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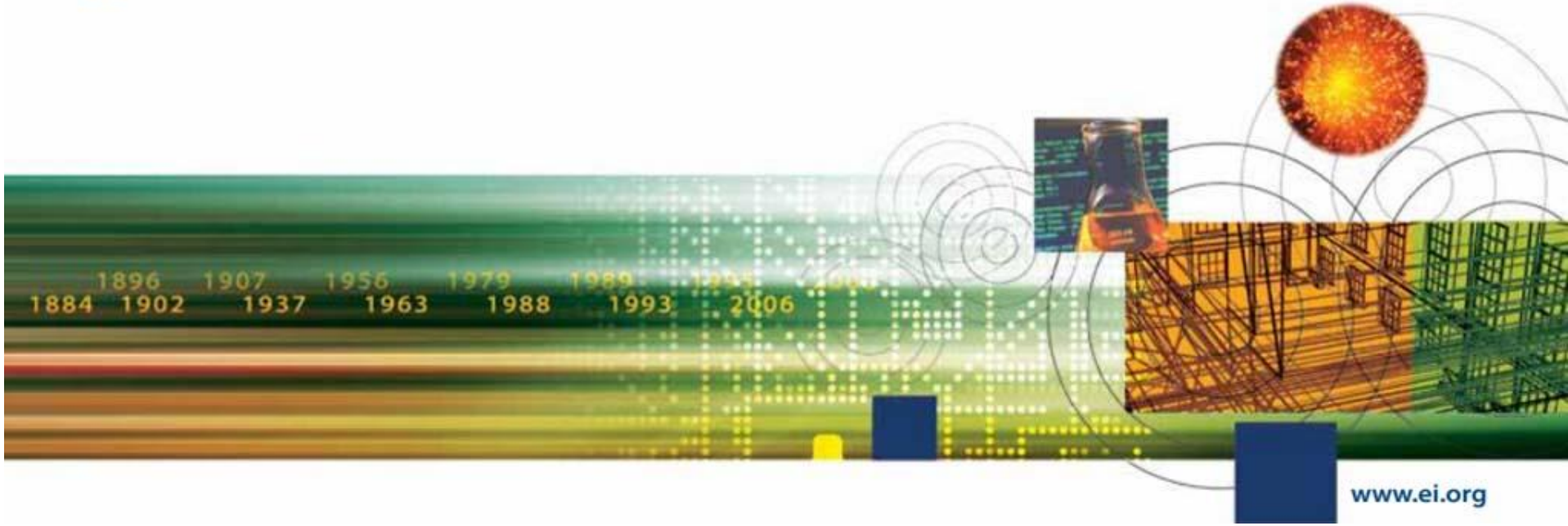
Thesaurus Search - 词库检索



Thesaurus Search 叙词检索

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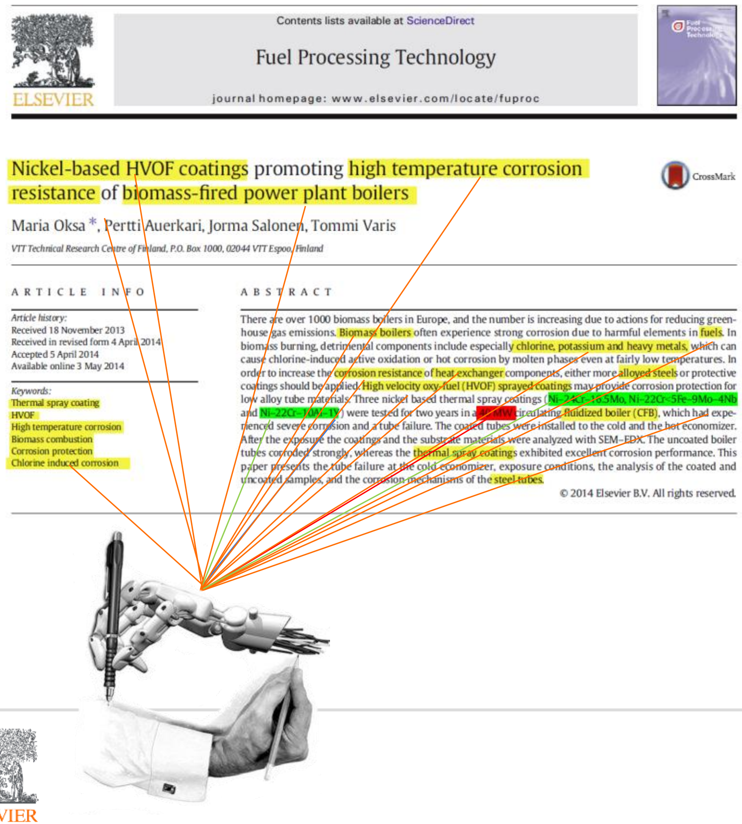
内容概况: 索引



