Discovery and Altmetrics – a Dual Vision for the Future of Research in the World of Big Data 資源探索服務與補充/替代計量- 大數據下全球研究發展趨勢的一體兩面



公丕儉 (EBSCO) 2016年11月

The Evolution of Discovery since 1960...

- 1960 Library OPAC, mainly for print collection
- 1990 rise of electronic collections
- 1999/2000 Google/Baidu
- 2001 first link resolver and A-Z (SFX, 360, Linksource)
- 2002 first Discovery layers for local catalogues
- 2003 First federated search
- 2009 Summon / Primo First discovery services: primarily full text indexing and title-based relevance
- 2010 EDS Integration of Abstract and Indexing / subject indexes for richer indexing and more precise relevance, (PsycINFO, Inspec, MathScinet, Biological Abstracts, Econlit, RILM, Medline...)
- 2015 ProQuest acquired ExLibris
- 2016 EBSCO supports new open source project: FOLIO

ProQuest and EBSCO Information Services have opposing visions for resource management and discovery, and the stage is now set for a new round of competitive discourse. These visions center on whether discovery should be bundled with resource management or if libraries should have the ability to select discovery products independently.

Library Systems Report 2016, Power plays, By Marshall Breeding, May 2, 2016 https://americanlibrariesmagazine.org/2016/05/02/library-systems-report-2016/

競爭 開放 封閉 what happens when a library Implements DISCOVERY

Evolution of Discovery

First generation discovery brings content from many different specialized databases into a single interface searchable by keyword.

Next generation discovery is truly intelligent: It leverages the strengths of these specialized databases (content, metadata, subject indexing) synergistically to enhance discovery.

Open Access Content

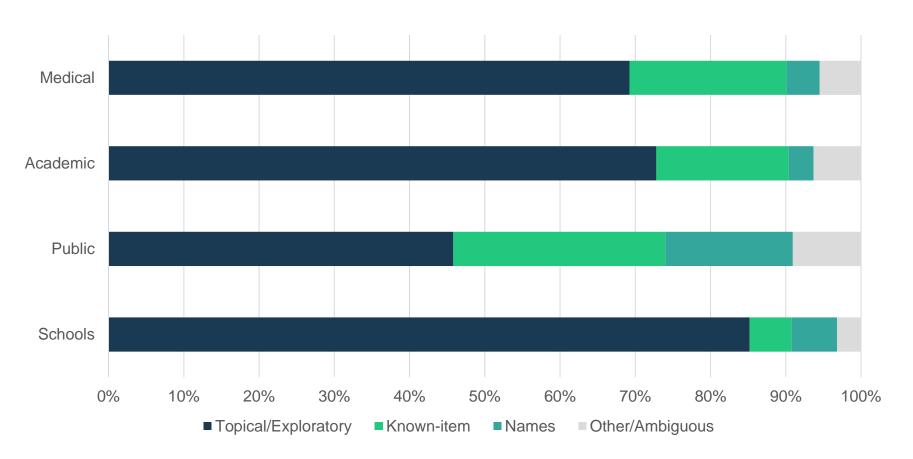
Enhanced Subject Precision

What is it?

Enhanced Subject Precision is a RELEVANCE RANKING **ENHANCEMENT** for topical searches

Topical Search Dominates

Topical search dominance applies to all communities / searches



Based on one-week sample of randomly selected EDS search queries by market (Sept-2014)

What it's not

Enhanced Subject Precision is **not**simplistic keyword expansion.
Keyword expansion increases hit
count, but does little to improve search
precision, which is what matters most.

"The World Loves AppStores"



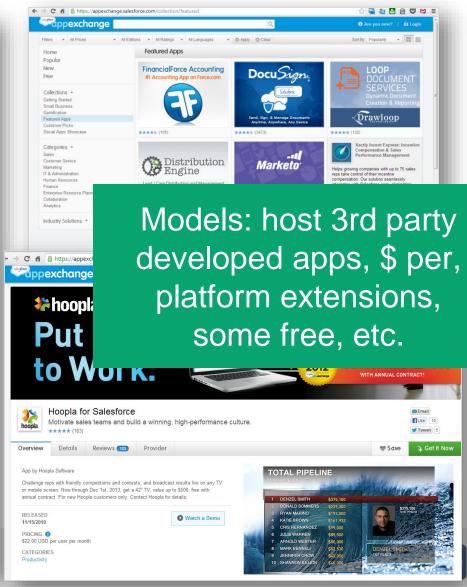
It's hard to believe that only a few years the very notion of an "application store" was something new. Fast forward to today and there's not many people who don't use app stores on a day to day basis — app stores are perhaps the best example of how, software is redefining the way we work, live and play. The generation of app stores where mainly consumer focused — between Apple with the AppStore and Google with the Android PlayStore, AppStores have



English: salesforce.com Deutsch: salesforce.com Français : salesforce.com (Photo credit: Wikipedia)

created a new way for individuals to meet all their application functionality needs and, even more interesting from an industry perspective, have created an entire new class of entrepreneurs building applications for these app stores.

