

**IET** Inspec



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## Inspec Analytics – 2018 IET Publishing Service

May 2018 ● 重庆

IET(IEE)英国工程技术学会

# Agenda



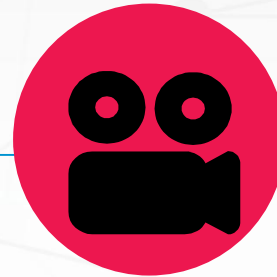
The IET



Journal & E-books



E&T Reference



IET.TV



INSPEC Analytics

# The IET (IEE)

## The Institution of Engineering & Technology

- 创建于1871年
- 欧洲最大的专业工程学会
  - 目前在全球150个国家拥有16万7千名会员
- 学术出版
  - 期刊，图书，会议论文集，多媒体出版物等
- 二次文献出版
  - Inspec databases



# IET Digital Library (IDL)

## Content

IET Digital Library (IDL) 是英国工程技术学会IET 出版的全文数据库。包括IET (IEE)全部期刊、杂志、电子图书，以及1100余会议录。涉及电子、电气、通讯、计算机、控制、雷达、材料、生命科学等学科，数据内容回溯至1979年。



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电力



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与通信



交通  
运输

Main sectors

Plus many interdisciplinary subjects such as nanotechnology, oceanography, environmental science...

# Journals and Conference Proceedings



Titles

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Special  
Index

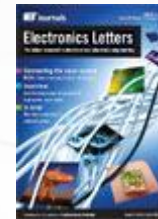
全部被Inspec, EI及SCI收录

IEL数据库的组成部分



Conference  
Proceedings

收录1100余IET举办的会议, 研讨会 全文



THE JOURNAL OF ENGINEERING

IET Open Access Research



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**High Voltage** Online ISSN 2397-7264

## 世界上第一本高电压英文学术期刊《High Voltage》

全世界第一本以“高电压、大电流、强电磁场”为核心组织内容的英文学术期刊。报道高电压及其相关交叉学科前沿研究以及现状。高电压学科所具有的科学性与交叉性特点，将在电力、能源、环境、生物、医疗、航空、航天、交通及材料工程领域均展现出可观的应用前景。以建成国际一流的高压学科相关的学术交流平台为目标，并期待引领高电压学科发展。



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- 2015年5月发布
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- 案例研究
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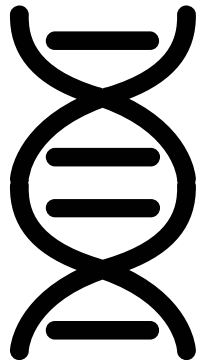
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# Inspec Analytics



# Physics



9.84 million

# Electrical and electronic engineering



7.1 million

# Computing and control engineering



5.3 million

# Information technology



113K

# Production, manufacturing & mech. engineering



2.1 million

# 17.5M

records (Feb 2017)



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- Optional Archive adds another 873,699
- Over 4,200 journals, and 3,000 other publications from 700 publishers

