

InnovationQ Plus 一个强大的创新发现与分析平台

整合了来自 IEEE 的深度工程技术文献及来自 IP.com 的全球专利与非专利文档。

依托 IP.com 独有的、基于语义分析的检索引擎，InnovationQ Plus 快速审查海量数据，高效定位相关专利、专利申请与非专利文献，并输出业界领先的检索结果。

1. 登录方式

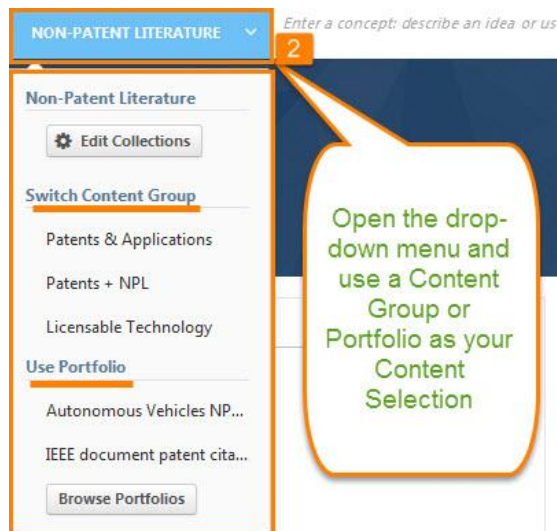
访问<http://ieee.ip.com>，输入邮件地址和密码。新用户需要先激活帐号。

2. 开始概念检索（Concept Search）


在首页检索框中输入关键词或段落即可开始检索。InnovationQ Plus 采用基于概念提取的语义检索，用户无需使用复杂的布尔查询，只需将检索词或一段文字甚至一篇全文输入提问框。

The screenshot shows the InnovationQ Plus web interface. At the top, there's a navigation bar with 'Discover', 'Map', and 'Analyze' tabs. The main search area has a large input box with the placeholder text 'What are you looking for?'. Below this, there's a dropdown menu for 'NON-PATENT LITERATURE' and a search button. A callout points to the InnovationQ Plus logo in the top left corner, stating: 'To start a new search, click on the InnovationQ Plus logo area and select New Query from the sidebar'. Another callout points to the search input box, stating: 'To start searching, select your content source and enter a concept or publication number'. Below the search area, there are two panels: 'Recent Queries' and 'Favorite Saved Queries'. The 'Recent Queries' panel shows a list of queries with timestamps and filters. A callout points to the 'CLEAR' button in the top right of this panel, stating: 'Click Clear to remove the list of recent queries'. Another callout points to the first query in the list, stating: 'Click the time to restore a recent query'. The 'Favorite Saved Queries' panel shows a list of saved queries. A callout points to the first query, stating: 'Click on the name to restore a favorite saved query'. At the bottom of the 'Recent Queries' panel, there's a note: 'These queries expire in about 24 hours and are not permanently saved.'

默认检索内容为“Patents&Applications”，如需检索其他内容（Non-Patent Literature, Patents + NPL, Licensable Technology）或在已创建的Portfolio中进行检索，则点击下拉菜单进行切换。



3. 开始布尔检索（Boolean Filters）

在首页检索框右下方点击  **Advanced Query** 可直接开始布尔检索。该检索方式为传统关键词检索，不进行步骤（2）中的语义联想。用户可以指定文献号、CPC 代码、IPC 代码或指定在题目、文摘或权力要求中开始关键词检索。



4. 调整检索式（Concept Modifiers & Boolean Filters）

调整检索式，可以点击 Query Editor 进行 1）概念缩检，输入概念调节词（Add Concept Modifier），选择“More Like Text”或“Less Like Text”，即可调整检索结果；或 2）布尔缩检，选择对应的布尔字段（Boolean Filters），即可调整检索结果。两者可以单独或组合使用。

