

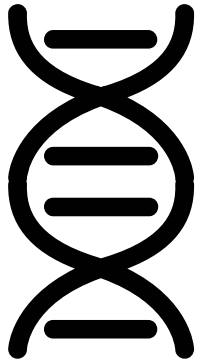


www.theiet.org/inspec

Inspec Analytics: A New Way to Visualize Your Institutional Research

Inspec Analytics : 机构研究现状可视化分析新方法

Physics
物理



9.84
million

**Electrical and
electronic
engineering**
电气与电子工程



7.1
million

**Computing
and control
engineering**
计算与控制工程



5.3
million

**Information
technology**
信息技术



113K

**Production,
manufacturing
& mech.
Engineering**
生产制造与机械
工程



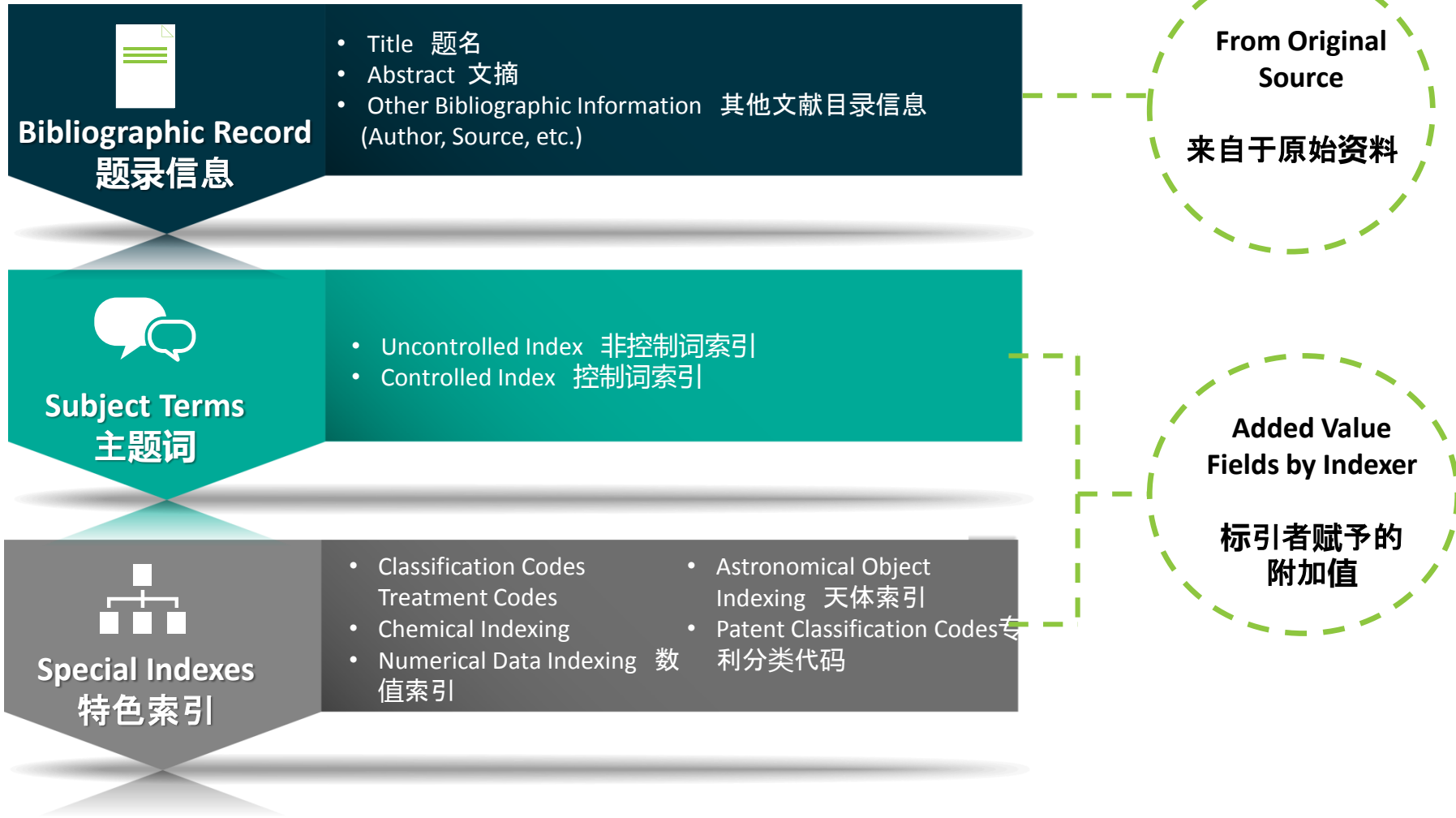
2.1
million



Or **1898** with the Archive



Record Breakdown记录分解



New Insights, built upon a Strong Foundation

建立在坚实基础上的新认知

Based upon Semantic Enrichment of almost 50 years worth of highly curated, structured quality research data