# 1969

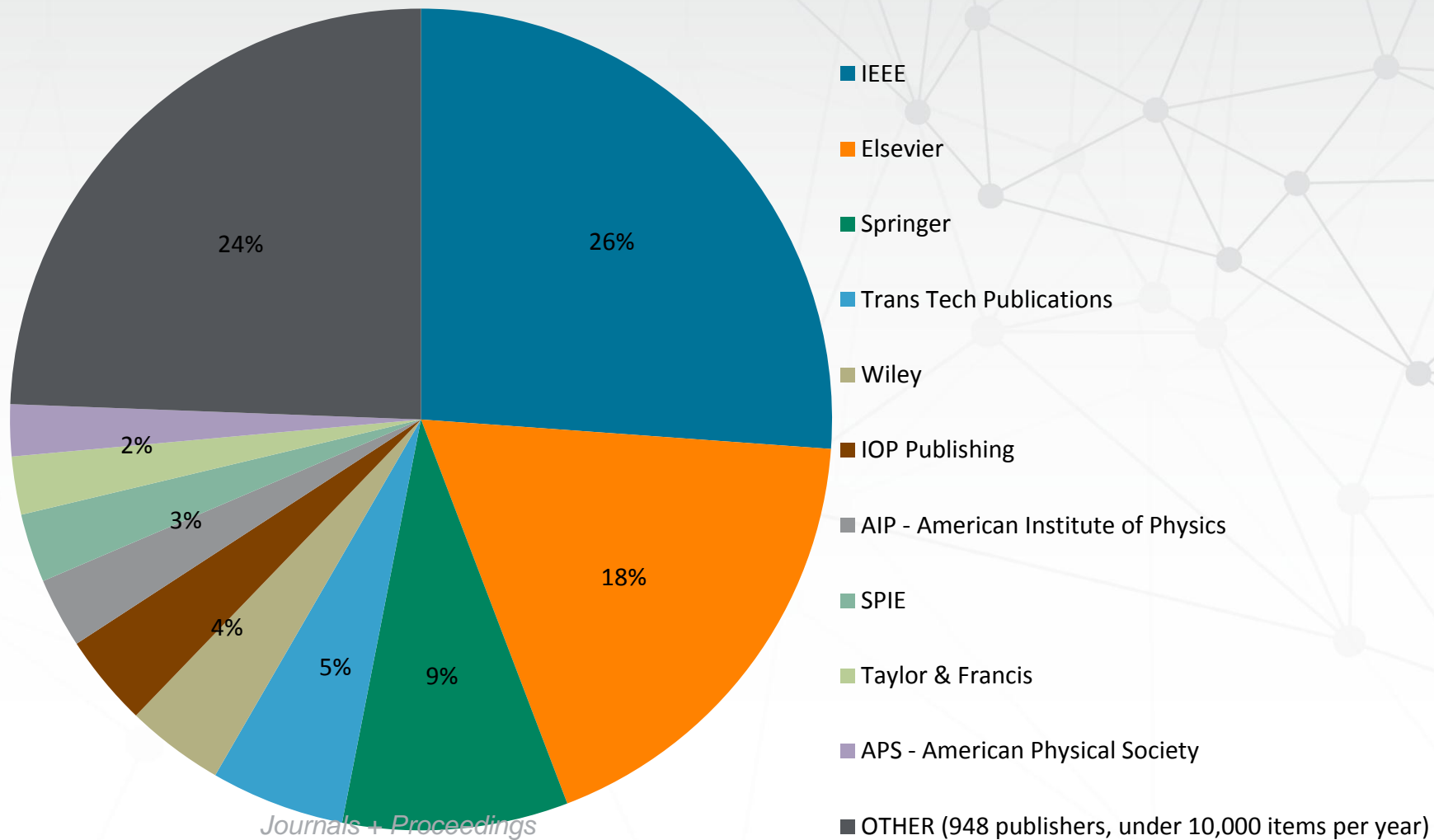


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- Or 1898 with the Archive



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Source: Inspec Source List (March 2015)

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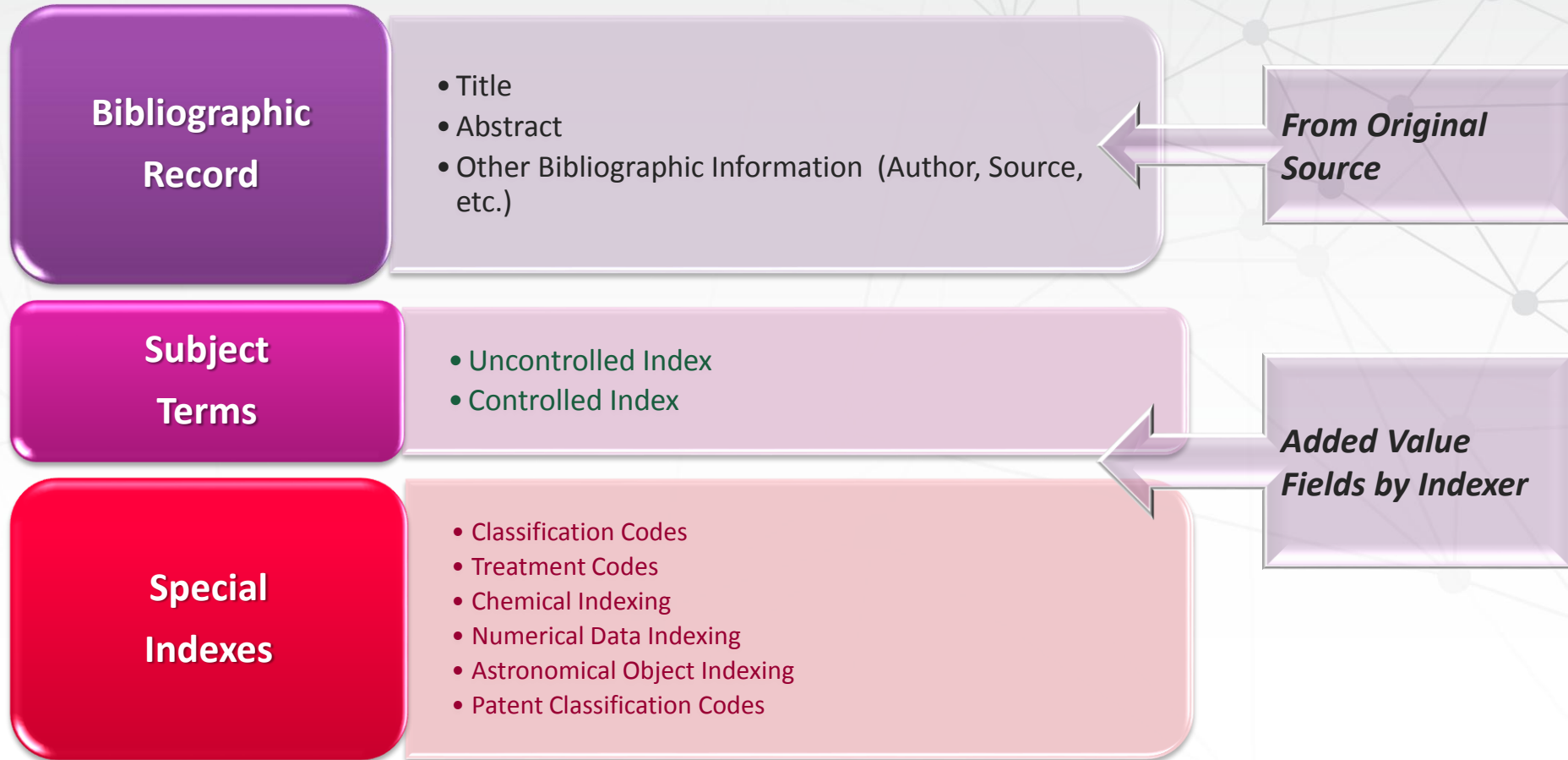
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The logo for arXiv.org, featuring the text "arXiv.org" in white lowercase letters on a red rectangular background.The ProQuest logo, with "ProQuest" in a serif font and a red stylized graphic element below it.