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Nickel-based HVOF coatings promoting high temperature corrosion resistance of biomass-fired power plant boilers

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Biomass combustion
Corrosion protection
Chlorine induced corrosion

ABSTRACT

There are over 1000 biomass boilers in Europe, and the number is increasing due to actions for reducing greenhouse gas emissions. Biomass boilers often experience strong corrosion due to harmful elements in fuels. In biomass burning, detrimental components include especially chlorine, potassium and heavy metals, which can cause chlorine-induced active oxidation or hot corrosion by molten phases even at fairly low temperatures. In order to increase the corrosion resistance of heat exchanger components, either more alloyed steels or protective coatings should be applied. High velocity oxy-fuel (HVOF) sprayed coatings may provide corrosion protection for low alloy tube materials. Three nickel based thermal spray coatings (Ni–24Cr–16.5Mo, Ni–22Cr–5Fe–9Mo–4Nb and Ni–22Cr–10Al–1Y) were tested for two years in a 40 MW circulating fluidized boiler (CFB), which had experienced severe corrosion and a tube failure. The coated tubes were installed to the cold and the hot economizer. After the exposure the coatings and the substrate materials were analyzed with SEM–EDX. The uncoated boiler tubes corroded strongly, whereas the thermal spray coatings exhibited excellent corrosion performance. This paper presents the tube failure at the cold economizer, exposure conditions, the analysis of the coated and uncoated samples, and the corrosion mechanisms of the steel tubes.

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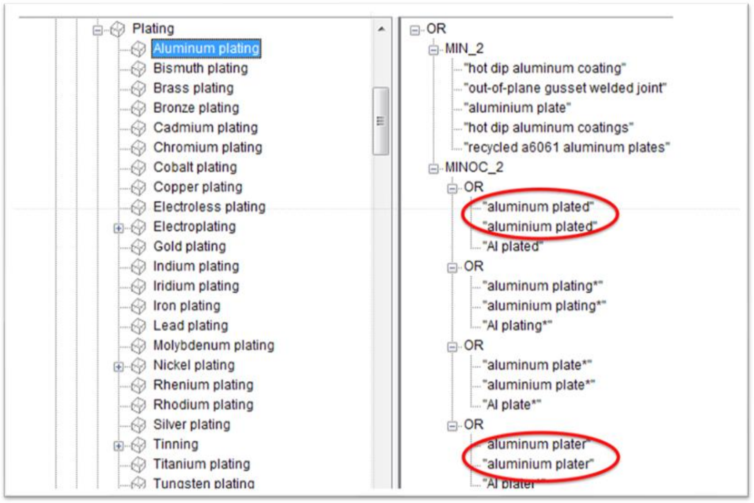

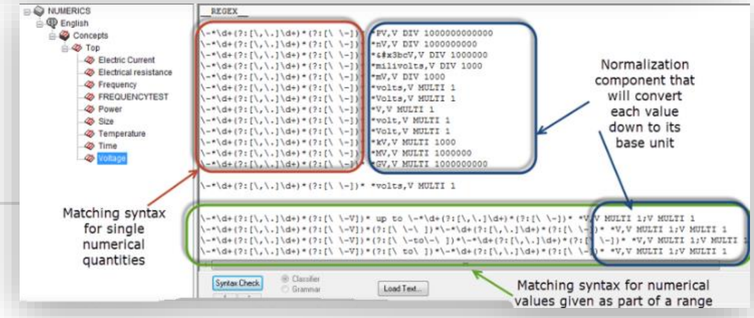

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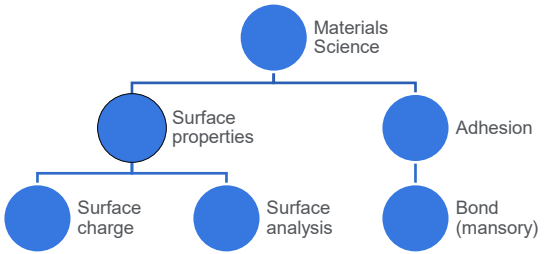
精确查找特定研究领域：Ei独有的工程索引叙词表

从1884年起，一直在发展中

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

用户利用叙词表可从主题角度检索文献，进而提高文献的查准率。

利用叙词表还可以从主题概念的角度扩展或缩小检索范围。



通过索引实现相关性、可靠性以及可重复性

通过同义词库工具检索到的精心挑选和整理的内容可提供高度相关的结果。研究人员不会浪费时间阅读不相关的低质量文献。

The pitfalls of generic search engines

- 结果不一致：搜索可以被操纵以返回最大结果或引入排名偏差
- 缺乏复制：cookie 使搜索的可复制性降低
- 缺乏可信度：Google Scholar 为任何作者提供上传其论文的能力

搜索“Force”