- 17.5 million journal articles, book chapters, conference proceedings etc
- ~23,000 Universities, corporations, military organisations & public institutions
- ~60 million author instances
- 4,500 journals from 700+ publishers
- 3,600 subject classifications : Physics, Mech. Eng, Elec. Eng, Prod. Eng, Computing & Control
- 18,100 Controlled Keywords annotated by subject matter experts
- Treatment types (experimental, practical), Chemical , Numeric & Astronomic Object indexing

基于近50年的高度组织、结构化的优质研究数据的语义聚类分析

- 1750万条文摘记录, 来自期刊论文, 图书, 会议录等
- 23000所高校, 企业, 军事组织, 公共机构
- 6千万个作者实例
- 采集自700多个出版机构的4500种期刊
- 3600个主题分类, 覆盖物理、机械工程、电气工程、生产制造, 计算控制工程
- 18100个受控关键词, 全部来自文献分类专家的人工标注
- 独有的特色索引: 数值索引, 天体索引等



What is Inspec Analytics?

The challenge: Engineering & Physics research is global and increasingly multi-disciplinary so generating the next hot topic of research or a distinct competitive advantage becomes ever more challenging.

挑战: 工程与物理研究的全球化, 日益增长的多学科, 使得开发下一个热门研究课题或者保持独特的竞争优势变得越来越具有挑战性

The solution:

解决方案:

Semantic technology + Inspec's index = Inspec Analytics Knowledge Graph
语义技术+Inspec索引=Inspec Analytics知识图谱

Leverages existing Inspec metadata to visualize and uncover previously hidden relationships between various concepts, authors and institutions using our new visualizations

利用现有的Inspec元数据, 通过可视化新方法来揭示以前隐藏的各种概念、作者, 机构之间的复杂关系。

Over 5 billion relationships!
多达50亿条关系链!



What is Inspec Analytics?

Inspec Analytics allows **administrators and senior faculty** to find answers to complex questions such as:

- What is the research output from a specific institution for a particular field?
- Who are the most prolific institutions/authors/journals for that concept?
- What are the comparative strengths and weaknesses of a particular university?
- What new research areas could we investigate?
- Who do we, and who could we, collaborate with on specific topics?

Inspec Analytics is available free to all existing Inspec customers.

Inspec Analytics可以帮助管理者与资深科研人员解答以下疑问:

- 某机构在特定领域的科研产出有哪些？
- 特定研究领域最多产的机构？作者？期刊？
- 特定院校的相对优劣之所在？
- 我们可以研究哪些新的领域？
- 我们应该和谁, 可以和谁就某个特定课题进行合作？

**现Inspec用户, Inspec Analytics
免费！免费！免费！**



Now Available

The Institutional view:

- Search Inspec Analytics for your institution or a competitor:
 - Show areas of strength in research in Engineering, Physics & Computing
 - Explore how research output changed over the last 5 years (3.75M articles)
 - See which universities have been publishing more lately
 - Recent hot topics
 - Visual, intuitive display allows you to easily compare institutions
 - Drill-down 5 levels in subject classifications

机构检索界面:

- 在Inspec Analytics上检索自己或者竞争对手所在机构:
 - 显示工程、物理、计算领域的科研区域强度
 - 探索过去5年科研产出变化
 - 查找近来发文最多的院校
 - 近期热点问题(通过分析最近所出版论文的关键词)
 - 可视化, 直观的显示可以帮助你轻松完成机构比较研究
 - 深入挖掘五级主题分类



Search for an organisation



Organisations



Subject Areas



Keywords



Authors



Concept Pages 概念页面

Graphene (Controlled Term)

A thin layer of pure carbon; it is a single, tightly packed layer of carbon atoms that are bonded together in a hexagonal honeycomb lattice. In more complex terms, it is an allotrope of carbon in the structure of a plane of sp² bonded atoms with a molecule bond length of 0.142 nanometres. Layers of graphene stacked on top of each other form graphite, with an interplanar spacing of 0.335 nanometres.