# Inspec: 数据分解





# Inspec: 语义链

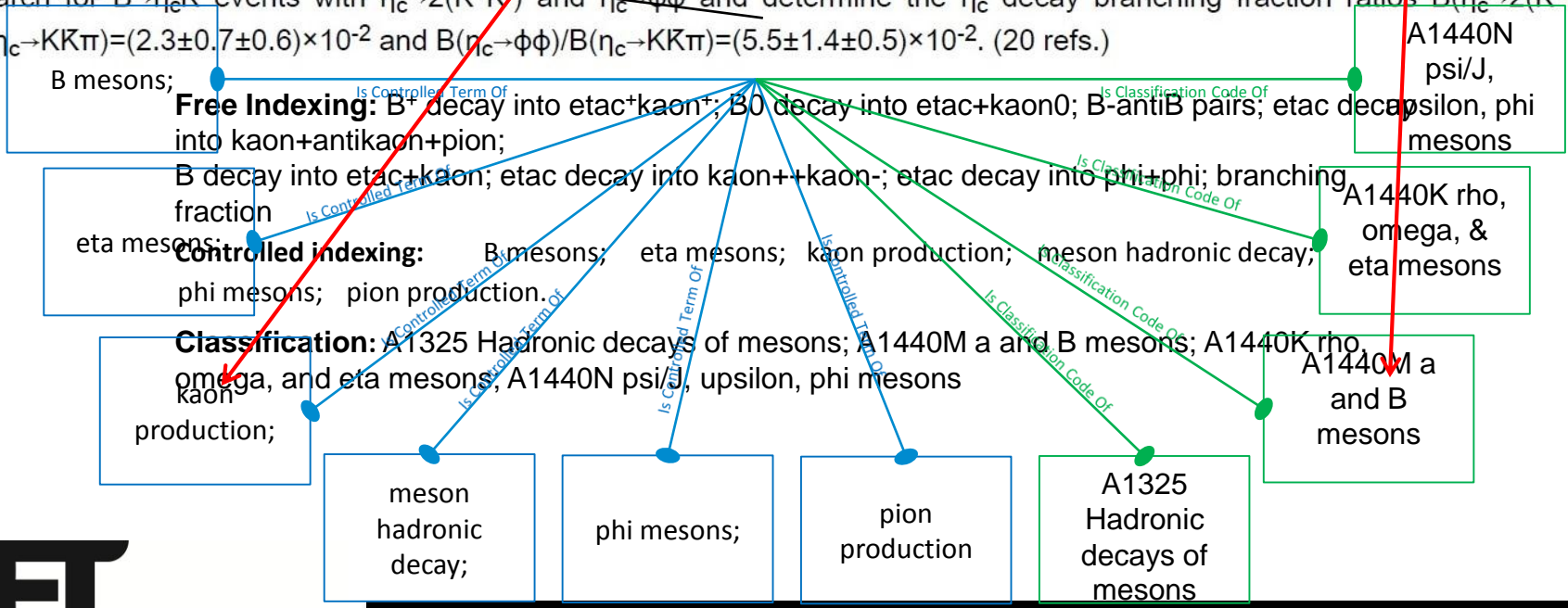
## Title: Branching fraction measurements of $B \rightarrow \eta_c K$ decays

Author(s): Aubert, B.; Barate, R.; Boutigny, D.; Couderc, F.; Gaillard, J.-M.; Hicheur, A.; Karyotakis, Y.; Lees, J. P.; Tisserand, V.

