Engineering Village-
开展工程领域研究的首选方案

刘晓倩 博士
Elsevier 高级客户成功经理
Xiaoqian.liu@elsevier.com

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

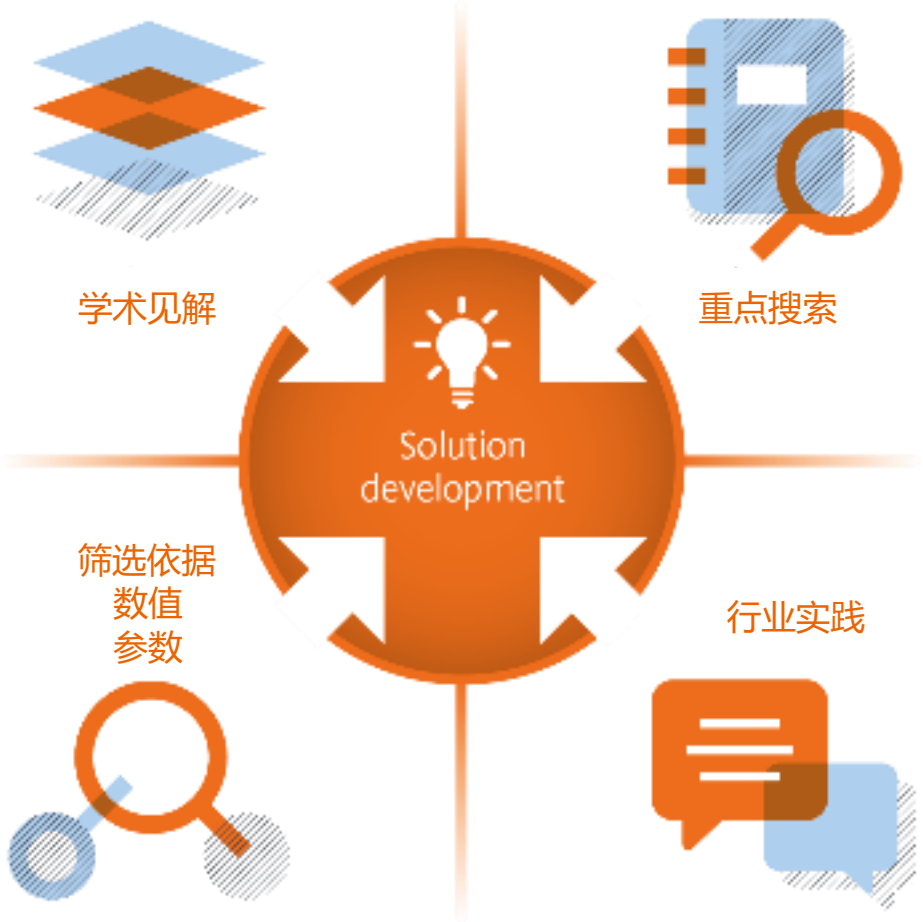
2025.4

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。



Engineering Village®

为工程创新提供动力

ELSEVIER

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

Engineering Village®

为工程创新提供动力

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, geomechanics, 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 (STEI), 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.

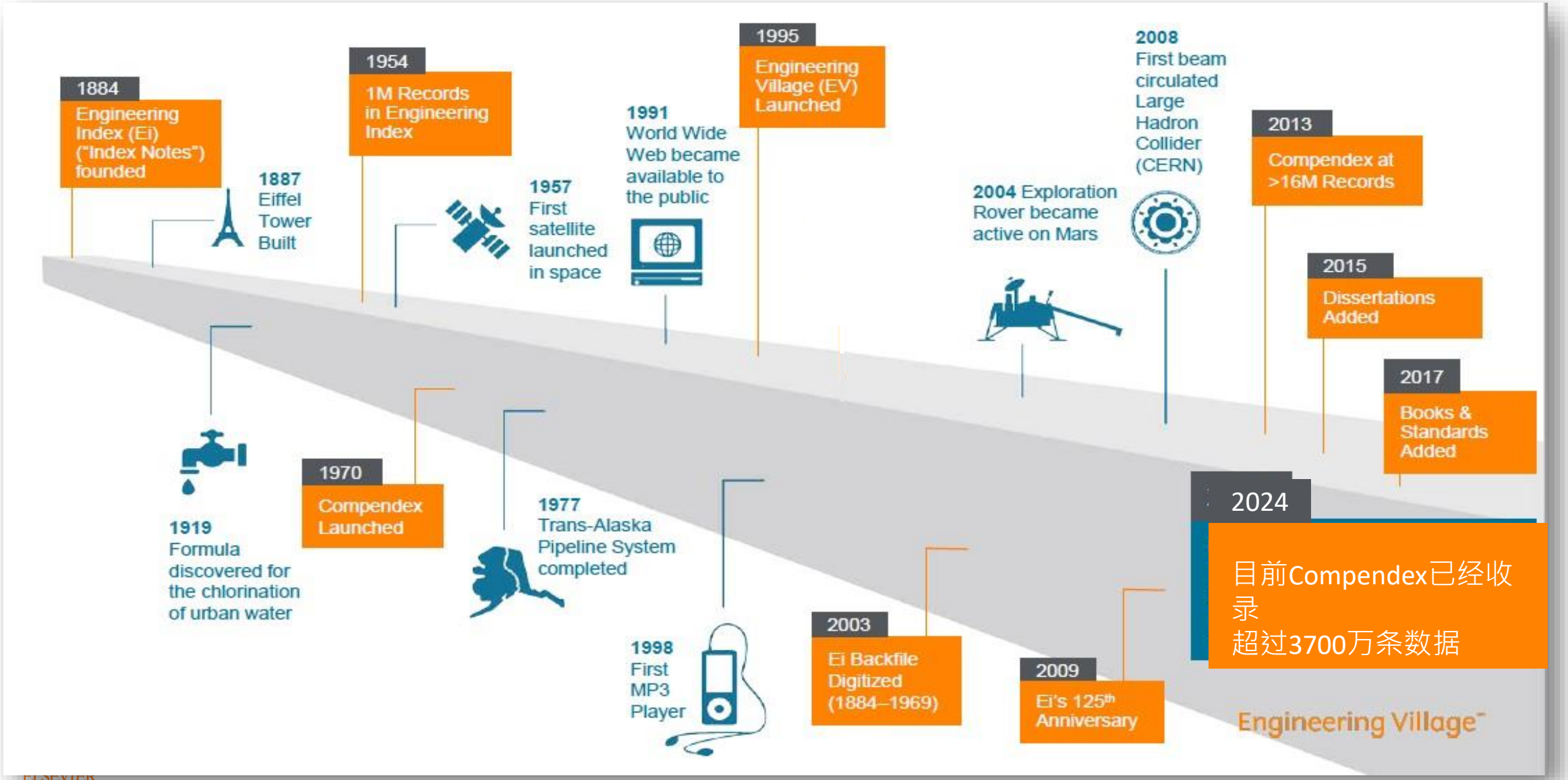
View source list

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

ELSEVIER

Ei Compendex 工程引文索引

https://www.engineeringvillage.com

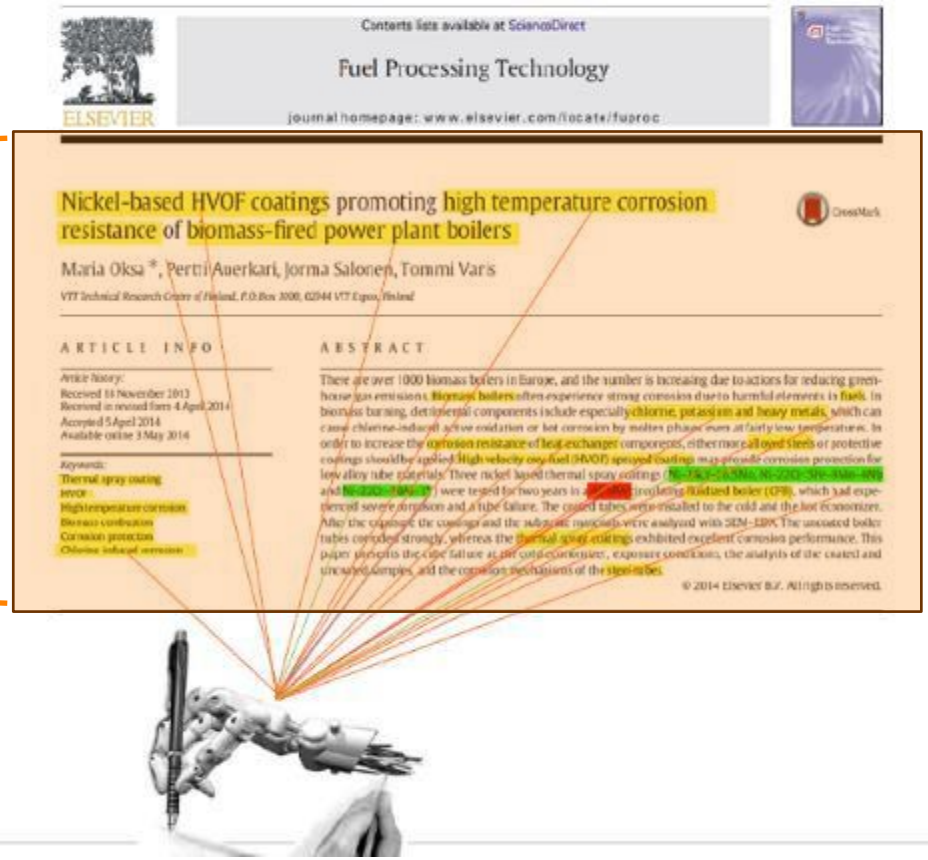


Ei Compendex 工程引文索引

https://www.engineeringvillage.com

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

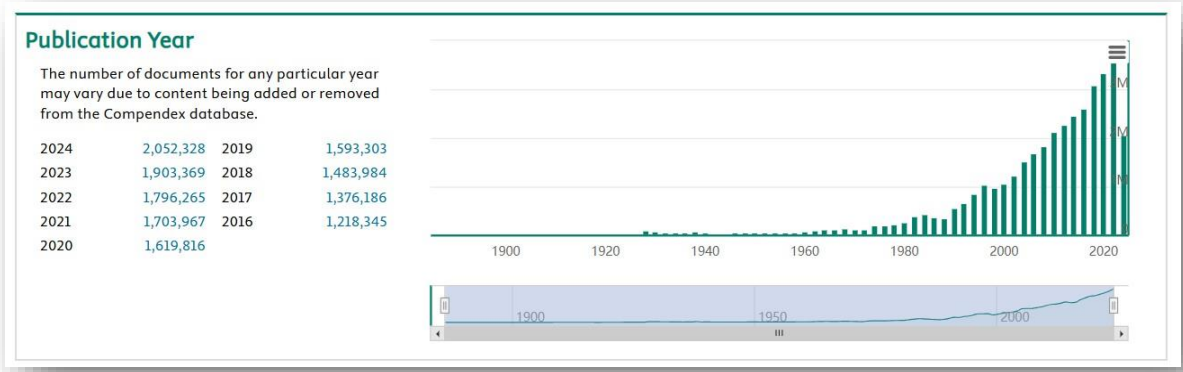
- 根据Ei工程索引叙词表进行索引 (始于1884年)
- 受控词汇由各个学科专家设计并维护
- 学科领域特制索引：
  - →实现高精确度及查全率
  - →节省时间
  - →解决拼写不同、缩写问题
  - →同义词及同形异义词均得到考虑
- 数值数据索引以及化学索引

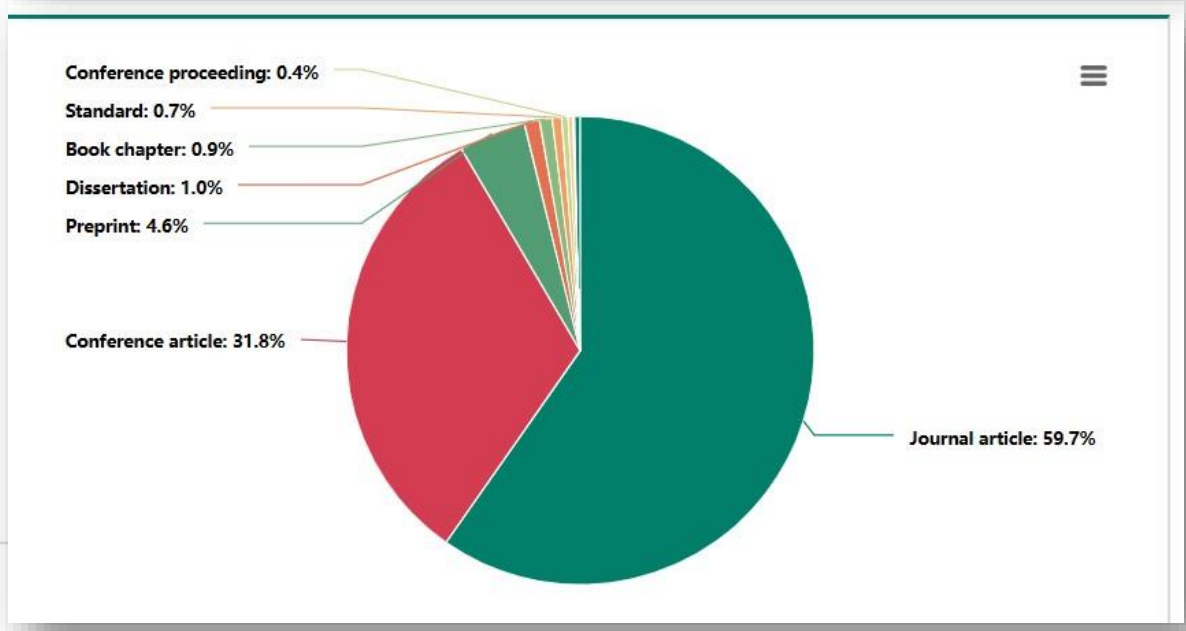
ELSEVIER

Ei Compendex 工程引文索引

https://www.engineeringvillage.com

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



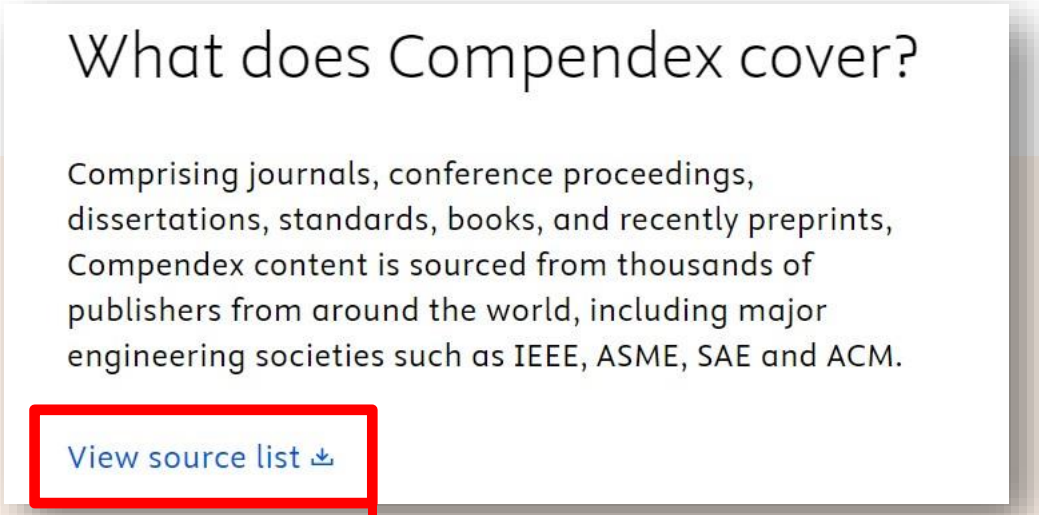


Ei Compendex 工程引文索引

https://www.engineeringvillage.com

获取EI Compendex 官方收录信息

访问地址：
https://www.elsevier.com/products/engineering-village/databases/compendex



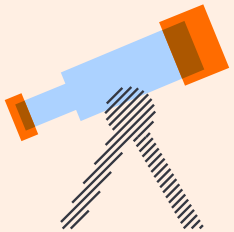
	A	B	C	D	E	F	G
1	COMPENDEX SOURCE LIST: UPDATED JUNE 1, 2023						
2	Source title	Source type	ISSN	EISSN	Publisher	Country/Region	Subject 1
3	2D Materials	Journal	-	20531583	Institute of Physics	United States	Chemistry (all)
4	3D Printing and Additive Manufacturing	Journal	23297662	23297670	Mary Ann Liebert Inc.	United States	Industrial and Manufactur
5	3D Printing in Medicine	Journal	-	23656271	BioMed Central Ltd	United Kingdom	Computer Science Applicat
6	3DTV-Conference	Proceeding	21612021	2161203X	IEEE Computer Society	United States	Computer Graphics and Co
7	AAAI Fall Symposium - Technical Report	Proceeding	-	-	Association for the Advancement of Artificial In	United States	Engineering (all)
8	AAAI Spring Symposium - Technical Report	Proceeding	-	-	Association for the Advancement of Artificial In	United States	Artificial Intelligence
9	AAAI Workshop - Technical Report	Proceeding	-	-	Association for the Advancement of Artificial In	United States	Engineering (all)
10	AAC: Augmentative and Alternative Communication	Journal	07434618	14773848	Taylor and Francis Ltd.	United Kingdom	Rehabilitation
11	AACE International Transactions	Proceeding	15287106	-	Association for the Advancement of Cost Engin	United States	Engineering (all)
12	AAPG Bulletin	Journal	01491423	-	American Association of Petroleum Geologists	United States	Earth and Planetary Scienc
13	AATCC Journal of Research	Journal	-	23305517	SAGE Publications Inc.	United States	Process Chemistry and Tec
14	AATCC Review	Trade journal	15328813	23305525	American Association of Textile Chemists and C	United States	Chemical Engineering (all)
15	ABB Review	Journal	10133119	-	ABB Corporate Management Services AG	Switzerland	Electrical and Electronic En
16	Abel Symposia	Proceeding	21932808	21978549	Springer Science and Business Media Deutschla	Germany	Mathematics (all)
17	ABU Technical Review	Journal	01266209	-	Asia Pacific Broadcasting Union	Malaysia	Electrical and Electronic En
18	Accident Analysis and Prevention	Journal	00014575	-	Elsevier Ltd	United Kingdom	Safety, Risk, Reliability and
19	ACI Materials Journal	Journal	0889325X	-	American Concrete Institute	United States	Civil and Structural Enginee
20	ACI Structural Journal	Journal	08893241	-	American Concrete Institute	United States	Civil and Structural Enginee
21	ACM Communications in Computer Algebra	Journal	19322232	19322240	Association for Computing Machinery	United States	Computational Theory and

