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

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爱思唯尔政府与高校事业部

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ELSEVIER

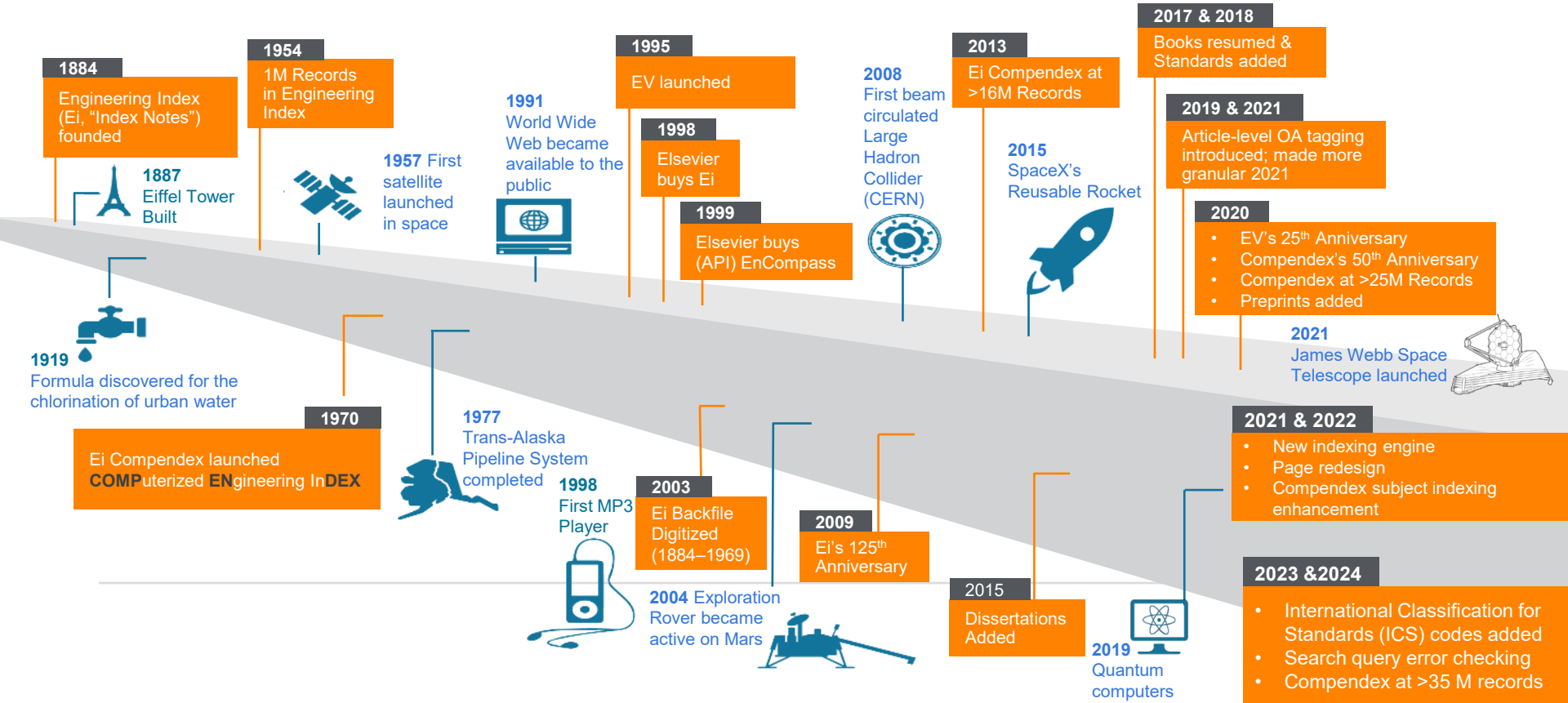
内容目录：

EI数据库简介

Ei 以及 Engineering Village 的里程碑

专注于工程类文献索引的140年

Ei 和 *Engineering Village* 是享有名声的品牌



Engineering Village™

提供了 10 个工程文献和专利数据库的访问权限

- Compendex 和 Ei (Engineering Index) Backfile
- Inspec 和 Inspec Archive - IET（英国工程技术学会）
- GEOBASE
- GeoRef - AGI（美国地质学会）
- Ei Patents Plus
- NTIS：美国国家技术信息服务
- PaperChem
- Chemical Business NewsBase（化工企业新闻库）- CBNB
- Chimica
- Knovel

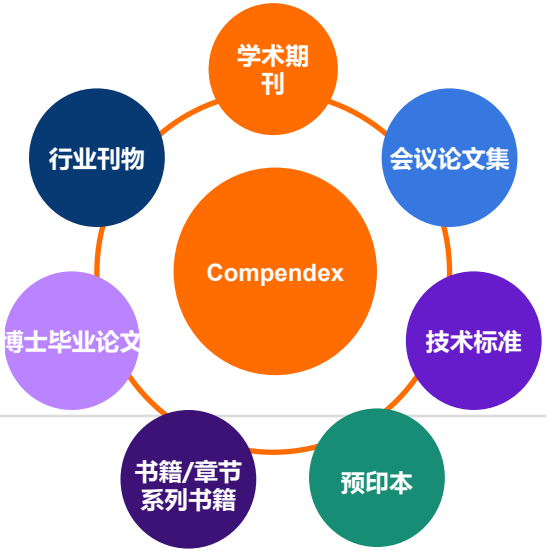
https://www.elsevier.com/products/engineering-village/databases

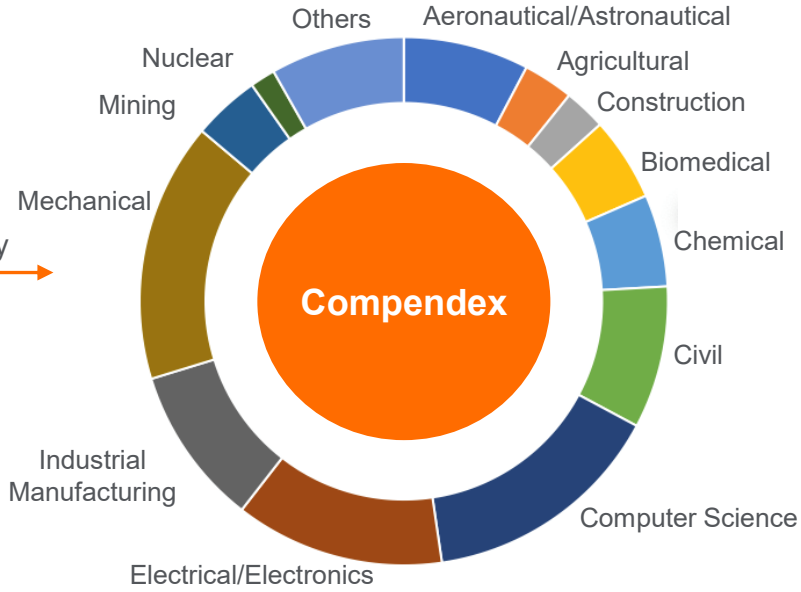
内容概况: Compendex

>37.3M records (1884 - present)
and growing

>1.74M records from Ei Backfile
1884 - 1969

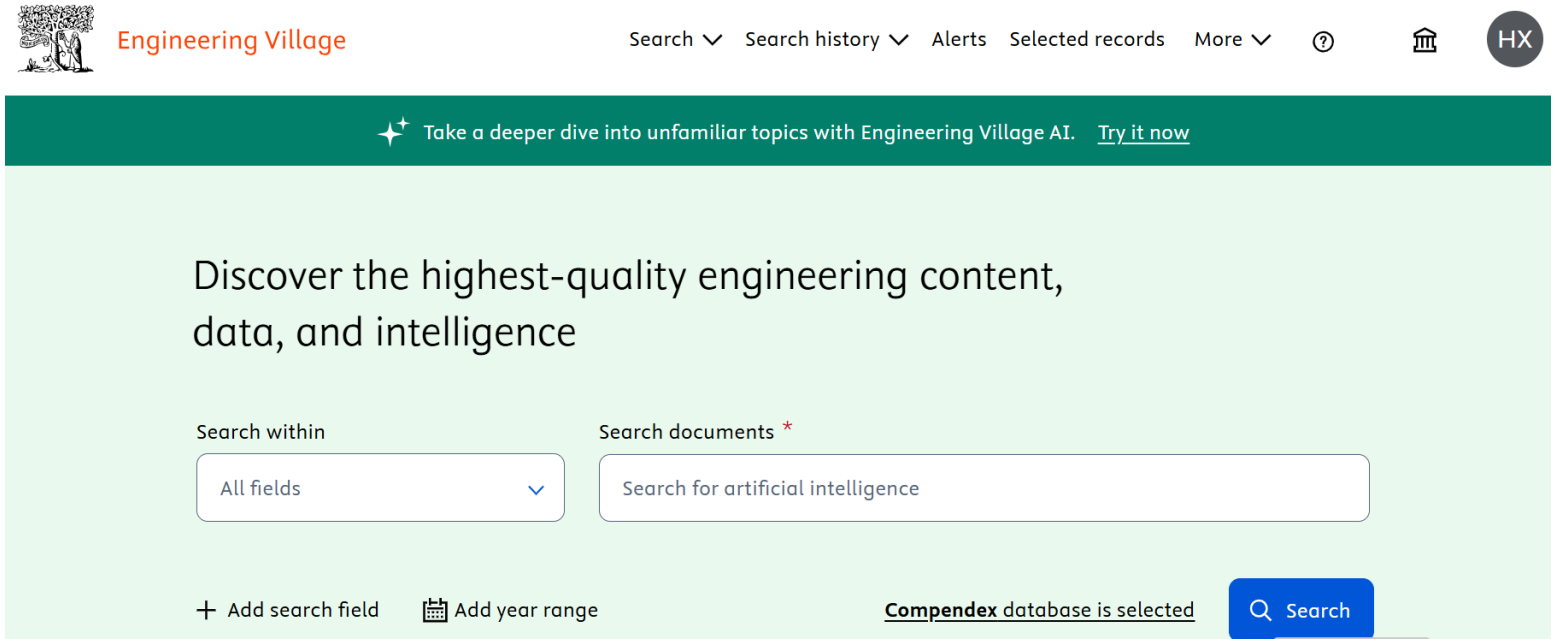
2M+ records added annually
1970 - present



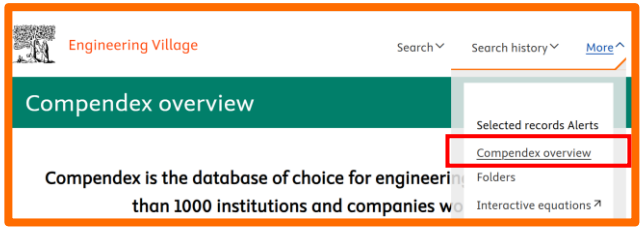


- 通过DOI实现全文链接
- 采用1200多个概念对687个学科领域进行分类
- 860多万条包含数值数据索引的记录（62种物理属性）/化学索引
- 910多万条包含资助数据的记录
- 来自89个国家的2600家出版商

Ei Compendex 登录网址：
http://www.engineeringvillage.com/



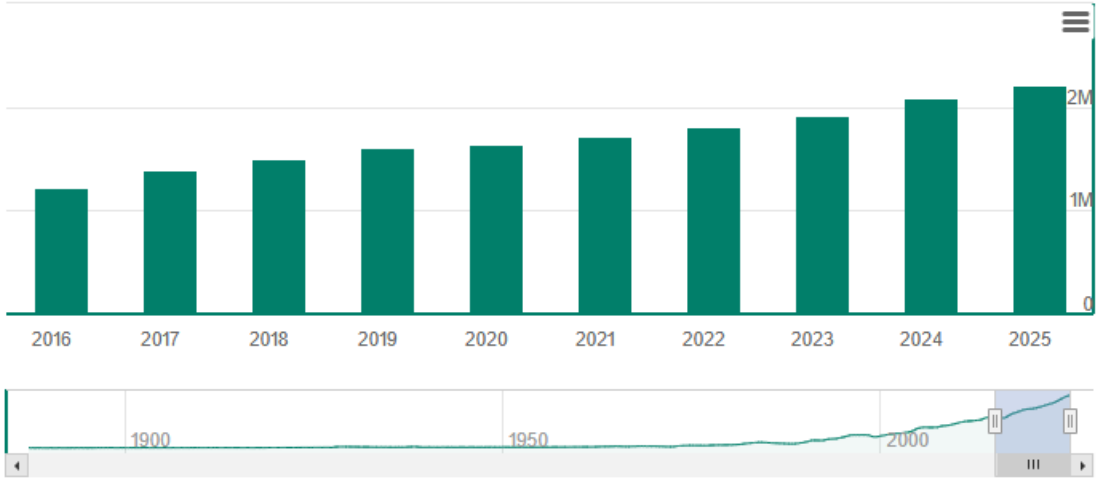
Ei Compendex 资源概览



Publication Year

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

2025	2,217,402	2020	1,632,107
2024	2,083,773	2019	1,602,394
2023	1,916,641	2018	1,498,455
2022	1,805,402	2017	1,389,124
2021	1,714,953		