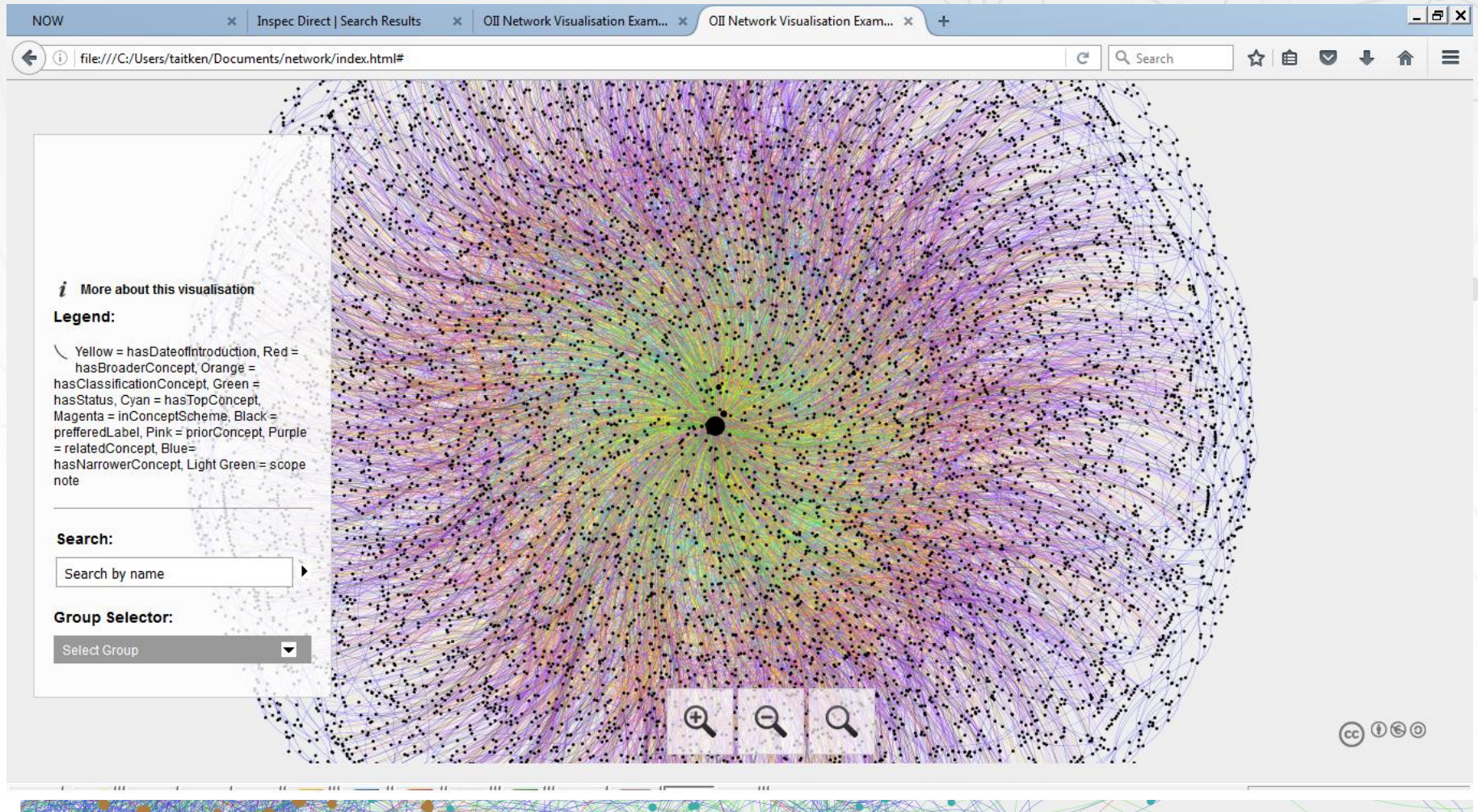
Affiliation(s): BABAR Collaboration, SLAC, Stanford Univ., CA, USA

Journal: Physical Review D

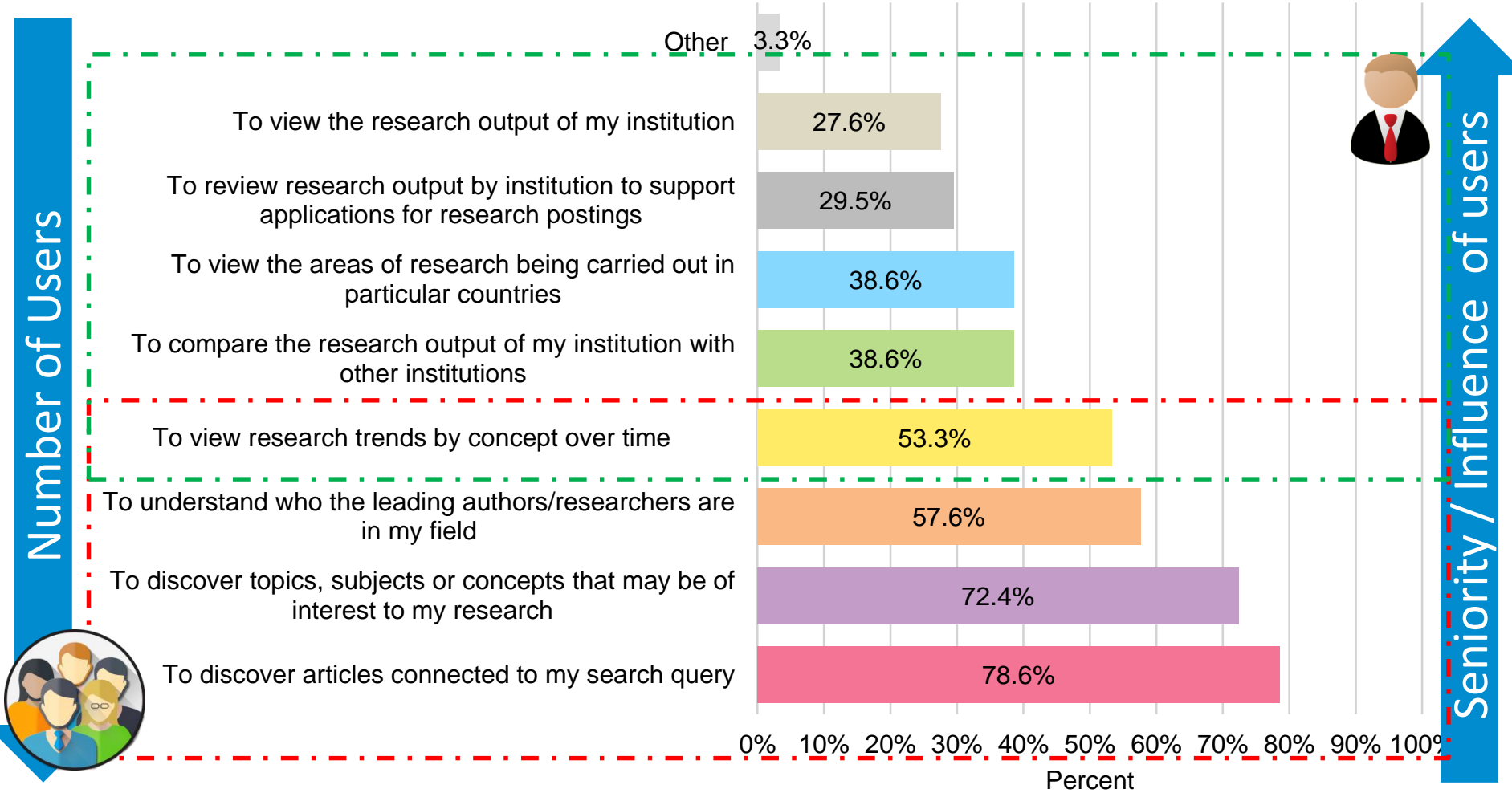
Abstract: We study the decays  $B^+ \rightarrow \eta_c K^+$  and  $B^0 \rightarrow \eta_c K^0$ , where the  $\eta_c$  is reconstructed in the  $K_S^0 K^\pm \pi^\mp$  and  $K^+ K^- \pi^0$  decay modes. Results are based on a sample of 86 million BB pairs collected with the BABAR detector at the SLAC  $e^+e^-$  B Factory. We measure the product of branching fractions  $B(B^+ \rightarrow \eta_c K^+) \times B(\eta_c \rightarrow KK\pi) = (7.40 \pm 0.50 \pm 0.70) \times 10^{-5}$  and  $B(B^0 \rightarrow \eta_c K^0) \times B(\eta_c \rightarrow KK\pi) = (6.48 \pm 0.85 \pm 0.71) \times 10^{-5}$ , where the first error is statistical and the second is systematic. In addition, we search for  $B \rightarrow \eta_c K$  events with  $\eta_c \rightarrow 2(K^+ K^-)$  and  $\eta_c \rightarrow \phi\phi$  and determine the  $\eta_c$  decay branching fraction ratios  $B(\eta_c \rightarrow 2(K^+ K^-)) / B(\eta_c \rightarrow KK\pi) = (2.3 \pm 0.7 \pm 0.6) \times 10^{-2}$  and  $B(\eta_c \rightarrow \phi\phi) / B(\eta_c \rightarrow KK\pi) = (5.5 \pm 1.4 \pm 0.5) \times 10^{-2}$ . (20 refs.)