SERIALS | CHINESE JRS on SERIALS LIST | NON-SERIALS | DISCONTINUED | DEFINITIONS

工程文献调研案例

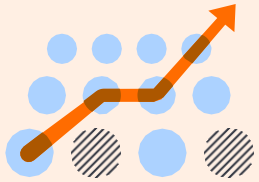
Engineering Village®

为工程创新提供动力



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

ELSEVIER

Engineering Village®

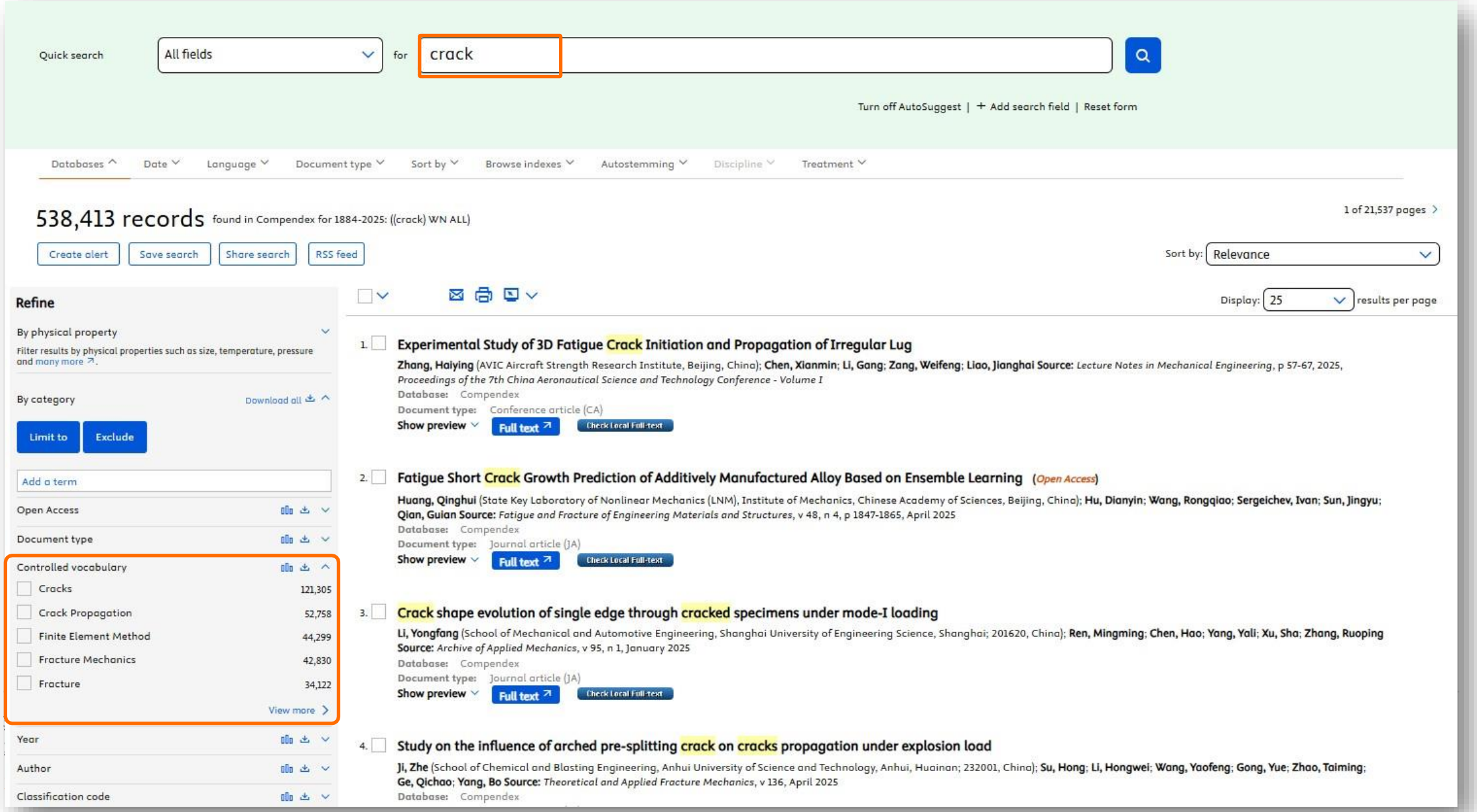
Several rail services across the country have been cancelled as a precaution after cracks were discovered on high-speed trains.

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

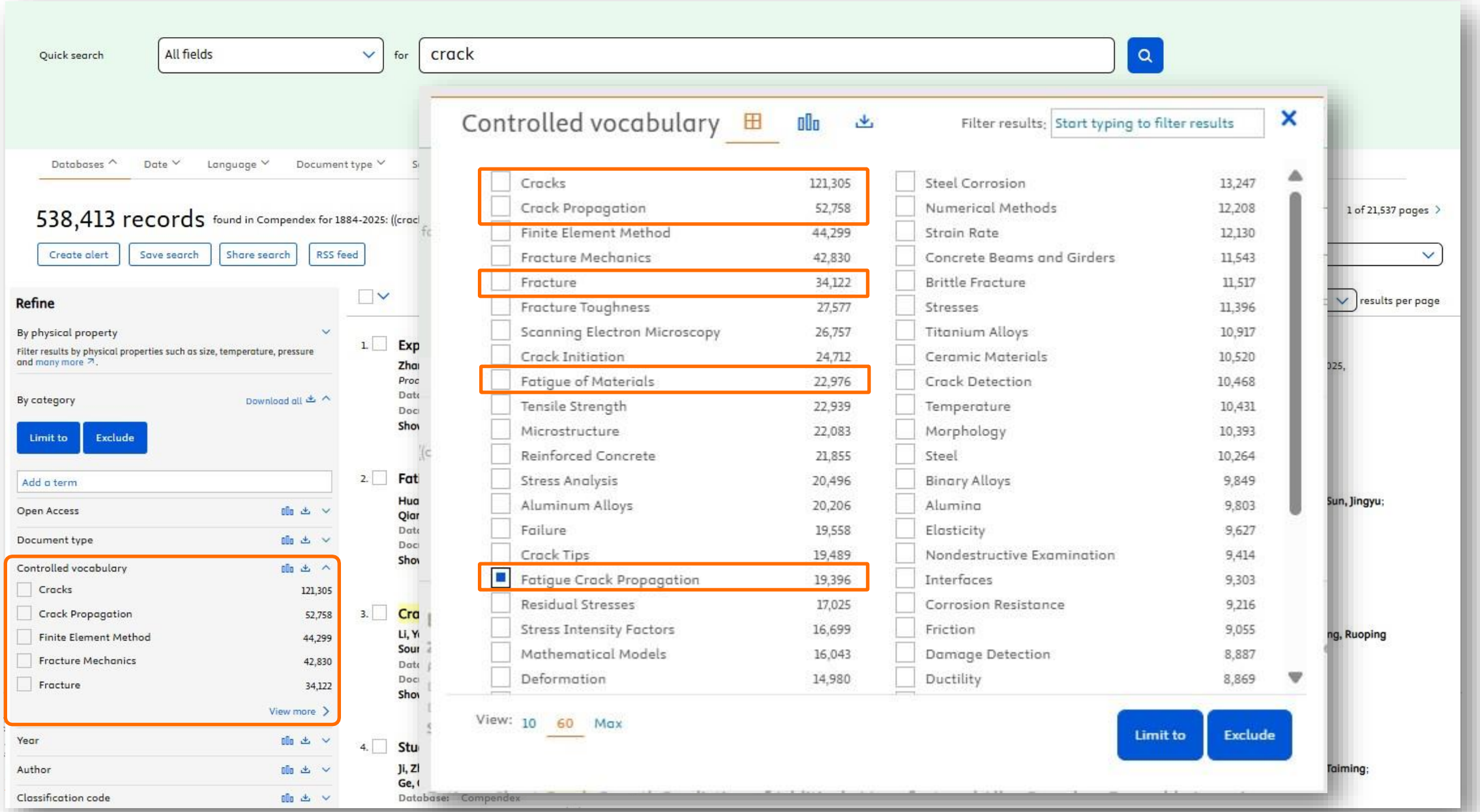
Safety checks are now being carried out after the hairline cracks were found on the Hitachi 800 series trains — used by Great Western Railway (GWR), **London** North Eastern Railways (LNER) and Hull Trains.

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**



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



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 | Sort by | Autostemming | Search codes | Browse indexes

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

1 of 776 pages

Create alert | Save search | Share search | RSS 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

railroad

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 | 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. **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

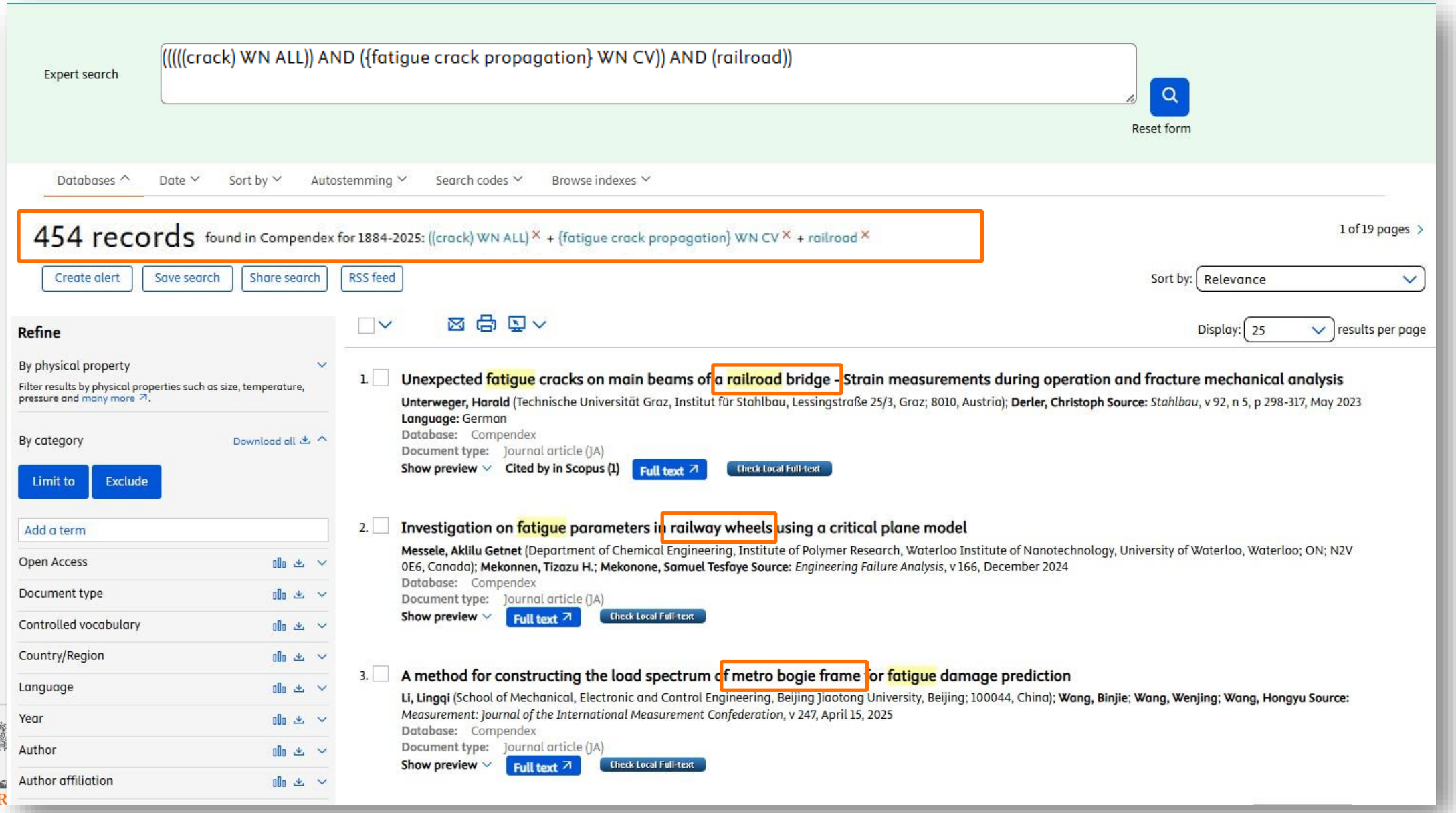
Database: Compendex

Document type: Journal article (JA)