方法：数据库右上角-More-Compendex Overview

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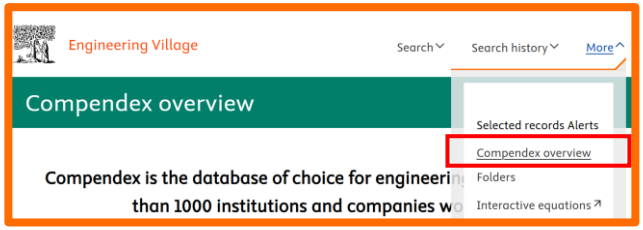
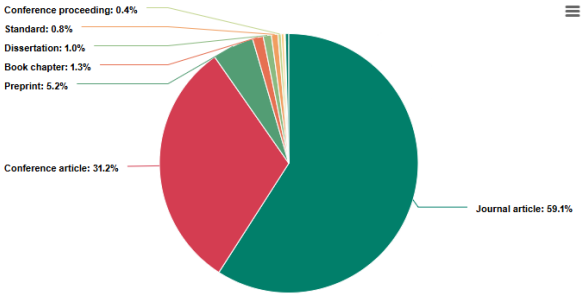
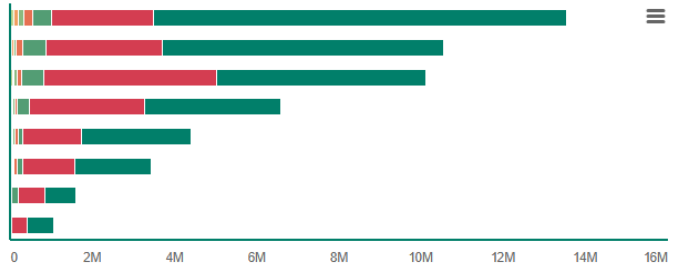
Ei Compendex 资源概览





Subject areas

Chemical Engineering & Materials Science	13,706,710
Physics	10,677,495
Computer & Control Engineering	10,164,987
Electrical & Electronic Engineering	6,666,437
Civil Engineering	4,478,587
Mechanical Engineering	3,465,555
Aerospace	1,641,963
Petroleum Engineering	1,079,726



Compendex数据库学科分布和文献类型概览（2026.04）

方法：数据库右上角-More-Compendex Overview

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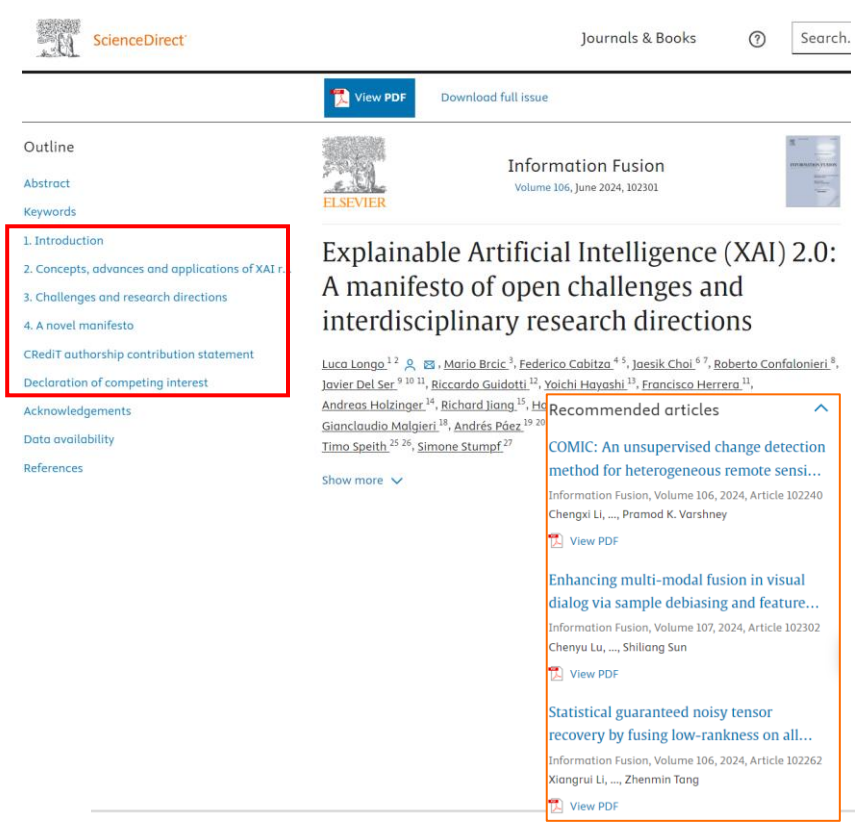
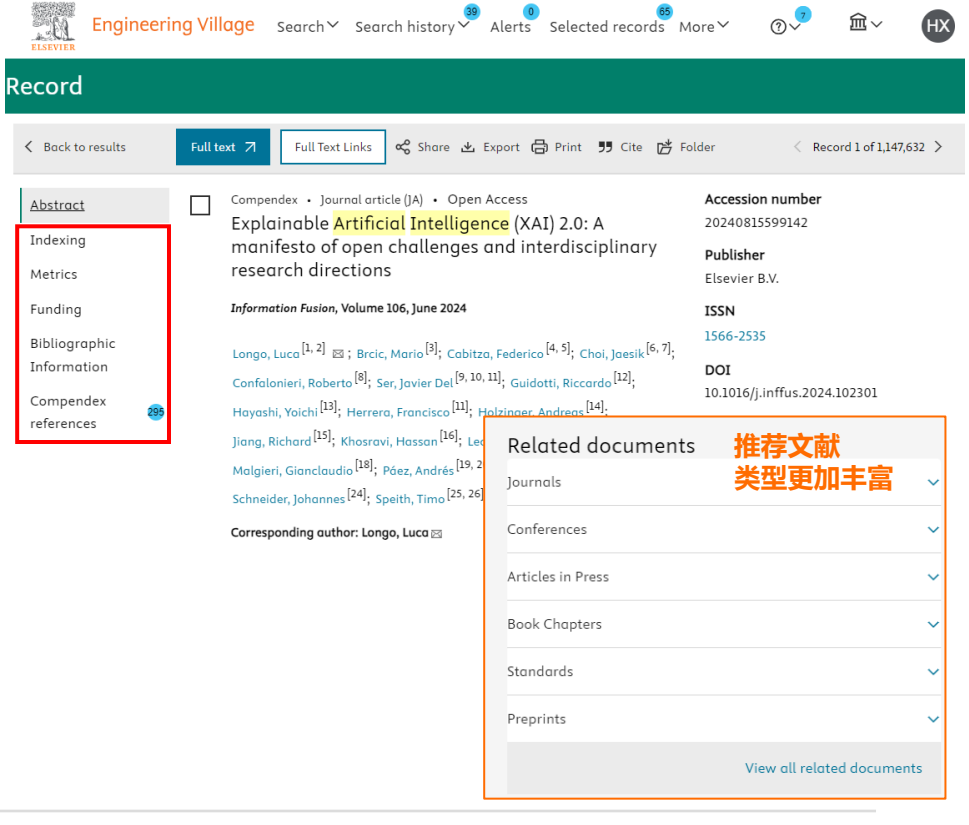
全文数据库 VS 文摘数据库





同一篇文献，在不同数据库中的呈现

哈尔滨理工大学EI收录论文趋势概览

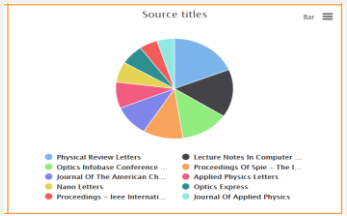
Engineering research Profile

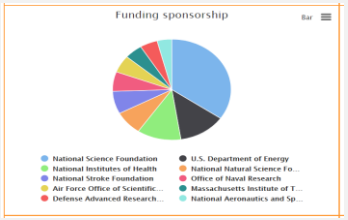
最多的基金源是哪里?

谁在发表？

科研人员在哪里发表论文？

最热的研究主题是什么？





弄清自己机构的工科类研究并追踪论文发表情况: 仅需单个界面

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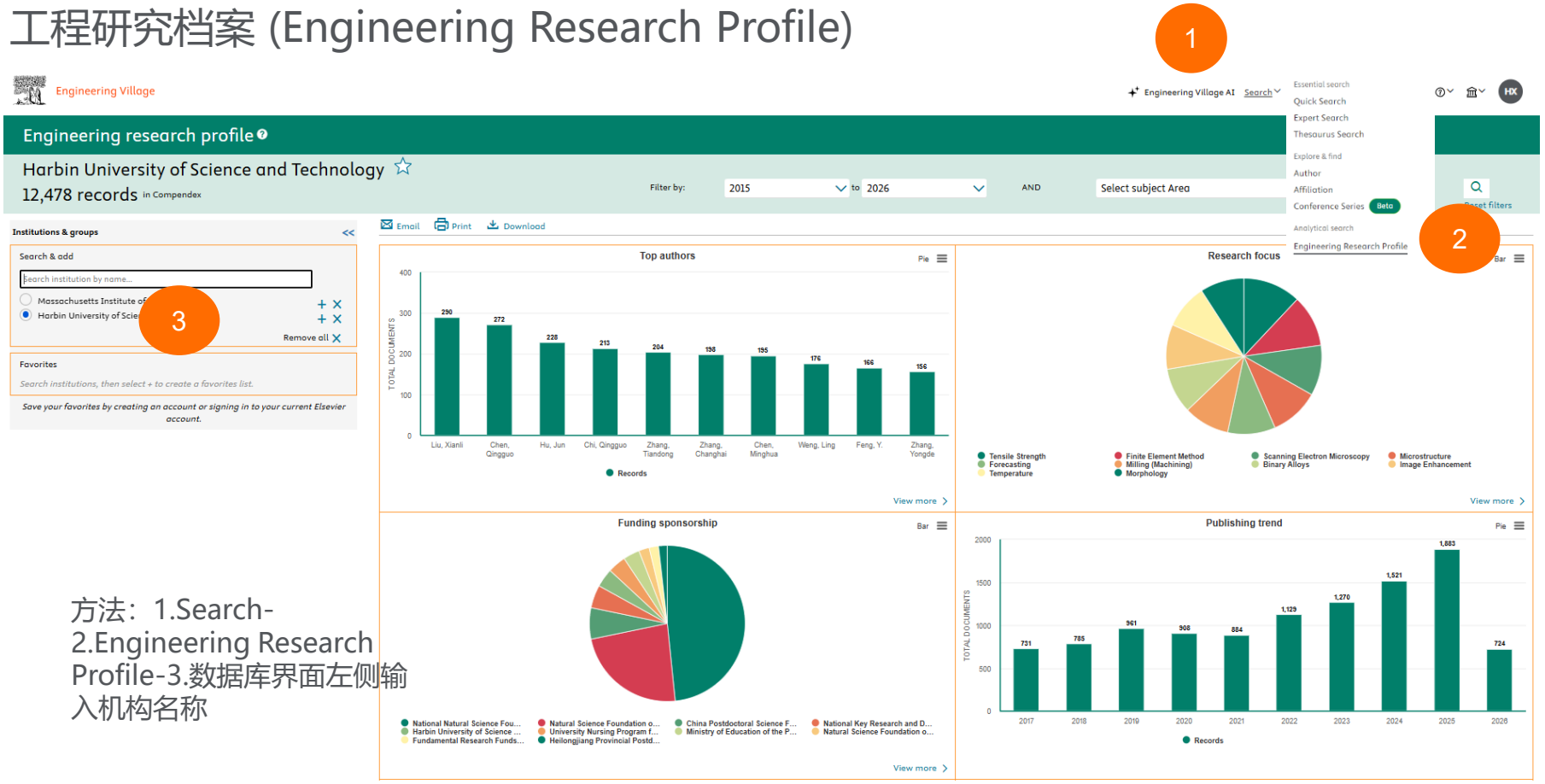
工程研究档案 (Engineering Research Profile)



方法：1.Search-2.Engineering Research Profile-3.数据库界面左侧输入机构名称

弄清自己机构的工科类研究并追踪论文发表情况: 仅需<u>单个界面</u>

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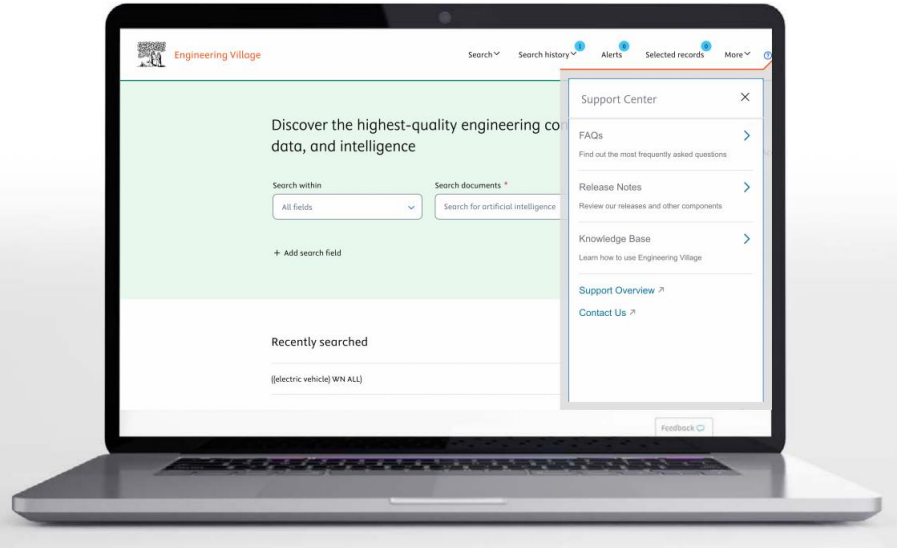
Ei Compendex数据库在工科文献调研中的应用