Advanced Query Editor

Main Concept & Modifiers

CLEAR CONCEPT

These suspensions have greatly increased the concentration of electrically active material in the solutions, resulting in about a 10-fold increase in energy density (the amount of energy that can be stored in a given volume) and about 2.5 times the power density (the amount

+ Add Concept Modifier

More Like Text

Conductive Carbon

Boolean Filters

CLEAR FILTERS

Dates

Names

References

Text

Other

Publication Date

Current Assignees

Document Identifiers

Title

Enforceability

Application Date

Assignees/Applicants

Simple Family Numbers

Abstract

Countries Of Origin

Earliest Priority Date

Inventors

IPC Codes

Description

Litigation Status (US)

Examiners

CPC Codes

Claims

Advanced Syntax

Pin to show available fields

5. 公司名称、组织架构信息查询（Corporate Tree）

InnovationQ Plus整合了来自S&P Global Market Intelligence的业界最完整最权威的公司结构信息库。从Corporate Tree中可以查询基于标准普尔全球市场情报公司的关系数据，收录10万多名公司名称演变、组织架构与财务信息。在平台下拉菜单中点击“Corporate Tree”即可开始查询。

InnovationQ PLUS

POWERED BY IEEE AND IP.COM

New Query

Add Item

Manage Items

Corporate Tree

Alerts

Delivery Center

Corporate Tree既包含大型上市公司和小型私人企业信息，也收录其并购、收购和子公司信息。其与Current Assignee对接，支持创建更精确更完整的公司专利档案。

Corporate Tree Browser

S&P Ultimate Parent

Alphabet Inc.

a.k.a. GOOGLE INC

HEADQUARTERS

Mountain View, California, United States

TYPE

Public Company

STATUS

Operating

INDUSTRY

Internet Software and Services

75 children available

Child Companies with Patents

Adometry, Inc.

Texas, United States | Private Company | Operating Subsidiary | Internet Software and Services

Adscape Media, Inc.

California, United States | Private Company | Acquired | Media

Agawi Inc.

California, United States | Private Company | Operating Subsidiary | Internet Software and Services

Anvato Inc.

California, United States | Private Company | Operating Subsidiary | Internet Software and Services

Apl.ai

California, United States | Private Company | Operating Subsidiary | Internet Software and Services

Child companies include Acquisitions and Operating Subsidiaries

Options

Build Portfolio

Save as Term List

Load in Discover

Quick CSV Download

Cancel

< Back

76 Selected

ip.com IEEE

6. 检索结果展示

检索结果显示如下，结果列表默认按相关度排列，右边区域则显示文献具体内容。

1. Battery electrolyte suspension
CURRENT ASSIGNEES: WORCESTER POLYTECHNIC INST
US9293777 | US PATENTS | 22-MAR-2016

2. Carbon nanotube based electrode materials for high performance batteries
CURRENT ASSIGNEES: MYSTIC TECH PARTNERS
US20120045691 | US APPLICATIONS | 23-FEB-2012

3. Metal sulfide composite materials for batteries
CURRENT ASSIGNEES: GEORGIA TECH RSCH CORP [+1]
US20150236372 | US APPLICATIONS | 20-AUG-2015

4. Method of producing electrode material for lithium-ion secondary battery and lithium-ion battery using such electrode material
CURRENT ASSIGNEES: HYDRO QUEBEC [+1]
EP2909879A1 | EUROPEAN APPLICATIONS | 26-AUG-2015

5. Method of producing electrode material for lithium-ion secondary battery and lithium-ion battery using such electrode material
CURRENT ASSIGNEES: HYDRO QUEBEC [+1]
US20150270554 | US APPLICATIONS | 24-SEP-2015

6. Electrodes for energy storage devices with solid electrolytes and methods of fabricating the same
CURRENT ASSIGNEES: SILA NANOTECHNOLOGIES INC
US20140170503 | US APPLICATIONS | 19-JUN-2014

7. High energy density flow batteries
CURRENT ASSIGNEES: WORCESTER POLYTECHNIC INST
US20130323611 | US APPLICATIONS | 05-DEC-2013