Show preview | Full text | Check Local Full-text

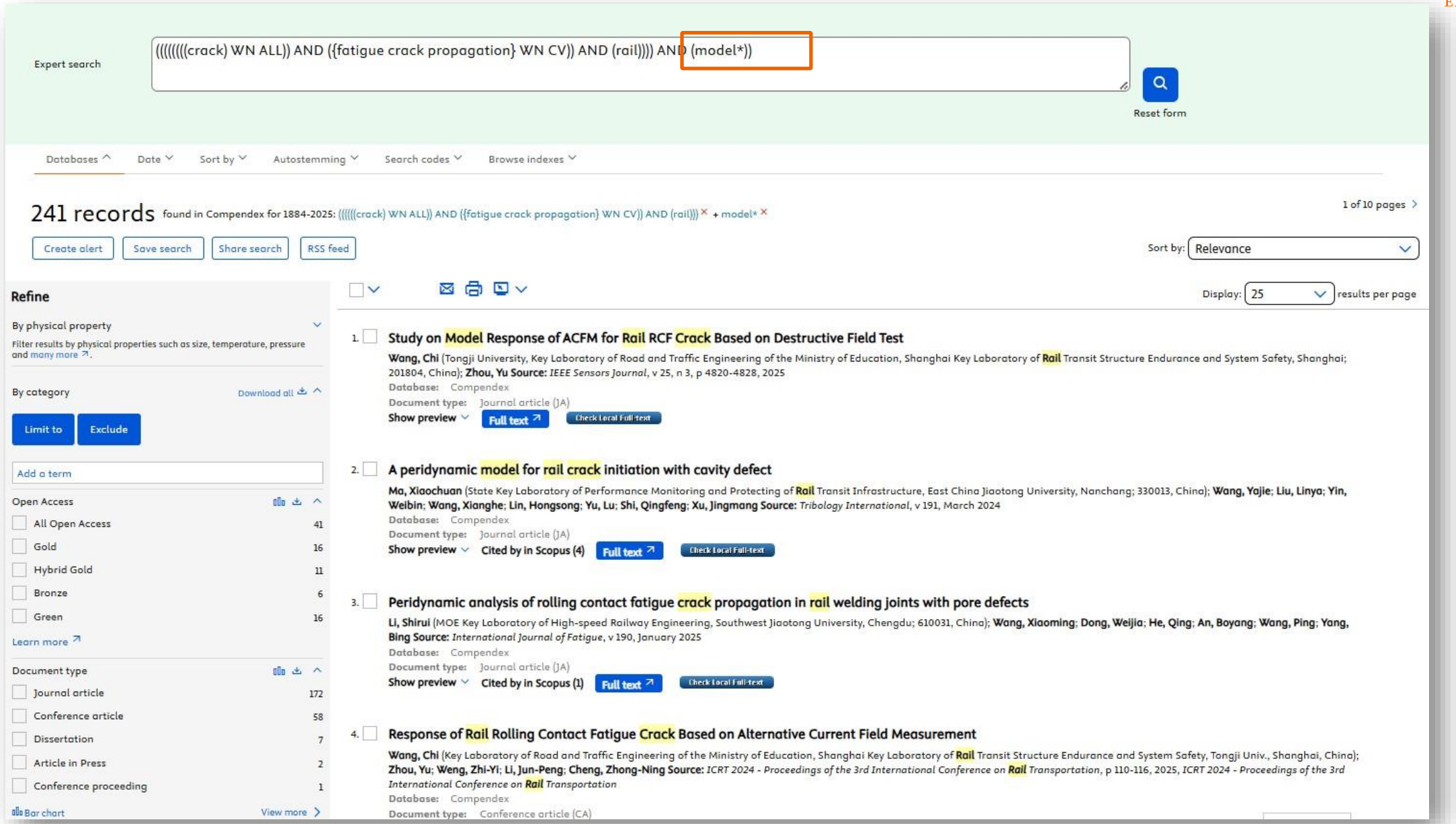
4

结果范围缩小到450 条记录。

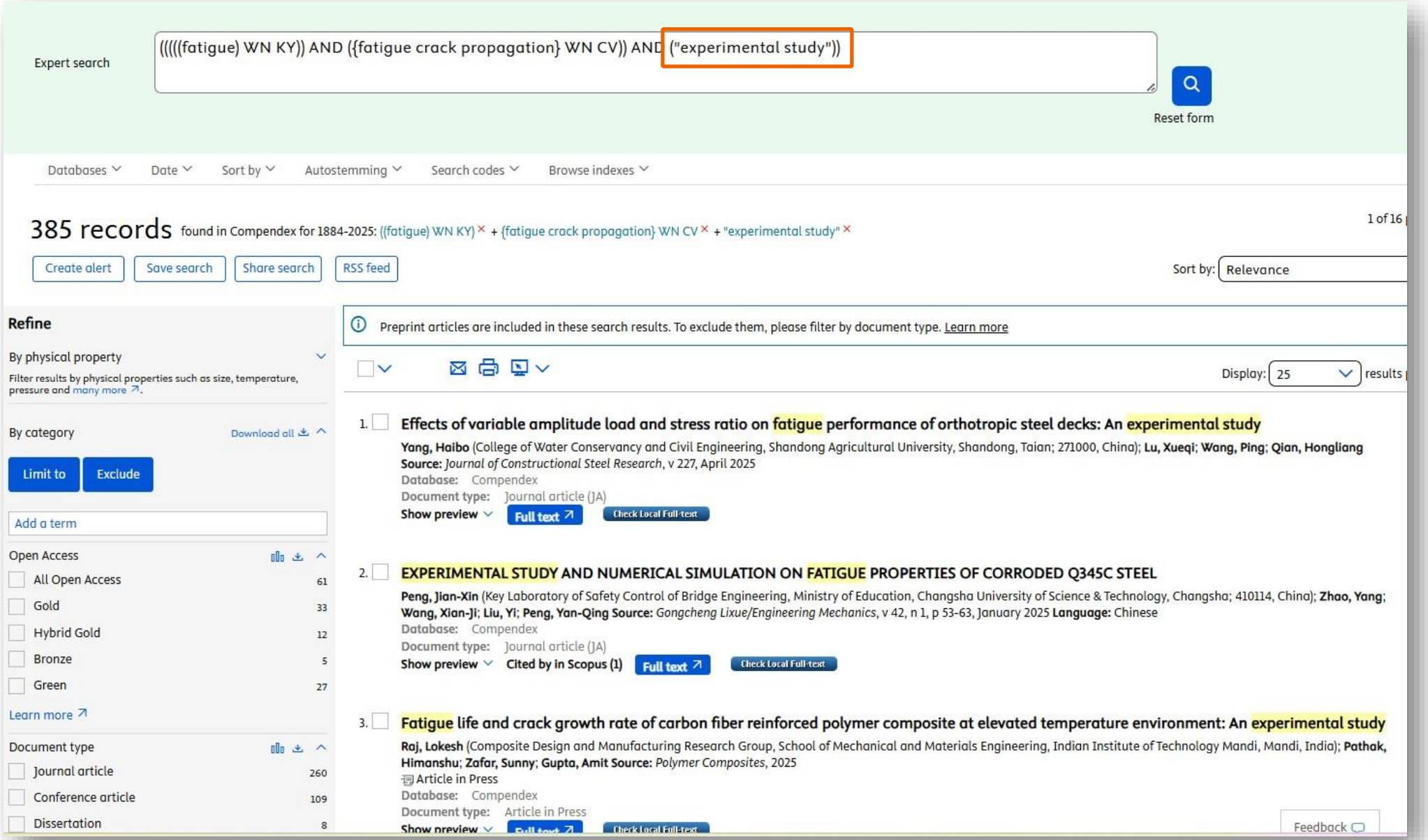


ELSEVIER

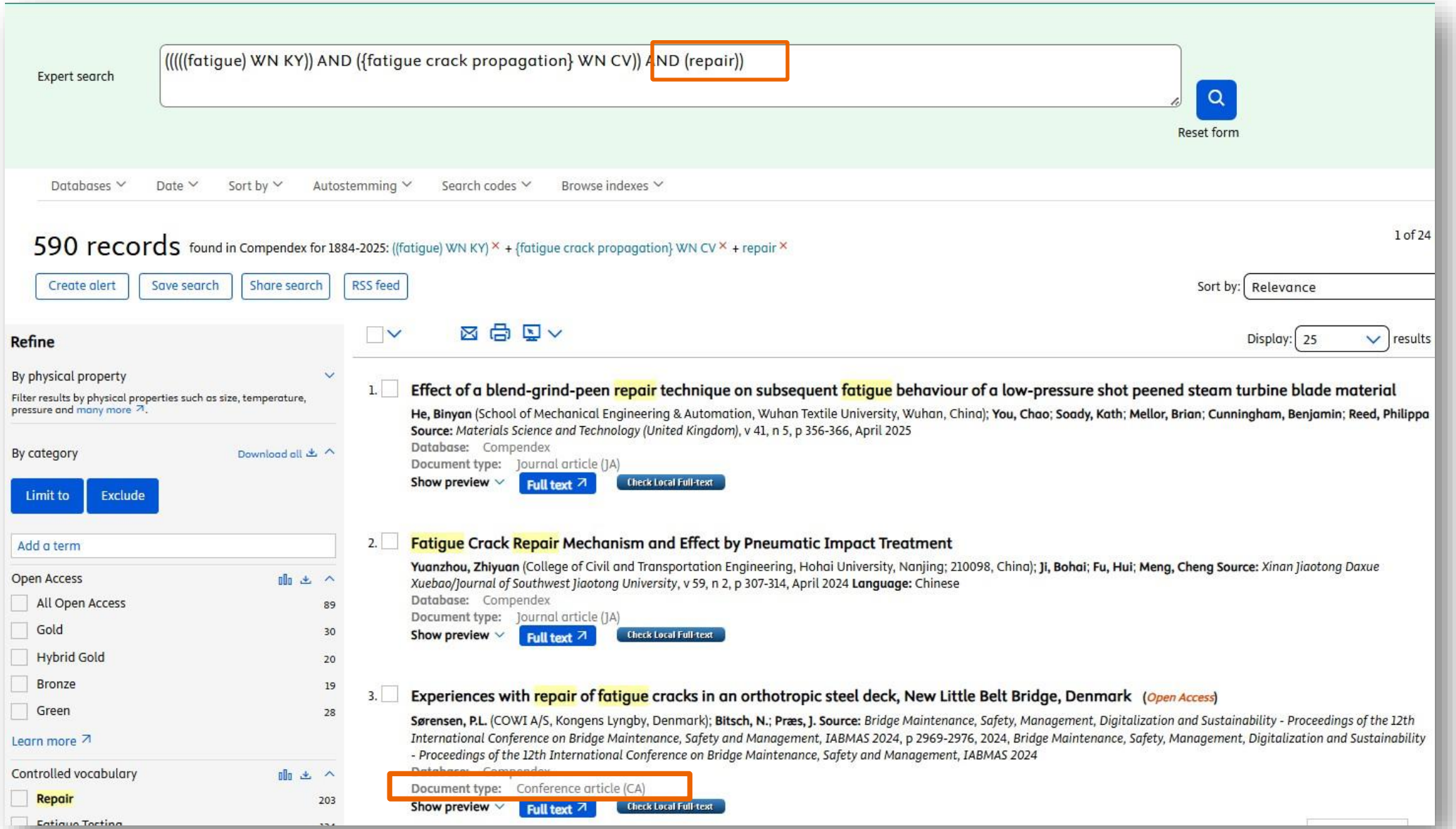
5 快速扩展，判断问题，提出假设



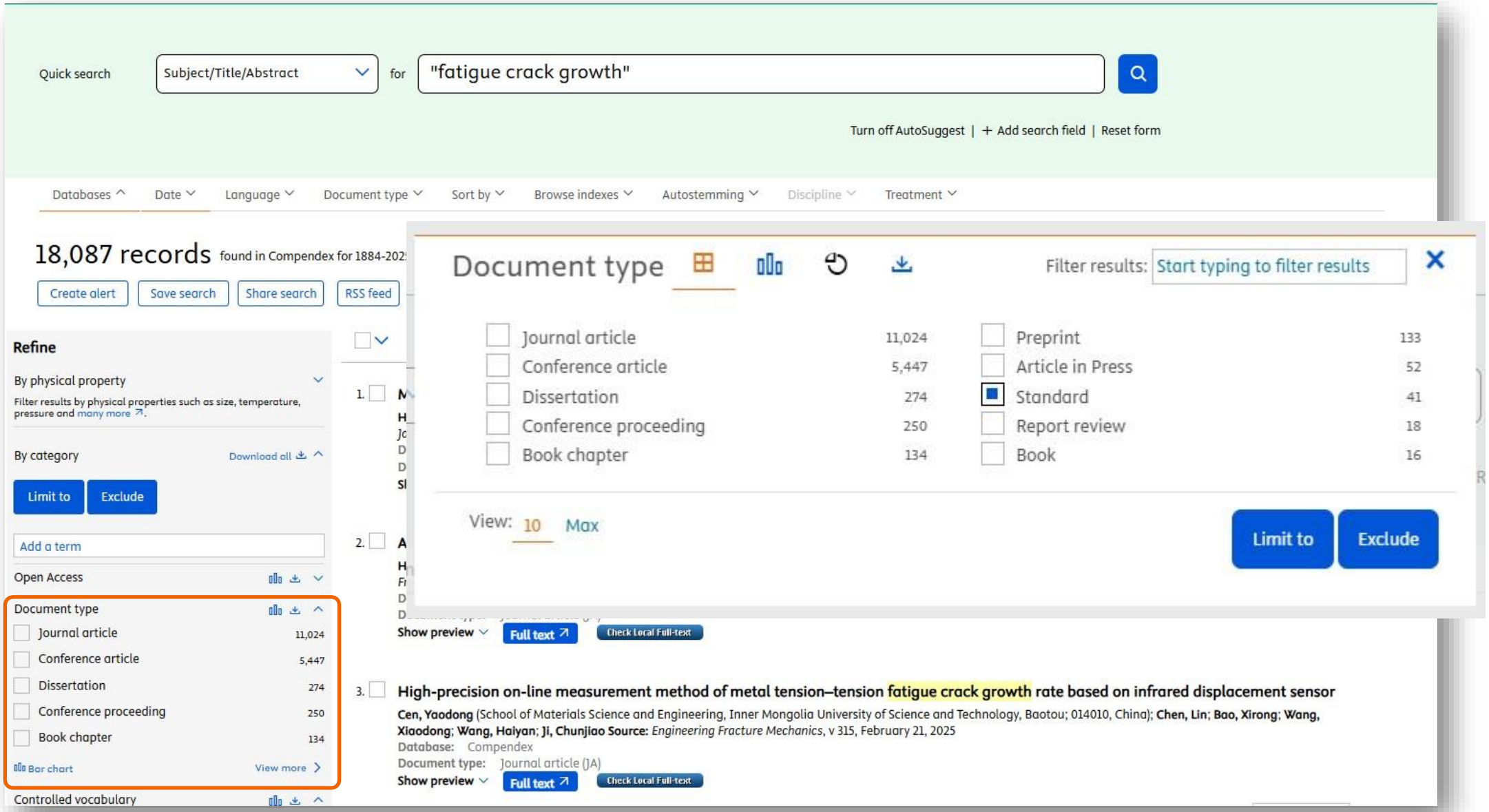
5 快速扩展，判断问题，提出假设



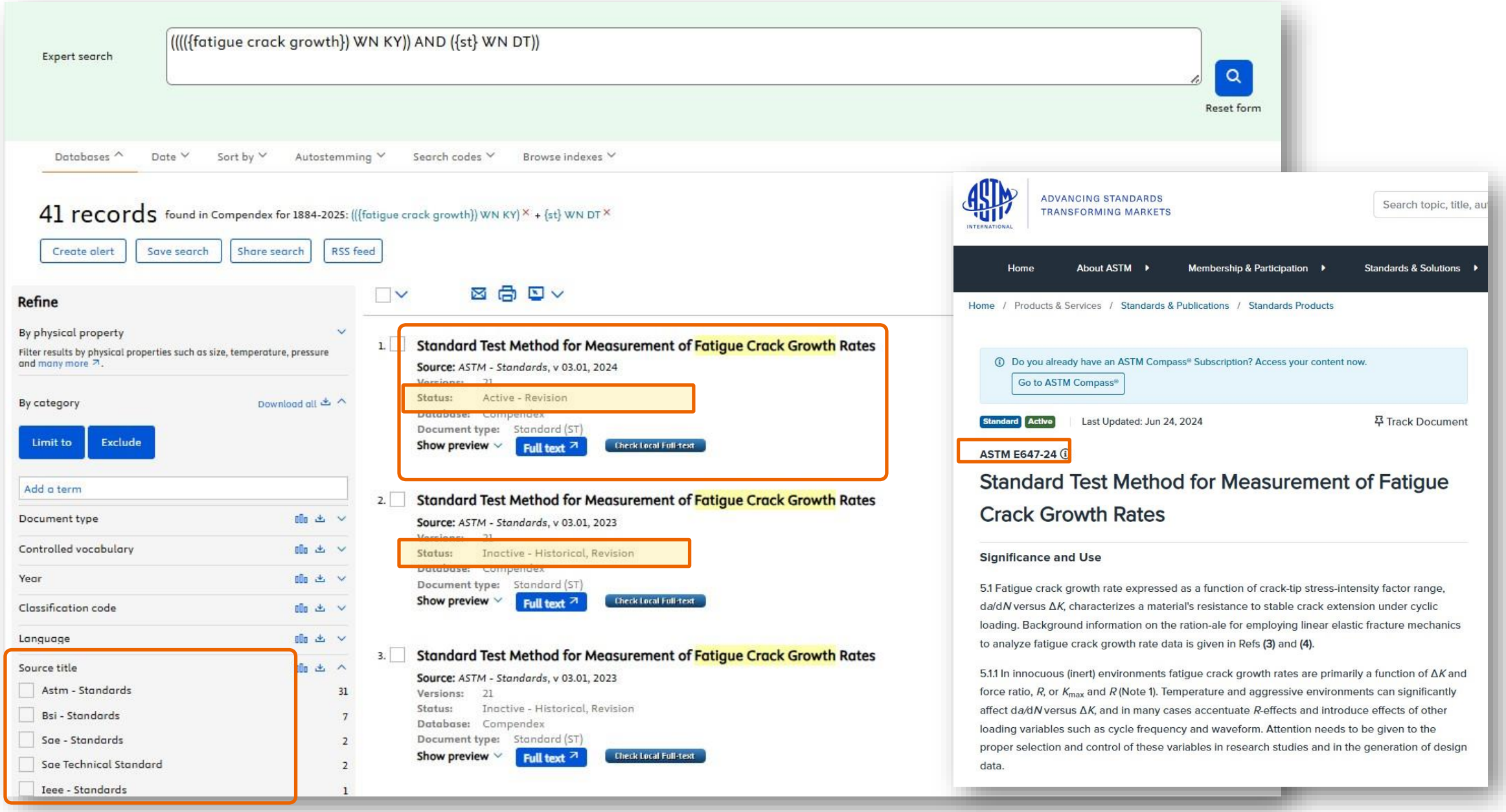
5 快速扩展，判断问题，提出假设



6 参考各国/通用的实验方法、标准



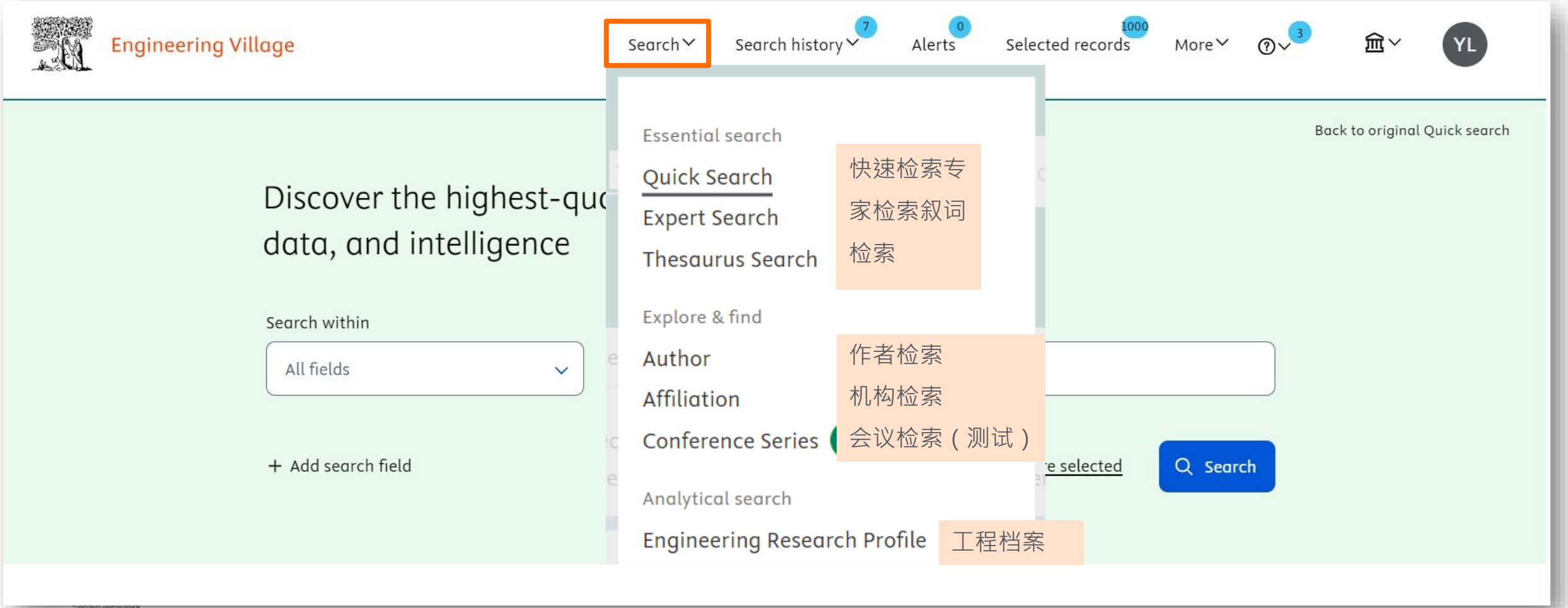
6 参考各国/通用的实验方法、标准



Ei 基本检索 & 特色检索

Ei Compendex 工程引文索引

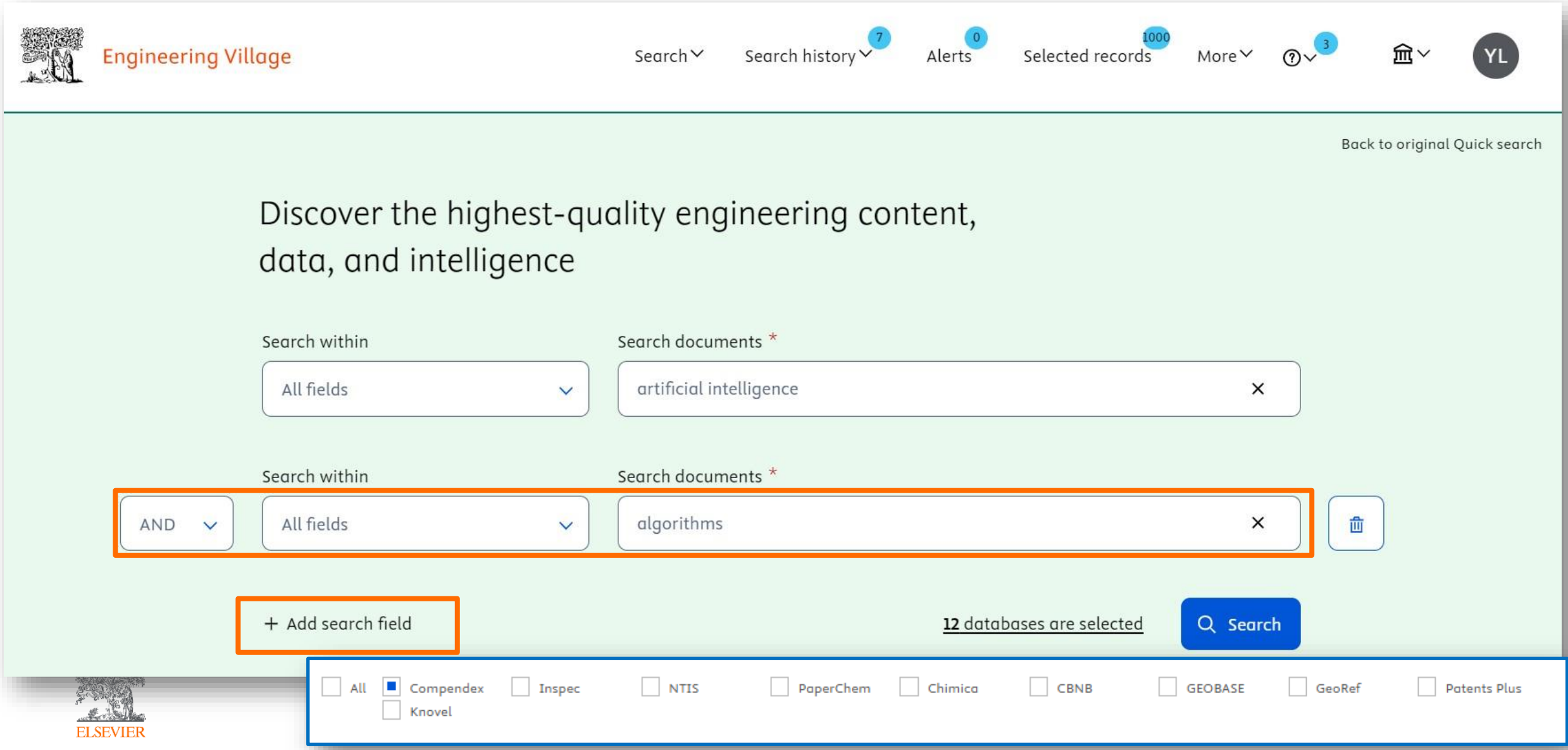
https://www.engineeringvillage.com



ELSEVIER

快速检索

https://www.engineeringvillage.com



ELSEVIER

快速检索

https://www.engineeringvillage.com

By category Download all

Limit to | Exclude

Add a term: vehicle

- Open Access
- Controlled vocabulary
- Document type
- Author
- Author affiliation
- Classification code
- Country/Region
- Language
- Year
- Source title
- Publisher
- Funding sponsor

OA