The Concept View:

Search for over 12,000 Scientific Terms from Inspec Thesaurus and see:

通过搜索超过Inspec叙词表的12000多个科学术语:

- Concept description 概念描述
- Publication trends over time 随着时间推移出版的趋势
- Top publishing institutions & authors 顶尖的出版机构和作者
- Top journals & conferences 顶尖期刊和会议
- Geographical areas of speciality 专业地理区域图
- Related Keywords & Classification codes 相关关键词及分类代码
- Trending 'buzz words and hot topics 热点问题, 流行词语的变化趋势
- Search for articles related to the concept 检索与某概念相关的学术文章

Related Controlled Terms

- [carbon](#)
- [carbon nanotubes](#)
- [graphene devices](#)
- [graphite](#)
- [multi-wall carbon nanotubes](#)
- [nanoribbons](#)
- [nanostructured materials](#)
- [single-wall carbon nanotubes](#)

Related Classification Codes

- [A7360T](#) Electrical properties of graphene
- [A7315N](#) Electronic structure of graphene
- [A7865V](#) Optical properties of graphene
- [A8120V](#) Preparation of graphene
- [A6148](#) Structure of graphene

Browse to related terms

```
graph TD; graphene --- graphene_devices[graphene devices]; graphene --- molecular_electronics[molecular electronics]; graphene --- nanoelectronics[nanoelectronics]; graphene --- flexible_electronics[flexible electronics]; graphene_devices --- molecular_electronics; molecular_electronics --- nanoelectronics; nanoelectronics --- flexible_electronics;
```

Trending Related Terms

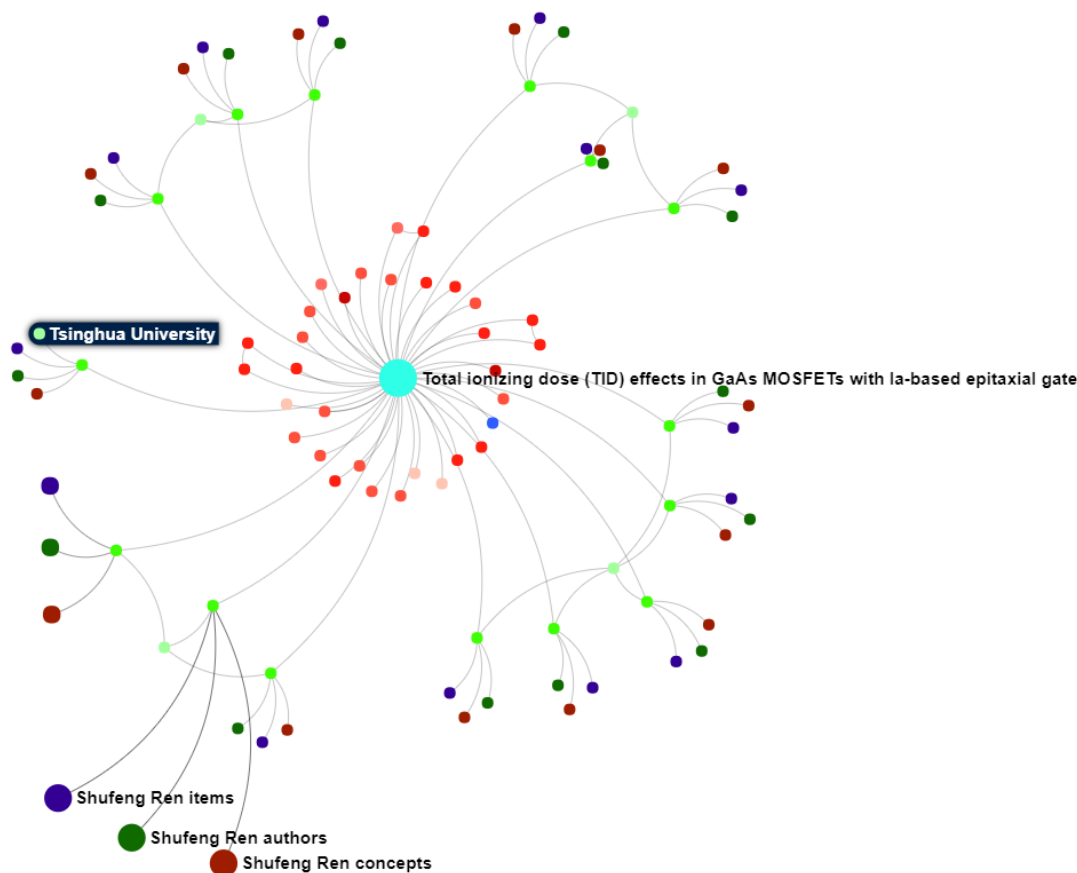
Understand article-level relationships with Article Graphs

通过论文图谱理解文章层面的关系

Inspec Plus Home

Total ionizing dose (TID) effects in GaAs MOSFETs with la-based epitaxial gate dielectrics

- Reset +



Click nodes in the graph to view more information.

点击图谱中的节点
浏览更多相关信息

Visualise and
navigate institution/
author/ specialty
relationships at the
article level

文章层面的机构/作
者/专业 可视化与
导航

Questions?

5月17日16:00-16:40

第一座谈教室

座谈内容:

2018 IET Publishing Service &
Inspec Analytics

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Inspec Product Manager

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