceeding	-	-	Association for the Advancement of Artificial Intelligence	United States	Engineering (all)
AAAI Spring Symposium - Technical Report	Proceeding	-	-	Association for the Advancement of Artificial Intelligence	United States	Artificial Intelligence
AAAI Workshop - Technical Report	Proceeding	-	-	Association for the Advancement of Artificial Intelligence	United States	Engineering (all)
AAC: Augmentative and Alternative Communication	Journal	07434618	14773848	Taylor and Francis Ltd.	United Kingdom	Rehabilitation
AACE International Transactions	Proceeding	15287106	-	Association for the Advancement of Cost Engineering	United States	Engineering (all)
AAPG Bulletin	Journal	01491423	-	American Association of Petroleum Geologists	United States	Earth and Planetary Sciences
AATCC Journal of Research	Journal	-	23305517	SAGE Publications Inc.	United States	Process Chemistry and Technology
AATCC Review	Trade journal	15328813	23305525	American Association of Textile Chemists and Technologists	United States	Chemical Engineering (all)
ABB Review	Journal	10133119	-	ABB Corporate Management Services AG	Switzerland	Electrical and Electronic Engineering
Abel Symposia	Proceeding	21932808	21978549	Springer Science and Business Media Deutschland	Germany	Mathematics (all)
ABU Technical Review	Journal	01266209	-	Asia Pacific Broadcasting Union	Malaysia	Electrical and Electronic Engineering
Accident Analysis and Prevention	Journal	00014575	-	Elsevier Ltd	United Kingdom	Safety, Risk, Reliability and Failure
ACI Materials Journal	Journal	0889325X	-	American Concrete Institute	United States	Civil and Structural Engineering
ACI Structural Journal	Journal	08893241	-	American Concrete Institute	United States	Civil and Structural Engineering
ACM Communications in Computer Algebra	Journal	19322232	19322240	Association for Computing Machinery	United States	Computational Theory and Communications

工程文献调研案例



Problem Identification 识别问题

- 第一步是理解和识别问题。工程师需要收集详细的问题信息，识别和明确的问题所在。
- 收集的数据可能涉及：科学文献、案例研究、调查报告等。
- 全面的信息可以确保解决方案是明智的并基于现实。



Analysis and Evaluation 分析问题

- 明确问题和挑战后，工程师需要利用高质量的内容和先进的工具，提出假设或初步改善/解决方案。
- 寻找多种解决方案，同时需要对比方案在技术、经济和社会等多方面的可行性。



Design and Testing 设计和测试解决方案

- 基于提出的解决方案，工程师需要选择和使用合适的数学模型、模拟工具、检测方法来模拟结果。
- 工程师测试的解决方案，以确保其符合所需的标准。
- 持续验证、优化、迭代以解决实践工程问题。

解答实际工程问题的可靠工具

Engineering Village®

Several rail services across the country have been cancelled as a precaution after cracks were discovered on high-speed trains.

Passengers have been advised to check for cancellations before heading out today and to postpone their journeys if they can.

Safety checks are now being carried out after the hairline cracks were found on the Hitachi 800 series trains — used by Great Western Railway (GWR), London North Eastern Railways (LNER) and Hull Trains.

The disruption means limited to no service on the East Coast, between Edinburgh, Newcastle, York and London.



1 对 “crack” 进行了广泛搜索，结果显示有超过530,000个结果

Quick search

All fields

for crack

Q

Turn off AutoSuggest | + Add search field | Reset form

Databases ^

Date ^

Language ^

Document type ^

Sort by ^

Browse indexes ^

Autostemming ^

Discipline ^

Treatment ^

538,413 records found in Compendex for 1884-2025: ((crack) WN ALL)1 of 21,537 pages >

Create alertSave searchShare searchRSS feed

Sort by: Relevance

Display: 25 results per page

Refine

By physical property

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

By category

Download all

Limit to

Exclude

Add a term

Open Access

Document type

Controlled vocabulary

Cracks121,305

Crack Propagation52,758

Finite Element Method44,299

Fracture Mechanics42,830

Fracture34,122

View more

Year

Author

Classification code

1

Experimental Study of 3D Fatigue Crack Initiation and Propagation of Irregular Lug

Zhang, Haiying (AVIC Aircraft Strength Research Institute, Beijing, China); Chen, Xianmin; Li, Gang; Zang, Weifeng; Liao, Jlanghai Source: Lecture Notes in Mechanical Engineering, p 57-67, 2025, Proceedings of the 7th China Aeronautical Science and Technology Conference - Volume I

Database: Compendex

Document type: Conference article (CA)

Show preview

Full text

Check Local Full-text

2

Fatigue Short Crack Growth Prediction of Additively Manufactured Alloy Based on Ensemble Learning (Open Access)

Huang, Qinghui (State Key Laboratory of Nonlinear Mechanics (LNM), Institute of Mechanics, Chinese Academy of Sciences, Beijing, China); Hu, Dianyin; Wang, Rongqiao; Sergeichev, Ivan; Sun, Jingyu; Qian, Guian Source: Fatigue and Fracture of Engineering Materials and Structures, v 48, n 4, p 1847-1865, April 2025

Database: Compendex

Document type: Journal article (JA)

Show preview

Full text

Check Local Full-text

3

Crack shape evolution of single edge through cracked specimens under mode-I loading

Li, Yongfang (School of Mechanical and Automotive Engineering, Shanghai University of Engineering Science, Shanghai; 201620, China); Ren, Mingming; Chen, Hao; Yang, Yali; Xu, Sha; Zhang, Ruoping Source: Archive of Applied Mechanics, v 95, n 1, January 2025

Database: Compendex

Document type: Journal article (JA)

Show preview

Full text

Check Local Full-text

4

Study on the influence of arched pre-splitting crack on cracks propagation under explosion load

Ji, Zhe (School of Chemical and Blasting Engineering, Anhui University of Science and Technology, Anhui, Huainan; 232001, China); Su, Hong; Li, Hongwei; Wang, Yaofeng; Gong, Yue; Zhao, Taiming; Ge, Qichao; Yang, Bo Source: Theoretical and Applied Fracture Mechanics, v 136, April 2025

Database: Compendex

2 借助数据库强大的受控索引功能，选择与“疲劳裂纹扩展”有关的文章

Quick search All fields for crack

538,413 records found in Compendex for 1884-2025: ((crack

Create alert Save search Share search RSS feed

Refine

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

By category
Download all

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Open Access

Document type

Controlled vocabulary

<input type="checkbox"/>	Cracks	121,305
<input type="checkbox"/>	Crack Propagation	52,758
<input type="checkbox"/>	Finite Element Method	44,299
<input type="checkbox"/>	Fracture Mechanics	42,830
<input type="checkbox"/>	Fracture	34,122

View more

Year

Author

Classification code

Controlled vocabulary

Filter results: Start typing to filter results

<input type="checkbox"/>	Cracks	121,305
<input type="checkbox"/>	Crack Propagation	52,758
<input type="checkbox"/>	Finite Element Method	44,299
<input type="checkbox"/>	Fracture Mechanics	42,830
<input type="checkbox"/>	Fracture	34,122
<input type="checkbox"/>	Fracture Toughness	27,577
<input type="checkbox"/>	Scanning Electron Microscopy	26,757
<input type="checkbox"/>	Crack Initiation	24,712
<input type="checkbox"/>	Fatigue of Materials	22,976
<input type="checkbox"/>	Tensile Strength	22,939
<input type="checkbox"/>	Microstructure	22,083
<input type="checkbox"/>	Reinforced Concrete	21,855
<input type="checkbox"/>	Stress Analysis	20,496
<input type="checkbox"/>	Aluminum Alloys	20,206
<input type="checkbox"/>	Failure	19,558
<input type="checkbox"/>	Crack Tips	19,489
<input checked="" type="checkbox"/>	Fatigue Crack Propagation	19,396
<input type="checkbox"/>	Residual Stresses	17,025
<input type="checkbox"/>	Stress Intensity Factors	16,699
<input type="checkbox"/>	Mathematical Models	16,043
<input type="checkbox"/>	Deformation	14,980
<input type="checkbox"/>	Steel Corrosion	13,247
<input type="checkbox"/>	Numerical Methods	12,208
<input type="checkbox"/>	Strain Rate	12,130
<input type="checkbox"/>	Concrete Beams and Girders	11,543
<input type="checkbox"/>	Brittle Fracture	11,517
<input type="checkbox"/>	Stresses	11,396
<input type="checkbox"/>	Titanium Alloys	10,917
<input type="checkbox"/>	Ceramic Materials	10,520
<input type="checkbox"/>	Crack Detection	10,468
<input type="checkbox"/>	Temperature	10,431
<input type="checkbox"/>	Morphology	10,393
<input type="checkbox"/>	Steel	10,264
<input type="checkbox"/>	Binary Alloys	9,849
<input type="checkbox"/>	Alumina	9,803
<input type="checkbox"/>	Elasticity	9,627
<input type="checkbox"/>	Nondestructive Examination	9,414
<input type="checkbox"/>	Interfaces	9,303
<input type="checkbox"/>	Corrosion Resistance	9,216
<input type="checkbox"/>	Friction	9,055
<input type="checkbox"/>	Damage Detection	8,887
<input type="checkbox"/>	Ductility	8,869

