

### Analyzing the Scholarly Conversation: New **Tools for Efficiently** Finding, Evaluating, and Visualizing Research

J. Denice Lewis Friday, June 3, 2022





#### Agenda

What is Denice's why?

How we search now

Adding qualitative to the quantitative

Assessing your resources: Identifying retractions, withdrawals, etc.

Visualizing your search results

Integrating artificial intelligence and information literacy

Connecting with Denice on social media

Contacting Denice via email or phone

## Meet the presenter

#### 3<sup>rd</sup> career librarian

- Electrical Engineering,
   BS & MS
- Culinary arts, AA
- Library and Information Science, MS



#### A little bit about me . . .

### WAKE FOREST UNIVERSITY

















What topic are you resear... A graduate Physics student couldn't find an article on Web of Science

What I am twing to do is find all the scientific papers which reference a particular article littled on I 1939 and attached below. The issue is Continued Gravitational Collapse scientific papers which reference a particular article titled on to have this specific article. Continued Gravitational Collapse\* that was published in 1939 and attached below. The issue is specific article.

New Tools for Efficiently Finding, Evaluating, and Visualizing Research

Resource	Citation Count	Create an Alert	Extracting the Data and Additional Information
Google Scholar	2038	Yes	I would recommend using the software Publish or Perish to extract the information from Google Scholar. Information on using Harzing's Publish or Perish is available at <a href="https://libguides.libraries.wsu.edu/c.php?g=294448&amp;p=1960387">https://libguides.libraries.wsu.edu/c.php?g=294448&amp;p=1960387</a> .
			NOTE: https://scholar.google.com/intl/en/scholar/inclusion.html#crawl details on how Google Scholar's web crawlers operate.
Semantic Scholar	1,180	Yes	Semantic Scholar contains different filters that you can use to limit/target the results. However, you cannot export the results.
<u>LENS.ORG</u>	1,349	Yes  Details provided at <a href="https://support.lens.org/help-resources/workspaces/dynamic-collections/">https://support.lens.org/help-resources/workspaces/dynamic-collections/</a>	LENS.ORG provides a variety of ways to analyze the citation results. The video <a href="https://www.screencast.com/t/Bt5y9mOhP1F">https://www.screencast.com/t/Bt5y9mOhP1F</a> provides a way to filter the results by journal article and view different visualizations analyzing the citations.  Create an account to create a dynamic collection. You can export the results. To circumvent the <a href="https://www.screencast.com/t/Bt5y9mOhP1F">1,000 record</a> limitation, batch the export by filtering by the year of the publication.
Dimensions.ai	1,061	Yes	Create an account to set an alert as well as to export the citations. To export the citations, click on the "View in Dimensions" button, click the link "Show all" to the left of Publication Citations, and after logging in, Save/Export will appear in the bar at the top of the page.
<u>Scite.ai</u>	1,209	Yes	Scite.ai is a new tool and is free. It provides contextual analysis of the citations. You can see where the citation appears with the text of the citing document as well as if the citation is supporting, mentioning, contrasting, or unclassified.  You will need to create an account to set-up an alert as well as to download the report citations.

### 202 itera (Spring **Information** Engineering **IB290**: for



#### Truncation (\*)

Keywords

Controlled vocabulary



Phrase searching ""

**Databases** 

Grouping

Google or another metasearch engine

#### How do we search now?

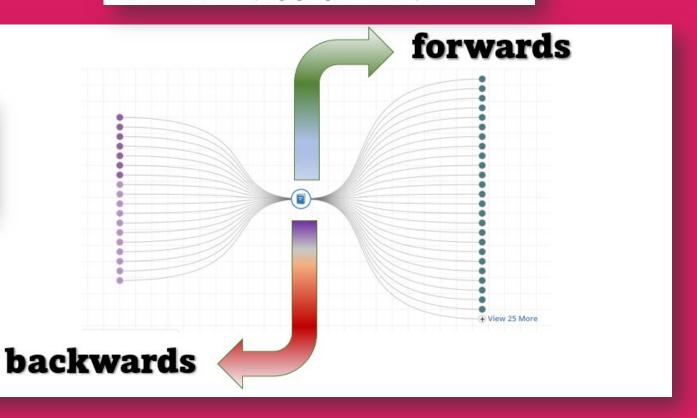
Influence of mesopore volume and adsorbate size on adsorption capacities of activated carbons in aqueous solutions

By: Hsieh, Chien-To; Teng, Hsisheng Carbon (2000), 38(6), 863-869 | Language: English, Database: CAplus