But the utility that app stores bring is not exclusive to the consumer space — enterprises can also benefit from giving their employees and other stakeholders a single location to get all of their applications. Applications are a real driver of organizational productivity, but traditional approaches to application choice and delivery has resulted in a complex and stressful task for IT departments, add to that the fact that end users often don't receive the applications they want and the disconnect is obvious — enterprise app stores replace an annoving process of discovery. IT assessment. IT help desk



Questions:

 What specific apps or types of apps did you find interesting?

 What other areas of content or functionality in your libraries are ripe for an app solution?



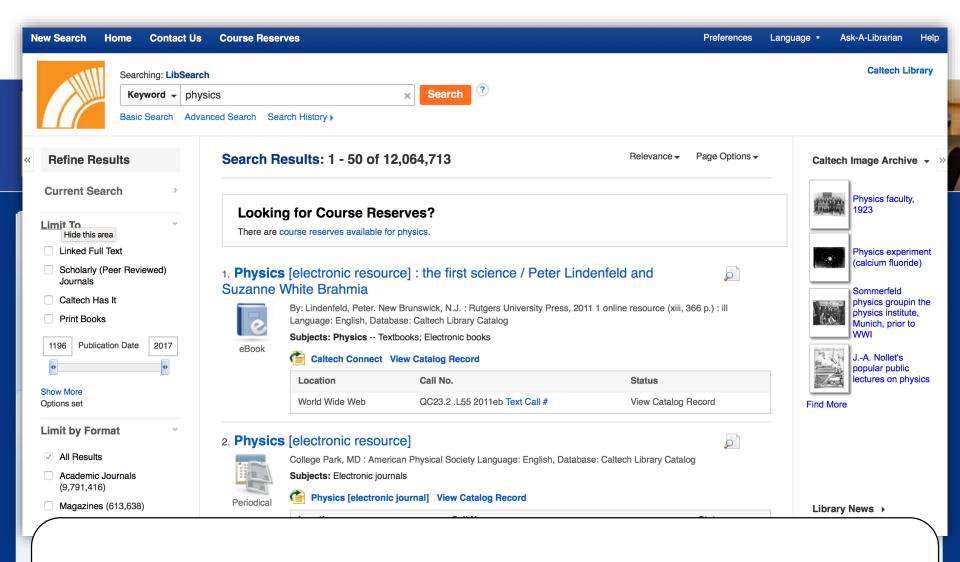
Search – Technology Strategy

Three techniques for guiding users to intended results and displaying the most relevant results on Page #1

- 1. Suggestion Placards
- 2. Autocomplete
- 3. Concept-Aware Search



Highlights from other academies



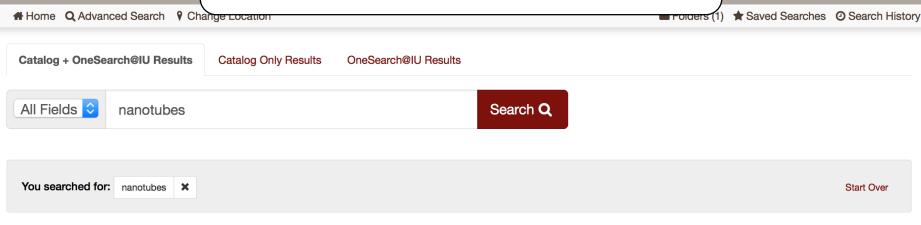
Apps and Widgets Galore



Blacklight via EDS API

ILL/Recall Login/My Account

View all OneSearch@IU results



Catalog Results

1 - 10 of 361 results View all catalog results 1. Self-Assembled Nanomaterials II Nanotubes Author: Shimizu, Toshimi Publication Date: 2008 Language: English Format: Book Online Resource Bloomington, Indianapolis, Columbus Copies At: 2. Carbon nanotubes new research Publication Date: 2009 Language: English

Book Online Resource

Southeast Bloomington Fast Indianapolis Kokomo

OneSearch@IU Results

1 - 10 of 705052 results

Peapods

1. C60/Collapsed Carbon Nanotube Hybrids: A Variant of

Barzega, Hamid Reza, 1977-, Author^{1,2,3,4}, Academic Journal

Gracia Espino, Eduardo, Author^{1,2,5};

Wågberg, Thomas, Author^{1,2}; Umeå universitet, Teknisknaturvetenskapliga fakulteten, Institutionen för fysik,

Originator; Umeå...