View: 10 60 Max

Limit to Exclude

3

进一步探索原始问题，将搜索范围缩小到“铁路”

Expert search

(((crack) WN ALL)) AND ((fatigue crack propagation) WN CV)

Reset form

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

19,396 records found in Compendex for 1884-2025: (((crack) WN ALL) x + (fatigue crack propagation) WN CV) x

1 of 776 pages >

Create alert Save search Share search RSS feed

Sort by: Relevance v

Display: 25 v results per page

Refine

By physical property v

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

Document type

Controlled vocabulary

☐ Fatigue Testing 3,657

☐ Crack Tips 3,078

☐ Aluminum Alloys 2,806

☐ Fatigue Damage 2,751

☐ Growth Rate 2,420

View more >

Year

Author

Classification code

ICS code

1. ☐ Experimental Study of 3D Fatigue Crack Initiation and Propagation of Irregular Lug

Zhang, Haiying (AVIC Aircraft Strength Research Institute, Beijing, China); Chen, Xianmin; Li, Gang; Zang, Weifeng; Liao, Jianghai Source: Lecture Notes in Mechanical Engineering, p 57-67, 2025, Proceedings of the 7th China Aeronautical Science and Technology Conference - Volume I

Database: Compendex

Document type: Conference article (CA)

Show preview v Full text ^ Check Local Full-text

2. ☐ Fatigue Short Crack Growth Prediction of Additively Manufactured Alloy Based on Ensemble Learning (Open Access)

Huang, Qinghui (State Key Laboratory of Nonlinear Mechanics (LNM), Institute of Mechanics, Chinese Academy of Sciences, Beijing, China); Hu, Dianyin; Wang, Rongqiao; Sergeichev, Ivan; Sun, Jingyu; Qian, Gulan Source: Fatigue and Fracture of Engineering Materials and Structures, v 48, n 4, p 1847-1865, April 2025

Database: Compendex

Document type: Journal article (JA)

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3. ☐ Crack shape evolution of single edge through cracked specimens under mode-I loading

Li, Yongfang (School of Mechanical and Automotive Engineering, Shanghai University of Engineering Science, Shanghai; 201620, China); Ren, Mingming; Chen, Hao; Yang, Yali; Xu, Sha; Zhang, Ruoping

Source: Archive of Applied Mechanics, v 95, n 1, January 2025

Database: Compendex

Document type: Journal article (JA)

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4. ☐ Calculation method of root crack propagation considering residual stress of shot peening

Xu, Xiangyang (Chongqing Key Laboratory of Public Transportation Equipment Design and System Integration, Chongqing Jiaotong University, Chongqing; 400074, China); Shi, Huiyi; Fan, Linfang

Source: Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology), v 56, n 3, p 932-940, March 2025 Language: Chinese

Database: Compendex

Document type: Journal article (JA)

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railroad

结果范围缩小到**450**条记录。

Expert search

((((crack) WN ALL)) AND ((fatigue crack propagation) WN CV)) AND (railroad))

Reset form

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

454 records found in Compendex for 1884-2025: ((crack) WN ALL) x + (fatigue crack propagation) WN CV x + railroad x

1 of 19 pages >

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Display: 25 v results per page

Refine

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

By category Download all v

Limit to Exclude

Add a term

Open Access v

Document type v

Controlled vocabulary v

Country/Region v

Language v

Year v

Author v

Author affiliation v

- ☐ **Unexpected fatigue cracks on main beams of a railroad bridge - Strain measurements during operation and fracture mechanical analysis**
Unterweger, Harald (Technische Universität Graz, Institut für Stahlbau, Lessingstraße 25/3, Graz; 8010, Austria); Derler, Christoph Source: *Stahlbau*, v 92, n 5, p 298-317, May 2023
Language: German
Database: Compendex
Document type: Journal article (JA)
Show preview v Cited by in Scopus (1) Full text v Check Local Full-text
- ☐ **Investigation on fatigue parameters in railway wheels using a critical plane model**
Messele, Aklilu Getnet (Department of Chemical Engineering, Institute of Polymer Research, Waterloo Institute of Nanotechnology, University of Waterloo, Waterloo; ON; N2V 0E6, Canada); Mekonnen, Tizazu H.; Mekonnen, Samuel Tesfaye Source: *Engineering Failure Analysis*, v 166, December 2024
Database: Compendex
Document type: Journal article (JA)
Show preview v Full text v Check Local Full-text
- ☐ **A method for constructing the load spectrum of metro bogie frame for fatigue damage prediction**
Li, Lingqi (School of Mechanical, Electronic and Control Engineering, Beijing Jiaotong University, Beijing; 100044, China); Wang, Binjie; Wang, Wenjing; Wang, Hongyu Source: *Measurement: Journal of the International Measurement Confederation*, v 247, April 15, 2025
Database: Compendex
Document type: Journal article (JA)
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ELSEVIER

Expert search

(((((((crack) WN ALL))) AND ((fatigue crack propagation) WN CV))) AND (rail))) AND (model*)

Reset form

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

241 records found in Compendex for 1884-2025: ((((((crack) WN ALL))) AND ((fatigue crack propagation) WN CV))) AND (rail))) AND (model*) x + model* x

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

By category [Download all](#) v

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Open Access [v](#)

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☐ Gold 16

☐ Hybrid Gold 11

☐ Bronze 6

☐ Green 16

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Document type [v](#)

☐ Journal article 172

☐ Conference article 58

☐ Dissertation 7

☐ Article in Press 2

☐ Conference proceeding 1

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- ☐ **Study on Model Response of ACFM for Rail RCF Crack Based on Destructive Field Test**
Wang, Chi (Tongji University, Key Laboratory of Road and Traffic Engineering of the Ministry of Education, Shanghai Key Laboratory of Rail Transit Structure Endurance and System Safety, Shanghai; 201804, China); Zhou, Yu Source: *IEEE Sensors Journal*, v 25, n 3, p 4820-4828, 2025
Database: Compendex
Document type: Journal article (JA)
Show preview v [Full text](#) v [Check Local Full-text](#)
- ☐ **A peridynamic model for rail crack initiation with cavity defect**
Ma, Xiaochuan (State Key Laboratory of Performance Monitoring and Protecting of Rail Transit Infrastructure, East China Jiaotong University, Nanchang; 330013, China); Wang, Yajie; Liu, Linya; Yin, Weibin; Wang, Xianghe; Lin, Hongsong; Yu, Lu; Shi, Qingfeng; Xu, Jingmang Source: *Tribology International*, v 191, March 2024
Database: Compendex
Document type: Journal article (JA)
Show preview v Cited by in Scopus (4) [Full text](#) v [Check Local Full-text](#)
- ☐ **Peridynamic analysis of rolling contact fatigue crack propagation in rail welding joints with pore defects**
Li, Shirui (MOE Key Laboratory of High-speed Railway Engineering, Southwest Jiaotong University, Chengdu; 610031, China); Wang, Xiaoming; Dong, Weijia; He, Qing; An, Boyang; Wang, Ping; Yang, Bing Source: *International Journal of Fatigue*, v 190, January 2025
Database: Compendex
Document type: Journal article (JA)
Show preview v Cited by in Scopus (1) [Full text](#) v [Check Local Full-text](#)
- ☐ **Response of Rail Rolling Contact Fatigue Crack Based on Alternative Current Field Measurement**
Wang, Chi (Key Laboratory of Road and Traffic Engineering of the Ministry of Education, Shanghai Key Laboratory of Rail Transit Structure Endurance and System Safety, Tongji Univ., Shanghai, China); Zhou, Yu; Weng, Zhi-Yi; Li, Jun-Peng; Cheng, Zhong-Ning Source: *ICRT 2024 - Proceedings of the 3rd International Conference on Rail Transportation*, p 110-116, 2025, *ICRT 2024 - Proceedings of the 3rd International Conference on Rail Transportation*
Database: Compendex
Document type: Conference article (CA)

Expert search

((((fatigue) WN KY)) AND ({fatigue crack propagation} WN CV)) AND ("experimental study")

Reset form

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

385 records found in Compendex for 1884-2025: (((fatigue) WN KY) × + {fatigue crack propagation} WN CV × + "experimental study" ×

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Sort by: Relevance

Refine

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

By category
Download all ▾

Limit to Exclude

Add a term

Open Access
All Open Access 61
Gold 33
Hybrid Gold 12
Bronze 5
Green 27
Learn more ▾