Compendex

Top 5 controlled vocabulary terms

Atomic Force Microscopy	(111,118)
Finite Element Method	(70,942)
Mathematical Models	(53,834)
Friction	(47,604)
Scanning Electron Microscopy	(44,617)

Google Scholar

Top 5 related searches

- force **microscopy**
- force **atomic**
- force **field analysis**
- force **police**
- force **labor**

Baidu 学术

高级搜索 | force | 百度

- forces
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- force10网络公司
- forceware
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- forceware驱动程序
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- forced
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NPS study Q1 2023 N=432

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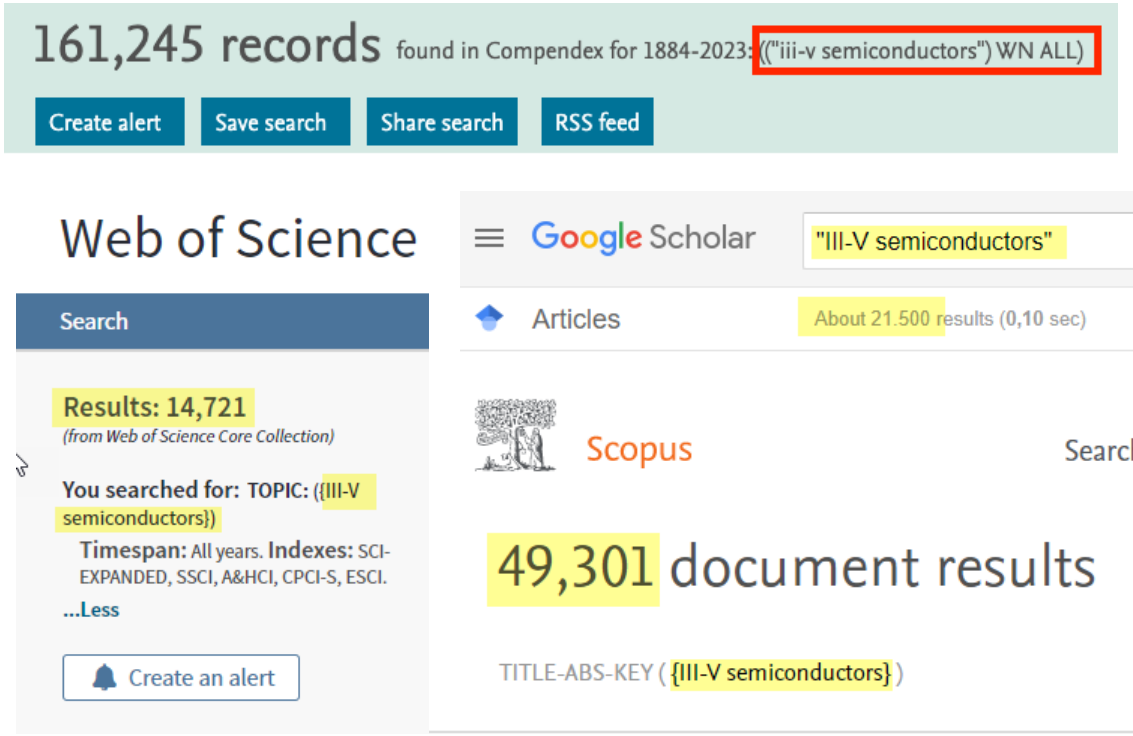
EV 上的专业索引可提高查全查准率

Ei智能索引包括所有不同类型的 3-5 种半导体材料，确保万无一失



"InSb_C"
"Aluminium gallium arsenide*"
"Indium gallium arsenide*"
"Indium gallium phosphide*"
"Aluminium indium arsenide*"
"Aluminium indium antimonide*"
"Gallium arsenide nitride*"
"Gallium arsenide phosphide*"
"Gallium arsenide antimonide*"
"Aluminium gallium nitride*"
"Aluminium gallium phosphide*"
"Indium gallium nitride*"
"Indium arsenide antimonide*"
"Indium gallium antimonide*"
"Aluminium gallium indium phosphide*"
"Aluminium gallium arsenide phosphide*"
"Indium gallium arsenide phosphide*"
"Indium gallium arsenide antimonide*"
"Indium arsenide antimonide phosphide*"
"Aluminium indium arsenide phosphide*"
"Aluminium gallium arsenide nitride*"
"Indium gallium arsenide nitride*"
"Indium aluminium arsenide nitride*"
"Gallium arsenide antimonide nitride*"
"Gallium indium nitride arsenide antimonide*"
"Gallium indium arsenide antimonide phosphide
"AlxGa1-xAs_C"
"InxGa1-xAs_C"
"InxGa1-xP_C"
"AlxIn1-xAs_C"
"AlxIn1-xSb_C"
"Boron nitride*"
"Boron phosphide*"
"Boron arsenide*"
"Boron arsenide*"
"Aluminium nitride*"
"Aluminium phosphide*"
"Aluminium arsenide*"
"Aluminium antimonide*"
"Gallium nitride*"
"Gallium phosphide*"
"Gallium arsenide*"
"Gallium antimonide*"
"Indium nitride*"
"Indium phosphide*"
"Indium arsenide*"
"Indium antimonide*"
"BAs_C"
"B12As2_C"
"AlN_C"
"AlP_C"
"AlAs_C"
"AlSb_C"
"GaN_C"
"GaP_C"
"GaAs_C"
"GaSb_C"
"InN_C"
"InP_C"