# Inspect 知识图表 --- 工程学 & 物理学

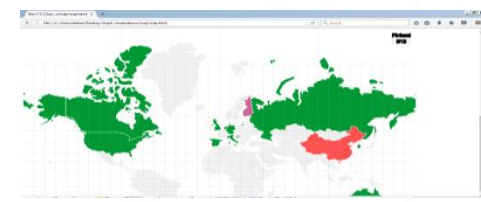
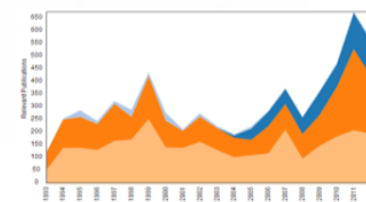
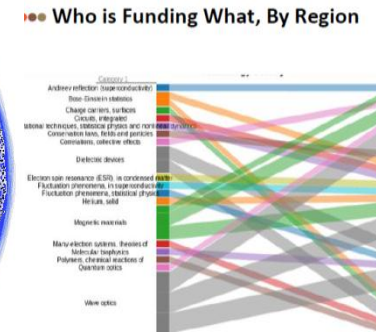
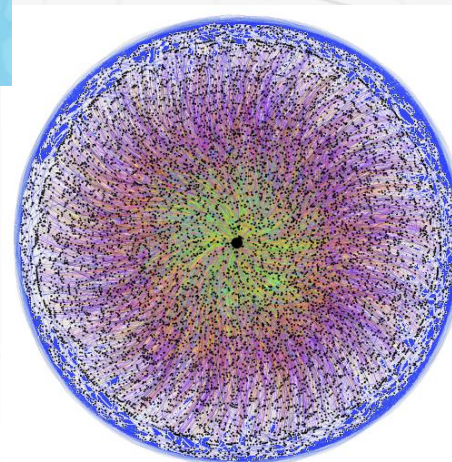
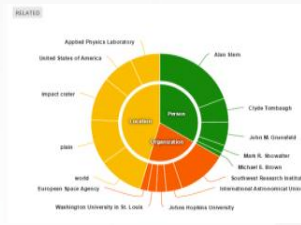
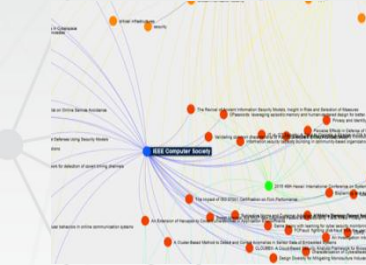
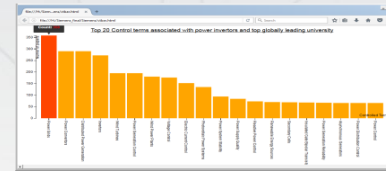
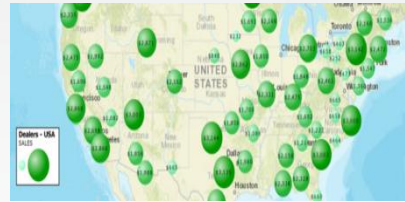


# 需求调查: How might you use Inspec Analytics?



# Inspec Analytics: 做什么?

- 文章曲线图
- 科研资金投入情况?
- 作者/机构关系图表
- 研究主题全球分布
- 科研主题趋势曲线
- 深度挖掘 学科/作者 之间的关系
- 专业领域全球城市分布
- 相关领域研究趋势分析