Document type
Journal article 260
Conference article 109
Dissertation 8

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

Display: 25 results

- ☐ **Effects of variable amplitude load and stress ratio on fatigue performance of orthotropic steel decks: An experimental study**
Yang, Haibo (College of Water Conservancy and Civil Engineering, Shandong Agricultural University, Shandong, Taian; 271000, China); Lu, Xueqi; Wang, Ping; Qian, Hongliang
Source: *Journal of Constructional Steel Research*, v 227, April 2025
Database: Compendex
Document type: Journal article (JA)
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- ☐ **EXPERIMENTAL STUDY AND NUMERICAL SIMULATION ON FATIGUE PROPERTIES OF CORRODED Q345C STEEL**
Peng, Jian-Xin (Key Laboratory of Safety Control of Bridge Engineering, Ministry of Education, Changsha University of Science & Technology, Changsha; 410114, China); Zhao, Yang; Wang, Xian-Ji; Liu, Yi; Peng, Yan-Qing
Source: *Gongcheng Lixue/Engineering Mechanics*, v 42, n 1, p 53-63, January 2025
Language: Chinese
Database: Compendex
Document type: Journal article (JA)
Show preview ▾ Cited by in Scopus (1) [Full text](#) [Check Local Full-text](#)
- ☐ **Fatigue life and crack growth rate of carbon fiber reinforced polymer composite at elevated temperature environment: An experimental study**
Raj, Lokesh (Composite Design and Manufacturing Research Group, School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, Mandi, India); Pathak, Himanshu; Zafar, Sunny; Gupta, Amit
Source: *Polymer Composites*, 2025
Article in Press
Database: Compendex
Document type: Article in Press
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((((fatigue) WN KY)) AND ((fatigue crack propagation) WN CV)) AND (repair)

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590 records found in Compendex for 1884-2025: ((fatigue) WN KY) × + (fatigue crack propagation) WN CV × + repair × 1 of 24

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☐ Repair 203

☐ Fatigue Testing 124

- ☐ **Effect of a blend-grind-peen repair technique on subsequent fatigue behaviour of a low-pressure shot peened steam turbine blade material**
He, Binyan (School of Mechanical Engineering & Automation, Wuhan Textile University, Wuhan, China); You, Chao; Soady, Kath; Mellor, Brian; Cunningham, Benjamin; Reed, Philippa
Source: *Materials Science and Technology (United Kingdom)*, v 41, n 5, p 356-366, April 2025
Database: Compendex
Document type: Journal article (JA)
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- ☐ **Fatigue Crack Repair Mechanism and Effect by Pneumatic Impact Treatment**
Yuanzhou, Zhiyuan (College of Civil and Transportation Engineering, Hohai University, Nanjing; 210098, China); Ji, Bohai; Fu, Hui; Meng, Cheng
Source: *Xinan Jiaotong Daxue Xuebao/Journal of Southwest Jiaotong University*, v 59, n 2, p 307-314, April 2024
Language: Chinese
Database: Compendex
Document type: Journal article (JA)
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- ☐ **Experiences with repair of fatigue cracks in an orthotropic steel deck, New Little Belt Bridge, Denmark (Open Access)**
Sørensen, P.L. (COWI A/S, Kongens Lyngby, Denmark); Bitsch, N.; Præs, J.
Source: *Bridge Maintenance, Safety, Management, Digitalization and Sustainability - Proceedings of the 12th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2024*, p 2969-2976, 2024, *Bridge Maintenance, Safety, Management, Digitalization and Sustainability - Proceedings of the 12th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2024*
Database: Compendex
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3. ☐ **High-precision on-line measurement method of metal tension-tension fatigue crack growth rate based on infrared displacement sensor**
Cen, Yaodong (School of Materials Science and Engineering, Inner Mongolia University of Science and Technology, Baotou; 014010, China); Chen, Lin; Bao, Xirong; Wang, Xiaodong; Wang, Haiyan; Ji, Chunjiao Source: Engineering Fracture Mechanics, v 315, February 21, 2025
Database: Compendex
Document type: Journal article (JA)
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Expert search

((((fatigue crack growth)) WN KY)) AND ({st} WN DT)

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41 records found in Compendex for 1884-2025: (((fatigue crack growth)) WN KY) * + {st} WN DT *

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- ☐ Sae - Standards 2
- ☐ Sae Technical Standard 2
- ☐ Ieee - Standards 1

1. ☐ **Standard Test Method for Measurement of Fatigue Crack Growth Rates**

Source: ASTM - Standards, v 03.01, 2024

Version: 21

Status: Active - Revision

Database: Compendex

Document type: Standard (ST)

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2. ☐ **Standard Test Method for Measurement of Fatigue Crack Growth Rates**

Source: ASTM - Standards, v 03.01, 2023

Version: 21

Status: Inactive - Historical, Revision

Database: Compendex

Document type: Standard (ST)

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3. ☐ **Standard Test Method for Measurement of Fatigue Crack Growth Rates**

Source: ASTM - Standards, v 03.01, 2023

Version: 21

Status: Inactive - Historical, Revision

Database: Compendex

Document type: Standard (ST)

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Standard Test Method for Measurement of Fatigue Crack Growth Rates

Significance and Use

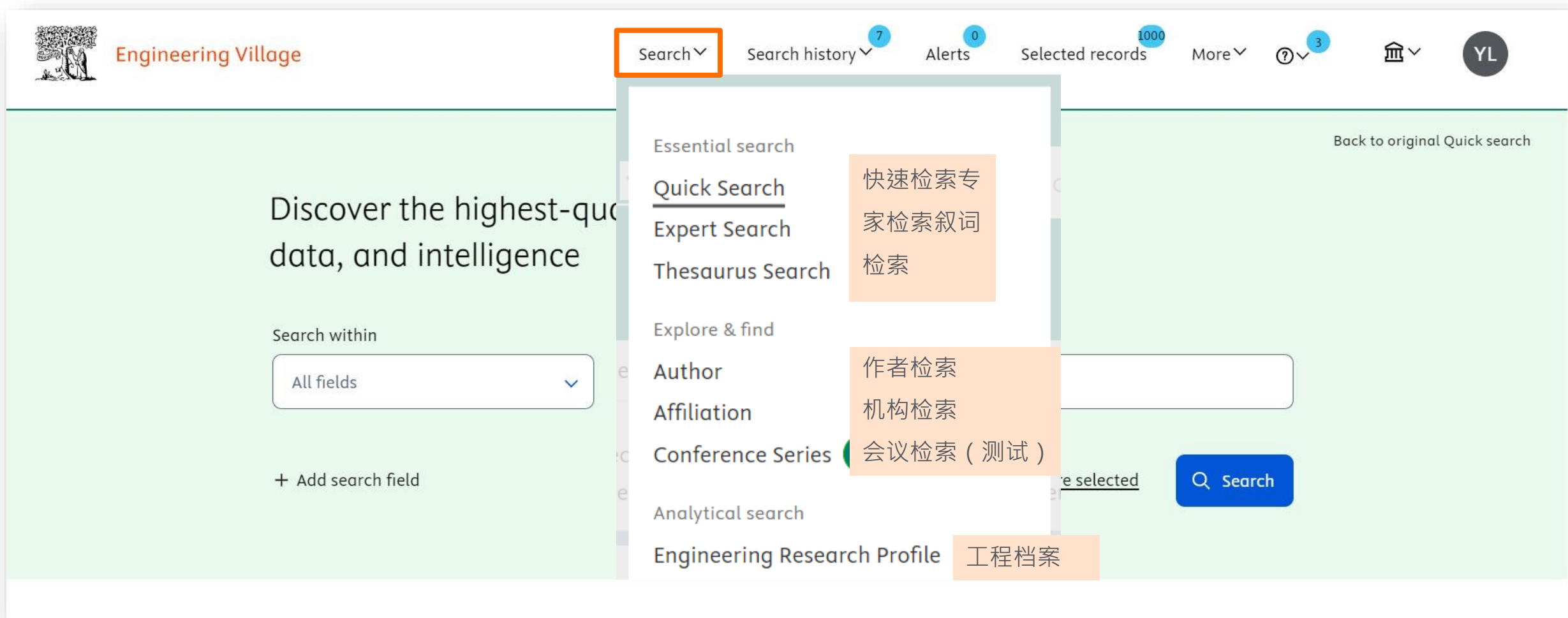
5.1 Fatigue crack growth rate expressed as a function of crack-tip stress-intensity factor range, da/dN versus ΔK , characterizes a material's resistance to stable crack extension under cyclic loading. Background information on the ration-ale for employing linear elastic fracture mechanics to analyze fatigue crack growth rate data is given in Refs (3) and (4).

5.1.1 In innocuous (inert) environments fatigue crack growth rates are primarily a function of ΔK and force ratio, R , or K_{max} and R (Note 1). Temperature and aggressive environments can significantly affect da/dN versus ΔK , and in many cases accentuate R -effects and introduce effects of other loading variables such as cycle frequency and waveform. Attention needs to be given to the proper selection and control of these variables in research studies and in the generation of design data.