8. Battery electrode structure
CURRENT ASSIGNEES: OXIS ENERGY LTD
US20140323611 | US PATENTS | 23-DEC-2015

US9293777 Battery electrolyte suspension

Front Page | Family (2) | Citations | Description
Claims | **Figures (6)** | Pages (10) | Legal | Litigation (0)
Notes

UNITED STATES PATENT | USPTO | EPO

PUBLICATION NUMBER: US 9293777 B2
APPLICATION NUMBER: US 13/892,478
SIMPLE FAMILY NUMBER: 49670633

PUBLICATION DATE: 22-Mar-2016
FILING DATE: 13-May-2013
EARLIEST PRIORITY DATE: 14-May-2012

PRIMARY INFORMATION (SOURCE: USPTO) | FIGURES

Abstract (English):
A flow battery employs a solid suspension charge material to maintain high charge density via stability of a suspension including a binder, conductive carbon and an electrolyte. A cathodic suspension employs carbon powder as a stabilizing agent in a suspension form to avoid precipitation of solids and maintain a high surface area of the suspended solids. The stabilizing agent undergoes agitation and milling to reduce a particle size and increase the charge density due to the conductive nature of the fine powdered stabilizing agent exhibiting high energy density. The resulting suspensions are circulated in a charge cell connected to a load for providing electrical power.

Inventors:
Wang, Yan (Shrewsbury, MA, US) • Apelian, Diran (West Boylston, MA, US) • Bai, Yang (Worcester, MA, US) • Li, Wenhuan (Worcester, MA, US)

检索结果相关度可以根据需求自定义设定。

Cut-off: ★ 3

Relevance Score

No Relevance Cut-off

★★★★★ (0.800)

★★★★★ (0.600)

★★★★★ (0.400)

★★★★★ (0.200)

★★★★★ (0.000)