Ei Compendex – 多样化检索方式



- **快速检索（Quick Search）：**

  通过关键词与字段组合，操作简便，无需专业检索知识。自动推荐受控词，帮助用户高效锁定目标文献，节省研发时间。

- **专家检索（Expert Search）：**

  支持逻辑检索字符串及多种字段代码（如控制词汇、索书号、刊名等），满足专业用户的精准查找需求，大幅提升检索效率。

- **叙词检索（Thesaurus Search）：**

  采用专业规范词，将同一主题下不同表述统一归类，避免因词汇差异导致的漏检、错检。用户可从主题角度精准检索文献，提升查准率，并可灵活扩展或缩小检索范围。

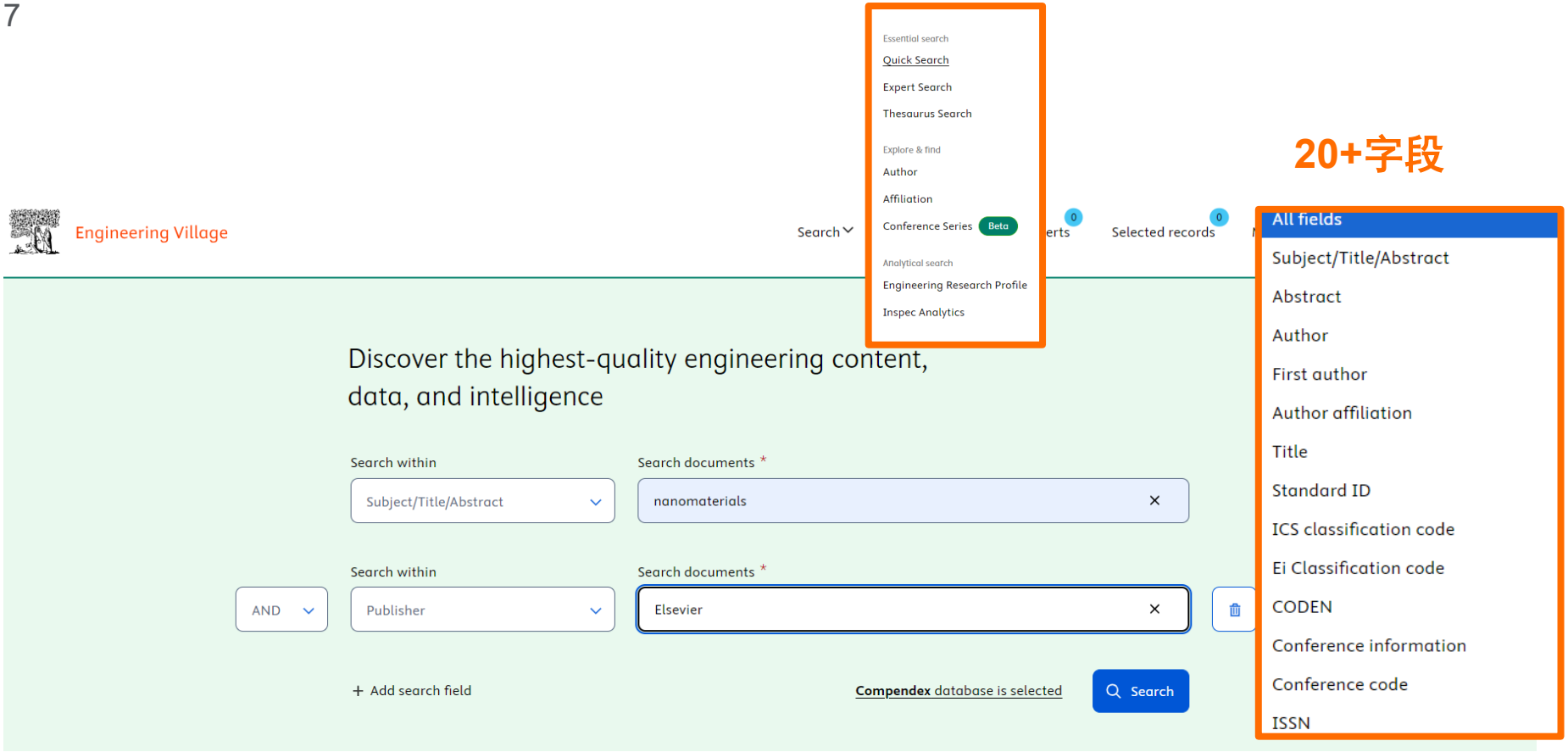
- **机构与作者检索（Affiliation & Author Search）：**

  便捷追踪机构和个人的科研动态，助力合作与学科分析。

- **数值检索（By Physical Property）：**

  支持基于物理和化学属性的专业查找，覆盖62种不同属性，助力技术前沿探索。

Quick Search – 快速检索



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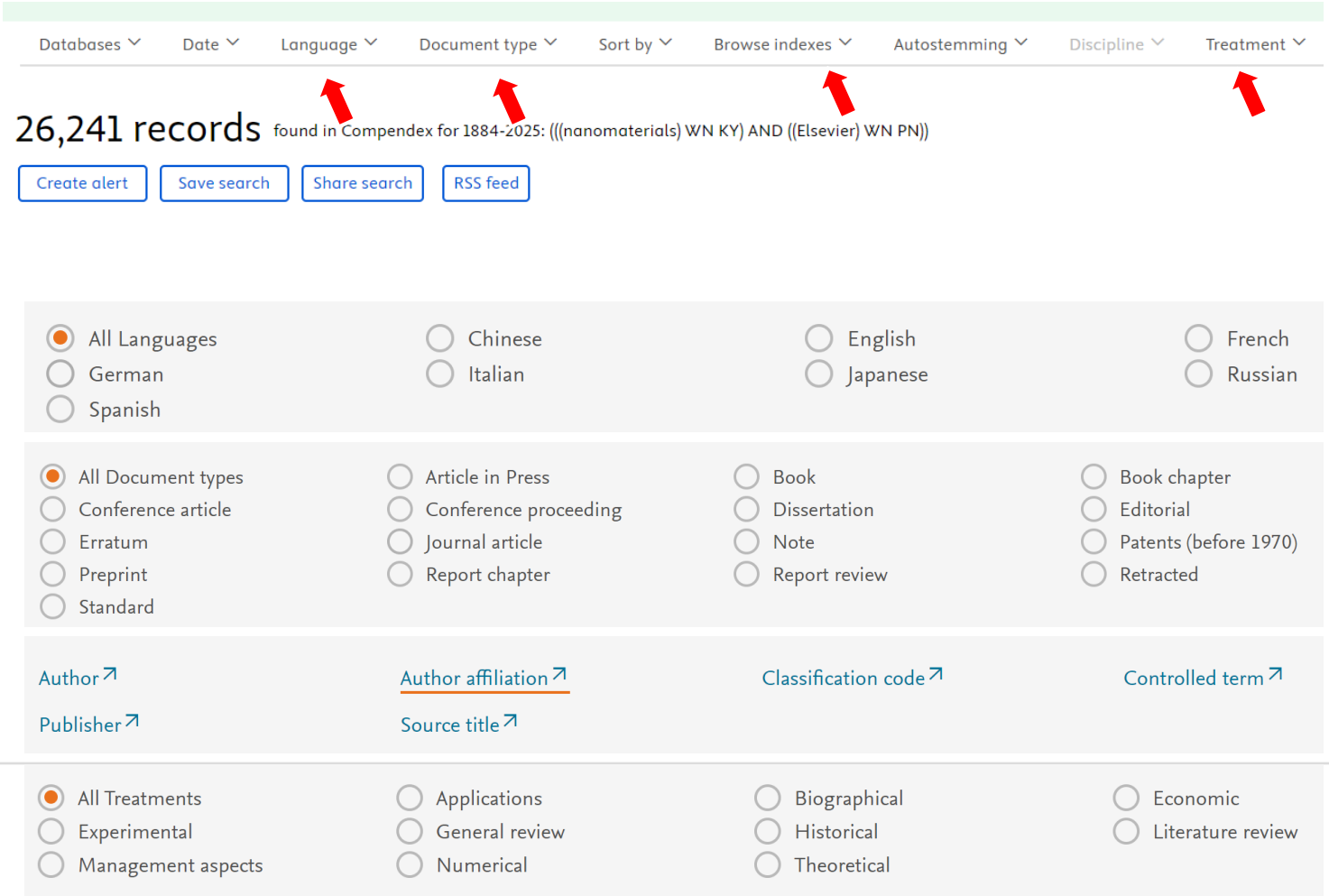
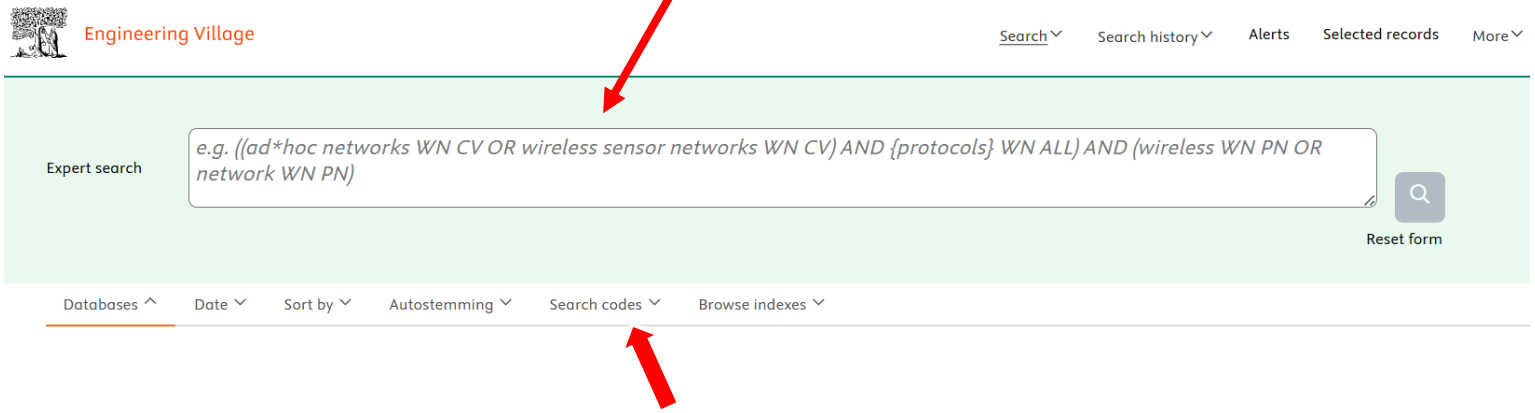

Databases
Date
Language
Document type
Sort by
Browse indexes
Autostemming
Discipline
Treatment
26,241 records found in Compendex for 1884-2025: (((nanomaterials) WN KY) AND ((Elsevier) WN PN))
Create alert
Save search
Share search
RSS feed
All Languages
Chinese
English
French
German
Italian
Japanese
Russian
Spanish
All Document types
Article in Press
Book
Book chapter
Conference article
Conference proceeding
Dissertation
Editorial
Erratum
Journal article
Note
Patents (before 1970)
Preprint
Report chapter
Report review
Retracted
Standard
Author
Author affiliation
Classification code
Controlled term
Publisher
Source title
All Treatments
Applications
Biographical
Economic
Experimental
General review
Historical
Literature review
Management aspects
Numerical
Theoretical

Expert Search – 专家检索

输入检索词汇和检索字段代码



Database		Code = Field		Code = Field	
c	= Compendex	AB	= Abstract (c)	GAG	= Funding sponsor (c)
		ACT	= Open Access type (c)	ICS	= International Classification for Standards (c)
		AN	= Accession number (c)	BN	= ISBN (c)
		AF	= Affiliation/Assignee (c)	SN	= ISSN (c)
		ALL	= All fields (c)	SU	= Issue (c)
		AU	= Author/Inventor (c)	LA	= Language (c)
		FIRSTAU	= First author (c)	NU	= see Numerical Data Codes (c)
		CL	= Classification code (c)	PA	= Patent application date (c)

如何又快又准的找到目标文献?

搜索的基本规则都有哪些？——布尔运算符

Boolean operators（布尔运算符）将遵循下面列出的优先级顺序。

•**NOT**：具有最高优先级。使用此运算符可从搜索结果中排除指定搜索词。

•**AND**：具有第二高优先级。搜索结果包含**所有**指定搜索词。使用此运算符组合搜索词可缩小搜索范围。

•**OR**：具有最低优先级。搜索结果包含**任意**指定搜索词。使用此运算符组合搜索词可扩大搜索范围，或者可允许使用变体拼写。

搜索查询	等效的搜索查询
a AND b OR c	(a AND b) OR c
a OR b AND c	a OR (b AND c)
a AND b NOT c	a AND (b NOT c)
a OR b NOT c	a OR (b NOT c)

https://cn.service.elsevier.com/app/answers/detail/a_id/27300/supporthub/engineering-village/

2
2

搜索的基本规则都有哪些?