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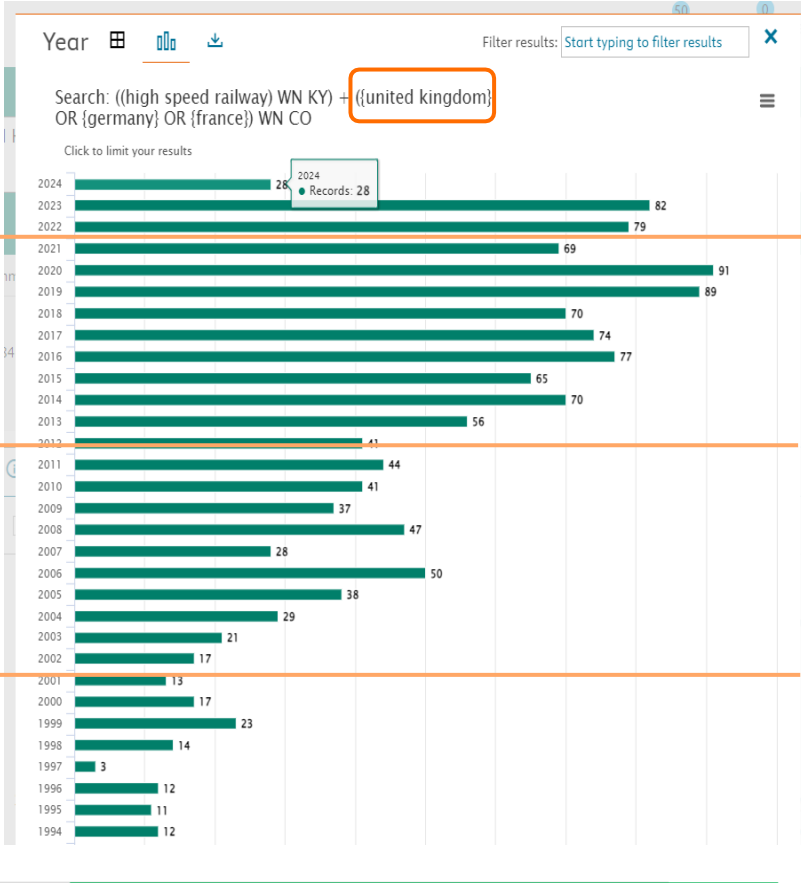
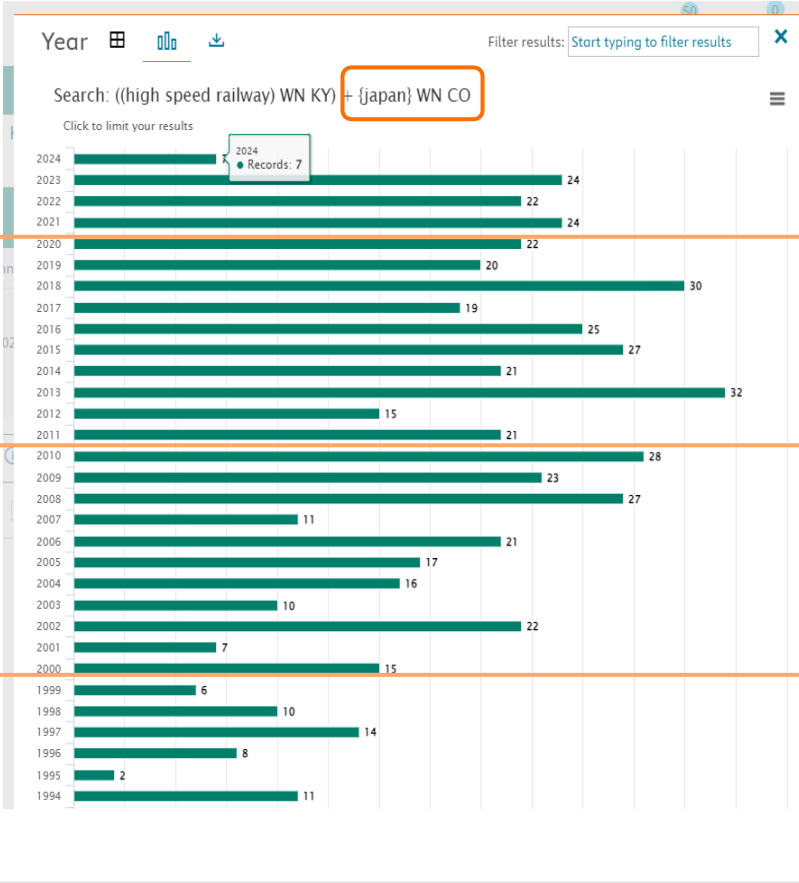
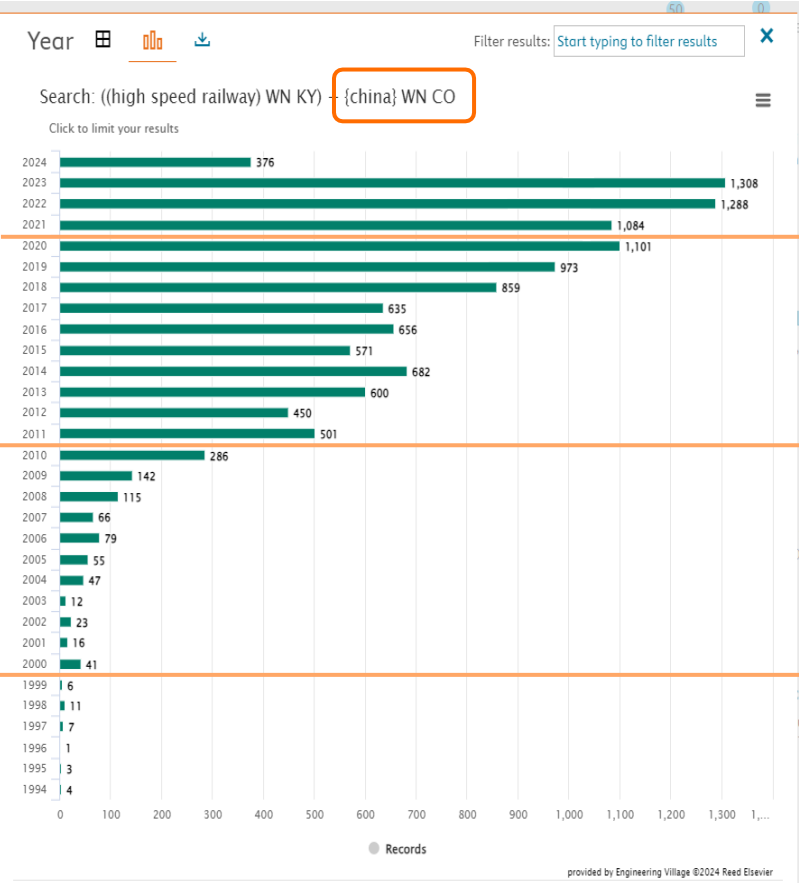
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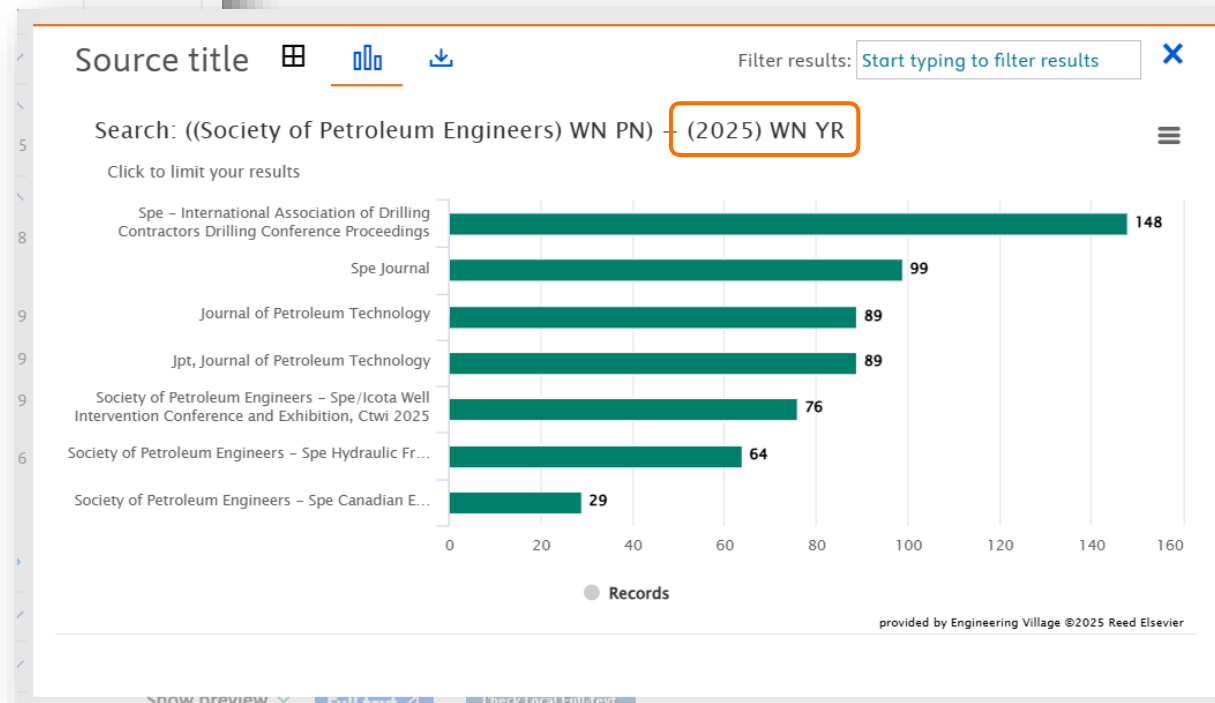
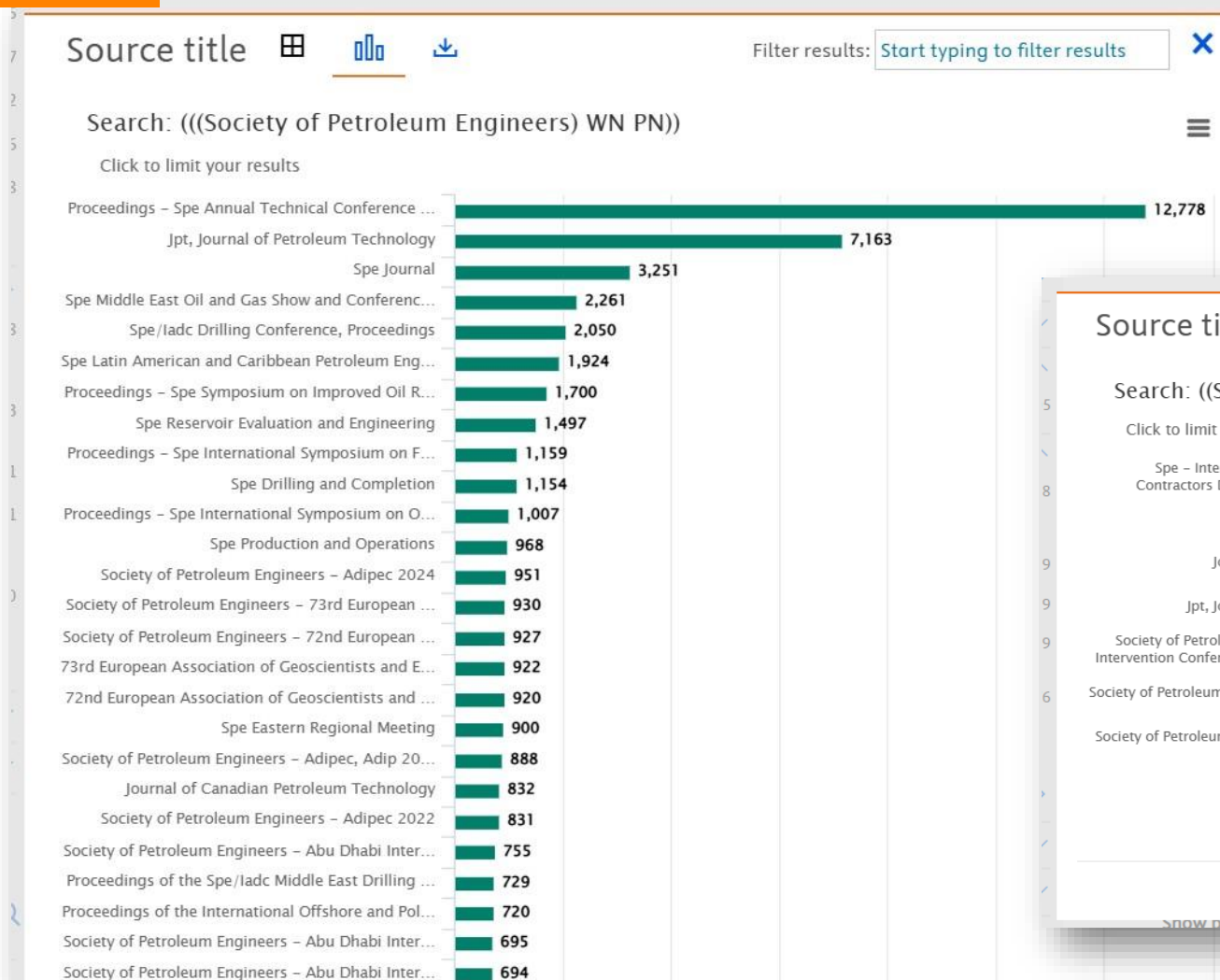
- ☐ **Research on Optimization Strategy for Location Selection of Electric Vehicle Charging Stations Based on Artificial Intelligence Algorithms**
Wen, Li (Wuhan Donghu University, China) Source: ACM International Conference Proceeding Series, p 279-283, April 26, 2024, Proceedings of 5th International 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
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- ☐ **Explainable artificial intelligence for decarbonization: Alternative fuel vehicle adoption in disadvantaged communities**
Patwary, 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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趋势分析