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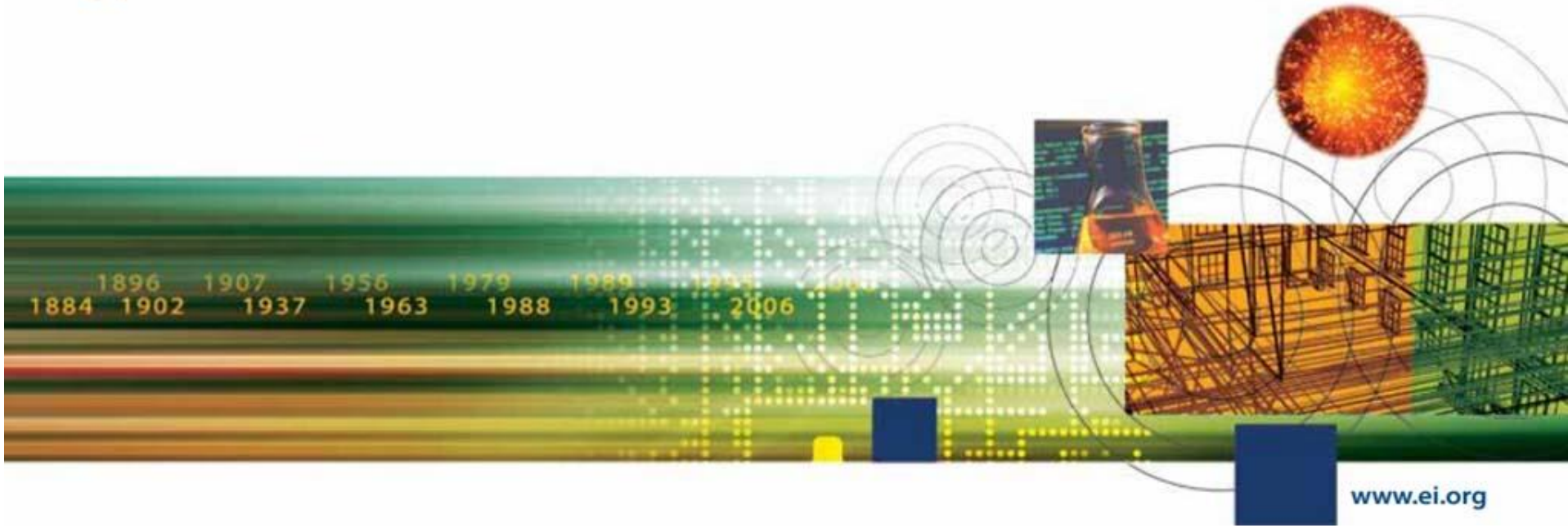

Compendex overview

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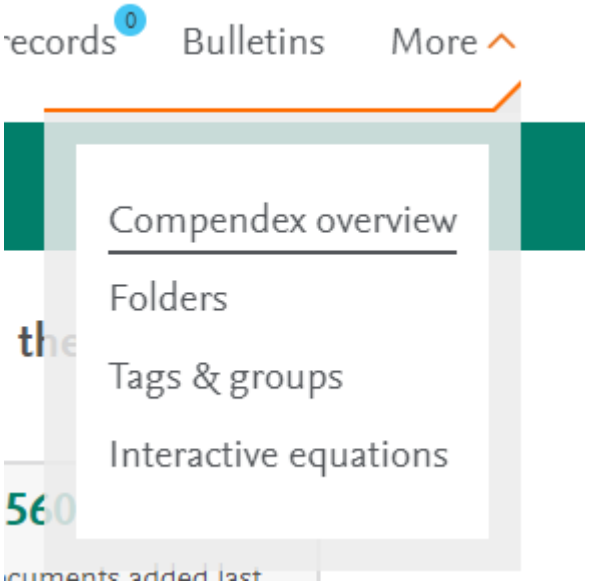
Ei内容一站式概览



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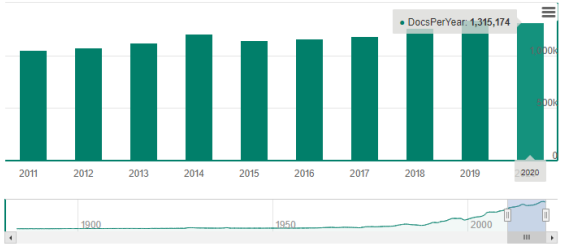
28,391,824	190+	1884-2022	131,445	1,560,864
Total documents	Subject areas	Years covered	Conference Proceedings	Documents added last year (2020)