Published In: Nano letters (Print). 01/01/2015 15:829-834

Publication Type: Academic Journal

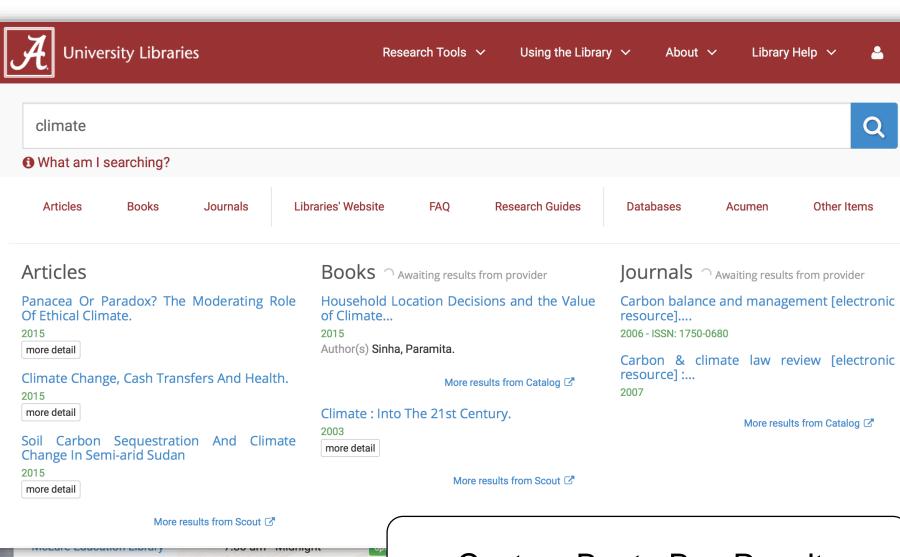
> Availability: Please log in to see full-text options

2. Carbon Nanotube Optoacoustic Lens and Its Applications

L.H. Tong; C.W. Lim; S.K. Lai; Y.C. Li



Format:



Custom Bento Box Results

TUSCALOOSA Ala -- What do harbeque sauce blue cheese library deans



7:45 am - 2 am

Rodgers Library

® Expander: Also search within the full text of the articles

LOCATION-

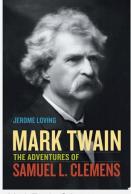
PUBLISHER-

FORMAT-

LANGUAGE+

Showing 1 - 20 of 1150006





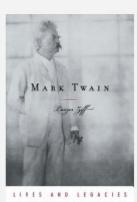
Mark Twain. [electro...



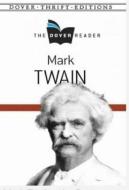
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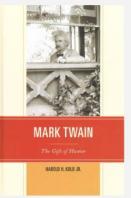
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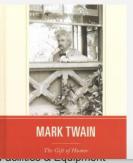
Mark Twain. [electro...



Mark Twain : the Dov...



Mark Twain: the gif...



For Faculty
For Alumnae
For SSW Students

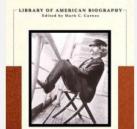
more •

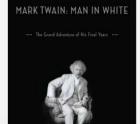


Hours

more •

Sophia Smith Collection





Out-of-the-box Thinking with the API

10:00am - 5:00pm

all hours >

Research + Usage = Research +

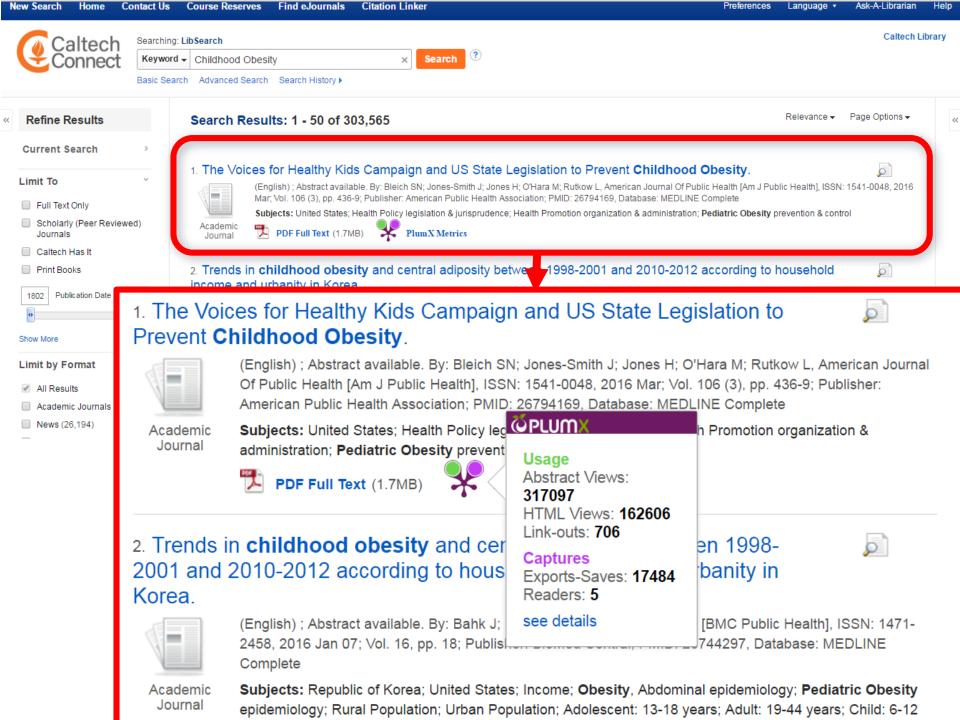


Metrics / Altmetrics
(Faculty /
Researchers)