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Alstom	52
East Japan Railway Company	43



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Hybrid Gold

64

Bronze

16

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58

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v

1. ☒

Artificial intelligence algorithms in unmanned surface vessel management and path planning: A survey

Gao, Kaizhou (Macau Institute of System Engineering, Macau University of Science and Technology, Macau, China); Ma, Zhenfang Source: Swarm and Evolutionary Computation, v 100, p 109888, 12 p, 2023, 10 refs

Database: Compendex

Document type: Journal article (JA)

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2. ☒

Unlocking the power of industrial artificial intelligence

Leng, Jiewu (Guangdong Provincial Key Laboratory of Computer Technology and Equipment, Guangdong University of Technology, Guangzhou, China); Xueliang; Mourtzis, Dimitris; Wang, Baicun; Qi, Qinglin; Shao, Yuhang Source: Journal of Manufacturing Systems, v 73, p 349-363, April 2024

Database: Compendex

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1	Artificial intelligence	20022870173		Tan, K.C.(1); Le	(1) Department	Tan, K.C. (ele	Engineering A	Eng Appl Artif		Elsevier Ltd	14	6	825-837	Decembe
2	Research on C	20243216805		Wen, Li(1)	(1) Wuhan Do	Wen, Li (2531	ACM Internati	ACM Int. Conf		Association fo			279-283	April 26, :
3	Simulation of	20240815616		Zhu, Xiuping((1) Shanghai li	Zhu, Xiuping (Smart Innovat	Smart Innov. S		Springer Scier	368		87-96	2024
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5	Artificial intelli	20240915643		Gao, Kaizhou((1) Macau Inst	Gao, Kaizhou	Swarm and Ev	Swarm Evol. C		Elsevier B.V.	86			April 202
6	A Study on the	20234414982		Sun, Tao(1); H	(1) Wuhan Rai	He, Lijuan (hlj	2023 3rd Inter	Int. Conf. Electr	IEEE	Institute of Ele			695-700	2023
7	Autonomous	20240103357		Garikapati, Div		Garikapati, Div	arXiv	arXiv		arXiv				February
8	Unlocking the	20241015688		Leng, Jiewu(1)	(1) Guangdong	Liu, Qiang (liu	Journal of Ma	J Manuf Syst		Elsevier B.V.	73		349-363	April 202
9	Intelligent ene	20243817070		Wang, Ying(1)	(1) College of		Thermal Scien	Therm. Sci. En		Elsevier Ltd	55			October :
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16	Application of	20243216820		Sun, Yanting(1)	(1) CCCC Rail	Dai, Chenlong	ACM Internati	ACM Int. Conf		Association fo			801-806	January 1
17	Inverse design	20243917087		Li, Zhou(1); Li,	(1) College of	Li, Kai (likai01	Engineering S	Eng. Struct.		Elsevier Ltd	321			Decembe
18	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
19	Advances in c	20232714353	人工智能控制	Wu, Zhi(1); De	(1) Center for	Zhou, Yu (yuz	Advances in M	Adv. Mech.		Chinese Acad	53	2	273-307	June 202
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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, Giorgia; Milillo, Pietro; Aktas, Yasemin D.; Whitworth, Michael R. Z. Source: Bulletin of Earthquake Engineering, 2024

Article in Press

Database: Compendex

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

Alam, Sohaib (College of Sciences and Humanities, Prince Sattam Bin Abdulaziz University, AlKharj, 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)

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193,102 records found in Compendex for 1884-2025: ((traffic control) WN KY)

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)

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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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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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Thesaurus search 叙词搜索



Example

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

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

(((((solar near/6 power) WN ALL) OR ((solar near/6 energy) WN ALL)) OR ((solar near/6 concentrator) WN ALL)) OR ((solar near/6 chimney) WN ALL)) OR ((solar near/6 heating) WN ALL)) OR ((solar near/4 cell) WN ALL)) OR ((photovoltaic) WN ALL)) OR ((PV near/4 solar) WN ALL)) OR ((pv near/4 cell) WN ALL)) OR ((Solar near/6 lamp) WN ALL)) OR ((Solar near/6 heat) WN ALL)) OR ((Solar near/6 water) WN ALL)) OR ((Solar near/6 dryer) WN ALL)) OR ((Solar near/6 absorption) WN ALL)) OR ((Solar near/6 Vehicle) WN ALL)) OR ((Solar near/6 pond) WN ALL)) OR ((Solar near/6 technology) WN ALL)) OR ((Solar near/6 access) WN ALL)) OR ((Solar near/6 plant) WN ALL)) OR ((Solar near/6 field) WN ALL)) OR ((Solar near/6 industry) WN ALL)) OR ((Solar near/6 potential) WN ALL)) OR ((Solar near/6 tree) WN ALL)) OR ((Solar near/6 forecasting) WN ALL))