通配符 *	取代单词中的任意个（0,1,2...）字母 如transplant* 可以检索到transplant，transplanted，transplanting...
通配符?	取代单词中的1个字母 如wom?n 可以检索到woman，women
W/n PRE/n	两词相隔不超过n个词，词序不定　quick w/3 response 两词相隔不超过n个词，词序一定　quick pre/2 response
“”	宽松短语检索，标点符号、连字符、停用字等会被自动忽略 “heart-attack”
{ }	精确短语检索，所有符号都将被作为检索词进行严格匹配 {c++}

https://cn.service.elsevier.com/app/answers/detail/a_id/27300/supporthub/engineering-village/

如何使用位置限定/NEAR 和 ONEAR 运算符?

- **NEAR** 位置限定运算符用于搜索包含相邻或邻近搜索词（顺序不限）的文献。

- **ONEAR** 命令用于按搜索查询中指定的顺序搜索相互邻近的词。

邻近数规定了搜索查询中两个搜索词之间索引的最大单词数。例如，输入 laser NEAR/4 diode 可搜索出以下结果：

•external cavity diode laser system

•diode-pumped solid-state laser HALNA

•laser diode

•diode laser

•laser ablation-tuneable diode

如果没有指定邻近查询的单词数，系统则假设间隔单词数为四 (4)。

https://service.elsevier.com/app/answers/detail/a_id/25966/supporthub/engineering-village/kw/ONEAR/

案例：在EI库中查计算机层析用于火箭无损检测方面的文献

确定概念：计算机层析，火箭， 无损检测

概念的逻辑表达式：计算机层 and 火箭 and 无损检测

确定英文检索词：

计算机层析 ： Computerized Tomography

火箭：Rocket*、Propellant*

无损检测：Nondestructive examination

检索式：

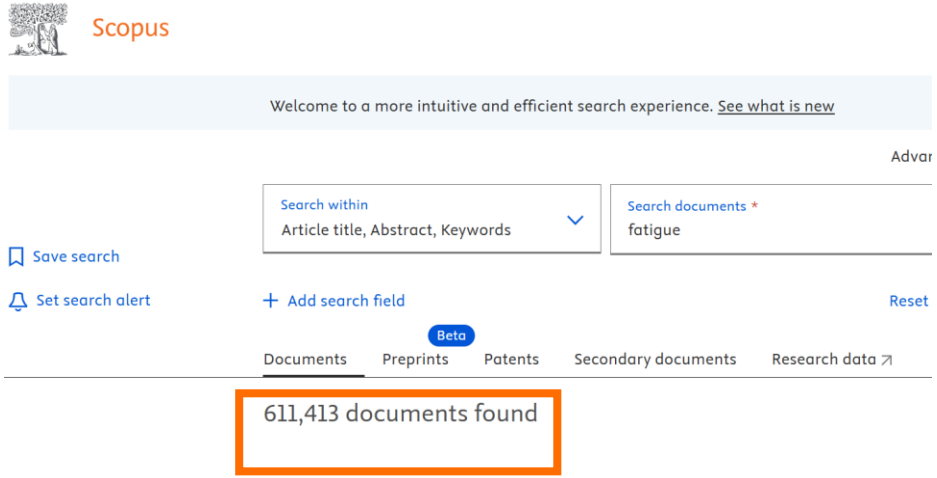
((Computerized Tomography) AND (Rocket* or Propellant*)

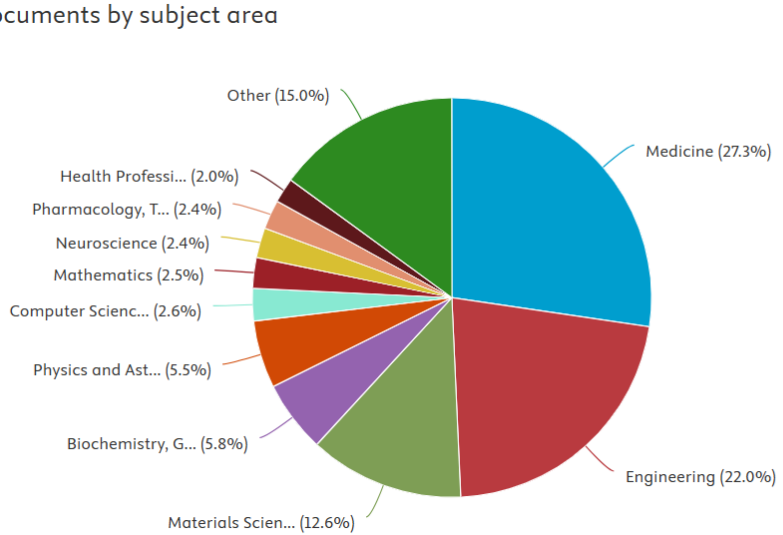
AND (Nondestructive examination)) WN ky

Thesaurus Search – 叙词检索

当研究者无法精准表达英文关键词或当一个词有多个涵义时，怎么办呢?

以“Fatigue”为例，如何准确的找到材料疲劳相关论文?

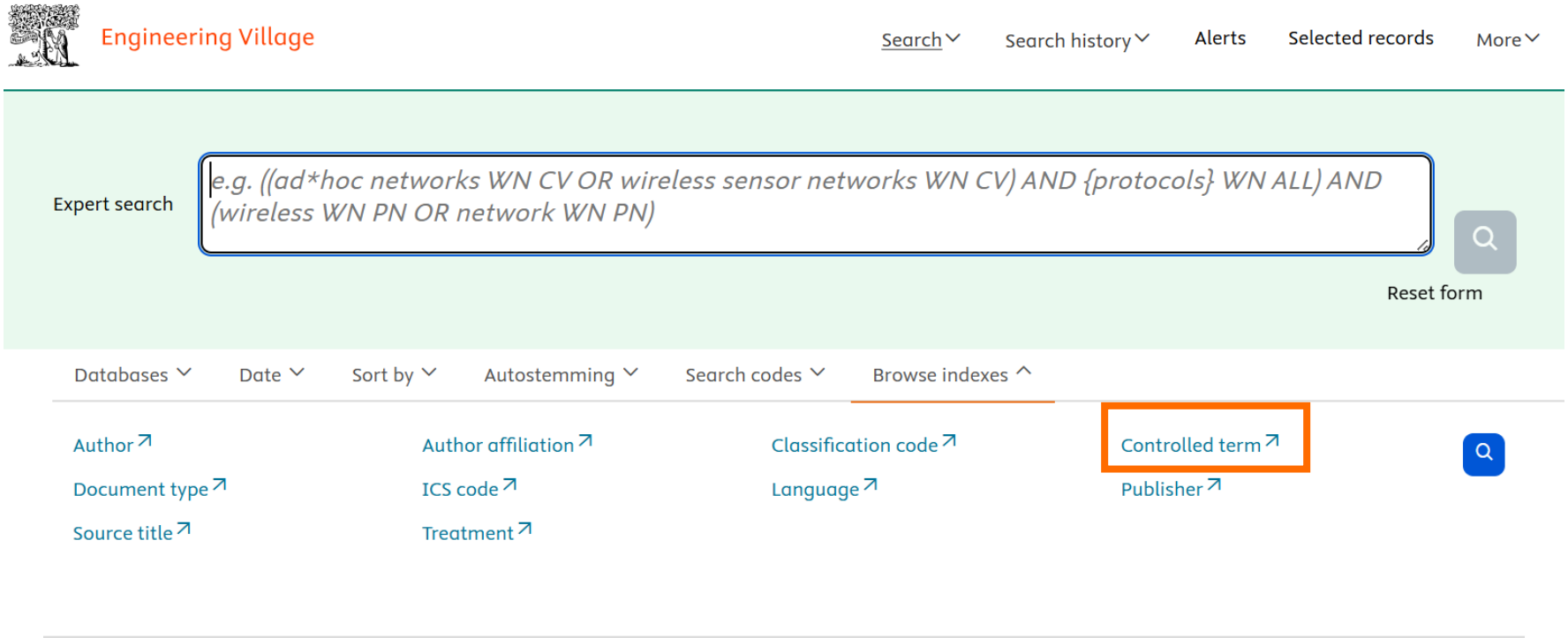




受控词与叙词表是什么?

- 受控词（Controlled Terms）：针对工程相关学科，经由各个学科专家规范化处理的能表达学科主题概念的词，具有精准性、专指性等特征，用以EV平台收录论文主要研究主题的标引及检索。
- 叙词表（Thesaurus）：是由受控词组成的词表，将同一主题不同表述的受控词，按主题归类，避免了同一概念不同表达造成漏检，或一个词语有多种含义导致错检的问题。
- 叙词表一方面可以帮助我们找到规范词，另一方面可以利用该词找到相关的广义概念、狭义概念、相关叙词等进行逻辑组合搜索，从而提高文献检索的查准率。

在Compendex数据库检索结果界面可以查看最新的受控词



找到规范词

Engineering Village

Search | Search history | Alerts | Selected records | More | ?

Thesaurus search: Vocabulary search for fatigue

Database: Compendex Inspec PaperChem GEOBASE GeoRef

43 matching terms

fatigue 1 of 5

Term	Term
☐ Corrosion fatigue	☑ Fatigue of materials
☐ Fatigue crack	☐ Fatigue testing
☐ Fatigue crack propagation	☐ High-cycle fatigue
☐ Fatigue damage	☐ Low-cycle fatigue
☐ Fatigue load	☐ Thermal fatigue

Selected term(s)

Fatigue of materials ×

AND
OR

THESAURUS词表-Fatigue of Materials

广义词

Broader terms

- Wear of materials

相关词

Related terms

- Fretting corrosion
- High temperature testing
- Materials
- Mechanical properties
- Prestressing
- Shear strength
- Shear stress
- Spalling
- Stress corrosion cracking
- Tensile properties

狭义词

Narrower terms

- Corrosion fatigue
- Fatigue crack propagation
- Fatigue damage
- Fatigue load
- Fatigue testing
- High-cycle fatigue
- Low-cycle fatigue
- Thermal fatigue

- 叙词表将材料疲劳标准化为受控词“Fatigue of Materials”，避免因自由词（如”fatigue failure“,” cyclic load failure“）拼写或表达差异导致的漏检。
- 通过叙词表的层级关系（如“材料疲劳”的上位词“材料失效”或下位词“热疲劳”），用户可动态调整检索范围。
- 叙词表会显示相关概念（如“腐蚀” “应力”），帮助用户发现交叉领域文献，例如疲劳与腐蚀的协同效应研究

叙词检索Thesaurus Search：迅速高效了解领域

Broader terms

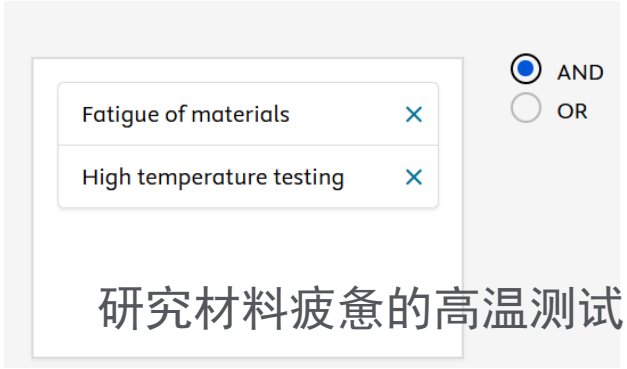
- Wear of materials

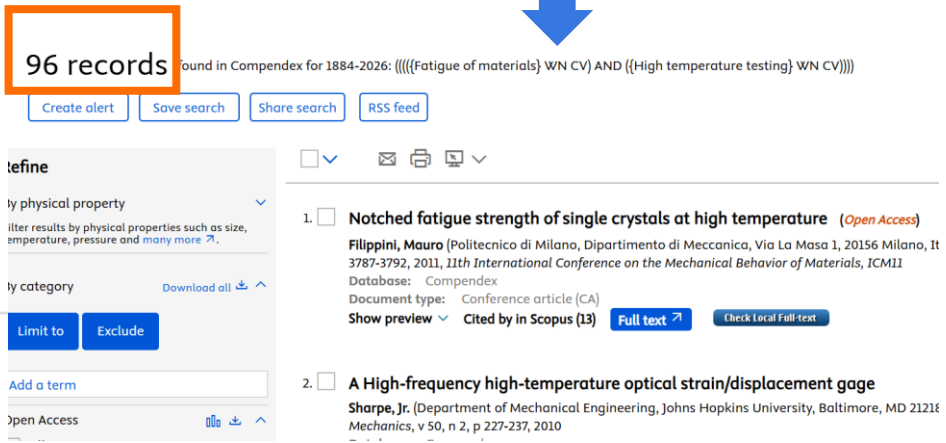
Related terms

- Fretting corrosion
- High temperature testing
- Materials
- Mechanical properties
- Prestressing
- Shear strength
- Shear stress
- Spalling
- Stress corrosion cracking
- Tensile properties