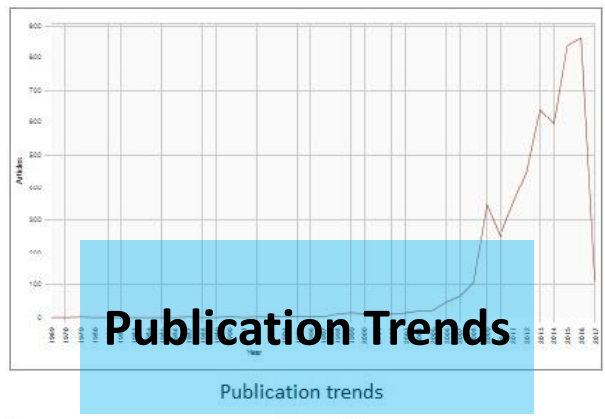


# 分析大数据并按需求进行可视化图表展示

## Graphene (Controlled Term)

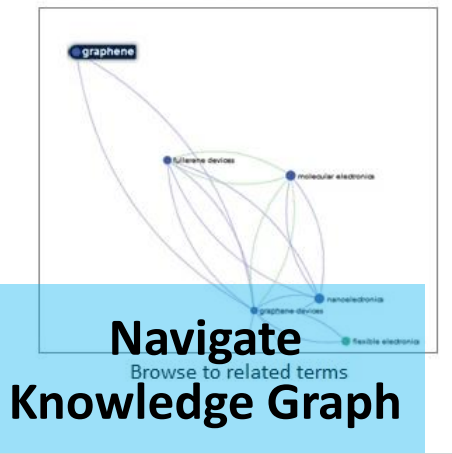
A thin layer of pure carbon; it is a single, tightly packed layer of carbon atoms that are bonded together in a hexagonal honeycomb lattice. In more complex terms, it is an allotrope of carbon in the structure of a plane of sp<sup>2</sup> bonded atoms with a molecule bond length of 0.142 nanometres. Layers of graphene stacked on top of each other form graphite, with an interplanar spacing of 0.335 nanometres.

It is the thinnest compound known to man at one atom thick, the lightest material known (with 1 square meter coming in at around 0.77 milligrams), the strongest compound discovered (between 100-300 times stronger than steel and with a tensile stiffness of 150,000,000 psi), the best conductor of heat at room temperature (at  $(4.84 \pm 0.44) \times 10^3$  to  $(5.30 \pm 0.48) \times 10^3$  W·m<sup>-1</sup>·K<sup>-1</sup>) and also the best conductor of electricity known (studies have shown electron mobility at values of more than 15,000 cm<sup>2</sup>·V<sup>-1</sup>·s<sup>-1</sup>). Other notable properties of graphene are its unique levels of light absorption at  $\pi\alpha \approx 2.3\%$  of white light, and its potential suitability for use in spin transport.



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

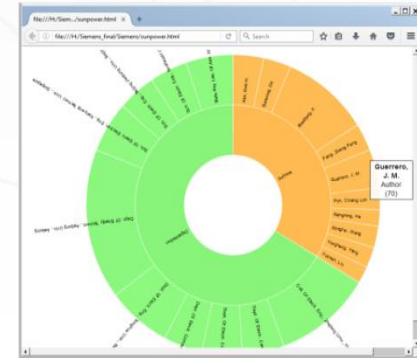
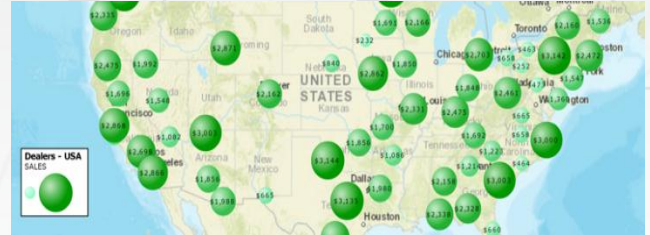
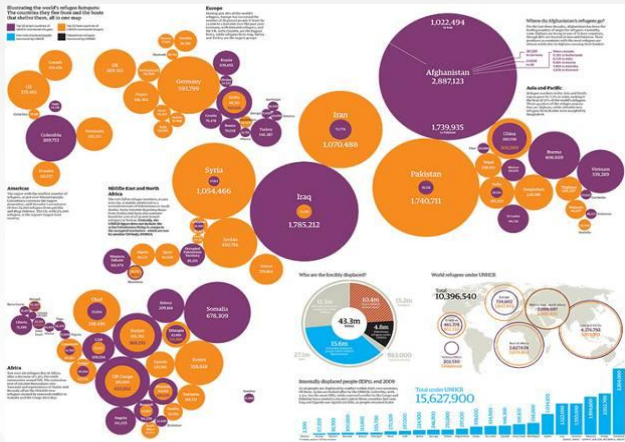
- Related Concepts**
- [A7360T](#) Electrical properties of graphene
  - [A7315N](#) Electronic structure of graphene
  - [A7865V](#) Optical properties of graphene
  - [A8120V](#) Preparation of graphene
  - [A6148](#) Structure of graphene