术语表达

材料种类
不同行业

简称/编号

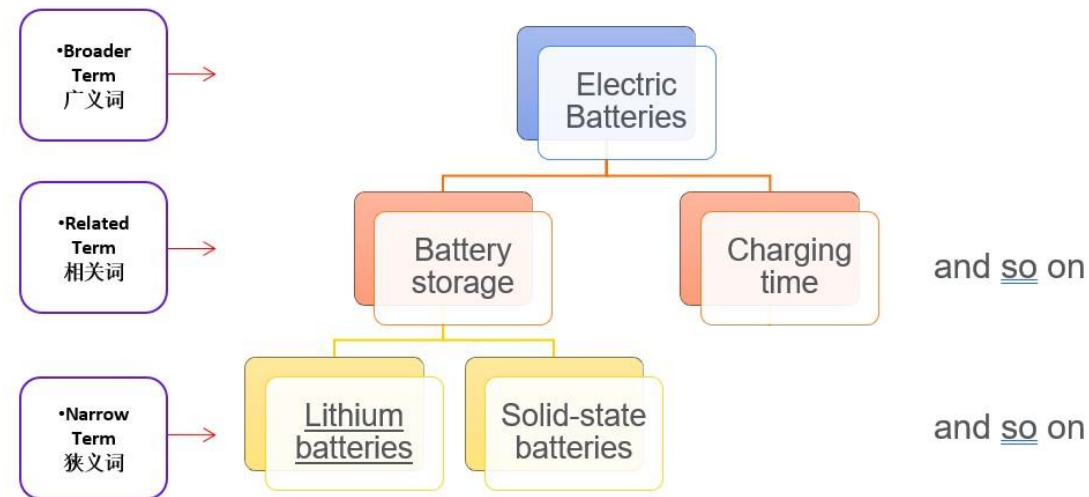
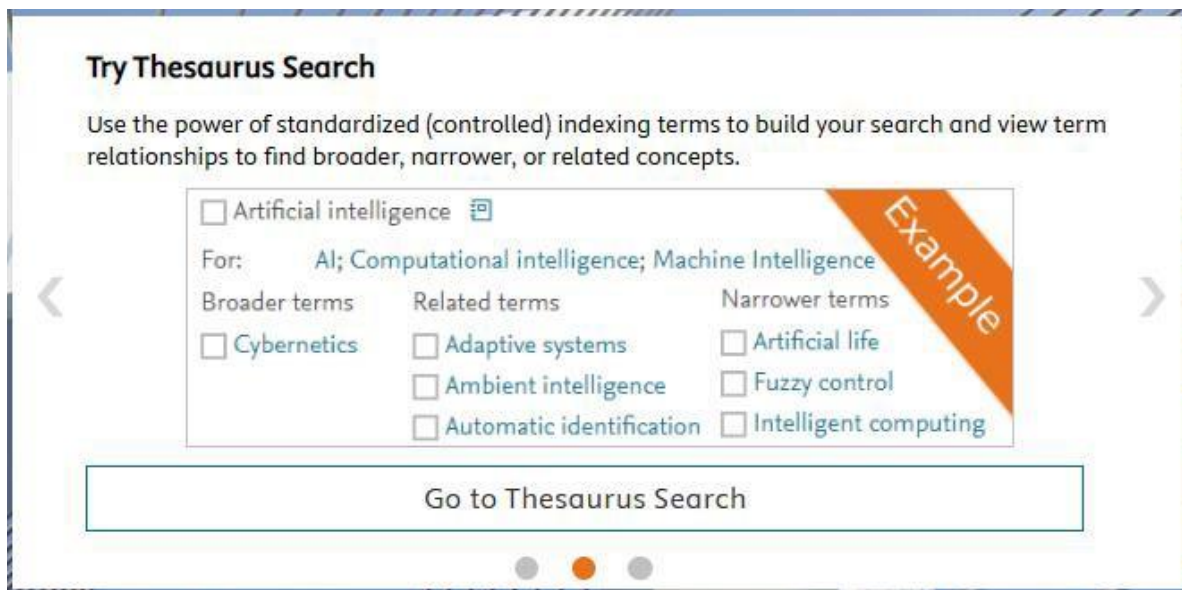
Engineer



查准？ 查全？

Ei 工程叙词表

- 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。



先查词，
再查文章

Thesaurus search: Vocabulary search for secondary battery

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

Exact term results ^

secondary battery > Secondary batteries

☒ Secondary batteries

For: Electric batteries, Secondary; Rechargeable batteries

Broader terms

☐ Electric batteries

Related terms

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

Narrower terms

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

Selected term(s) >

Secondary batteries
Automotive batteries
Battery Pack

☐ 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 1884-2023: (((({Secondary batteries} WN CV) OR ({Automotive batteries} WN CV) OR ({Charging (batteries)} WN CV))))

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Sort by: Relevance

1 of 899 pages

Refine

By physical property

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

By category

Download all

Limit to Exclude

Add a term

Open Access

All Open Access 18,128

Gold 8,939

Hybrid Gold 2,423

Bronze 2,512

Green 6,524

Learn more

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	Term
<input checked="" type="checkbox"/> Air traffic control	<input type="checkbox"/> Traffic control
<input checked="" type="checkbox"/> Emergency traffic control	<input checked="" type="checkbox"/> Air navigation--Air traffic control
<input type="checkbox"/> Highway traffic control	<input type="checkbox"/> Railroads--Traffic control
<input type="checkbox"/> Railroad traffic control	<input type="checkbox"/> Street traffic control--Emergency measures
<input type="checkbox"/> Street traffic control	<input type="checkbox"/> Street traffic control--Parking

Exact term results ^

traffic control > Traffic control

☐ Traffic control

For: Transportation--Traffic control

Broader terms	Narrower terms
<input type="checkbox"/> Transportation	<input type="checkbox"/> Air traffic control
	<input type="checkbox"/> Highway traffic control
	<input type="checkbox"/> Railroad traffic control
	<input type="checkbox"/> Street traffic control
	<input type="checkbox"/> Traffic congestion
	<input type="checkbox"/> Traffic signs

Reset form

Thesaurus search:

Vocabulary search

for

traffic control

Q

Database:

Compendex

Inspec

PaperChem

GEOBASE

GeoRef

Exact term results

114,322 records

found in Compendex for 1884-2025: (((((Air traffic control} WN CV) OR ((Highway traffic control} WN CV) OR ((Railroad traffic control} WN CV) OR ((Street traffic control} WN CV) OR ((Traffic congestion} WN CV) OR ((Traffic signs} WN CV) OR ((Traffic control} WN CV))))))

1 of 4,573

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Refine

By physical property

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By category

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Open Access

All Open Access

17,343

Gold

7,243

Hybrid Gold

1,866

Bronze

2,399

Green

8,569

Learn more

Controlled vocabulary

Traffic Congestion

38,495

Traffic Control

31,783

Air Traffic Control

19,039

Street Traffic Control

16,434

Intelligent Systems

16,345

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

Display: 25 results

1

Real-Time Traffic Flow Prediction Model Based on Deep Learning: Taking Smart Highways as an Example

Li, Jian (JSTI Group Co., Ltd., Jiangsu, Nanjing; 210000, China); Wang, Jianhui Source: International Journal of High Speed Electronics and Systems, 2025

Article in Press

Database: Compendex

Document type: Article in Press

Show preview

Full text

Check Local Full-text

2

Optimizing African Port Hinterland Connectivity Using Markov Processes, Max-Flow, and Traffic Flow Models: A Case Study of Dar es Salaam Port (Open Access)

Kunambi, Majid Mohammed (College of Transport Engineering, Dalian Maritime University, Dalian; 116026, China); Zheng, Hongxing Source: Applied Sciences (Switzerland), v 15, n 4, February 2025

Database: Compendex

Document type: Journal article (JA)

Show preview

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3

An Unified Approach for Traffic Sign Classification and Flow Prediction using Deep Learning Technique

Kavitha, D. (School of Computer Science and Engineering, Vellore Institute of Technology, Chennai, India); Lekhana, Kommareddy; Rajeshri, Vignahala; Rushitha, Chennareddygar Source: 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024, v 2, p 1811-1818, 2024, 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024

Database: Compendex

Document type: Conference article (CA)

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4

Combination design method of tandem intersections with contraflow left-turn lane

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: *Journal of Scientific Instruments*, 87, n 10, October 1, 2014, ISSN: 0034-6748, E-ISSN: 1099-7623, DOI: 10.1088/0034-6748/87/10/104001