Custom: 0.500

9308 results

Top 1500 results

Relevance

VIEW

0 Results ★ 5

220 Results ★ 4

1280 Results ★ 3

★ 2

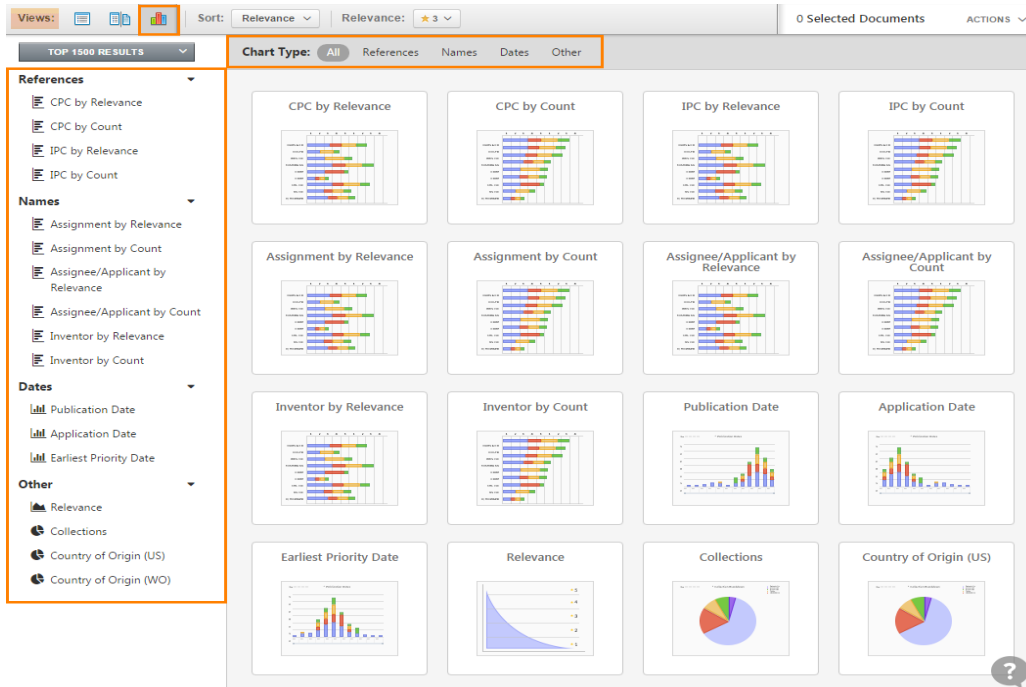
★ 1

Publication Date

VIEW

Click VIEW to display the Relevance Graph

从检索结果列表方式切换到可视化方式显示，可视化图像按多个组分类 References, Names, Dates 和 Other.



7. 检索非专利文献

InnovationQ Plus包含超过400万篇的IEEE期刊、会议、标准文献以及IP.com的现有技术数据库等其他非专利文献。首页检索框默认检索内容为” Patents&Applications”，如需检索其他内容（Non-Patent Literature, Patents + NPL, or Licensable Technology）则点击下拉菜单进行切换。



系统自动选择IEEE内容，如需要检索其他非专利文献，可点击“Edit Collections”进行选择。

Edit Collections

NON-PATENT LITERATURE (4 of 11)

CHECK ALL | CLEAR ALL

[VIEW COVERAGE](#)

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> IEEE Xplore Publications | <input type="checkbox"/> Prior Art Database | <input type="checkbox"/> Other Literature |
| <input checked="" type="checkbox"/> IEEE Periodicals | <input type="checkbox"/> The IP.com Journal | <input type="checkbox"/> IBM Redbooks |
| <input checked="" type="checkbox"/> IEEE Conferences | <input type="checkbox"/> Internet Society RFC | <input type="checkbox"/> PubMed Central |
| <input checked="" type="checkbox"/> IEEE Standards | <input type="checkbox"/> IBM TDB Archive | |
| <input checked="" type="checkbox"/> IEEE Early Access | <input type="checkbox"/> Legacy Journals | |
| | <input type="checkbox"/> Software Patent Institute | |