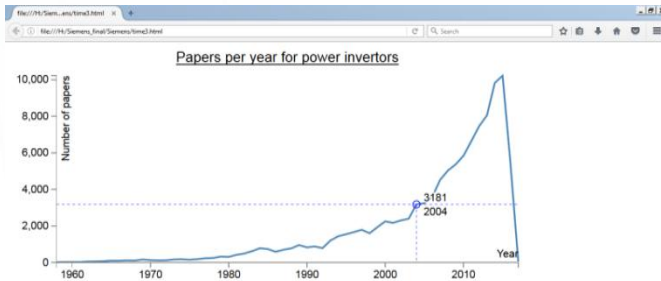
- Trending related hot topics & buzzwords**
- biosensor
  - carbon
  - dots
  - cea
  - conductive polymer
  - emission
  - gold-transferred graphene
  - graphene monolayers
  - nanomaterials
  - oxygen vacancies
  - pec
  - sensors
  - pedot
  - photoelectrochemical sensors
  - ultraclean
  - graphene
  - film

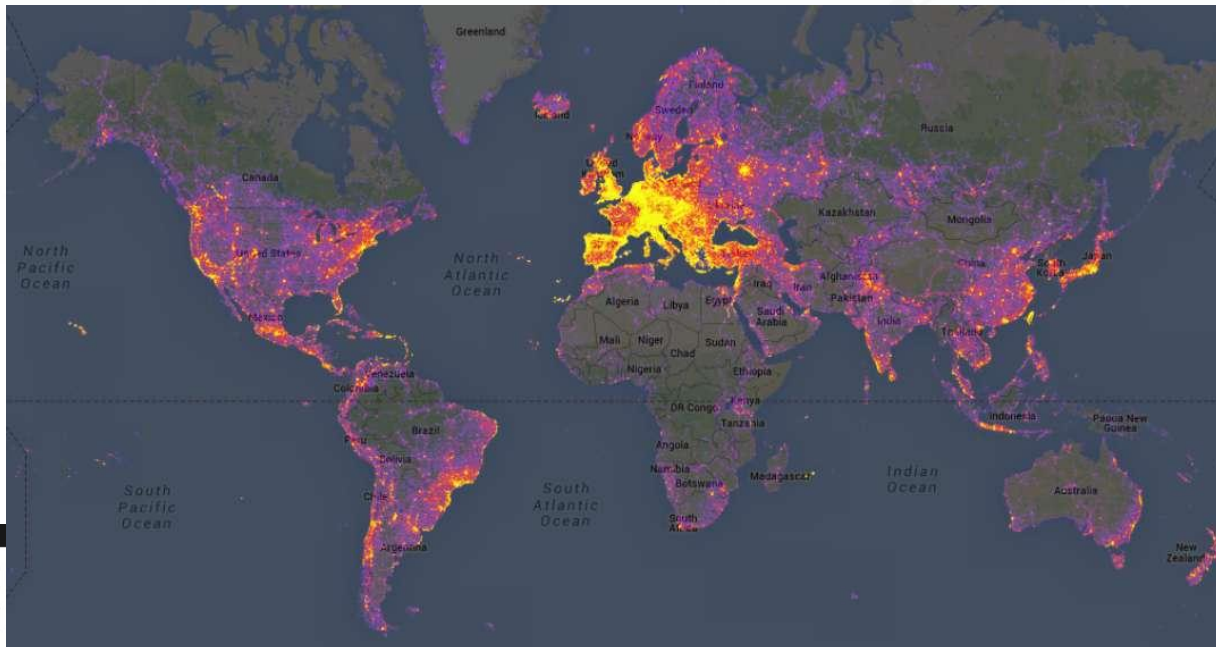
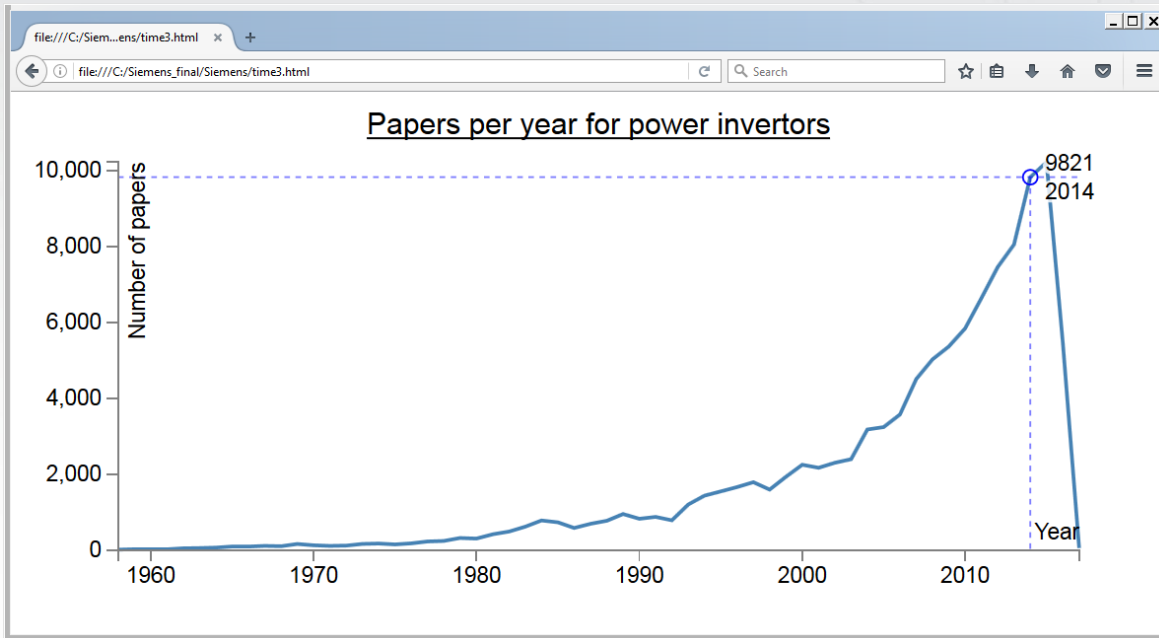