受控词汇文

献类型作者

作者机构学

科分类国家

地区文献语

言出版年

来源出版物

出版社

14,801 records found in Compendex for 1884-2025 (((artificial intelligence) WN ALL) AND ((algorithms) WN ALL)) + vehicle

Create alert | Save search | Share search | RSS feed

Display: 25 results per page

1. **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)
   Show preview | Full text | Check Local Full-text

2. **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)
   Show preview | Full text | Check Local Full-text

3. **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)
   Show preview | Full text | Check Local Full-text

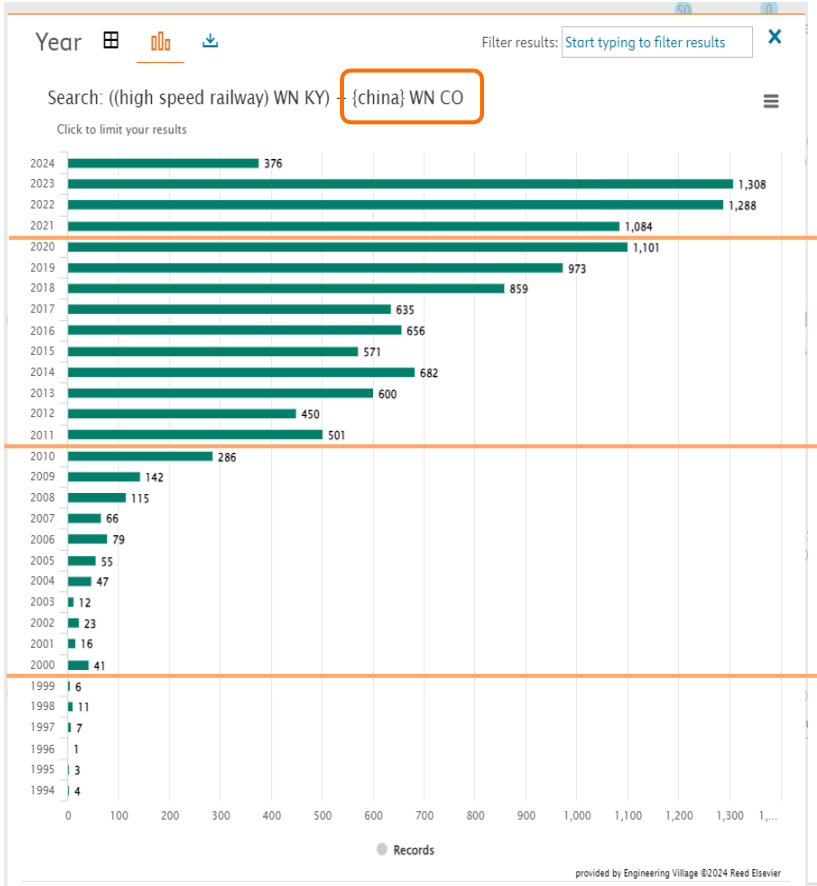
ELSEVIER

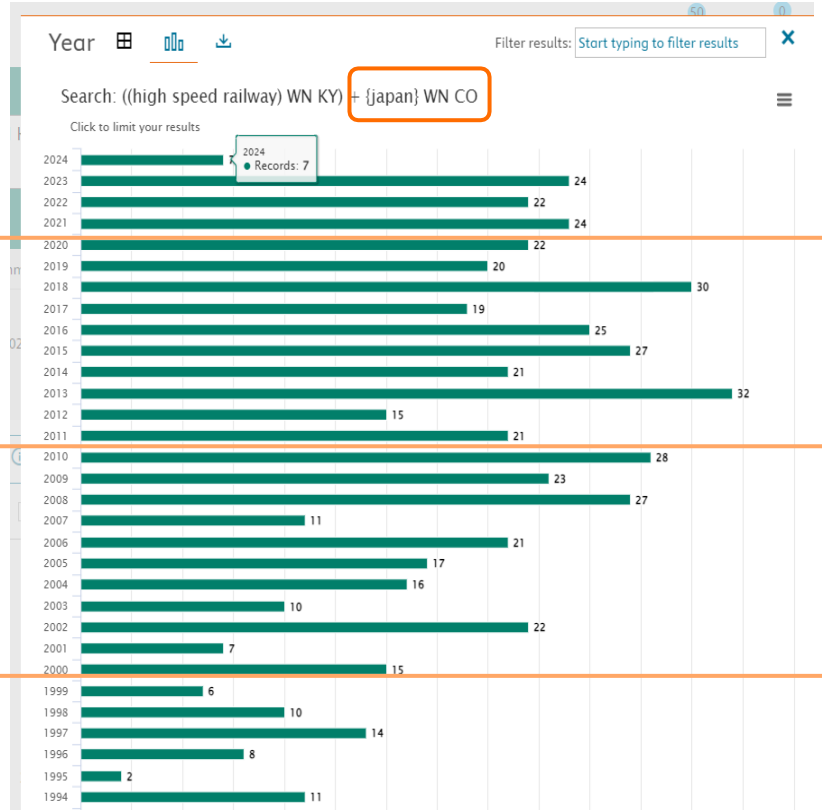
趋势分析

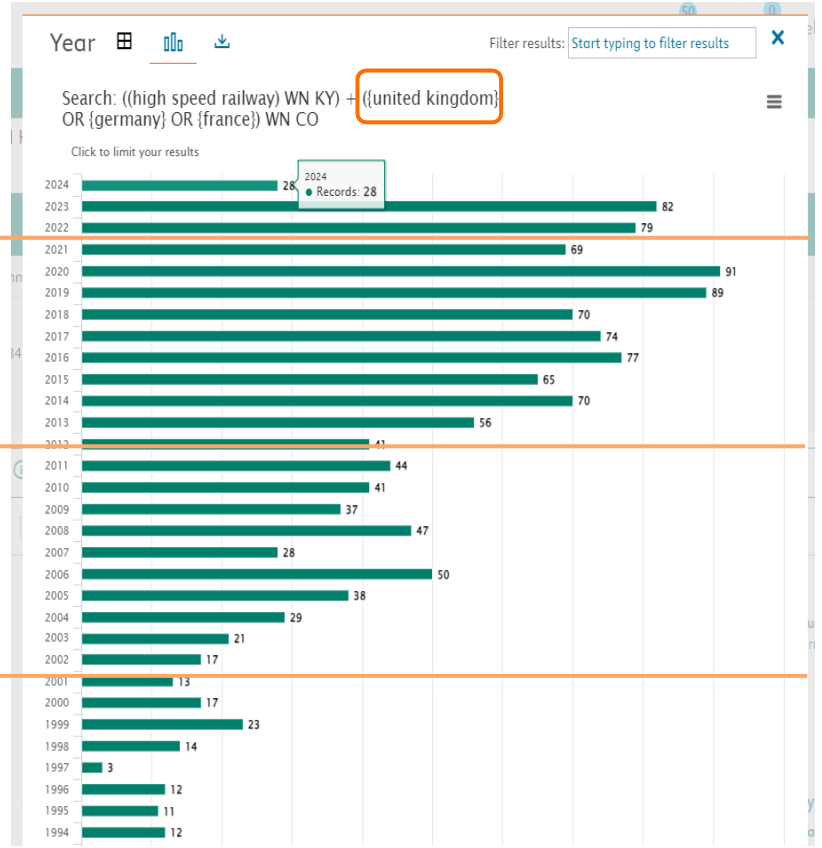
https://www.engineeringvillage.com

国家地区

- High speed railway 国别研究趋势







Author affiliation	Count
China Railway Corporation	56
Alstom	52
East Japan Railway Company	43