Publication Year

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

2020	1,315,174	2015	1,143,637
2019	1,337,527	2014	1,202,882
2018	1,263,614	2013	1,124,714
2017	1,184,071	2012	1,076,993
2016	1,156,463	2011	1,053,008



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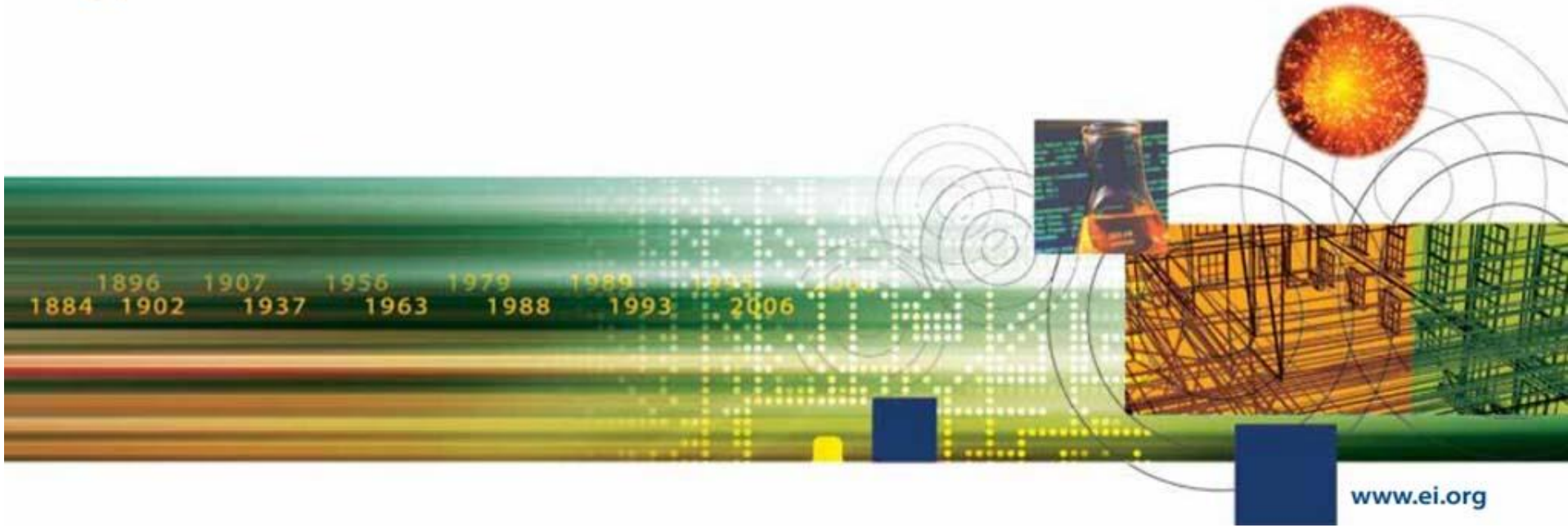