# 多种度量参数组合，衡量国家或机构科研产出



- 环向观察
- 趋势分析
- 研究方向地区分析
- 变化趋势
- 相关主题覆盖范围 (by institution etc)







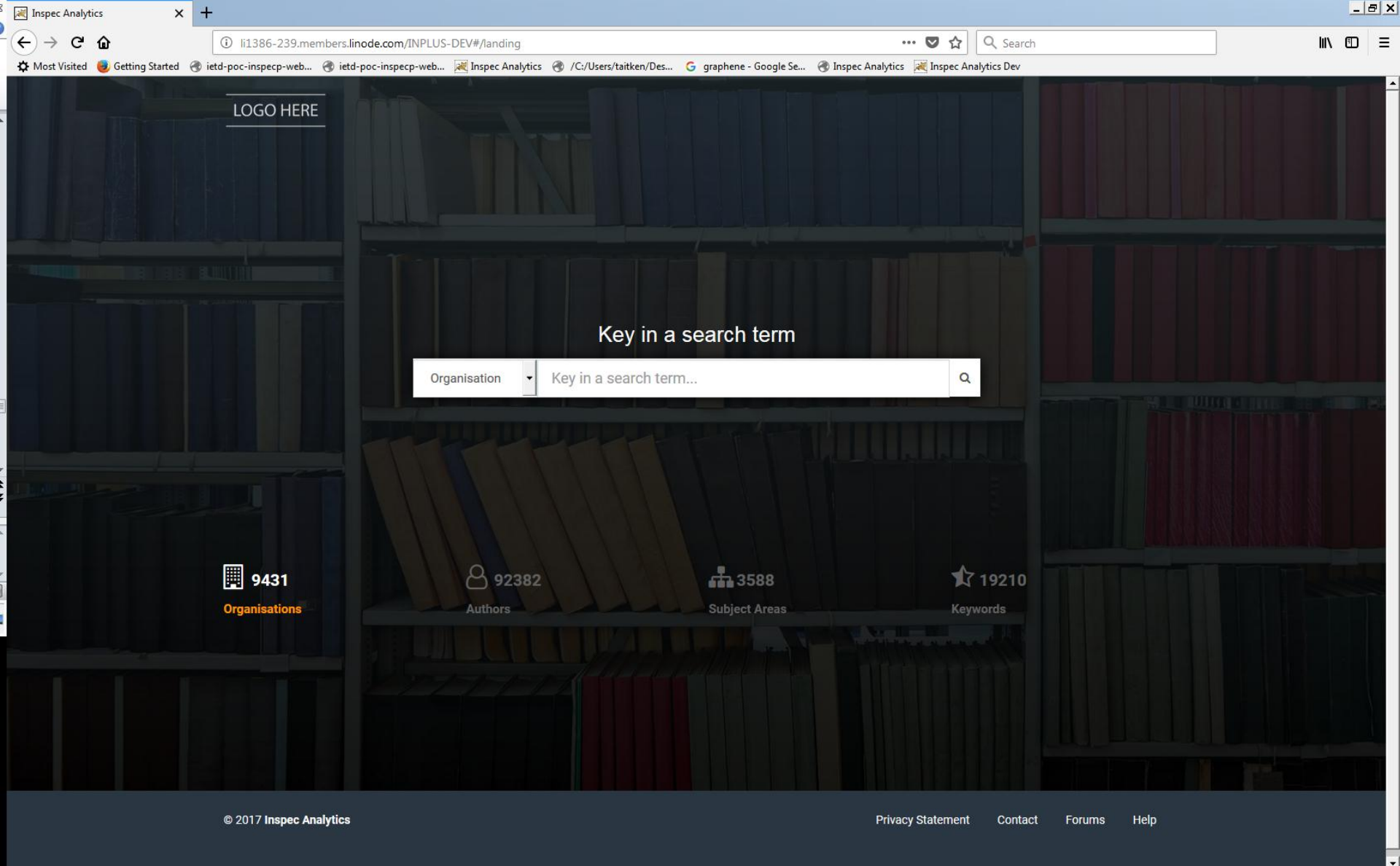
# MVP

A Minimum Viable Product (MVP)

我们将在5月推出初级版本，提供基础功能，并根据用户反馈持续对Inspec Analytics进行调试



It is not feature complete, it is not final deliverable. It is a milestone that helps define the future direction of travel, and to whet the appetite or demonstrate capabilities to a limited set of customers





# 总结

- Inspec 包含大量的高质量数据 – 新的数据处理方式可以为用户从数据中提取更多的意义, 多角度全方位进行数据揭示
- IET 知识曲线图
- 基于语义的聚类分析
- 语义搜索 & 可视化
- 为科研机构提供接口, 允许第三方开发人员自主开发定制网页和移动端app来调取Inspec数据
- MVP2018年5月即将上线

与IET相连，  
使您始终站在科技研究的前沿

**谢谢！**

联系方式：

梁奔 IET北京代表处

朝阳区 建国路118号招商局大厦10G

电话：010-6566-4687

[Bliang@theiet.org](mailto:Bliang@theiet.org)