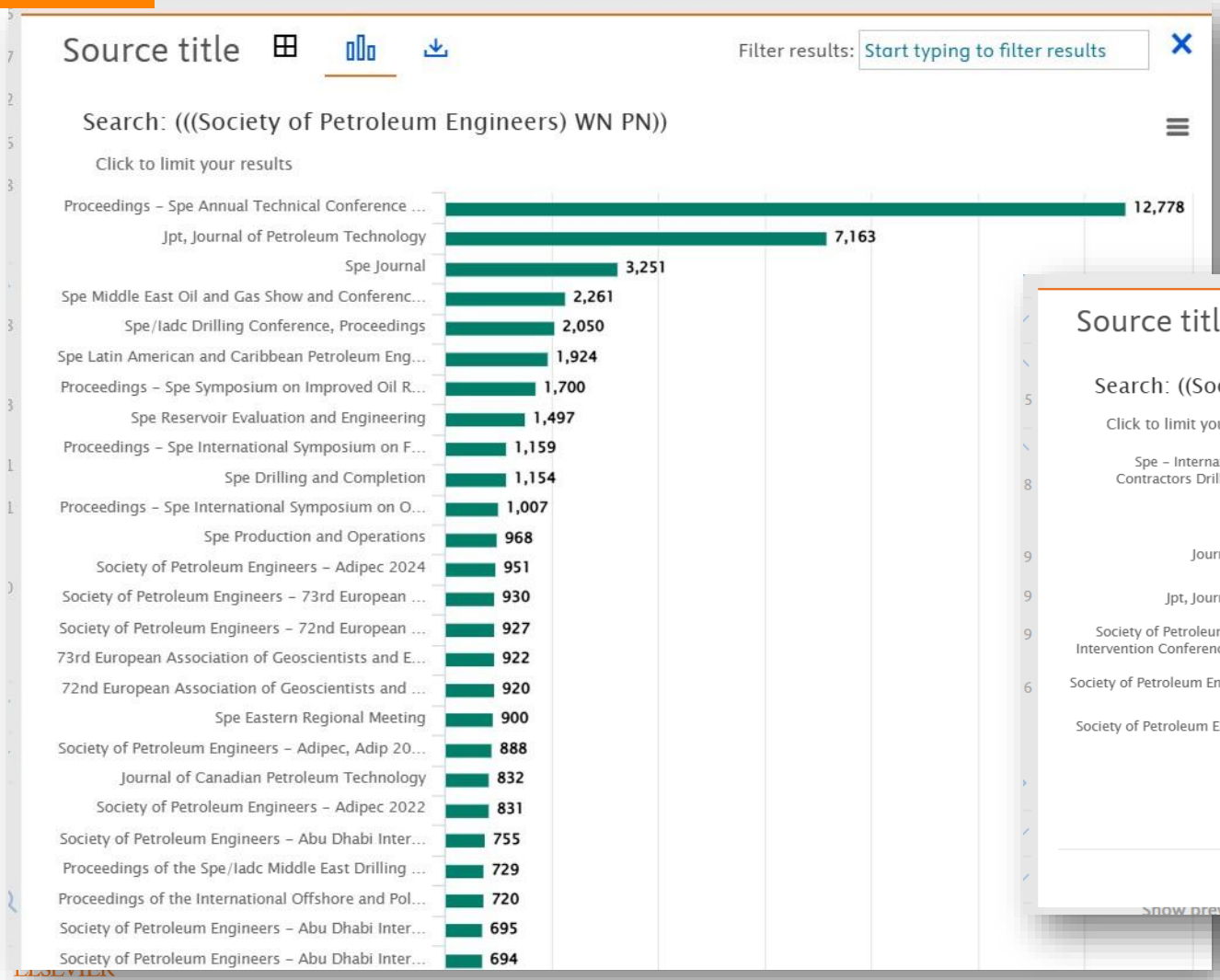
ELSEVIER

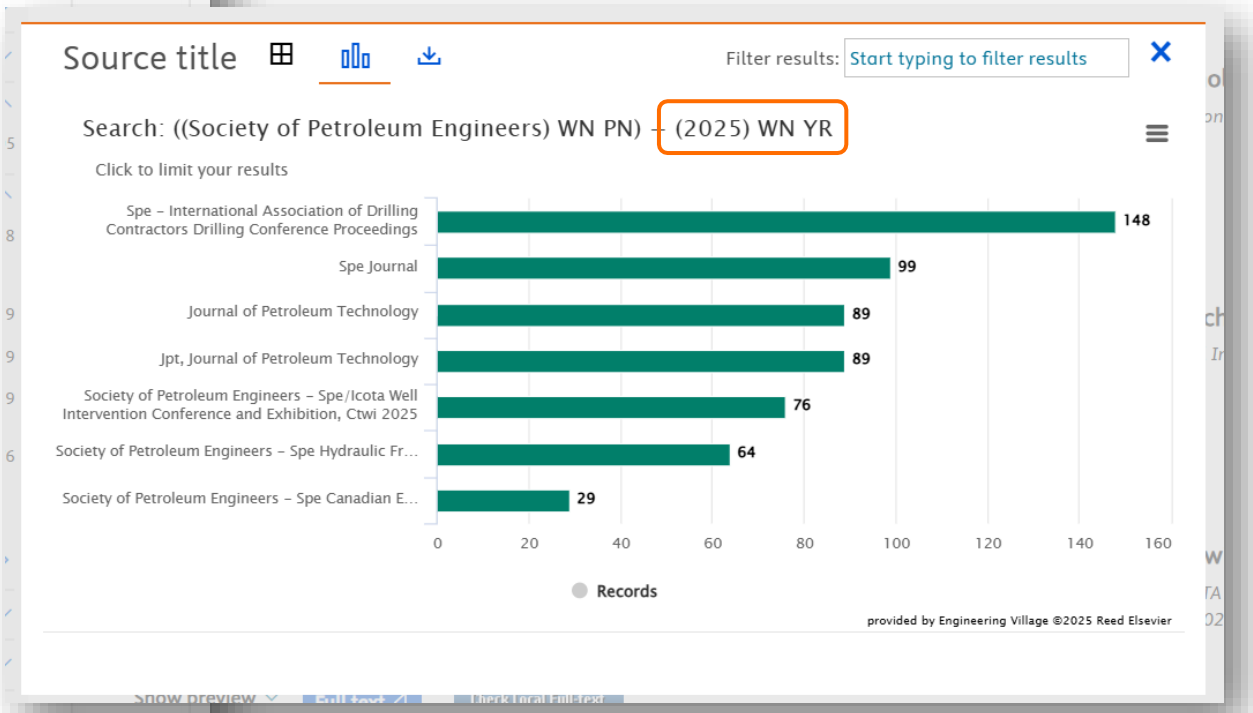
学会动态

https://www.engineeringvillage.com

出版社

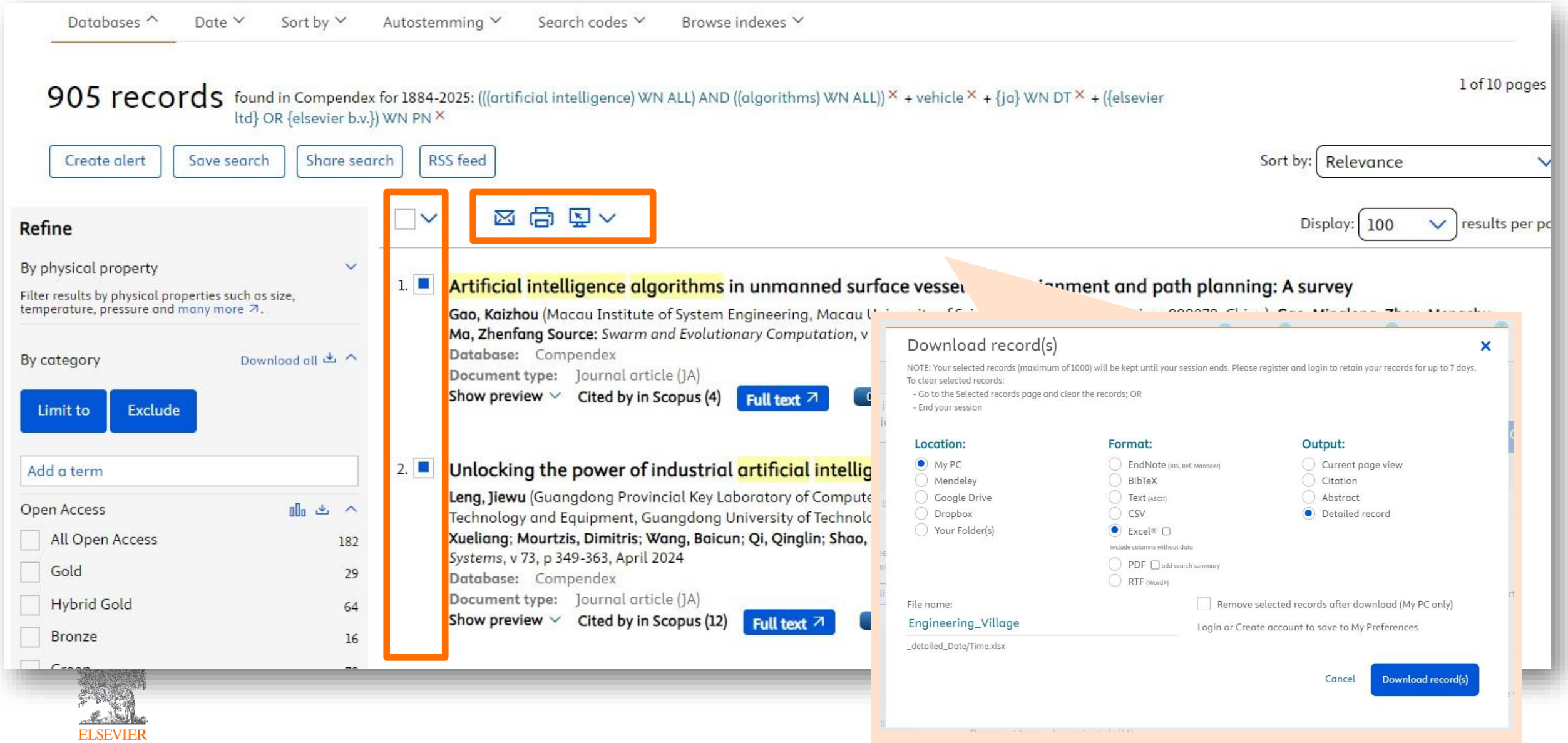
筛选：SPE国际石油工程师协





记录导出

https://www.engineeringvillage.com



ELSEVIER

记录导出

https://www.engineeringvillage.com

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Title	Accession number	Title of translation	Author	Author affiliation	Correspondin g author(s)	Source	Abbreviated source title	Sponsor	Publisher/Re pository	Volume	Issue	Pages	Issue date
2	Artificial intelli	20022870173		Tan, K.C.(1); Le	(1) Departmer	Tan, K.C. (elet	Engineering A	Eng Appl Artif		Elsevier Ltd	14	6	825-837	Decembe
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. Sustaina		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, Div		Garikapati, Div	arXiv	arXiv		arXiv				February
9	Unlocking the	20241015688		Leng, Jiewu(1)	(1) Guangdon	Liu, Qiang (liu	Journal of Mar	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 I	Wang, Jiashuc	2022 6th Inter	Int. Conf. Tren		Institute of Ele			992-995	2022
12	Facilitating the	20221812055		Zak, Yuval(1);	(1) Ben-Gurio	Zak, Yuval (zal	Human Factor	Hum. Factors		SAGE Publicat	65	7	1345-1360	Novembe
13	Managing the	20240115300		Starostin, V.S.(	(1) State Unive	Starostin, V.S.	2023 Intelliger	Intell. Technol	IEEE; IEEE Reg	Institute of Ele				2023
14	Explainable AI	20235215286		Banimelhem,	(1) Jordan Uni		2023 14th Inte	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. S	Jilin University	IOP Publishing	2074	1		Decembe
16	Analysis and F	20240915651		Wang, Pin(1);	(1) School of M		IEEE Access	IEEE Access		Institute of Ele			1-1	2024
17	Application of	20243216820		Sun, Yanting(1	(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			Decembe
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 M	Adv. Mech.		Chinese Acad	53	2	273-307	June 202
21	Design of veh	20231513872		Liang, Jifeng(1	(1) School of I	Liang, Jifeng (I	IET Wireless Se	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 assista	20240415431		Abdellaoui, Gl	(1) Higher Sch	Abdellaoui, Gl	2023 IEEE Inte	IEEE Int. Works		Institute of Ele				2023
24	Review on Tec	20243717010		El Fallah, Saad	(1) Université	El Fallah, Saad	Lecture Notes	Lect. Notes Ne		Springer Scier	1100 LNNS		468-476	2024

Detailed Results

ELSEVIER

检索符号

https://www.engineeringvillage.com

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

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

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, 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)

Show preview | Full text | Check Local Full-text

精准匹配 "" { }

- 词组检索 " " 或{ }
- 表示词间不能插词，词序不能颠倒

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)

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)

Show preview | Full text | Check Local Full-text

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 Sou

Database: Compendex

Document type: Journal article (JA)

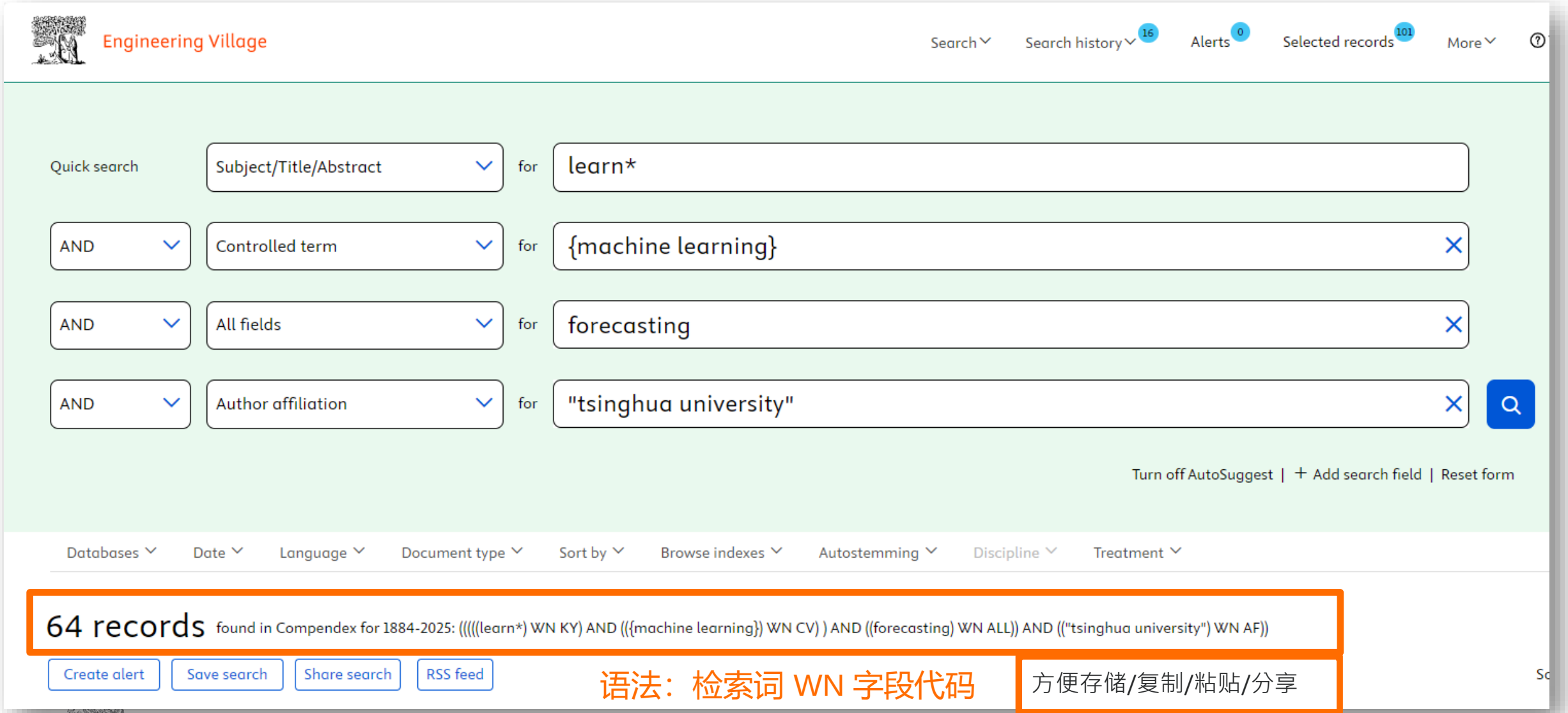
Show preview | Full text | Check Local Full-text

87,279 records found in Compendex for 1884-2025: (("traffic control") WN KY)