Narrower terms

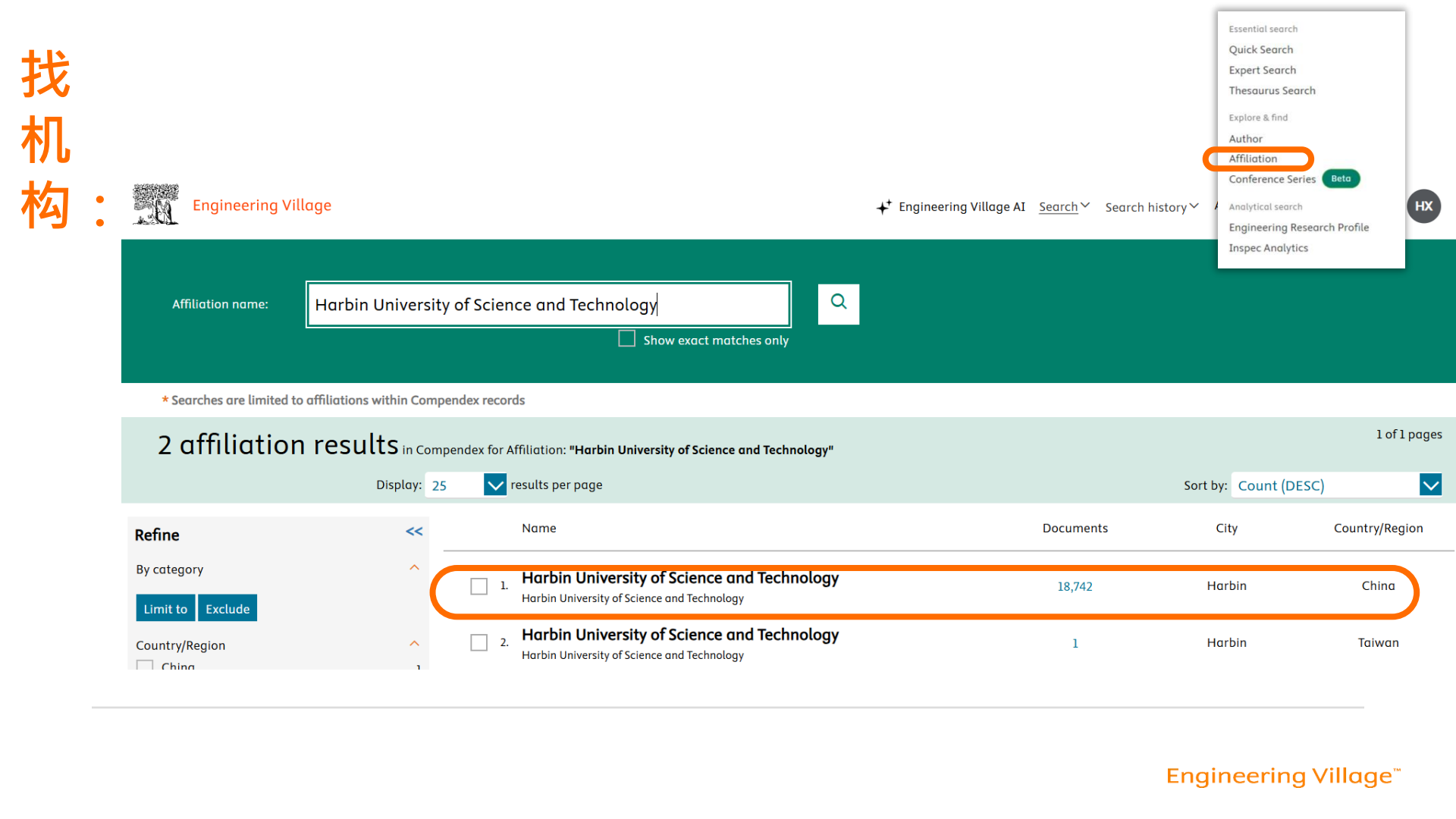
- Corrosion fatigue
- Fatigue crack propagation
- Fatigue damage
- Fatigue load
- Fatigue testing
- High-cycle fatigue
- Low-cycle fatigue
- Thermal fatigue





1.受控词是各个学科使用的学术规范词，叙词表是一个受控词汇表；
2.使用叙词表检索的作用是帮助找到规范词，以及与规范词相关的、更广义、更狭义的受控词，再通过多个规范词的逻辑组合更精准查找文献；

找机构：


Essential search
Quick Search
Expert Search
Thesaurus Search
Explore & find
Author
Affiliation
Conference Series
Beta
Analytical search
Engineering Research Profile
Inspec Analytics
Engineering Village
Engineering Village AI
Search
Search history
HX
Affiliation name:
Harbin University of Science and Technology
Show exact matches only
* Searches are limited to affiliations within Compendex records
2 affiliation results in Compendex for Affiliation: "Harbin University of Science and Technology"
1 of 1 pages
Display: 25 results per page
Sort by: Count (DESC)
Refine
By category
Limit to
Exclude
Country/Region
China
Name
Documents
City
Country/Region
1. Harbin University of Science and Technology
Harbin University of Science and Technology
18,742
Harbin
China
2. Harbin University of Science and Technology
Harbin University of Science and Technology
1
Harbin
Taiwan

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1. **Recent Advances in Regulation Strategy and Catalytic Mechanism of Bi-Based Catalysts for CO2 Reduction Reaction**
Liu, Jianglong (College of Science, China University of Petroleum (Beijing), Beijing; 102249, China); **Liu, Yunpeng**; **Zhao, Shunzheng**; **Chen, Baotong**; **Mo, Guang**; **Chen, Zhongjun**; **Wei, Yuechang**; **Wu, Zhonghua** **Source:** *Nano-Micro Letters*, v 18, n 1, December 2026
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2. **Natural fracture connectivity governs stimulation efficiency and heat recovery in multilateral-well enhanced geothermal systems**
Zhang, Xu (School of Energy Resources, China University of Geosciences (Beijing), Beijing, China); **Huang, Zhongwei**; **Zhou, Xiaoxia**; **Xu, Zhengming**; **Wang, Tianyu**; **Wu, Xiaoguang**; **Li, Gensheng** **Source:** *Fuel*, v 406, February 15, 2026
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3. **Ash fusion and kinetic characteristics during co-gasification of petroleum coke and coal liquefaction residue**
Li, Jiazhou (State Key Laboratory of Heavy Oil Processing, China University of Petroleum-Beijing, Beijing; 102249, China); **Li, Zhenghao**; **Zhang, Yuming**; **Wang, Dongying**; **Chen, Xiaoping**; **Fang, Zi'ao**; **Zhang, Wei**; **Chen, Zhewen** **Source:** *Fuel*, v 406, February 15, 2026
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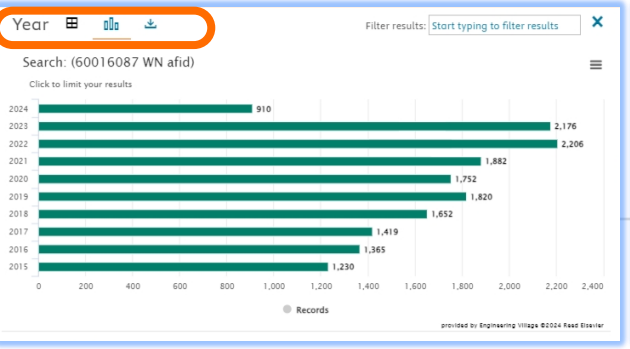

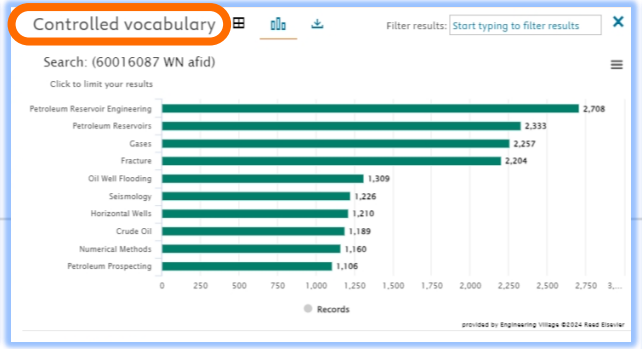

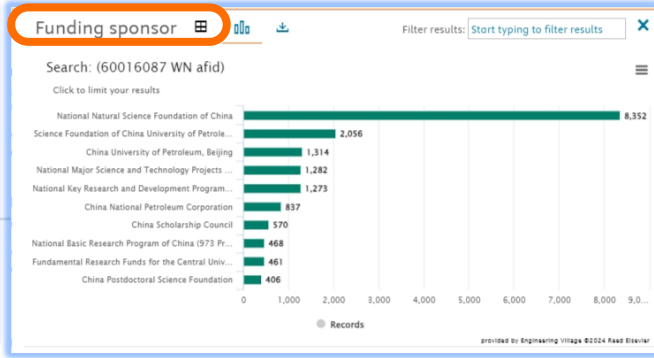

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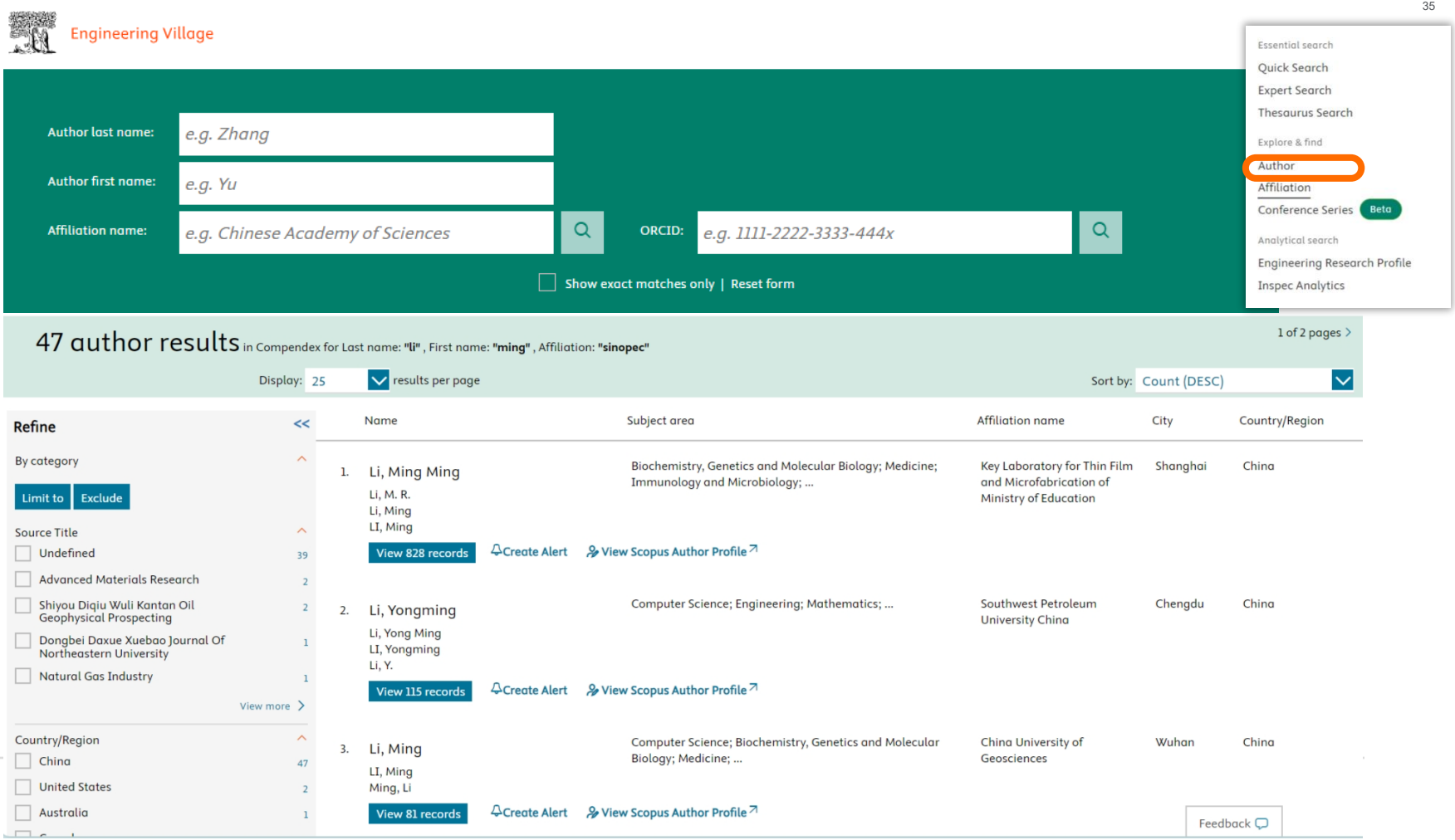
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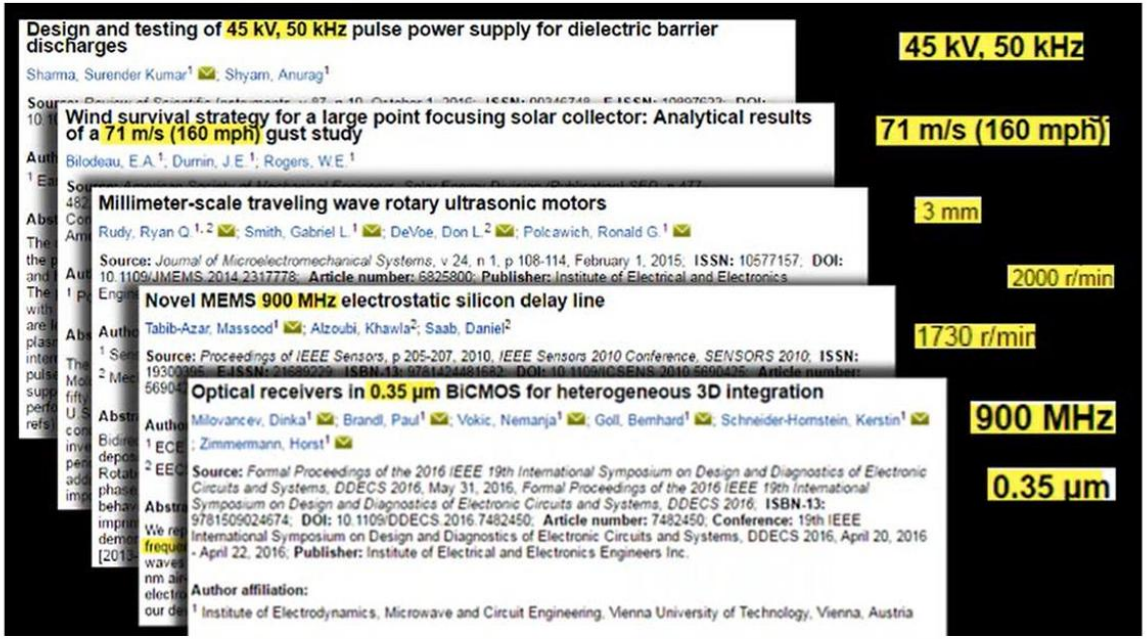