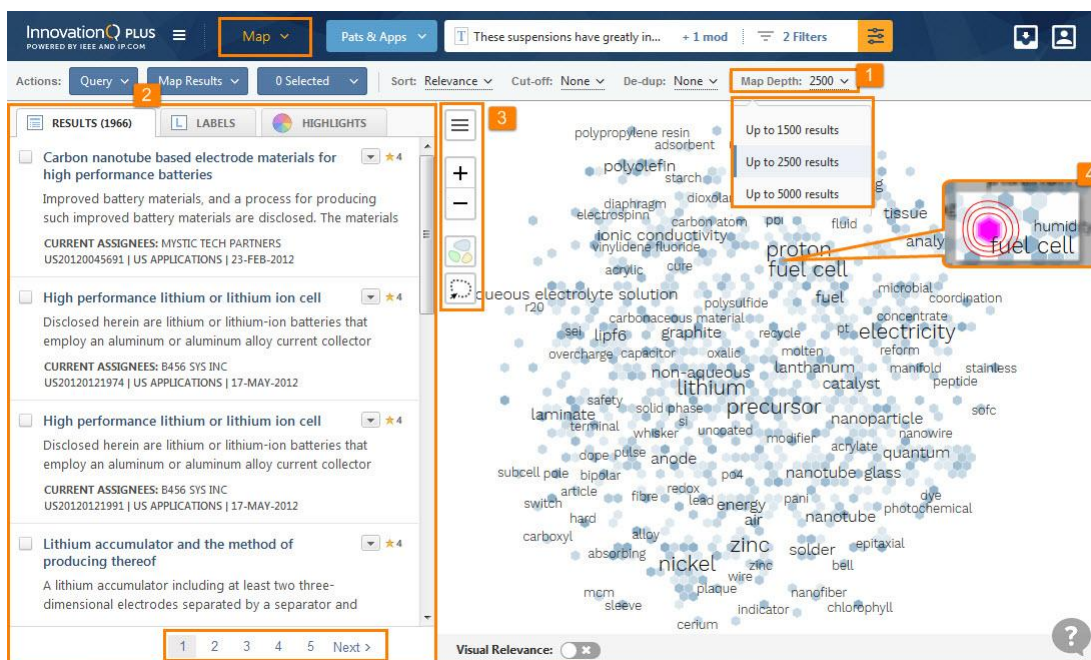
☒ Save as defaults for this group

8. 专利地图（Map）查看专利全景

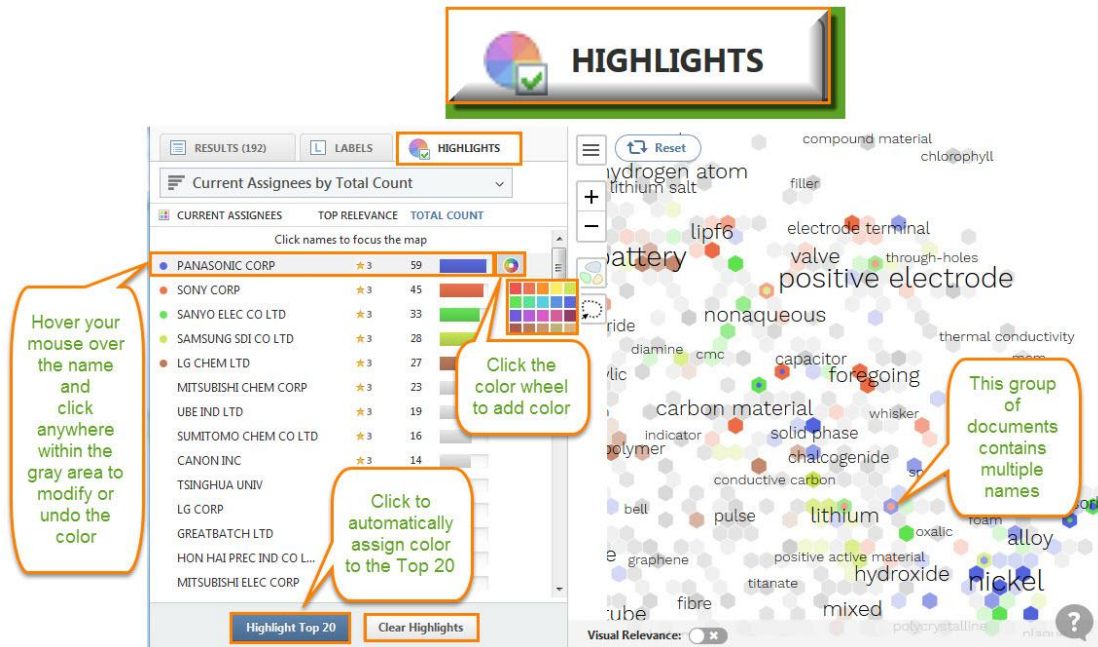
从首页下拉菜单中点击“Map”切换到专利地图。



Map基于原文内容所提取的概念和含义，对关键文档进行可视化展示。用户轻松识别专利空白区，按受让人快速高亮显示其拥有专利。概念越大代表相关文献越多，在地图上越重要。地图上每个六边形代表一组文献，蓝色深度代表密集度，蓝色越深文献越多，反之则越少。