Library Resources Usage

(Students / Faculty)

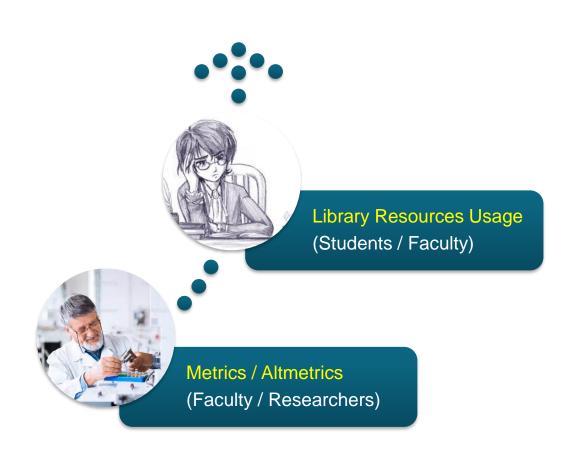


Baidu Xueshu Apps

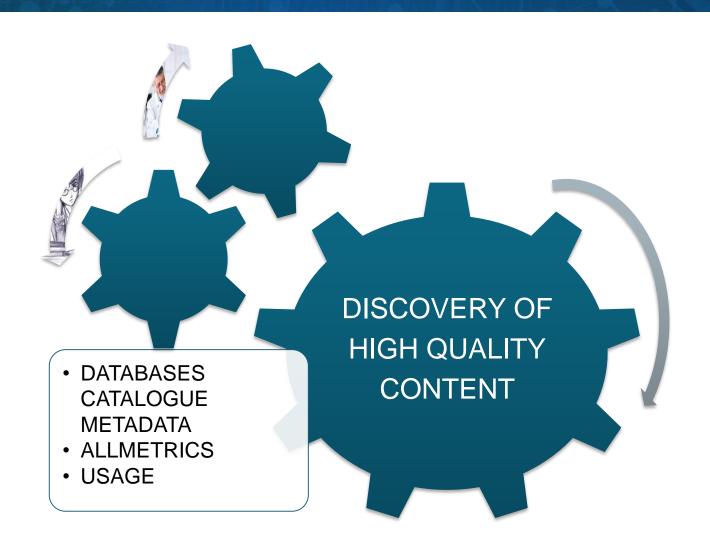




Research: input and output



Connecting the Research to Researchers (將科研與研究人員串連)



Quantity vs. Quality

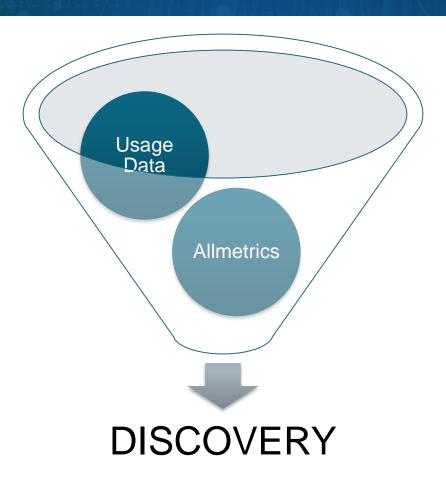
- Quantitative increase is positive but it does not indicate which results are the most appropriate for research
- Did the best results appear on the first few pages of results?
- Was the result from the discovery service as good as the result from an academic database or Google / Baidu?
- Is the end user finding what they want or just clicking on what they think they want?
- Is there any quality control over the research process when discovery services are implemented?
- Known item (e.g. book) versus unknown item (based on topic)

- 數量增加是好,但無法指出哪些結果是 對研究最適合的
- 最佳的搜尋結果是否被列在最前幾頁?
- · 探索服務提供的搜尋結果是否與學術資 料庫或Google/Baidu一樣準確?
- 使用者是否查找到他們想要的或者僅僅點擊了他們以為是他們想要的?
- 在導入探索服務時,是否有品質管理?
- 已知檢索(例如:書名)VS未知(大方向 主題)

The Past



The Present



The Future





Librarian vs. User



The Future of Libraries is Open

EBSCO

THANK YOU! QUESTIONS?

公丕儉



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