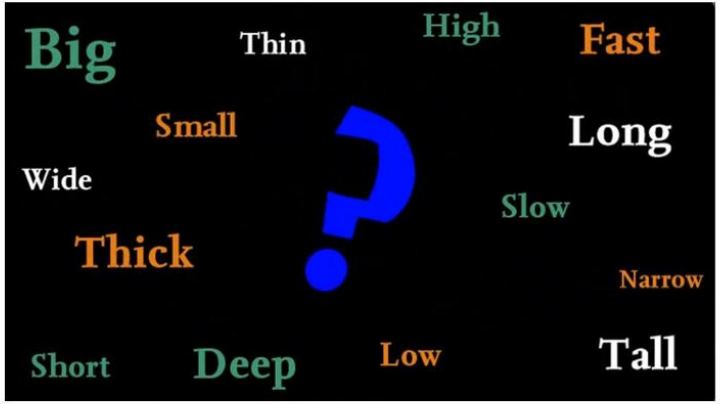

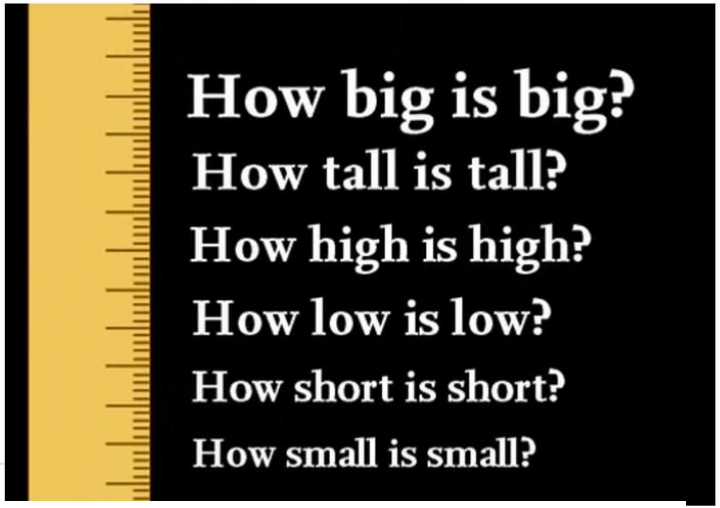

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物质的量	NU_AMOUNT_OF_SUBSTANCE	摩尔	mol	Compendex
角速度	NU_ANGULAR_VELOCITY	弧度每秒	rad/s	Compendex
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面积	NU_AREA	平方米	m2	Compendex

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英尺	ft
英寸	in
千米	km
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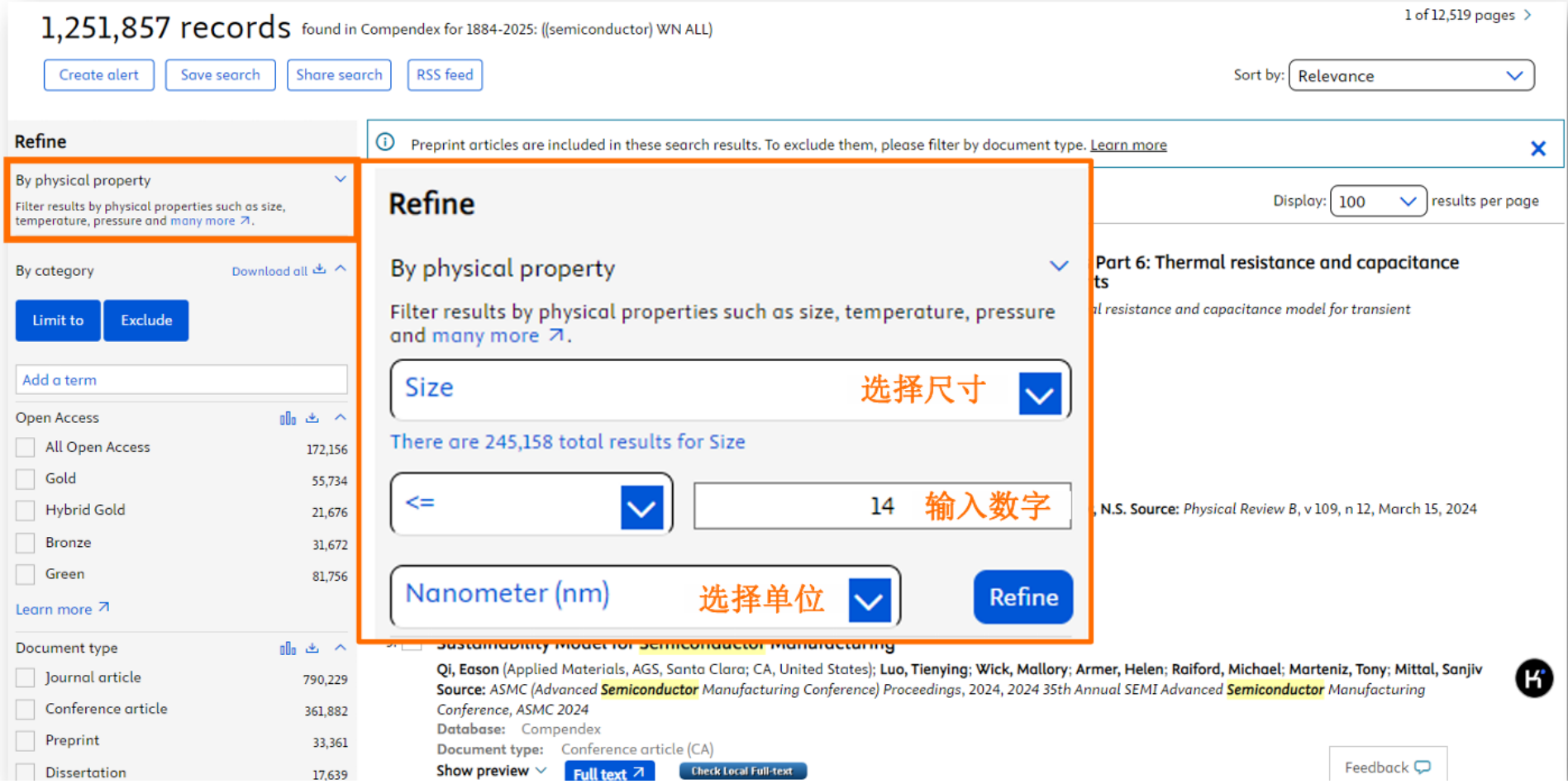
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Qi, Eason (Applied Materials, AGS, Santa Clara; CA, United States); Luo, Tienying; Wick, Mallory; Armer, Helen; Raiford, Michael; Marteniz, Tony; Mittal, Sanjiv
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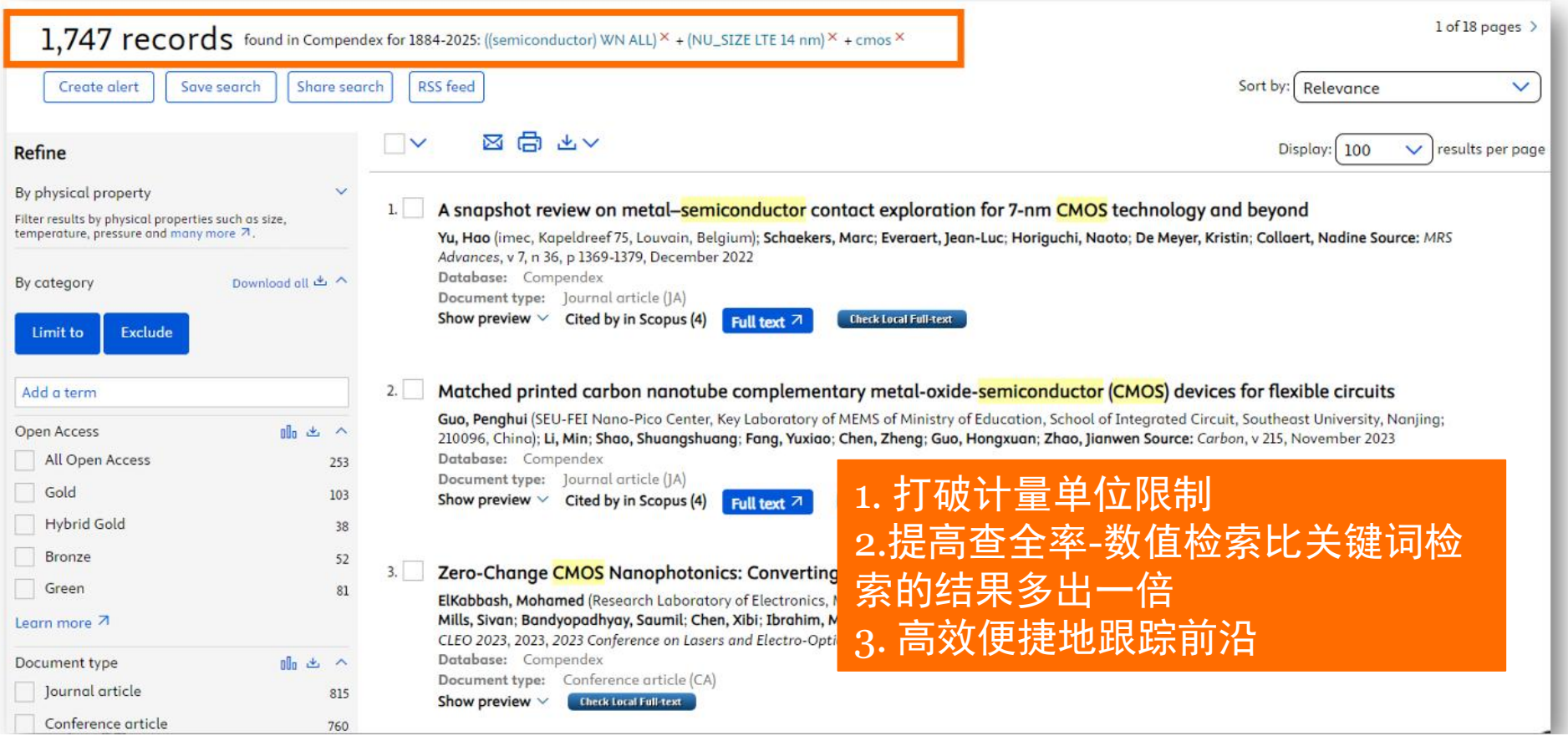
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Yu, Hao (imec, Kapeldreef 75, Louvain, Belgium); Schaekers, Marc; Everaert, Jean-Luc; Horiguchi, Naoto; De Meyer, Kristin; Collaert, Nadine Source: MRS Advances, v 7, n 36, p 1369-1379, December 2022
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2. Matched printed carbon nanotube complementary metal-oxide-semiconductor (CMOS) devices for flexible circuits
Guo, Penghui (SEU-FEI Nano-Pico Center, Key Laboratory of MEMS of Ministry of Education, School of Integrated Circuit, Southeast University, Nanjing; 210096, China); Li, Min; Shao, Shuangshuang; Fang, Yuxiao; Chen, Zheng; Guo, Hongxuan; Zhao, Jianwen Source: Carbon, v 215, November 2023
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3. Zero-Change CMOS Nanophotonics: Converting
ElKabbash, Mohamed (Research Laboratory of Electronics,
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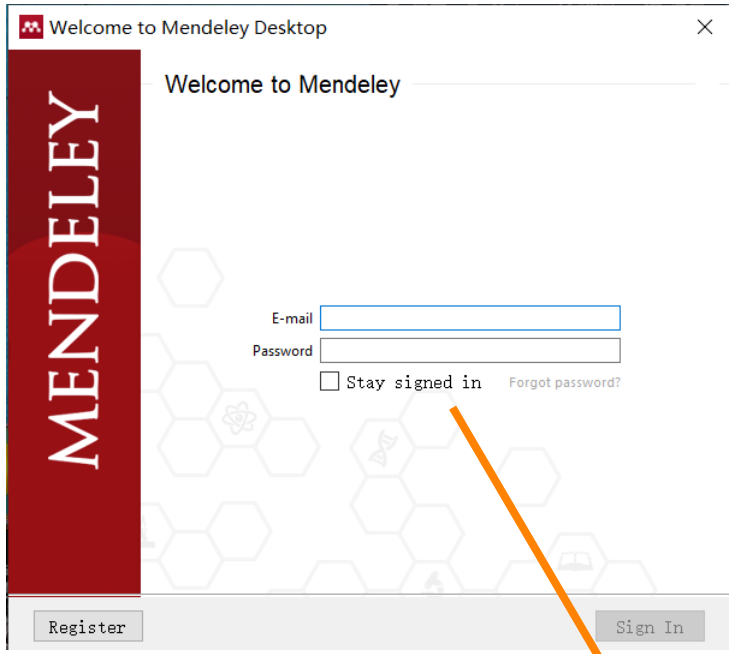