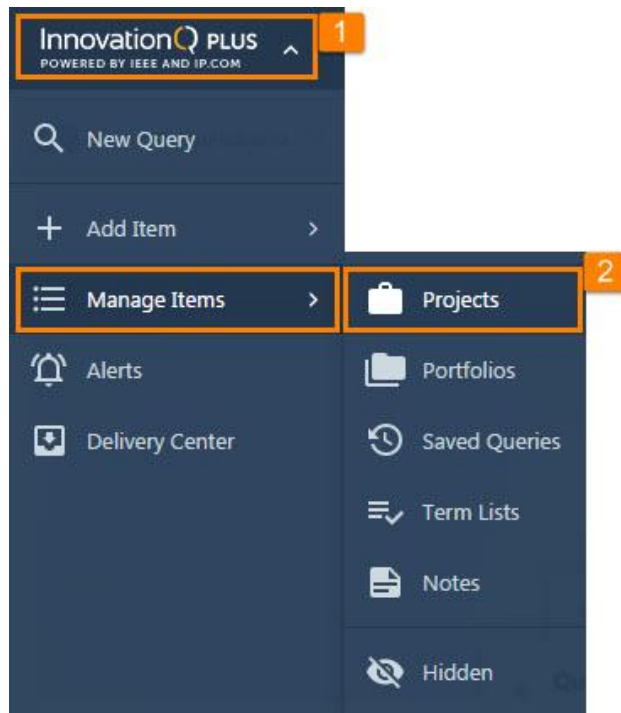
Map可视化显示各专利权利人持有专利分布情况，从而辅助专利竞争态势分析。



9. 工作管理与分享 (Manage)

用户可利用协作工具与同事分享信息，通过保存检索结果和设置更新提醒来管理文件夹，快速导出报告、结果和图表。

用户可以点击“Manage Items”区域，从左边栏可保存提问，保存词表，创建报告，下载表格以及创建专利档案。



The screenshot shows the 'Project Viewer' interface. At the top, there's a 'View Projects' button. Below it, the project name 'Battery Solutions' is displayed, along with 'Hide Project' and 'Remove Project' buttons. A navigation bar includes 'Summary' (selected), 'Membership', 'Comments', 'History', and 'Settings'. The main content area is divided into three sections:

- Project Info:** Shows 'Type: Private', 'Created: 2016-09-20 18:20 UTC', 'Owner: Generic User', and a 'Description' about suspensions increasing energy density. A 'Show more' link is present.
- Recent Comments:** Displays a message: 'Commenting is not enabled. Enable commenting' with a speech bubble icon.
- Project Contents:** Lists various items with 'View' links:
 - Portfolios (2) - Updated 2017-04-12 14:26 UTC
 - Saved Queries (3) - Updated 2017-04-11 14:55 UTC
 - Term Lists (1) - Updated 2017-03-17 15:12 UTC
 - Document Notes (1) - Updated 2017-03-31 20:11 UTC
 - Attached Exports (4) - Updated 2017-03-31 20:08 UTC

At the top right of the Project Contents section, it says 'This project is currently Private' with a 'Share' button.

10. 专利分析(Analyze)