ELSEVIER

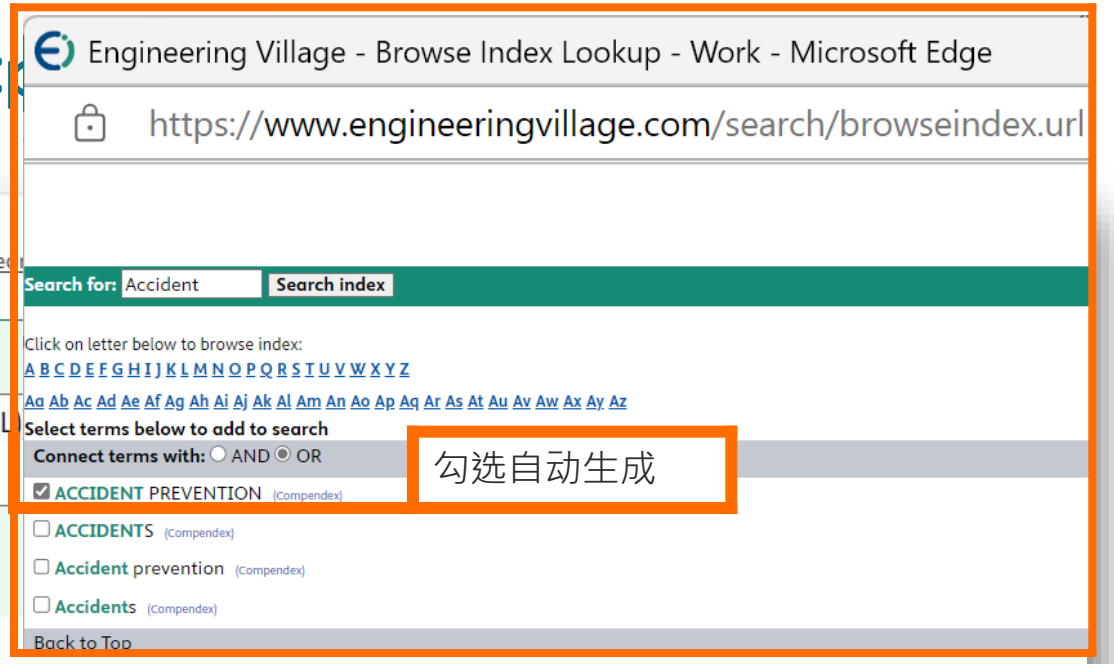
检索符号

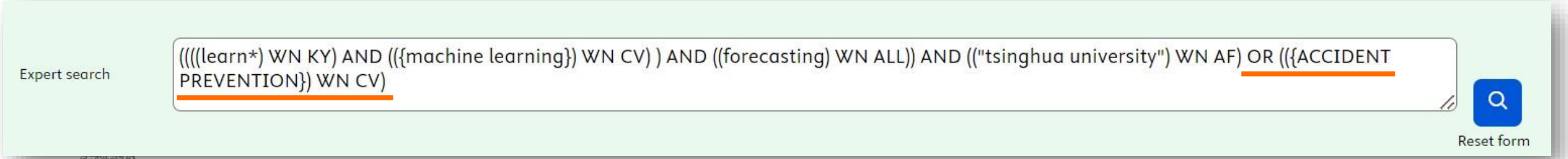
https://www.engineeringvillage.com



ELSEVIER

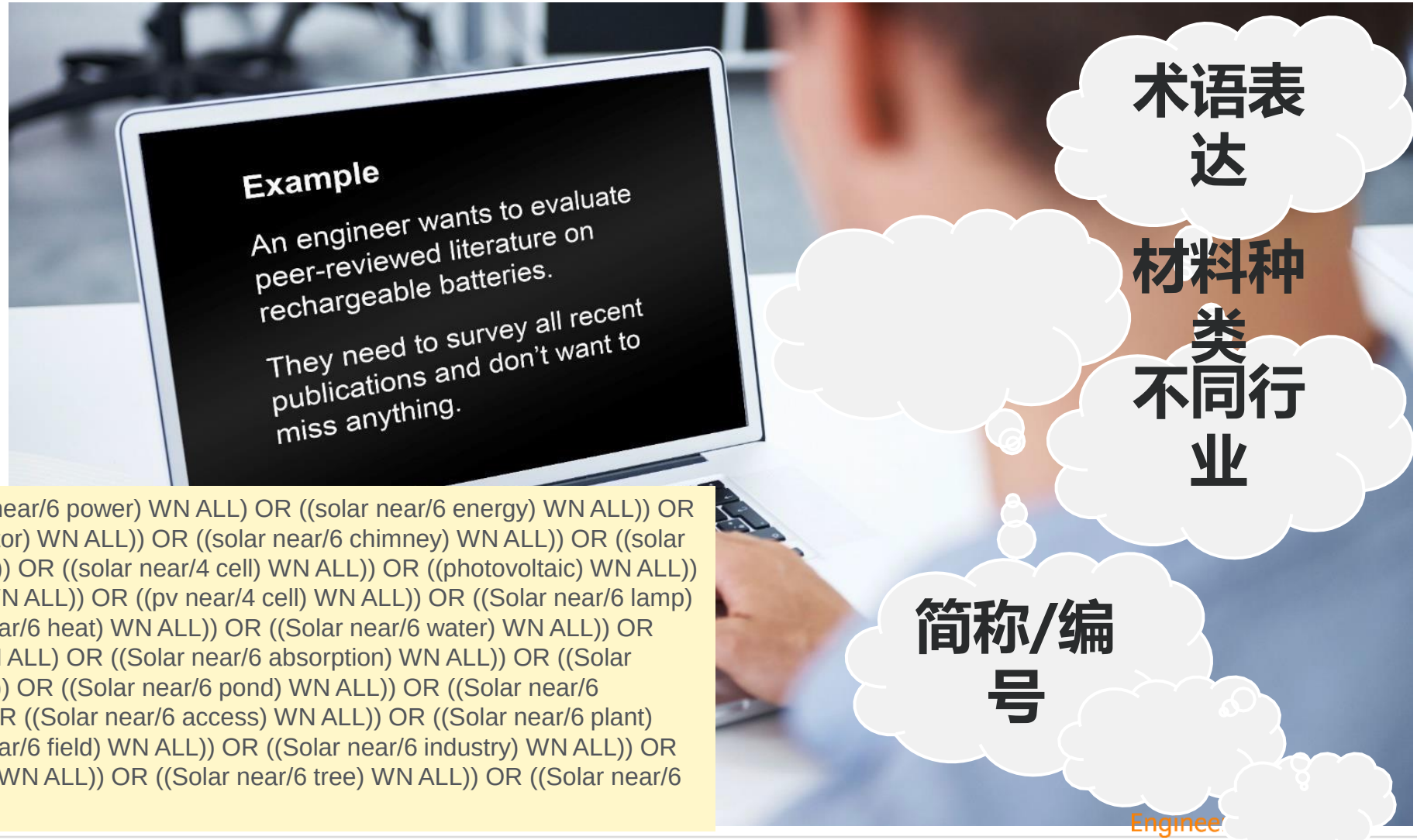
选用控词





ELSEVIER

Thesaurus search 叙词搜索



((((((((((((((((((((((((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))