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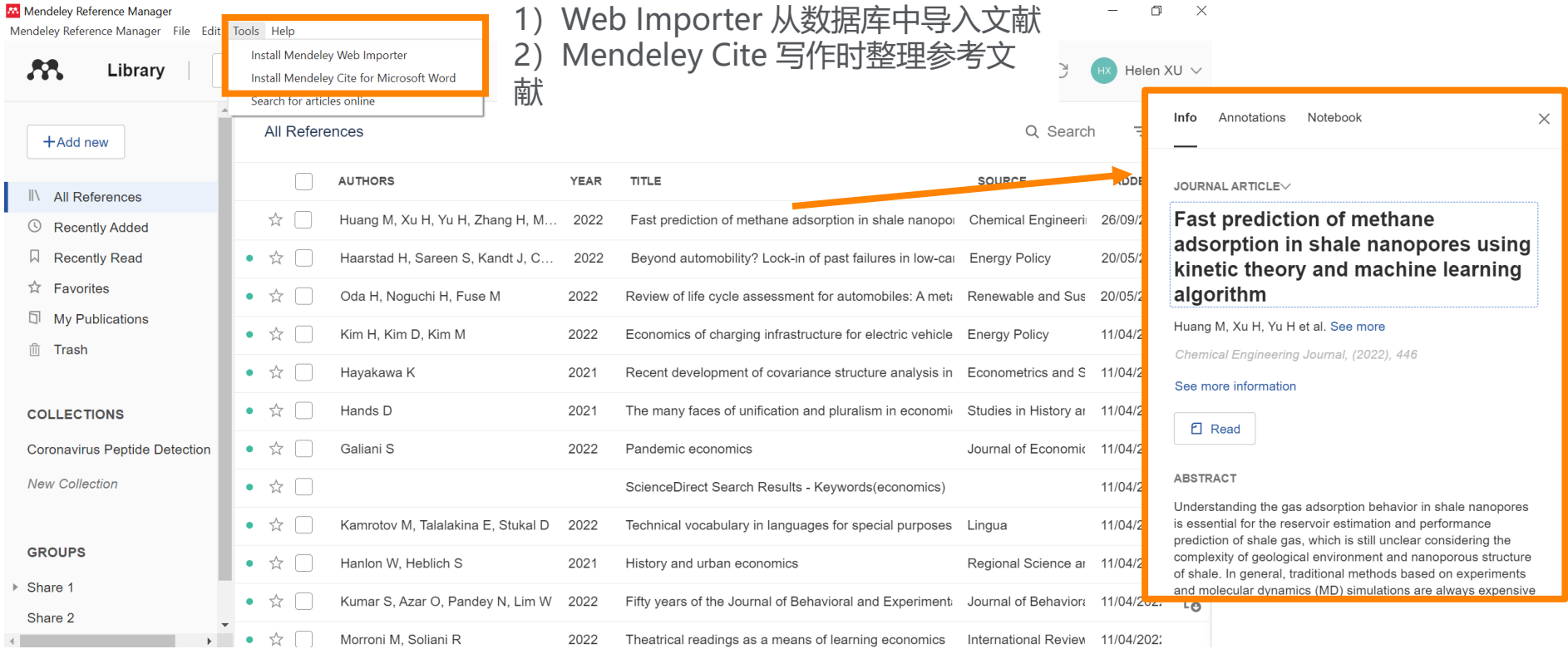

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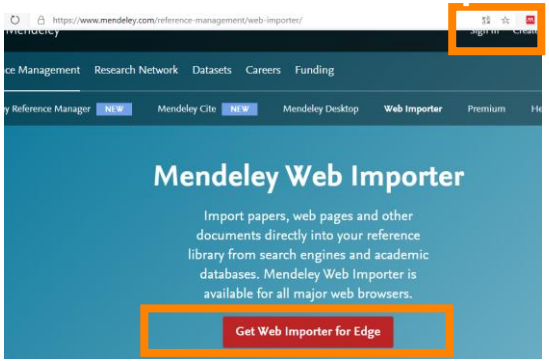

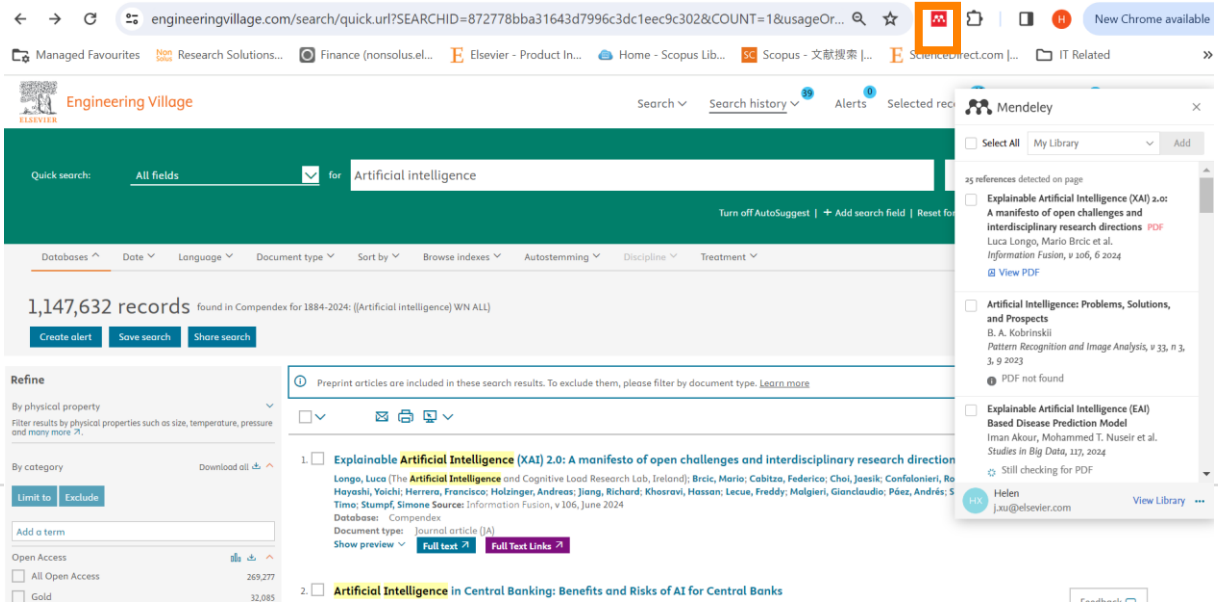

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In this review, a group of two-dimensional (2D) hydrogen-bonded supramolecular networks developed in our laboratory are discussed[1–3]. Our attention is mainly focused on: (1) recognition of Fe3+ through two-component molecular networ[1,3–5]; (2) site-selective fabrication of 2D fullerene arrays; and (3) fabrication of the nanoporous structure regulated by photoisomerization reaction process.

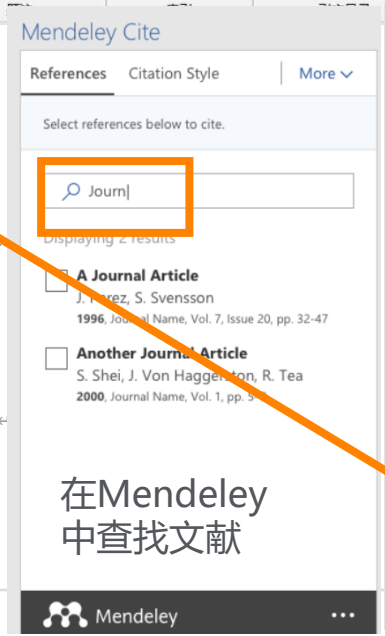
[1] M.C. Huang, H.Y. Xu, H. Yu, H.L. Zhang, M. Micheal, X.H. Yuan, H.A. Wu, Fast prediction of methane adsorption in shale nanopores using kinetic theory and machine learning algorithm, Chemical Engineering Journal. 446 (2022). https://doi.org/10.1016/j.cej.2022.137221.

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

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

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

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



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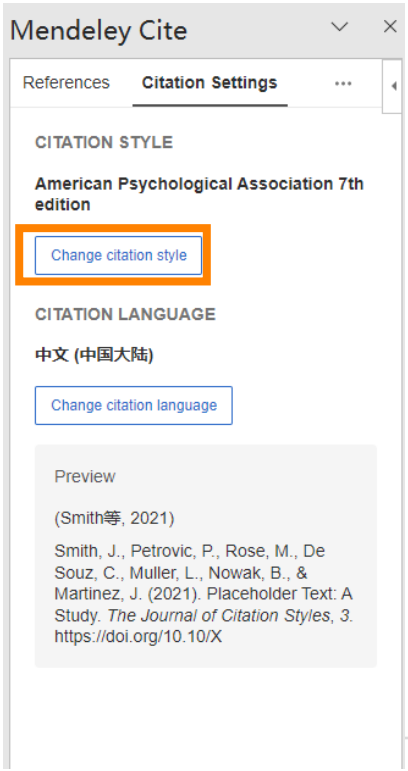

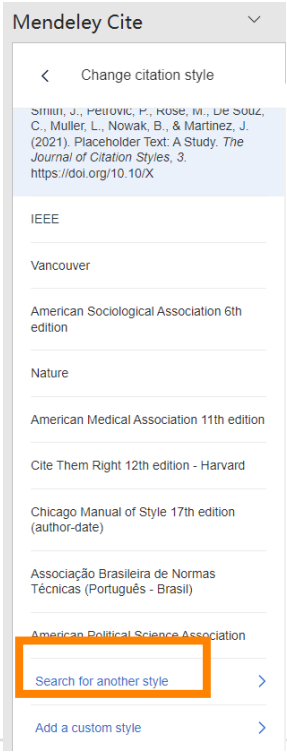

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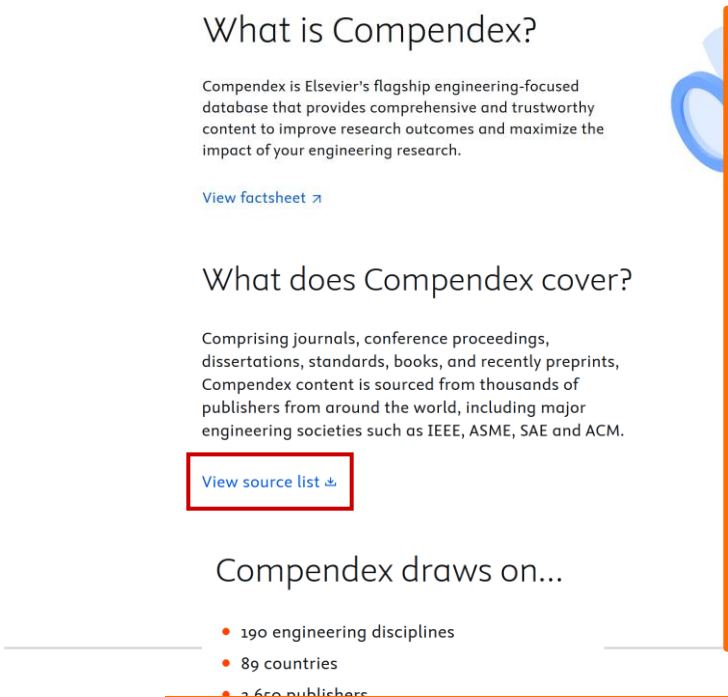