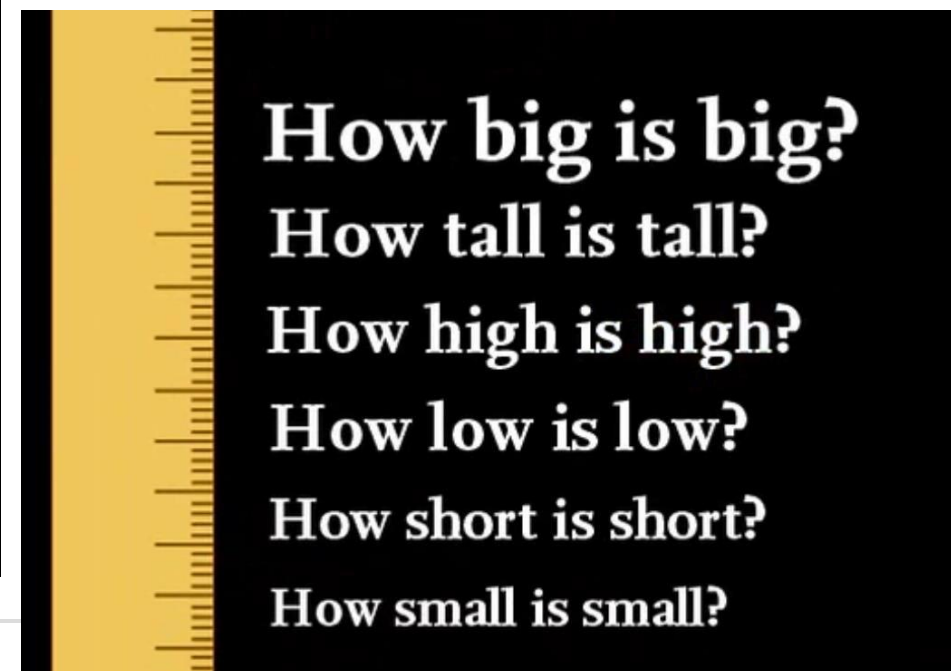
Wind survival strategy for a large point focusing solar collector: Analytical results of a 71 m/s (160 mph) gust study
Bilodeau, E.A.¹, Durnin, J.E.¹, Rogers, W.E.¹
Source: *Journal of Solar Energy Engineering*, 137, n 1, February 1, 2015, ISSN: 0894-6627, DOI: 10.1115/1.4025800

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: 1930-0055, E-ISSN: 2169-9229, ISBN-13: 9781424481682, DOI: 10.1109/SENSOR.2010.5600435, Article number: 5690435

Optical receivers in 0.35 μm BICMOS for heterogeneous 3D integration
Milovancev, Dinka¹ ✉; Brandl, Paul¹ ✉; Vokic, Nemanja¹ ✉; Goll, Bernhard¹ ✉; Schneider-Hornstein, Kerstin¹ ✉; Zimmermann, Horst¹ ✉
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

45 kV, 50 kHz
71 m/s (160 mph)
3 mm
2000 r/min
1730 r/min
900 MHz
0.35 μm



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。

62种不同的物理和化学性质

数据类型	字段名称	说明	默认单位 (区分大小写)	数据库
吸收剂量	NU_ABSORBED_DOSE	戈瑞	Gy	Compendex和Inspec
加速度	NU_ACCELERATION	米每二次方秒	m/s ²	Compendex
年龄	NU_AGE	岁	yr	Compendex和Inspec
物质的量	NU_AMOUNT_OF_SUBSTANCE	摩尔	mol	Compendex
角速度	NU_ANGULAR_VELOCITY	弧度每秒	rad/s	Compendex
视在功率	NU_APPARENT_POWER	伏安	VA	Compendex和Inspec
面积	NU_AREA	平方米	m ²	Compendex

可度量单位

厘米	cm
英尺	ft
英寸	in
千米	km
*米	m
微米	μm
英里	miles
毫米	mm
纳米	nm

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

Refine by physical property 数值搜索

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

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RSS feed

Sort by:

Refine

By physical property

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

By category

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Limit to

Exclude

Add a term

Open Access

[↗](#)

- ☐ All Open Access 172,156
- ☐ Gold 55,734
- ☐ Hybrid Gold 21,676
- ☐ Bronze 31,672
- ☐ Green 81,756

[Learn more ↗](#)

Document type

[↗](#)

- ☐ Journal article 790,229
- ☐ Conference article 361,882
- ☐ Preprint 33,361
- ☐ Dissertation 17,639



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By physical property

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

Size

选择尺寸



There are 245,158 total results for Size

<=



14

输入数字

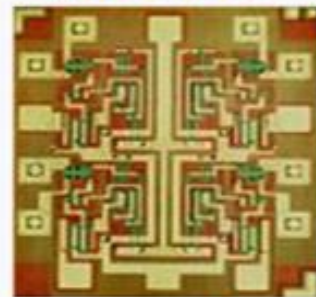
Nanometer (nm)

选择单位



Refine

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

Refine by physical property 数值搜索

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

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☐ All Open Access

253

☐ Gold

103

☐ Hybrid Gold

38

☐ Bronze

52

☐ Green

81

[Learn more](#) [↗](#)

Document type

[↗](#)

☐ Journal article

815

☐ Conference article

760



1. ☐ A snapshot review on metal–semiconductor contact exploration for 7-nm CMOS technology and beyo

Yu, Hao (imec, Kapeldreef 75, Louvain, Belgium); Schaeckers, Marc; Everaert, Jean-Luc; Horiguchi, Naoto; De Meyer, Kristin; Colle 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



2. ☐ Matched printed carbon nanotube complementary metal-oxide-semiconductor (CMOS) devices for fle

Guo, Penghui (SEU-FEI Nano-Pico Center, Key Laboratory of MEMS of Ministry of Education, School of Integrated Circuit, Southe 210096, China); Li, Min; Shao, Shuangshuang; Fang, Yuxiao; Chen, Zheng; Guo, Hongxuan; Zhao, Jianwen Source: Carbon, v 215,

Database: Compendex

Document type: Journal article (JA)

Show preview [↗](#) Cited by in Scopus (4)

Full text [↗](#)

Check Local Full-text



3. ☐ Zero-Change CMOS Nanophotonics: Converting Foundry Semiconductor Chips to Plasmonic Electro-o

ElKabbash, Mohamed (Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge; MA, United State Mills, Sivan; Bandyopadhyay, Saumil; Chen, Xibi; Ibrahim, Mohamed I.; Han, Ruonan; Englund, Dirk Source: 2023 Conference on CLEO 2023, 2023, 2023 Conference on Lasers and Electro-Optics, CLEO 2023

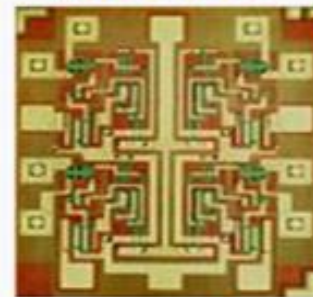
Database: Compendex

Document type: Conference article (CA)

Show preview [↗](#)

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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

Refine by physical property 数值搜索

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

1 of 890 pages >

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RSS feed

Sort by: Relevance

Display: 100 results per page

Refine

By physical property

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

By category

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Open Access

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11,035

☐ Gold

4,217

☐ Hybrid Gold

920

☐ Bronze

1,874

☐ Green

4,988

[Learn more](#)

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)

Show preview

Check Local Full-text

: 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
t A: Policy and Practice, v 186, August 2024

Control Systems

tes); Wenkstern, Rym Z. Source: Proceedings of the International Joint

Refine by physical property 数值搜索

211 records found in Compendex for 1884-2025: (("traffic control") WN ALL) × + (NU_VELOCITY GTE 100 km/hr) ×

1 of 3 pages >

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RSS feed

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Refine

By physical property

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By category

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Open Access

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☐ All Open Access 16

☐ Gold 6

☐ Hybrid Gold 1

☐ Bronze 4

☐ Green 7

[Learn more](#) [↗](#)

Document type

[📊](#) [↓](#) [^](#)

☐ Journal article 122

☐ [✉](#) [🖨](#) [↓](#)

Display: 100 [↓](#) results per page

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

Haque, MM Shakiat (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

Show preview [↓](#)

[Full text](#)

2. ☐ Research on Influencing Factors of Road Traffic Accidents

Zhao, Jing (Business School, Yinyong Jichu yu Gongcheng Jiaoyu Xueyuan)

Database: Compendex

Document type: Journal article

Show preview [↓](#)

[Full text](#)

3. ☐ Modeling and Operational Analysis of Traffic Flow at Signalized Intersections

Tang, Qing (The Pennsylvania State University)

Database: Compendex

Document type: Dissertation

Show preview [↓](#)

[Full text](#)

Classification codes:

[406.2](#) Roads and Streets

[723](#) Computer Software, Data Handling and Applications

[911](#) Cost and Value Engineering; Industrial Economics

[912.2](#) Management

Numerical data indexing:

Age 2.00E+01yr, Percentage 1.00E+01%, Percentage 2.50E+01%, Percentage 4.00E+00%, Percentage 5.00E+01%, Percentage 6.00E+00%, Percentage 8.00E+00%, Size 5.49E+02h, Velocity 2.9055E+01m/s

Engineering research profile 工程报告检索

The screenshot displays the Engineering Village website interface. At the top, the Engineering Village logo is visible on the left, and navigation links for Search, Search history (29), Alerts (0), and Selected records (101) are on the right. The main header area shows the title 'Engineering research profile' and the institution 'Massachusetts Institute of Technology' with '45,338 records in Compendex'. Below this, the 'Institutions & groups' section includes a search bar and a list of institutions, with 'Massachusetts Institute of Technology' selected. A dropdown menu is open, showing various search options: Essential search, Quick Search, Expert Search, Thesaurus Search, Explore & find, Author, Affiliation, Conference Series (Beta), Analytical search, Engineering Research Profile (highlighted), and Inspec Analytics. The right side of the interface features a filter bar set to '2014 to 2025 AND' and a bar chart titled 'Top authors' showing the number of records for six authors: 234, 226, 215, 208, 204, and 203.