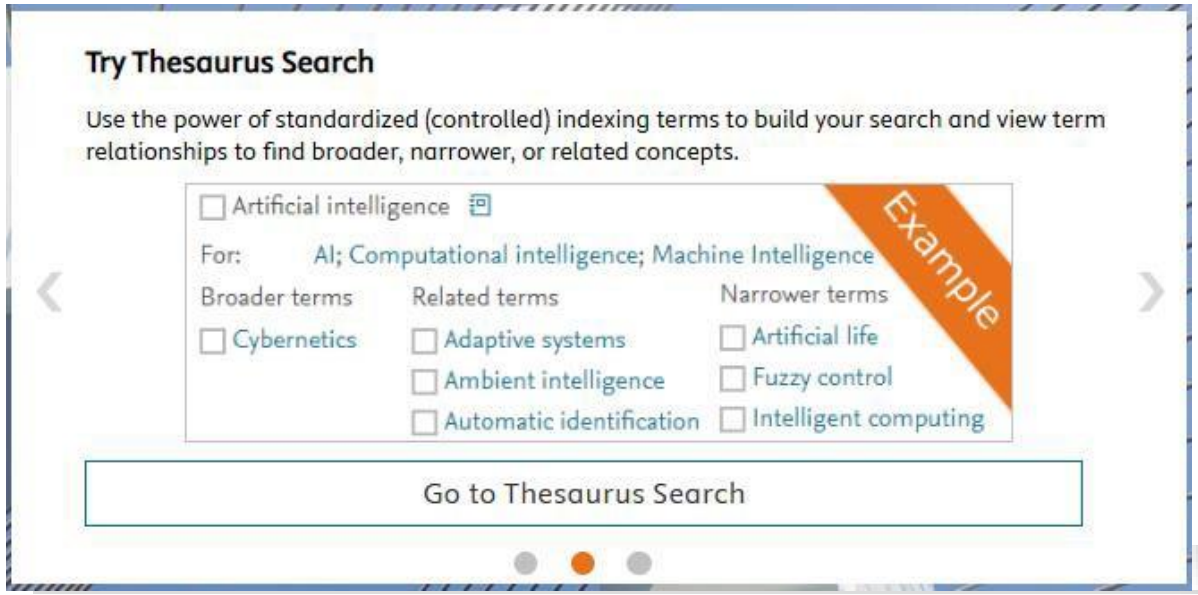
查准？ 查全？

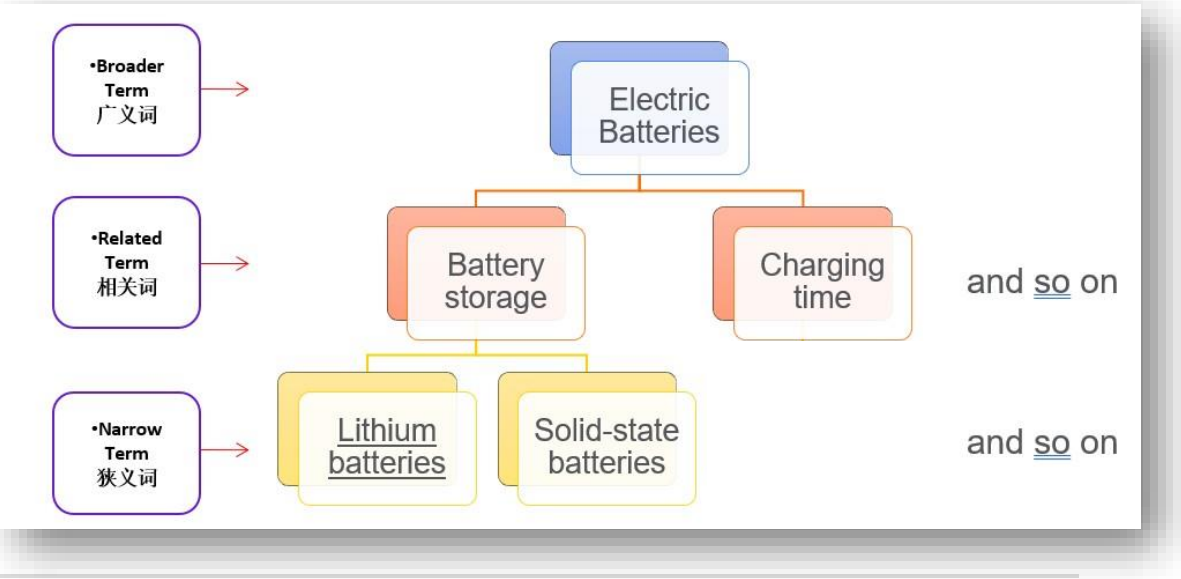
ELSEVIER

Thesaurus search 叙词搜索

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。

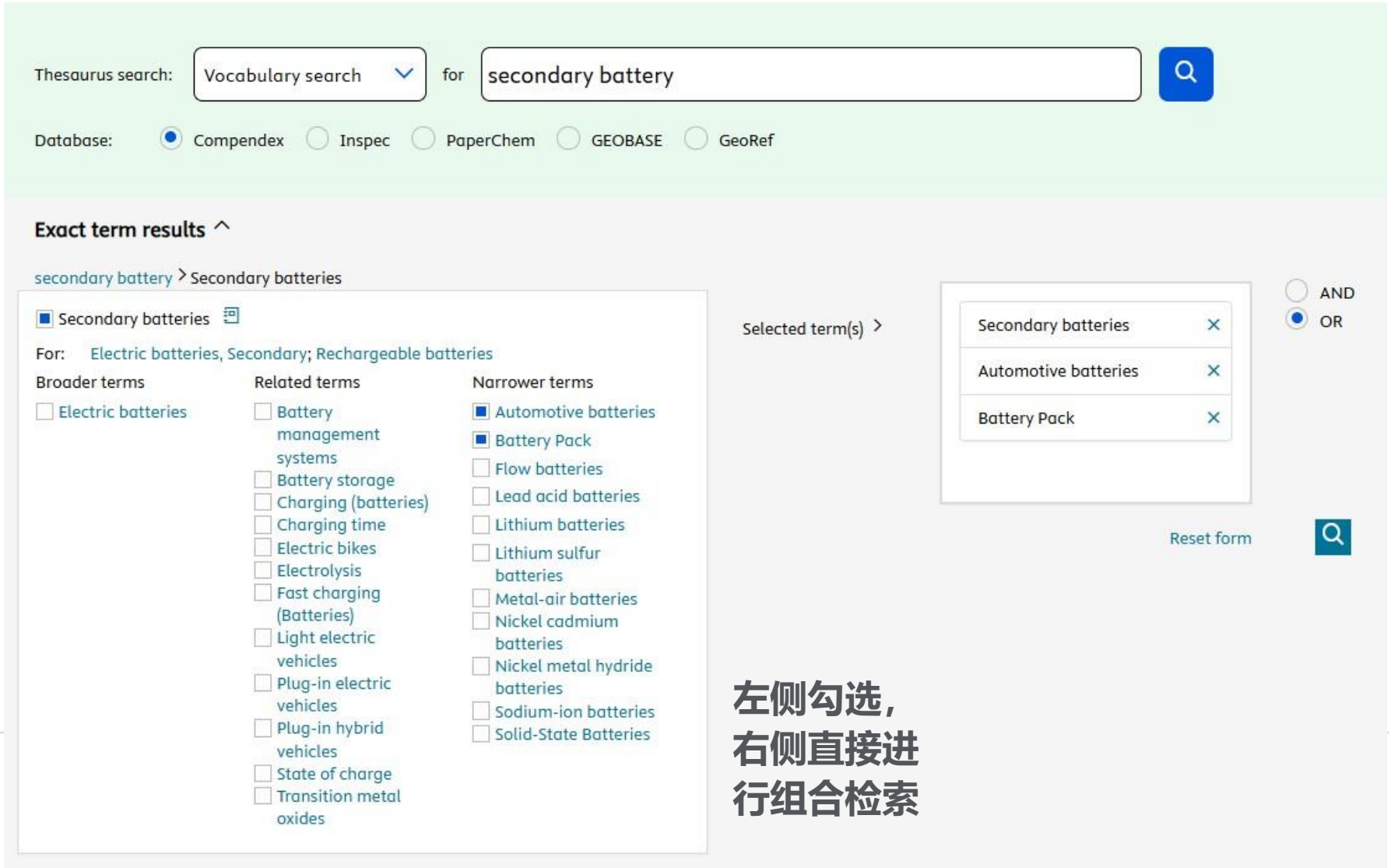




Thesaurus search 叙词搜索

https://www.engineeringvillage.com

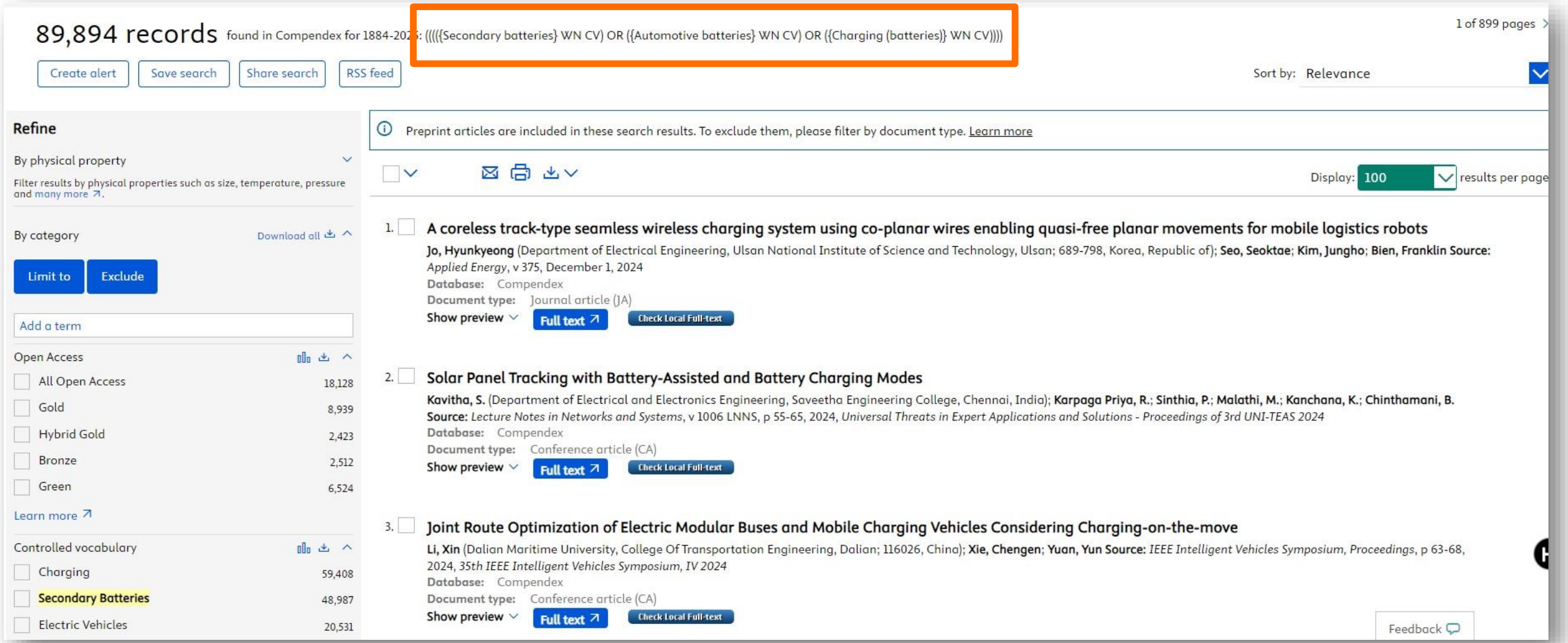
先查词，
再查文章



ELSEVIER

Thesaurus search 叙词搜索

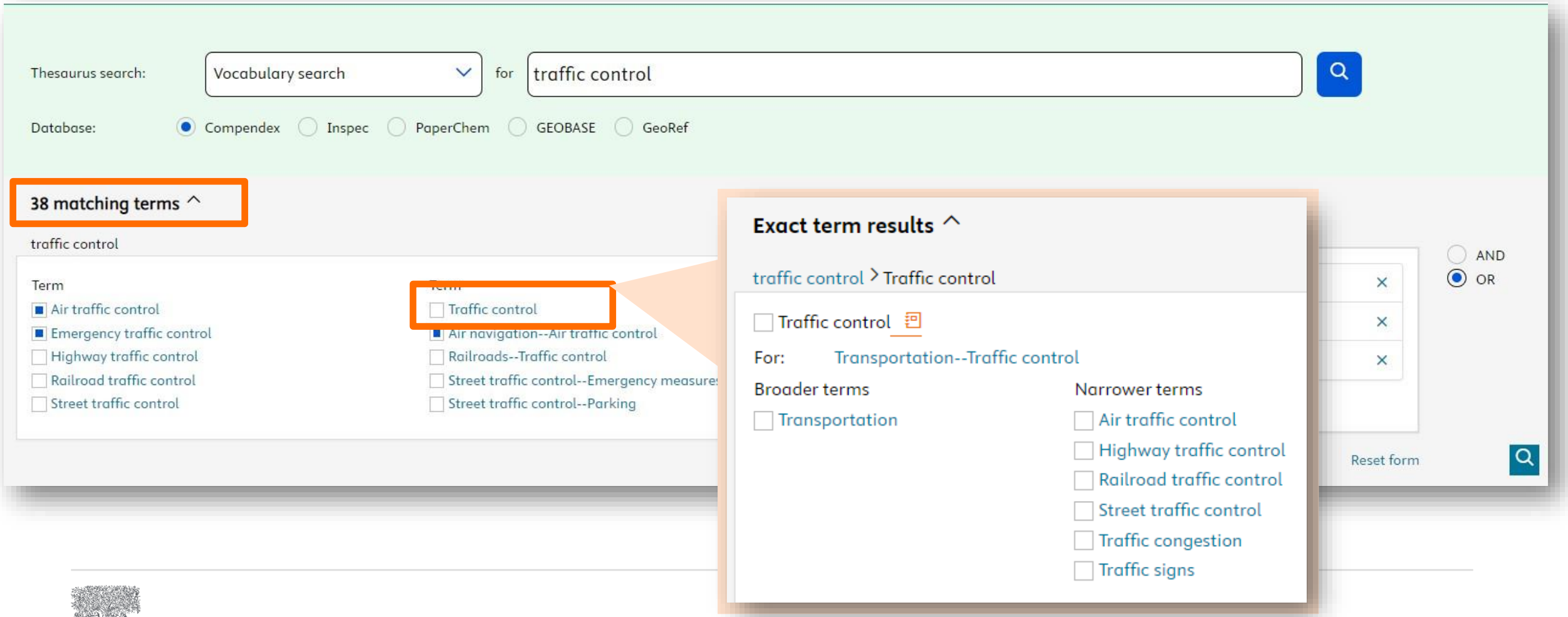
https://www.engineeringvillage.com



ELSEVIER

Thesaurus search 叙词搜索

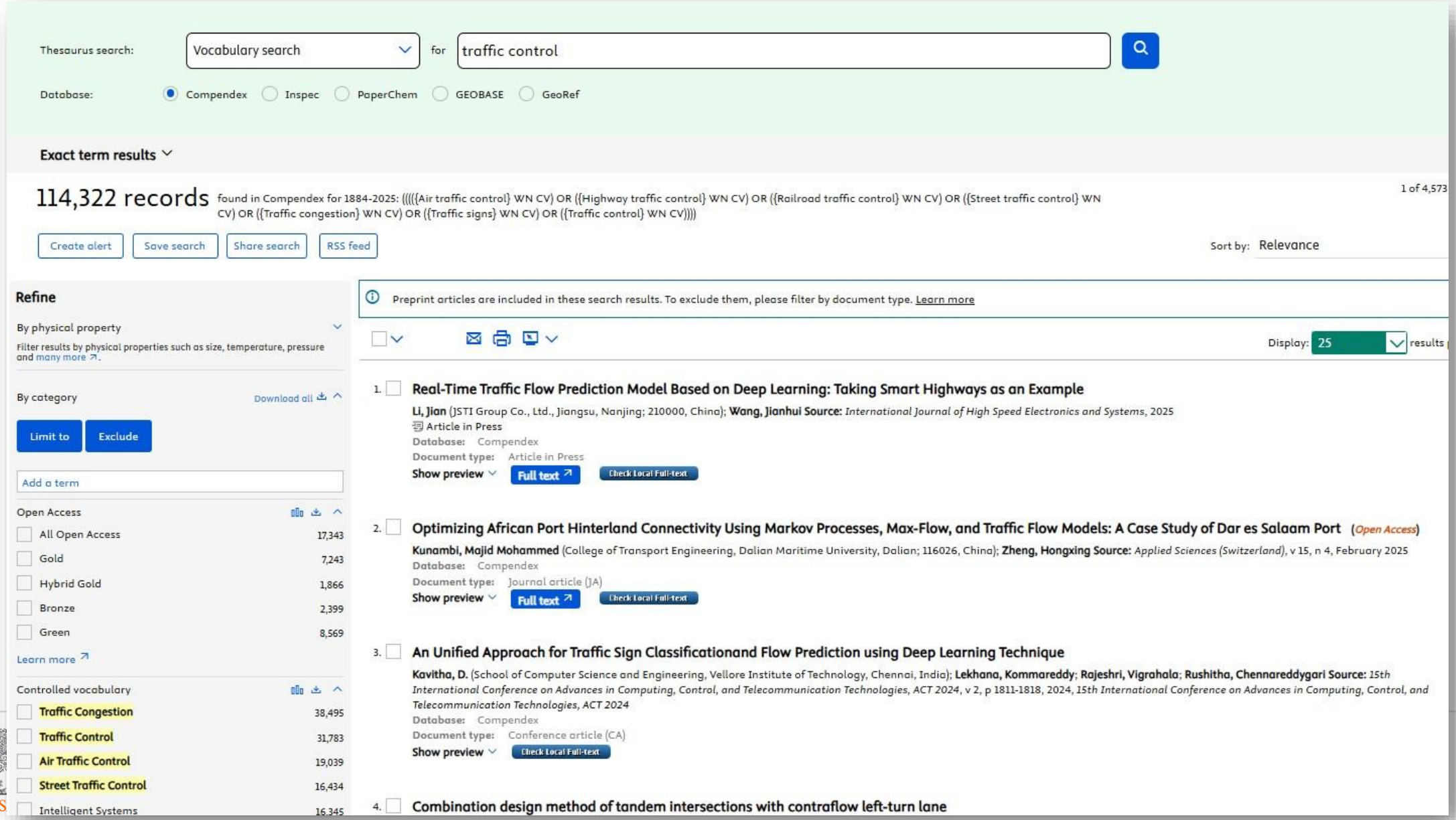
https://www.engineeringvillage.com



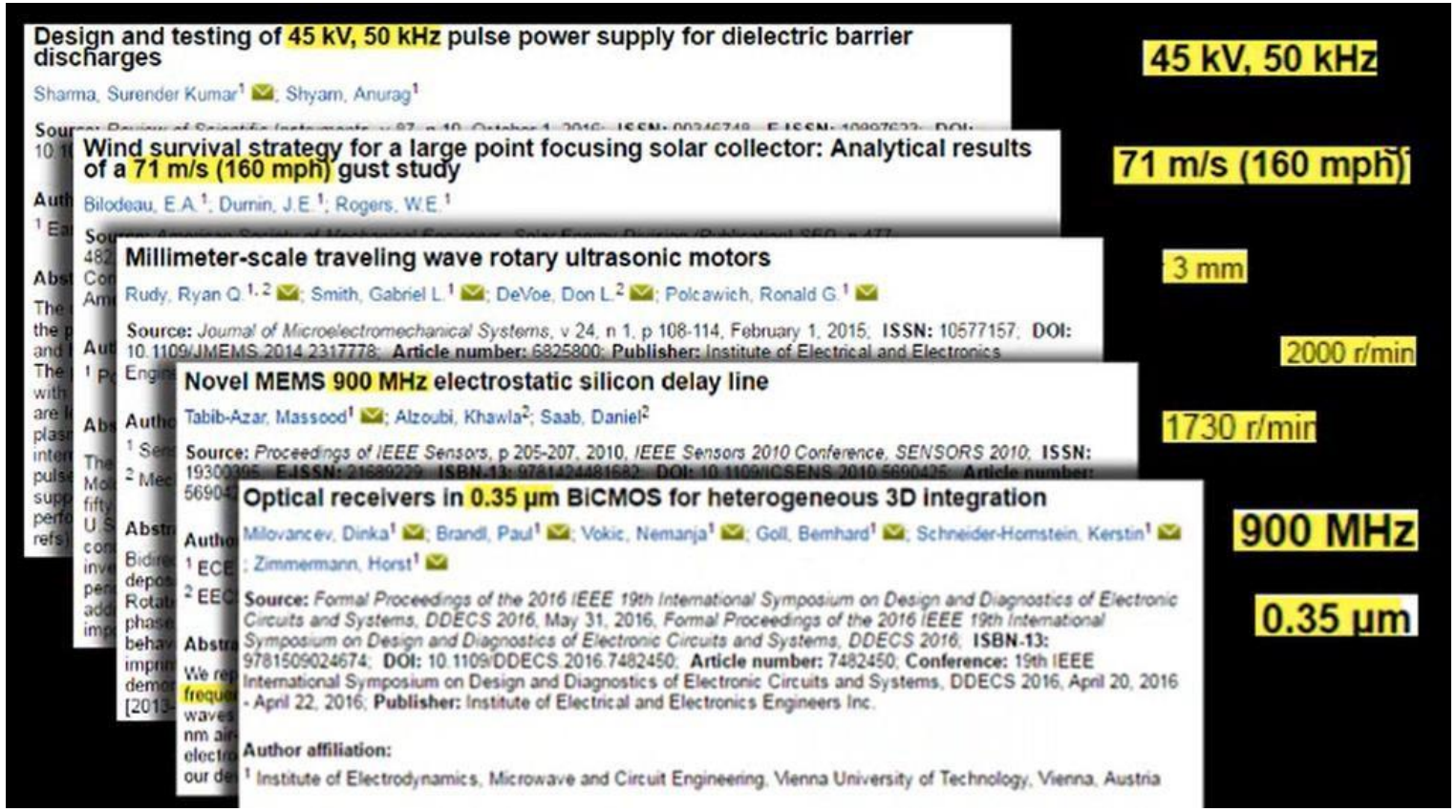
ELSEVIER

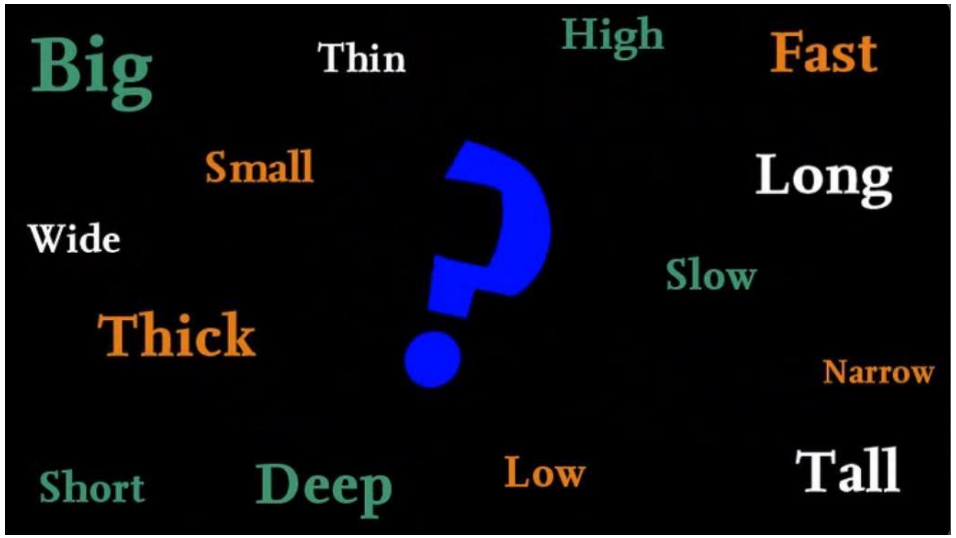
Thesaurus search 叙词搜索

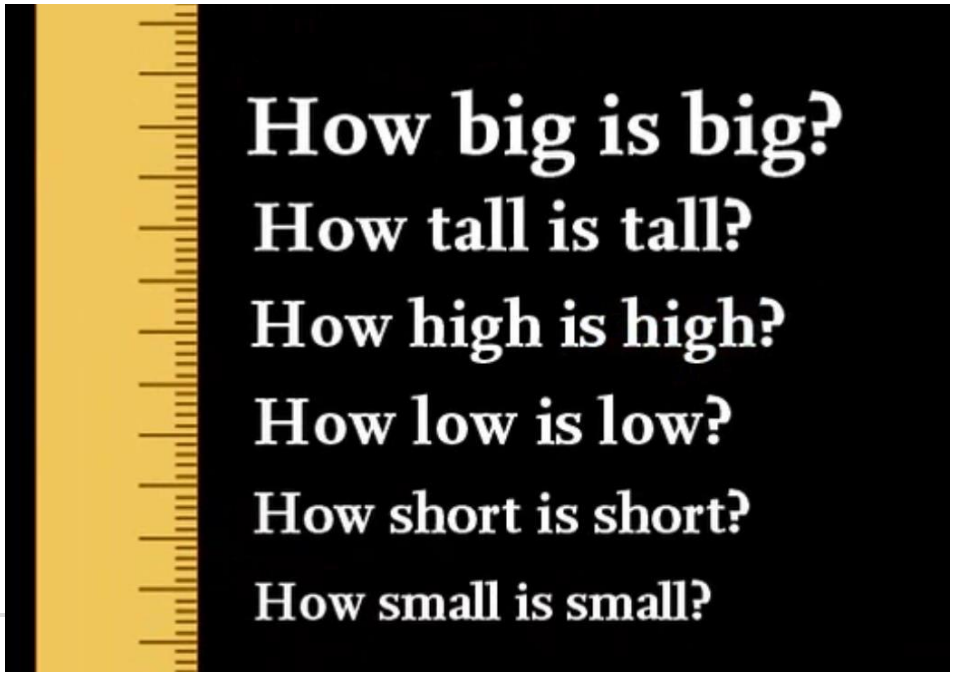
https://www.engineeringvillage.com



Refine by physical property 数值搜索







https://service.elsevier.com/app/tutorials/supporthub/engineering-village/

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/s2	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	m2	Compendex

可度量单位

厘米	cm
英尺	ft
英寸	in
千米	km
*米	m
微米	mum
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)

Create alert | Save search | Share search | RSS feed

Sort by:

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 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

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

Refine

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

Part 6: Thermal resistan ts

l resistance and capacitance n

, N.S. Source: Physical Review E

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

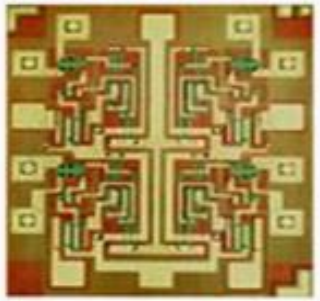
Source: ASMC (Advanced Semiconductor Manufacturing Conference) Proceedings, 2024, 2024 35th Annual SEMI Advanced Semicondu Conference, ASMC 2024

Database: Compendex

Document type: Conference article (CA)

Show preview Full text ↗ Check Local Full-text

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 ×

Create alert | Save search | Share search | RSS feed

Sort by:

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 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); **Schaekers, Marc**; **Everaert, Jean-Luc**; **Horiguchi, Naoto**; **De Meyer, Kristin**; **Collo** *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**

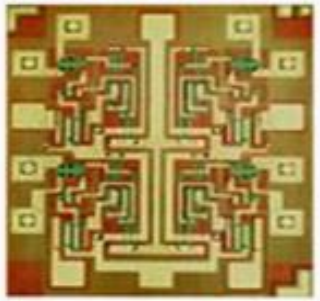
ElKabbash, Mohamed (Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge; MA, United State **Mills, Sivan**; **Bandyopadhyay, Saumil**; **Chen, Xibi**; **Ibrahim, Mohamed I.**; **Han, Ruonan**; **Englund, Dirk** **Source:** *2023 Conference on CLEO 2023, 2023, 2023 Conference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

Database: Compendex

Document type: Conference article (CA)