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Year	Volume	Issue	Pagination
2020	18	2	5-227
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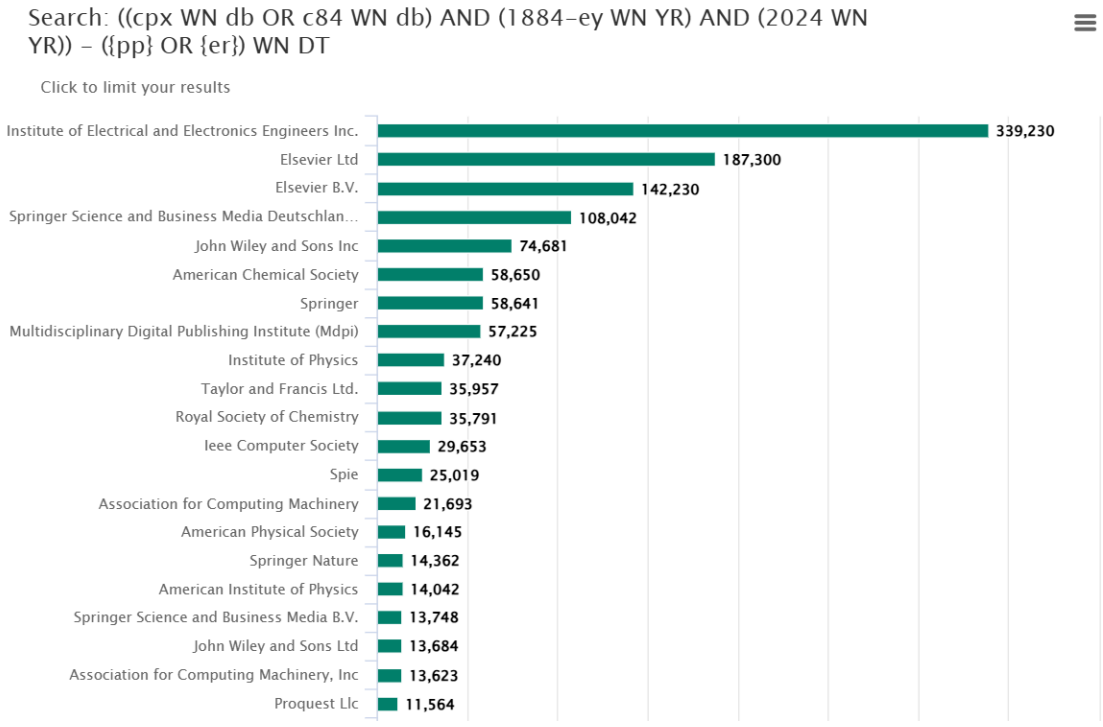

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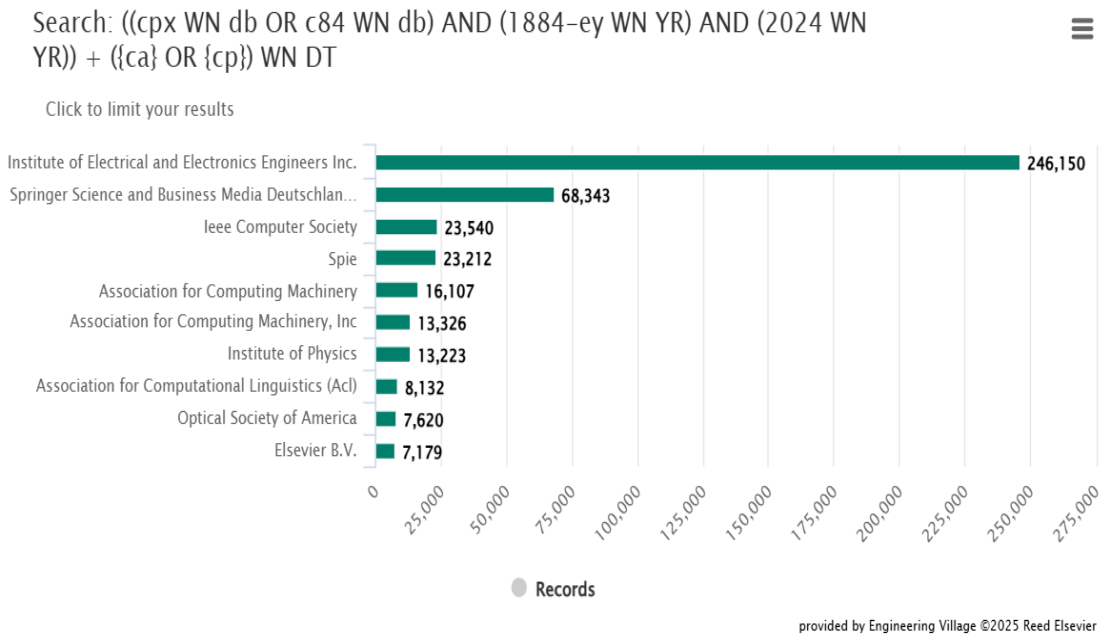

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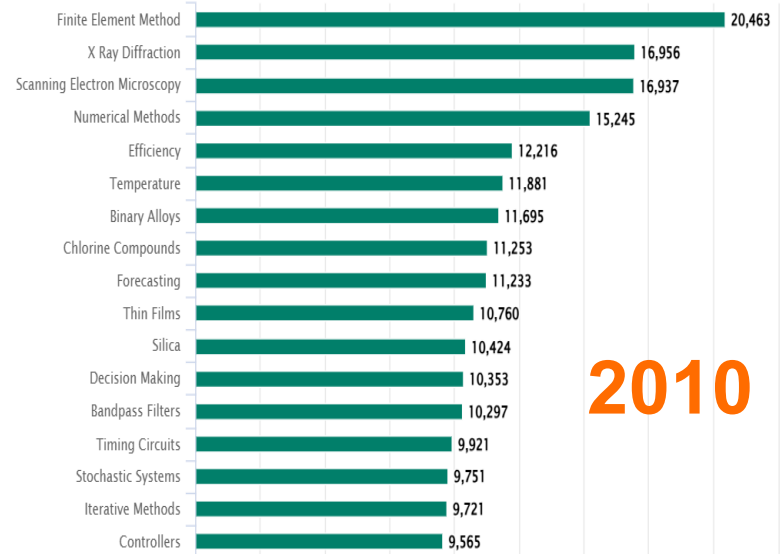

2010

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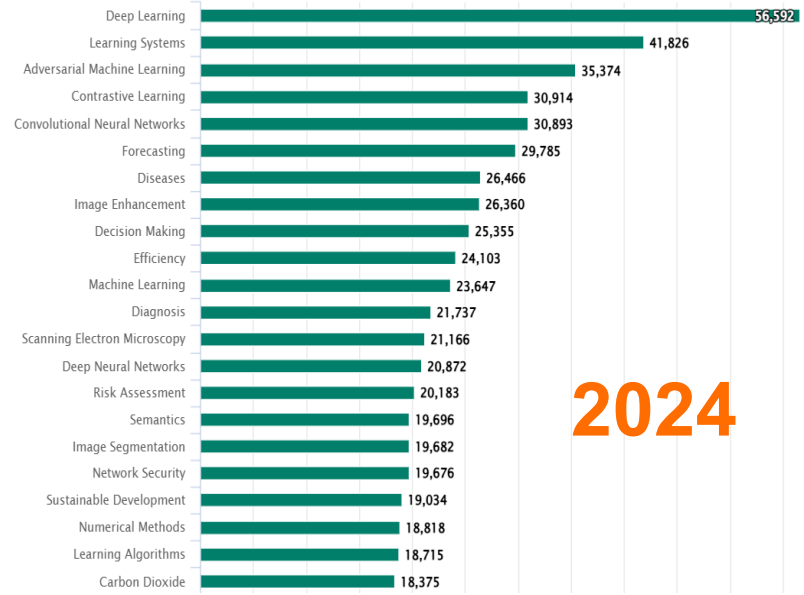

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3. 掌握Ei Compendex收录主题的变化趋势

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Compendex • Conference article (CA)

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Proceedings - 3rd International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2024, 2024

Kawad, Megha V[1] ; Makwana, Sudhanshu Himanshu[1] ; Kirubanantham, P.[1]

Corresponding author: Kawad, Megha V

Author affiliation:

[1] Srm Institute of Science and Technology, School of Computing, College of Engineering and Technology, Department of Computing Technologies, Kattankulathur, Chennai, India

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Publisher
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ISBN-13
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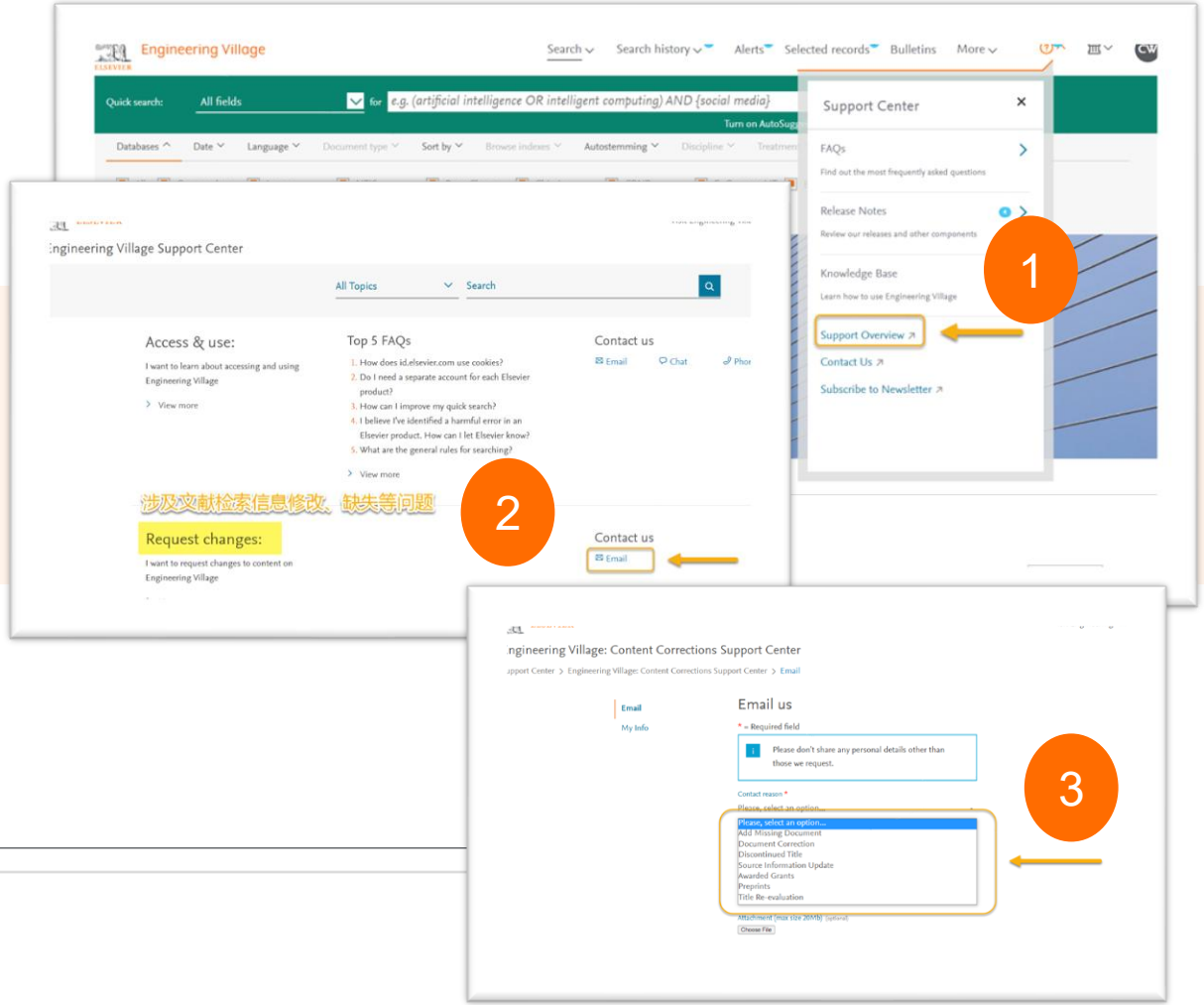

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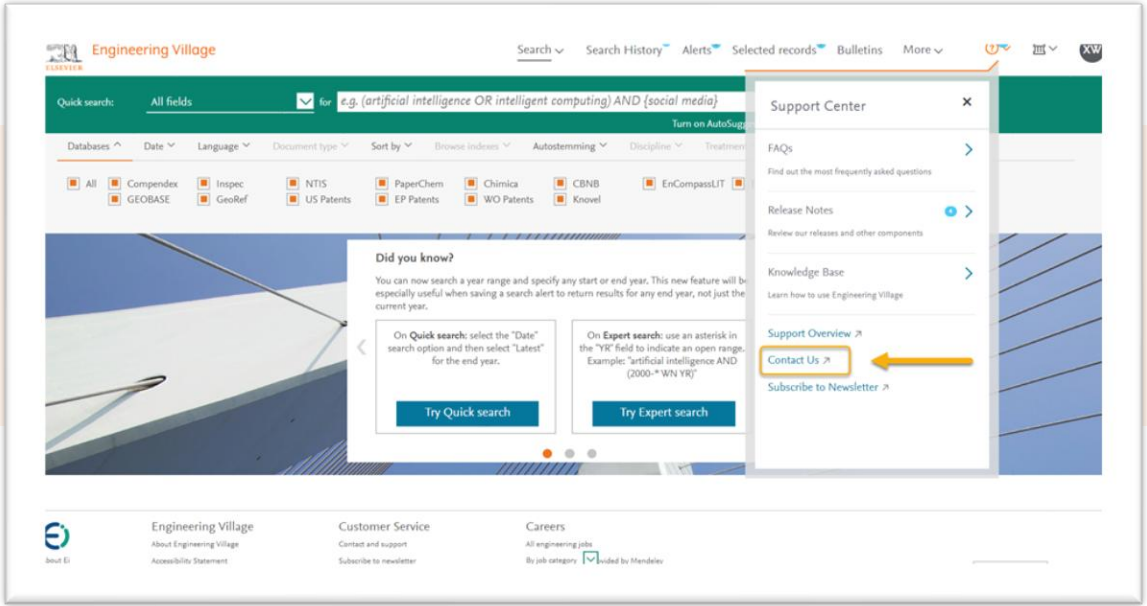

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