#### Citation Research

#### A.K.A.

- · citation searching
- citation chaining
- citation mining
- reference mining



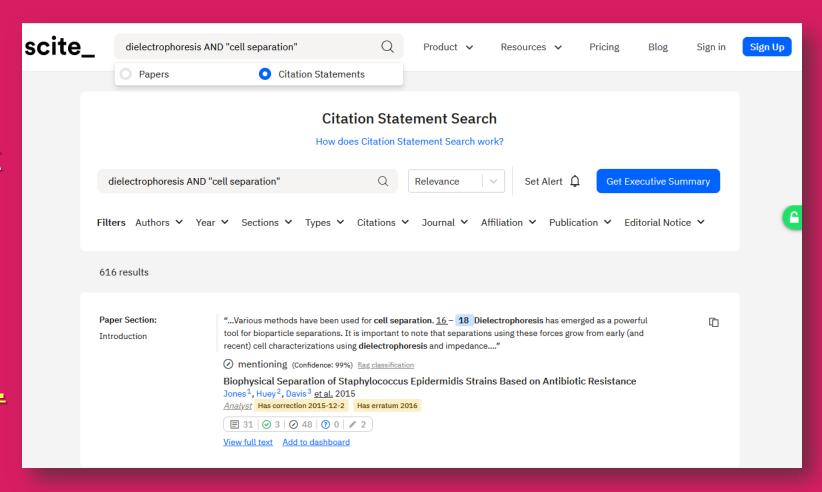


# Adding the qualitative to the quantitative

Let's talk about scite.ai

#### scite.ai

- Smart citation statements
- See citation in context
- Citations tagged as supporting, contrasting, or mentioning
- Additional features . . .
- Fee-based, however the browser extension is free!





Assessing your resources: Identifying retractions, withdrawals, etc.

Let's talk about scite.ai

#### Reference Check

Upload a document (manuscript, grant, preprint, or published paper) to check the reliability of its references.

Check out an example or see how it works.

Upload a PDF or docx document from your computer:

Choose File

or drag it here

X

No file chosen

Or paste a valid document (PDF or docx) URL

Generate Report

Cancel

#### scite.ai

Use Reference Check to verify the references in a document Example

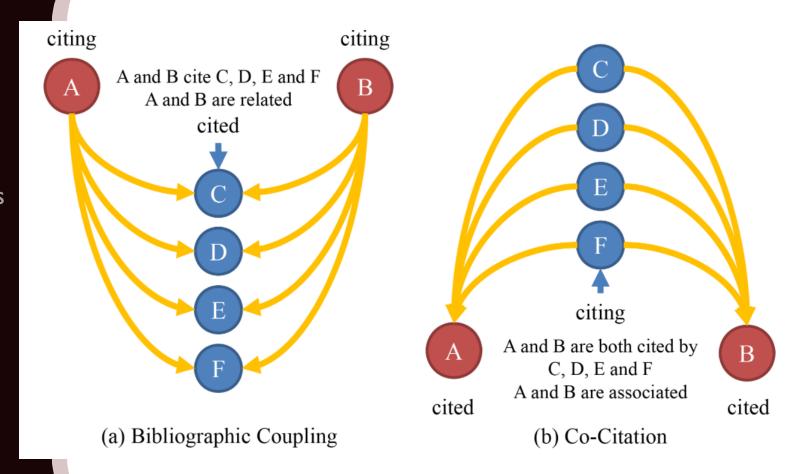


# What are ways that we can visualize resources?

Let's talk about Connected Papers and Inciteful.xyz

# Semantic Similarity measures for citations

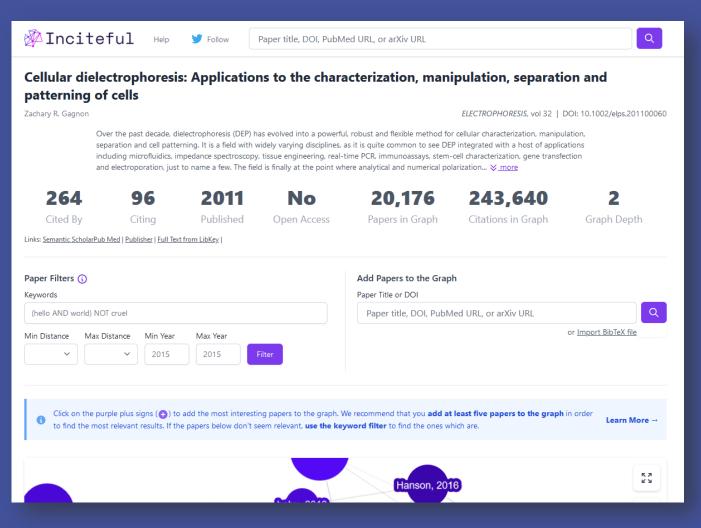
- Bibliographic coupling:
  Two resources are
  connected if their references
  list one or more documents
  in common
- Co-citation: Two resources are cited frequently within the same document



#### **Connected Papers**



- Visual representation of similarity between papers
- Utilizes co-citation and bibliographic coupling
- How it works . . .
- Free!