Author/Affiliation Search

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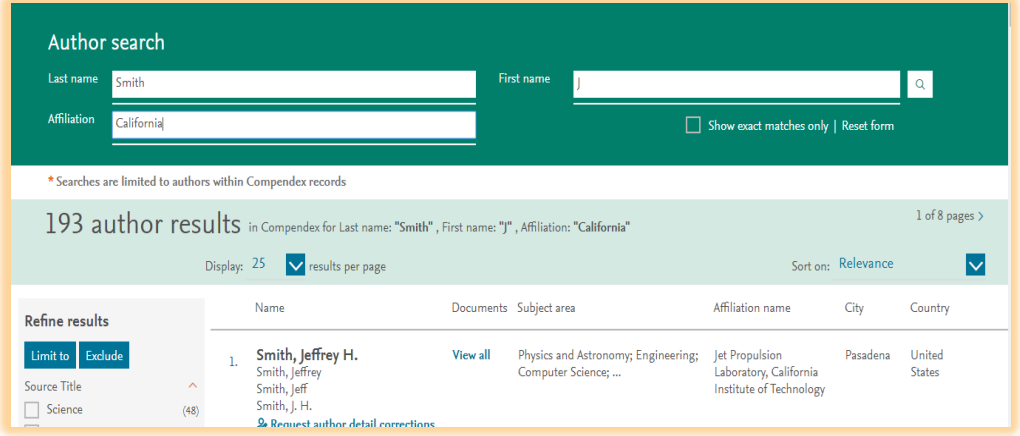
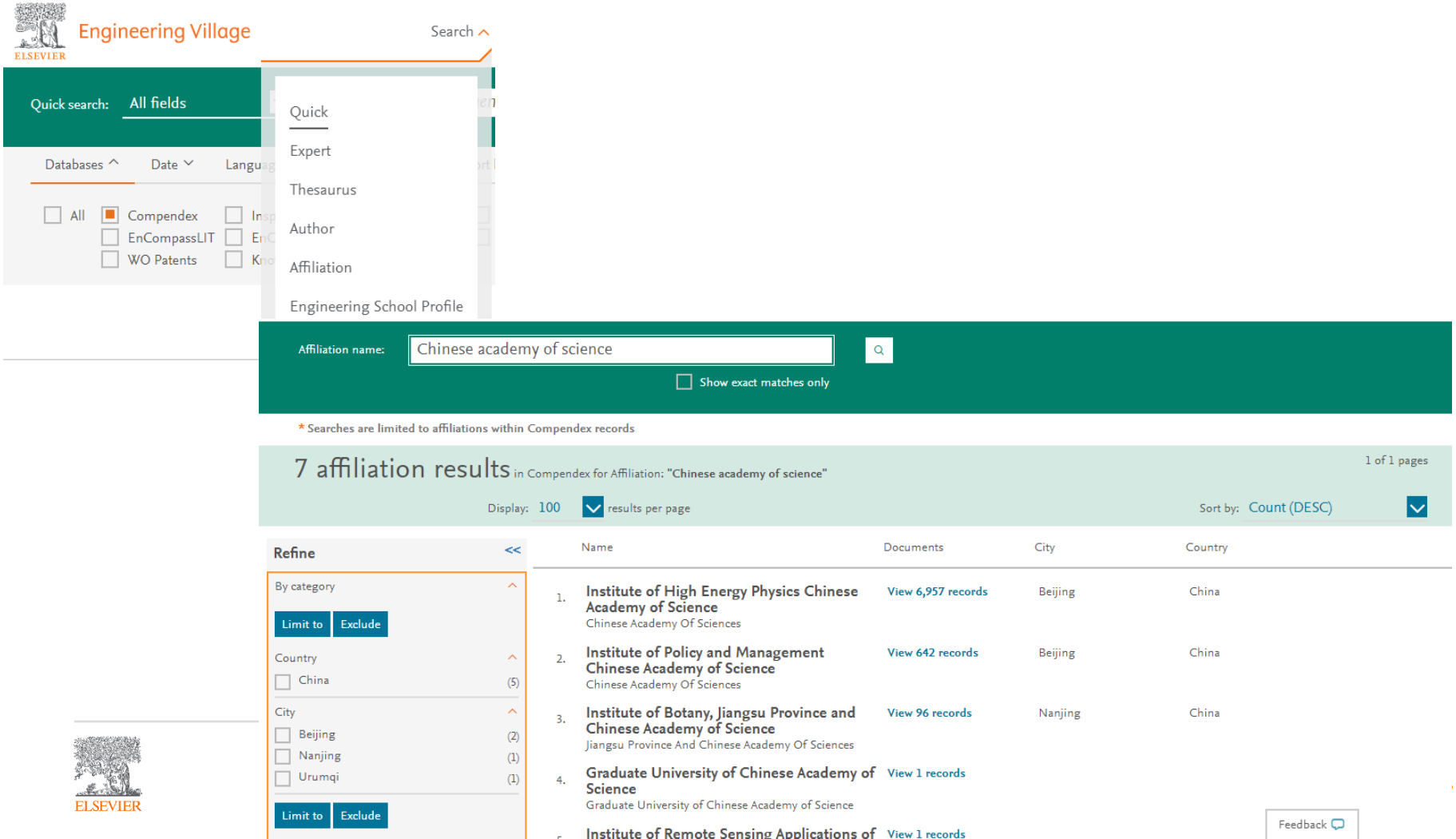
作者/单位检索

问题： 由于作者的名字有表述差异，难以找全特定作者/单位所发表的文献

我们的方案: 用户们现在可以在Engineering Village的Compendex中利用经过标准化/消歧处理的作者、机构记录查询作者和机构信息。

实现的价值: 能够更精确、更快得到Compendex中的作者和机构信息

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Quick search: All fields
Quick
Expert
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Databases
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EnCompassLIT
WO Patents
Affiliation name: Chinese academy of science
Show exact matches only
* Searches are limited to affiliations within Compendex records
7 affiliation results in Compendex for Affiliation: "Chinese academy of science"
1 of 1 pages
Display: 100 results per page
Sort by: Count (DESC)
Refine
By category
Limit to
Exclude
Country
China (5)
City
Beijing (2)
Nanjing (1)
Urumqi (1)
Name
Documents
City
Country
1. Institute of High Energy Physics Chinese Academy of Science
Chinese Academy Of Sciences
View 6,957 records
Beijing
China
2. Institute of Policy and Management Chinese Academy of Science
Chinese Academy Of Sciences
View 642 records
Beijing
China
3. Institute of Botany, Jiangsu Province and Chinese Academy of Science
Jiangsu Province And Chinese Academy Of Sciences
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Nanjing
China
4. Graduate University of Chinese Academy of Science
Graduate University of Chinese Academy of Science
View 1 records
Feedback