Engineering Village

Search ^ Search history 29 Alerts 0 Selected records 101

Engineering research profile

Massachusetts Institute of Technology

45,338 records in Compendex

Institutions & groups

Search & add

Search institution by name...

Massachusetts Institute of Technology + X

Remove all X

Favorites

Search institutions, then select + to create a favorites list.

Essential search

Quick Search

Expert Search

Thesaurus Search

Explore & find

Author

Affiliation

Conference Series Beta

Analytical search

Engineering Research Profile

Inspec Analytics

Filter by: 2014 to 2025 AND

Top authors

Pie

234 226 215 208 204 203

机构的的整体概况、研究重点，一键可得

Engineering research profile 工程报告检索

Microsoft USA ☆

19,974 records in Compendex

Filter by: 2014 to 2025 AND

Select subject Area

Reset filters

Institutions & groups

Search & add

Search institution by name...

Microsoft USA

Remove all

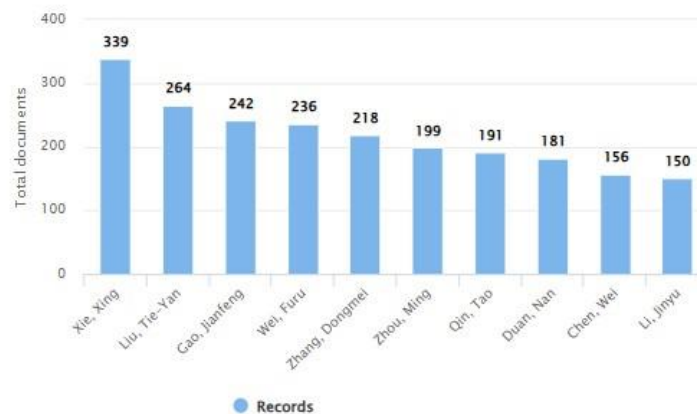
Favorites

Search institutions, then select + to create a favorites list.

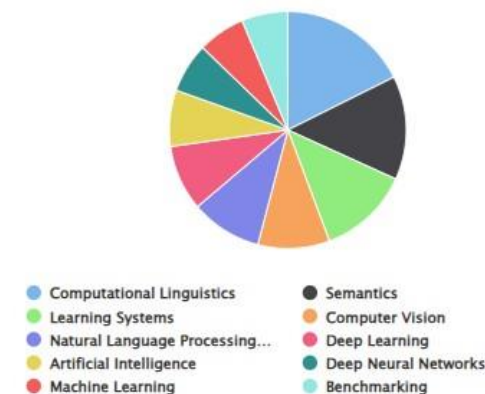
Save your favorites by creating an account or signing in to your current Elsevier account.

Email Print Download

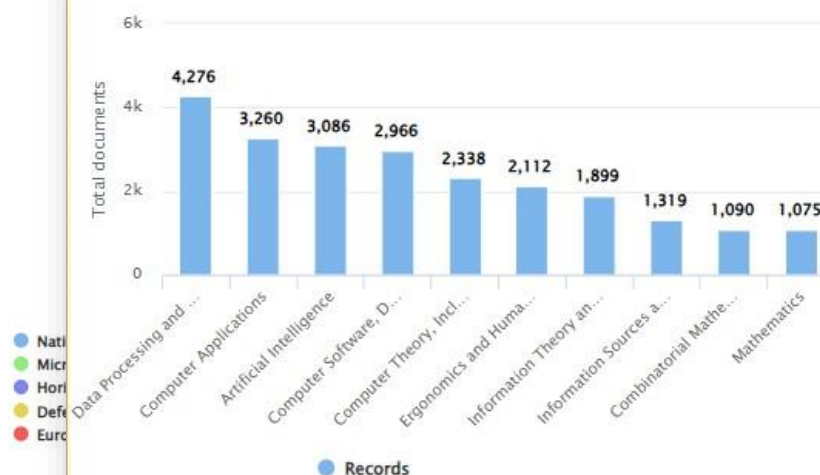
Top authors



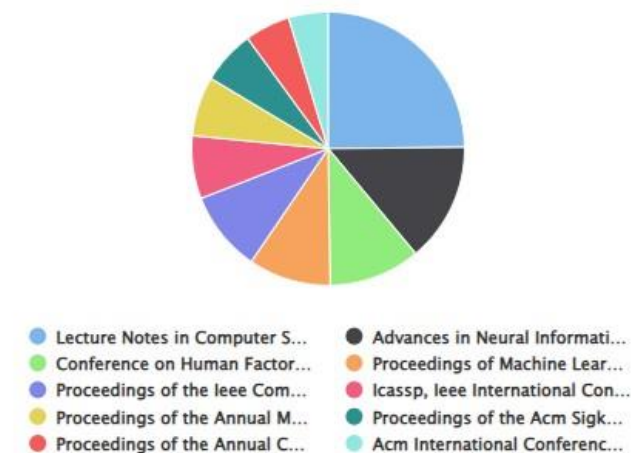
Research focus



Subject area



Source titles



常见问题 & 支持中心

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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 2010 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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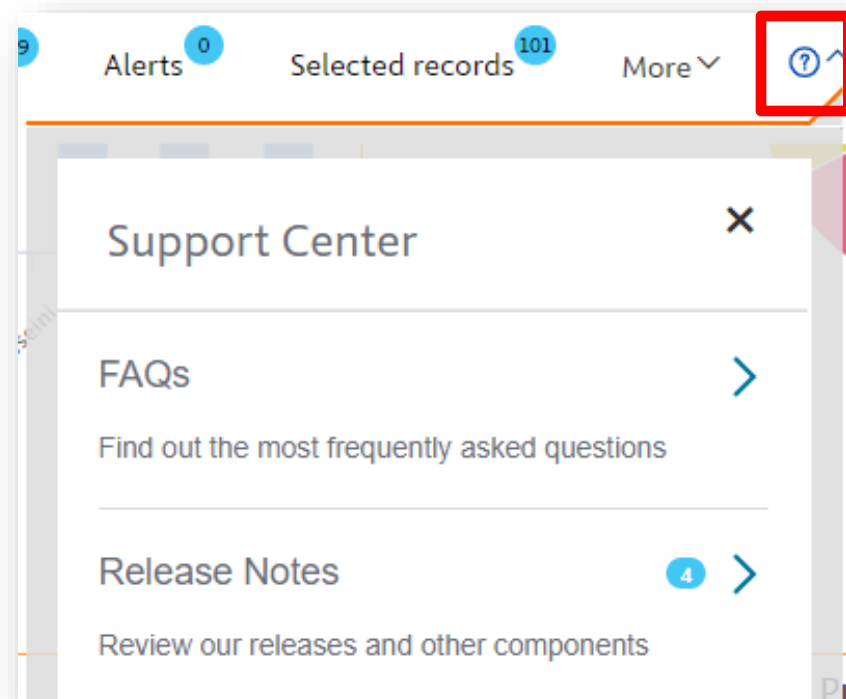
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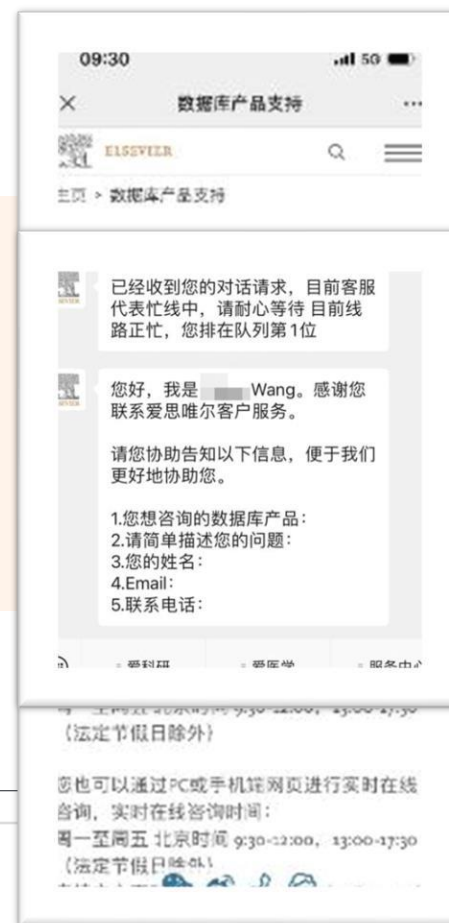
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