### **Inciteful.xyz**

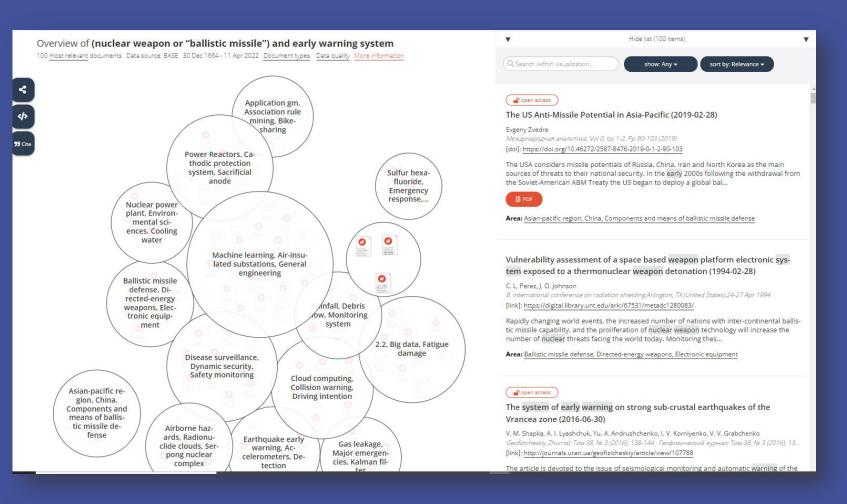
- A powerhouse!
- How to use it . . .
- Free!



# Integrating artificial intelligence and information literacy

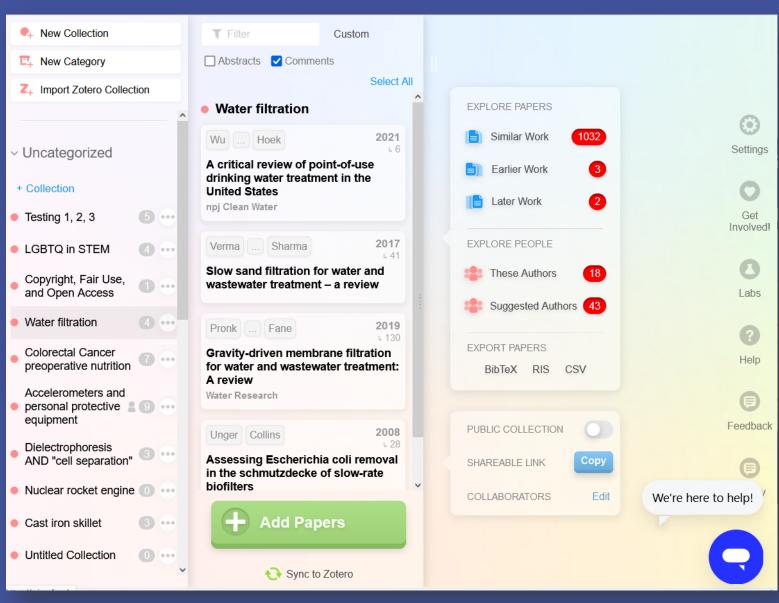
Let's talk about Open Knowledge Maps and Research Rabbit

#### Open Knowledge Maps



- Get an overview of a research topic
- Clusters similar articles together
- Separates open access content from paywall content
- Uses text similarity and algorithms

#### Research Rabbit



- Get an overview of a research topic
- Clusters similar articles together
- Separates open access content from paywall content
- Uses text similarity and algorithms





### Instagram



## <u>@jdenicelewis</u> Public profile for vegan eats

#### LinkedIn

www.linkedin.com/in/jdenicelewis
Public way to post professional
accomplishments and musings of
an STEM academic librarian

### Thank you!

J. Denice Lewis

336) 758 – 1927

lewisjd@wfu.edu

https://zsr.wfu.edu/directory/denice-

lewis/