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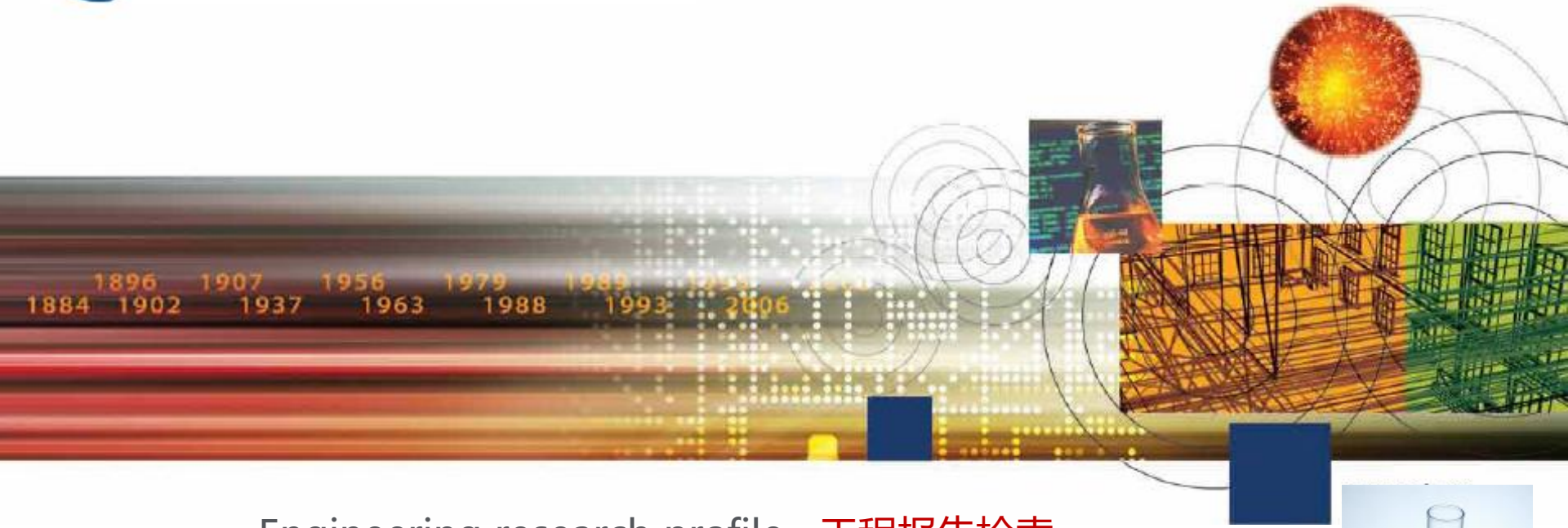

Engineering research profile 工程报告检索

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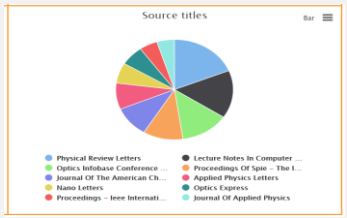
工程机构概述报告 (Engineering research Profile)

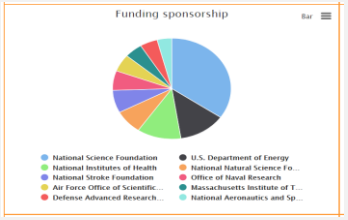
最多的基金源是哪里?