Show preview Check Local Full-text

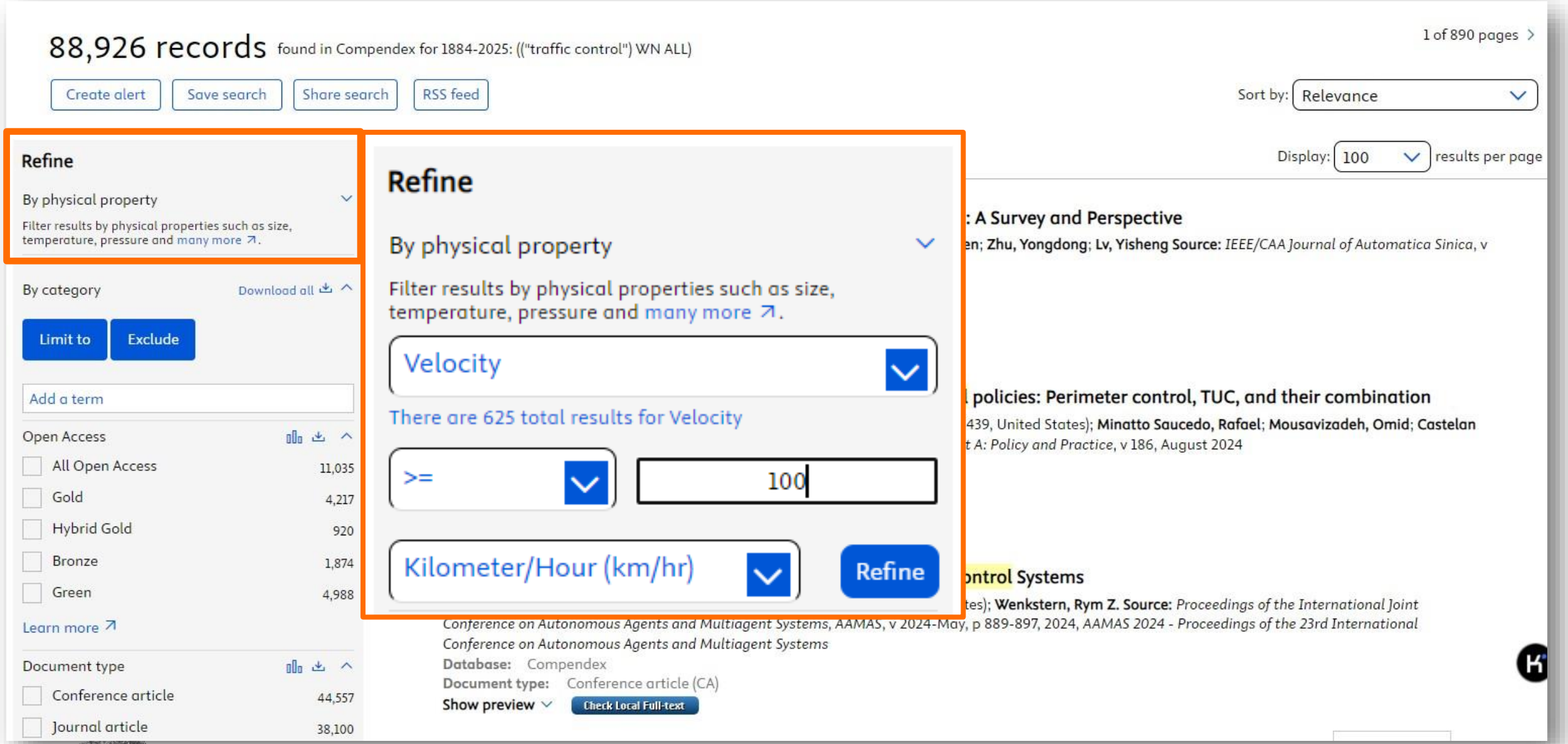
Semiconductor manufacturing processes



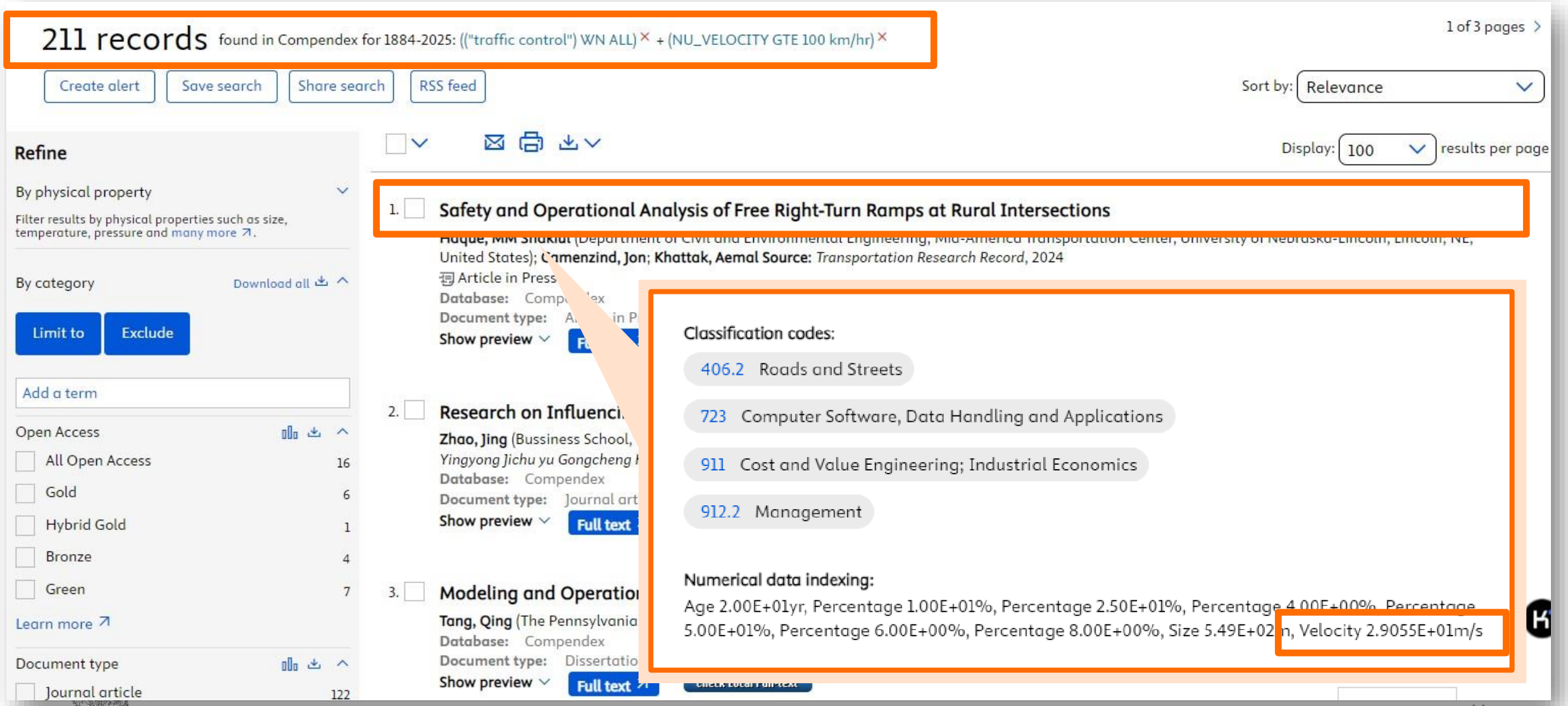
10 µm – 1971
6 µm – 1974
3 µm – 1977
1.5 µm – 1982
1 µm – 1985
800 nm – 1989
600 nm – 1994
350 nm – 1995
250 nm – 1997
180 nm – 1999
130 nm – 2001
90 nm – 2004
65 nm – 2006
45 nm – 2008
32 nm – 2010
22 nm – 2012
14 nm – 2014
10 nm – 2017
7 nm – ~2018
5 nm – ~2020

ELSEVIER

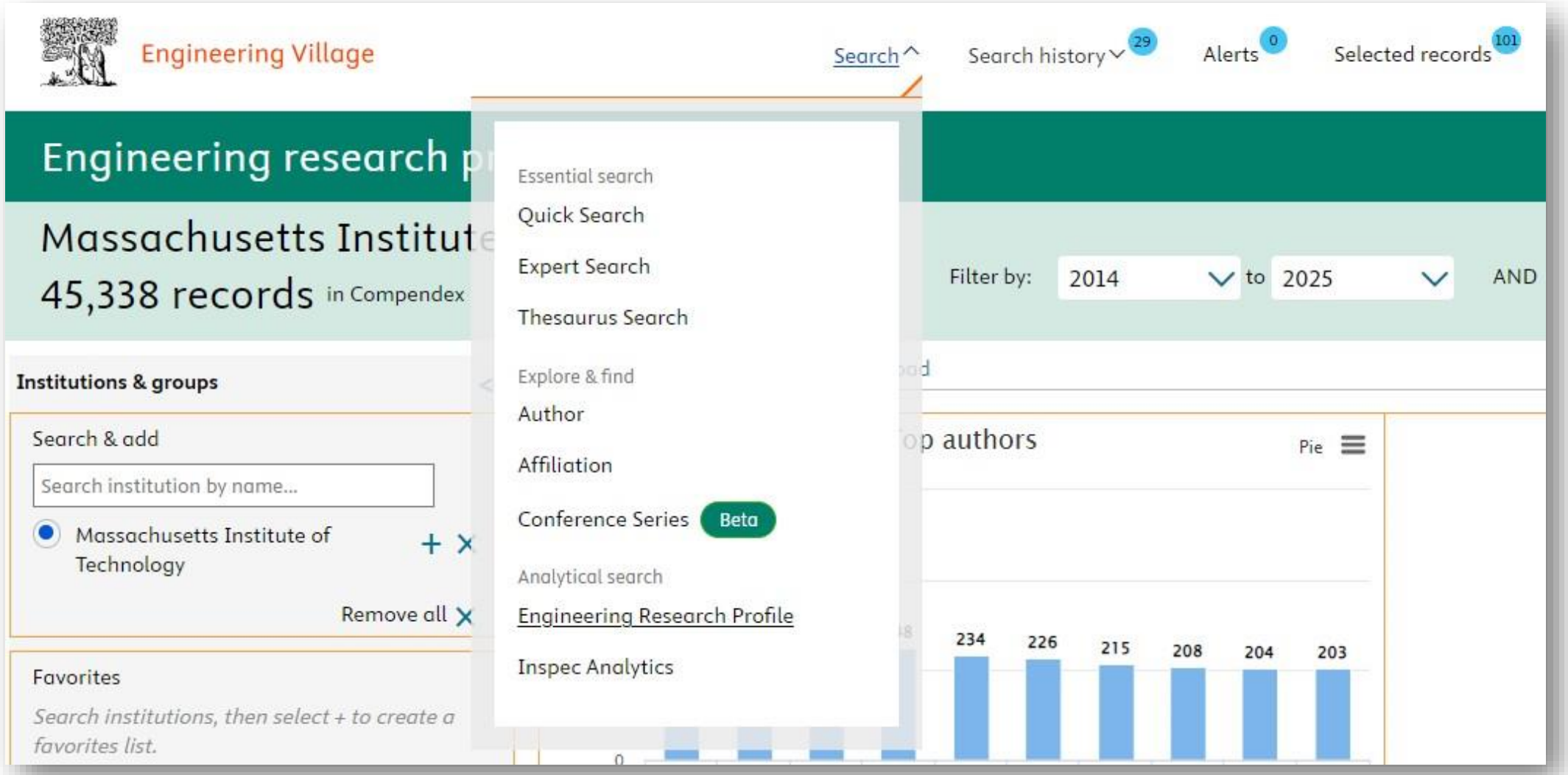
Refine by physical property 数值搜索



Refine by physical property 数值搜索



Engineering research profile 工程报告检索



机构的的整体概况、研究重点，一键可得

ELSEVIER

Engineering research profile 工程报告检索

ELSEVIER

常见问题 & 支持中心

ELSEVIER

Ei Compendex 工程引文索引

https://www.engineeringvillage.com

- Ei 记录 （收录标志）

经过整理的记录：详细格式

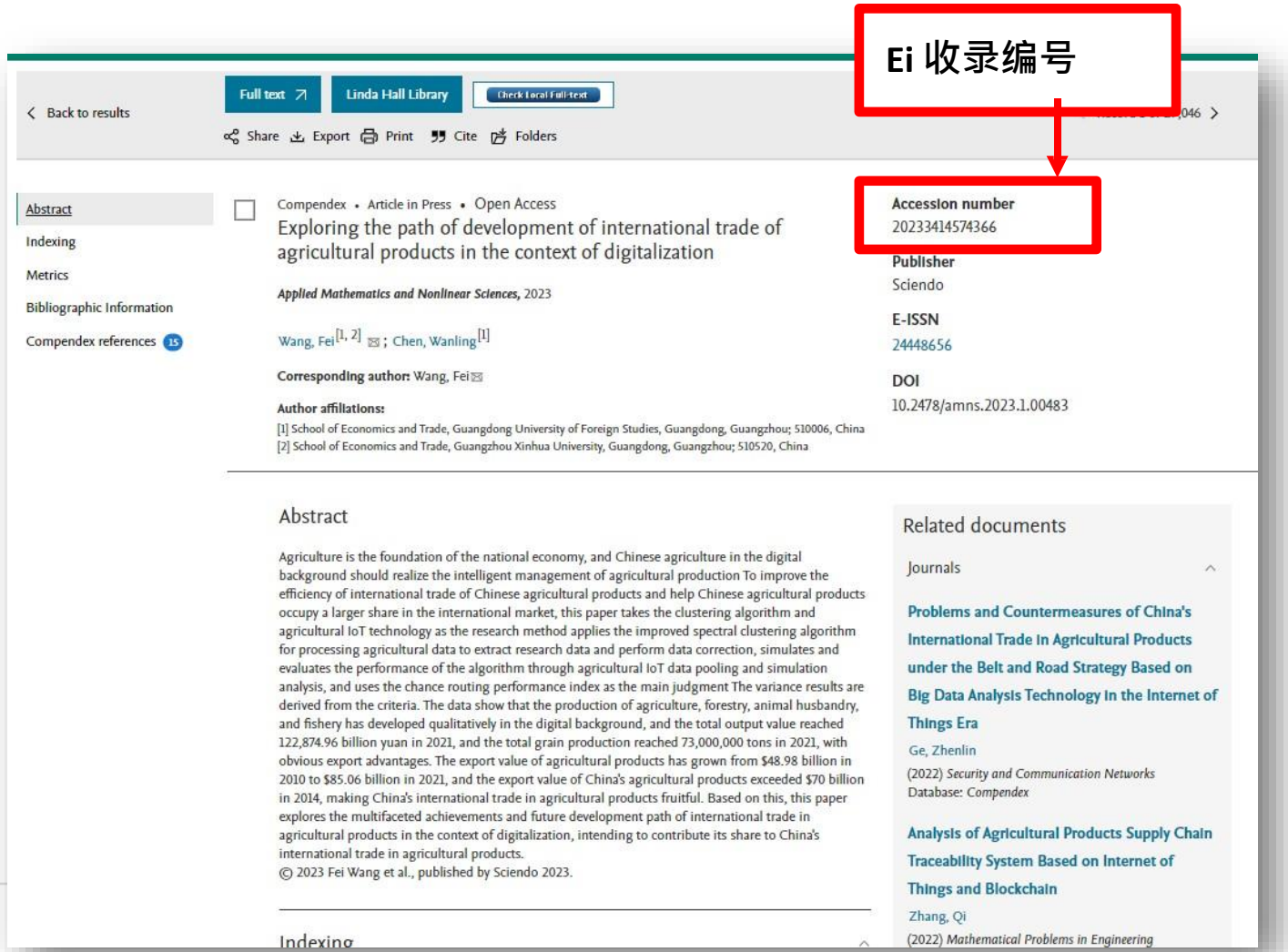
Authors：作者名

Author affiliation：每位作者的所属机构

ISSN：找到更多关于这本期刊的文章

Corresponding Author： 通讯作者

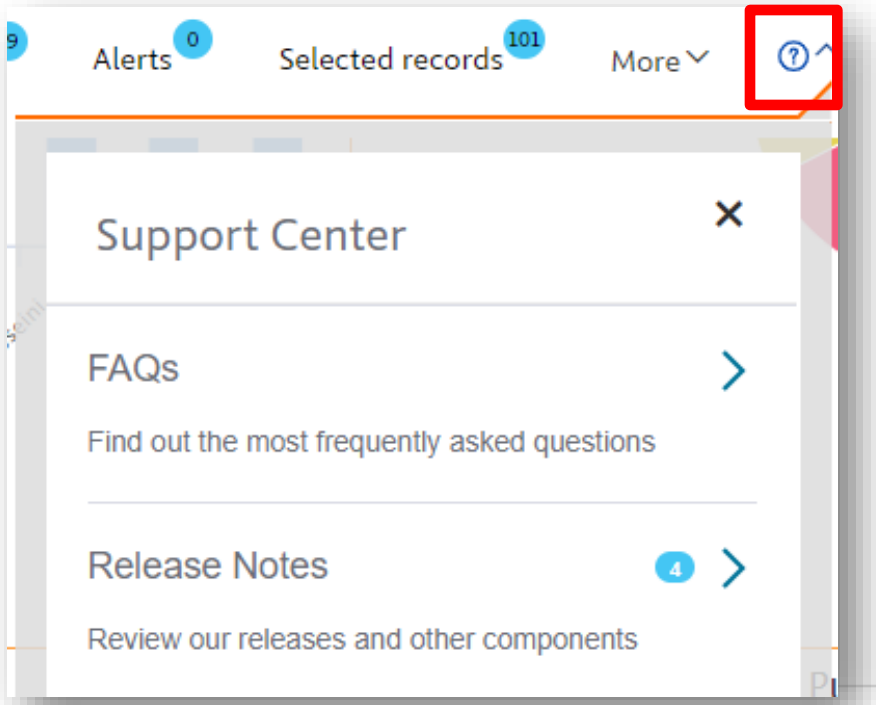
Abstract：文章内容摘要



Ei Compendex 工程引文索引

https://www.engineeringvillage.com

在线支持中心
(点击每页右上角问号进入)



https://cn.service.elsevier.com/app/answers/detail/a_id/27316/c/10545/supporthub/engineering-village/

ELSEVIER

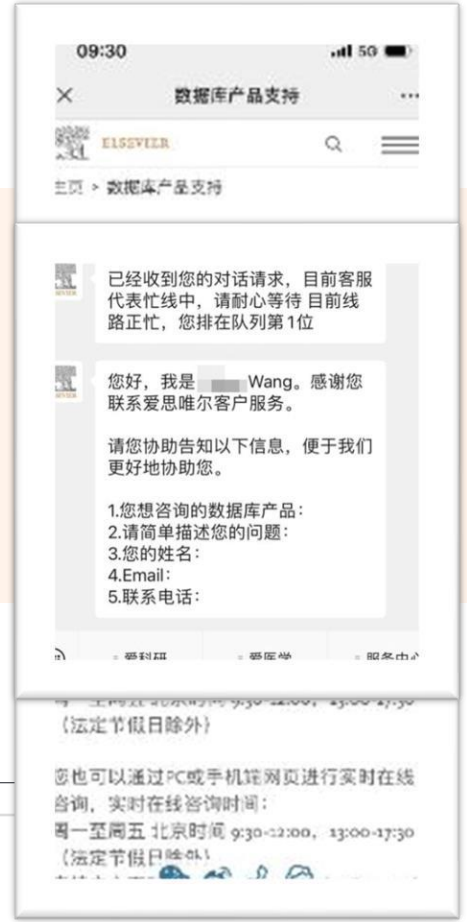
产品访问、内容修正、基本操作等问题

https://www.engineeringvillage.com

- 邮件（支持中文）：support.china@elsevier.com
- 电话（支持中文）：400 842 6973
- 微信（支持中文）：具体如下

开启微信在线咨询的步骤，首先请关注“**爱思唯尔科研医学服务**”公众号：

- 点击最下菜单“服务中心”>“**产品服务**”；
- 弹出对话，点击“**数据库产品支持**”；
- 再次微信**扫码**即可与客服团队在线微信交流，请注意提供如下信息：
  - ❑ 想咨询的数据库产品名称
  - ❑ 描述问题
  - ❑ 姓名-Email-电话



ELSEVIER

谢谢

Engineering Village®

更多信息请访问：
elsevier.com/products/engineering-village