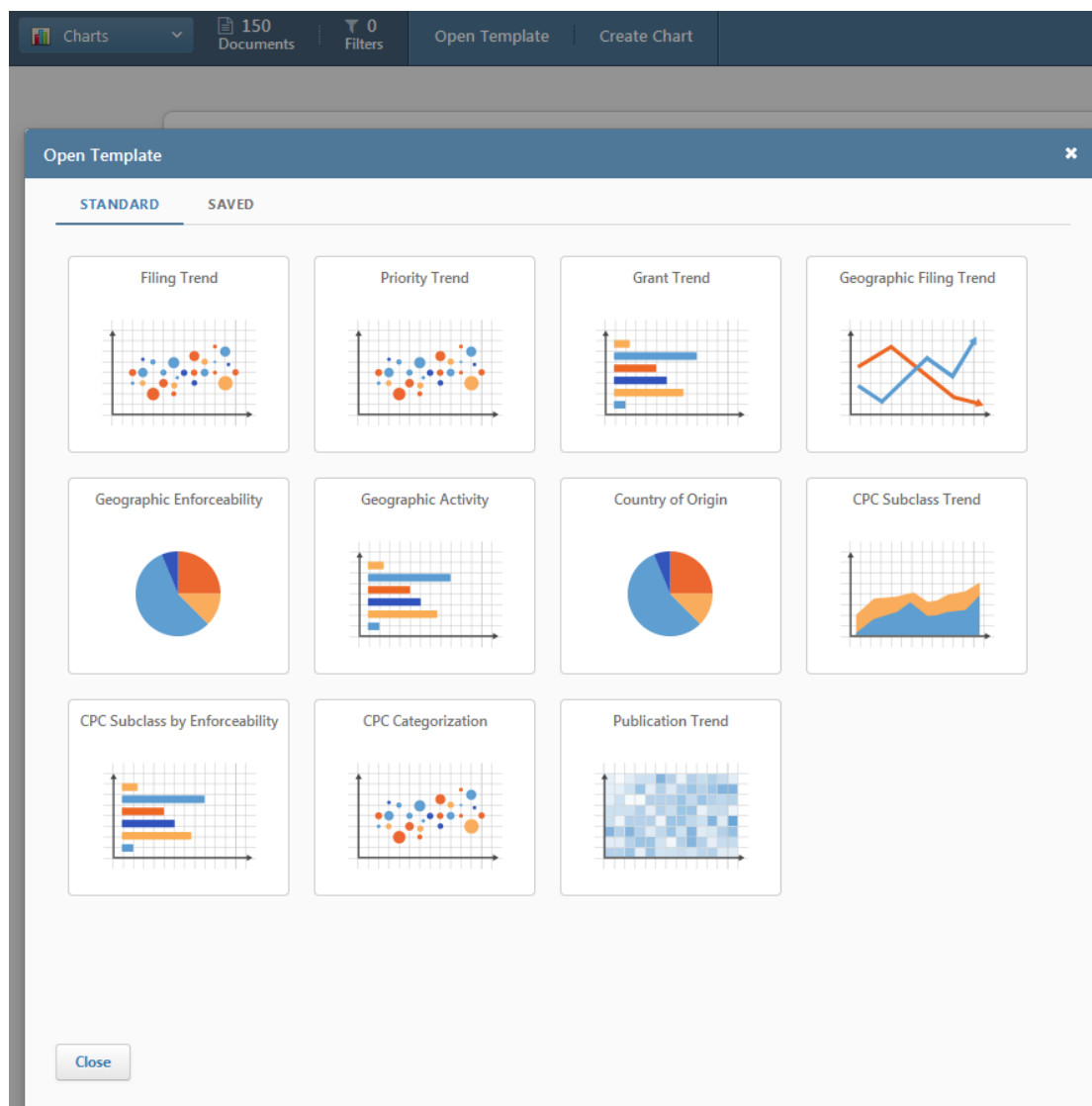
分析（Analyze）模块可以对用户已识别的重要专利进行深度剖析。Analyze针对用户选择保存到Portfolios里的专利集合进行自定义分析展示，用户可以从多角度快速理解海量数据所包含的关键信息。

开始专利分析，首先选择目标“Portfolios”，导入之前保存的关键专利集合。然后用户可以从不同视角Overview, Triage 和Charts开始专利组合分析。

The screenshot shows the 'InnovationQ' 'Analyze' module interface. The top navigation bar includes 'Manage', 'Discover', 'Map', and 'Analyze' (selected). Below the navigation bar, there's a 'Select View' dropdown menu with options: 'Overview' (checked), 'Triage' (checked), and 'Charts' (checked). The main content area has a 'Welcome to Analyze' message and a description: 'Analyze gives you dynamic methods to visualize your data to spot unique patterns, trends, and relationships.' Below this, there are two buttons: 'Start New Analysis' and 'Continue Prior Analysis'. At the bottom, there are three computer monitors representing different analysis views:

- Overview:** 'View a summary of your data.' (indicated by a green checkmark)
- Triage:** 'Review and organize your data.' (indicated by a green checkmark)
- Charts:** 'Chart your portfolios using the data that matters to you.' (indicated by a green checkmark)

用户可选择标准模板或自定义模式进行专利数据分析。



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创新更有价值



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