谁在发表？

教职员在哪里发表论文？

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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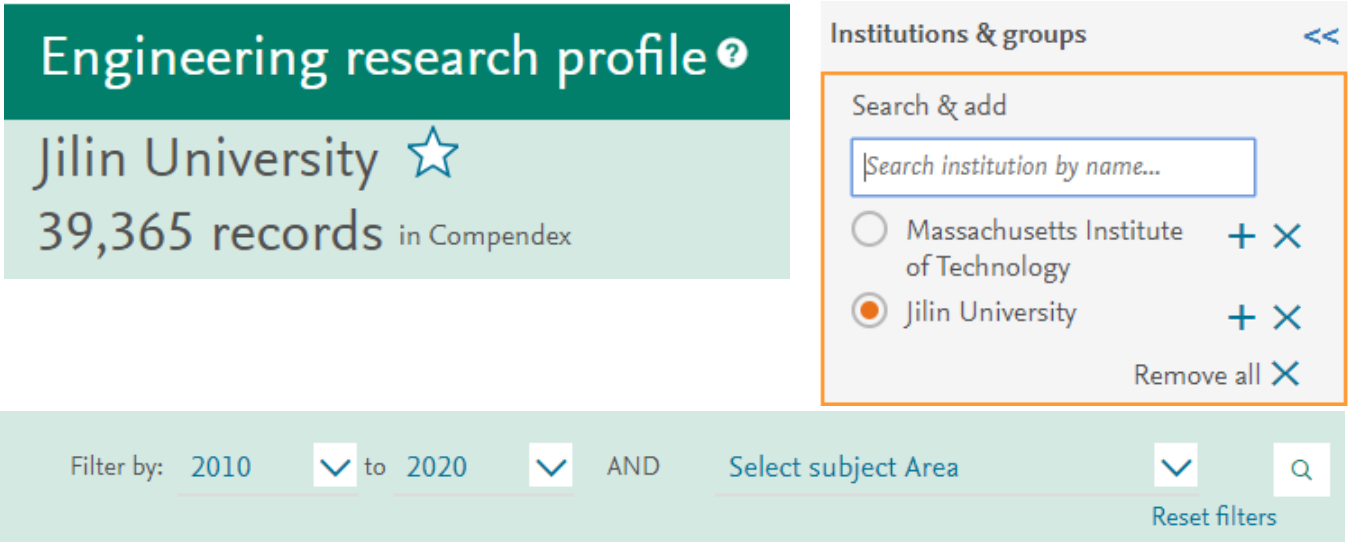
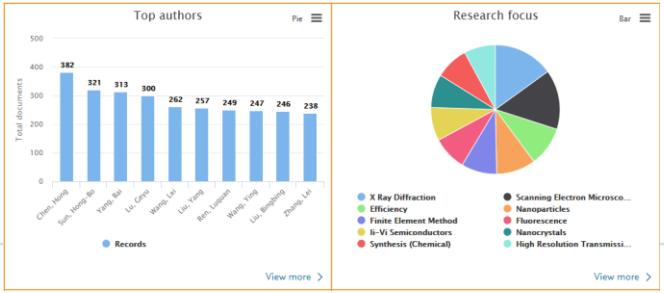


Top authors
Research focus
Funding
Publishing trend
Subject area
Source titles



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Refine by physical property 数值搜索

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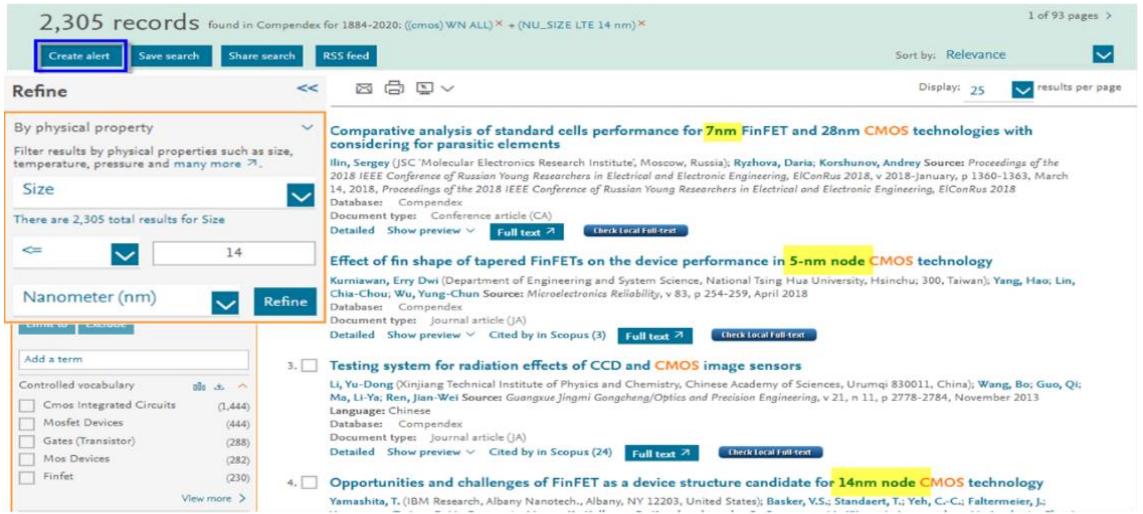

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化学索引

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化学索引

在研究使事物变得更坚固，或者更轻便，或者更低价，或者根据更能性，或者具备可持续发展能力的过程中，对材料，其特性和进程进行修改是关键。为了提高搜索和再搜索此类主题内容的准确性，我们在Compendex中引入了一种新的智能系统，用于对化学式中表示的元素，化合物和材料进行索引。使用这个新系统，可以对化学式中的各个化学元素进行索引，并正确识别它是化学化合物还是材料（例如金属合金或半导体）。

此项提升极大地提高了检索精度，并可以提高每周含有元素，化合物和或材料索引的文章的召回率，从而使EV用户可以快速搜索并发现前沿材料科学/工程研究，这是以前受控词检索无法实现的 。

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