

AI for Research - State-of-the-Art



- [Home AI Short Version \(https://uia.instructure.com/courses/14569/pages/home-short-version\)](https://uia.instructure.com/courses/14569/pages/home-short-version) - State-of-the-Art - [Next \(https://uia.instructure.com/courses/14569/pages/ai-for-research-talking-to-pdfs\)](https://uia.instructure.com/courses/14569/pages/ai-for-research-talking-to-pdfs)

State-of-the-Art

A state-of-the-art chapter establishes **credibility**, showing you're well-versed in current domain knowledge. This ensures a **sound foundation** for your research, highlighting gaps and potential innovations. It provides readers with a **contextual understanding**, setting the stage for your work's relevance. Moreover, it guards against **redundancy**, ensuring you don't unintentionally replicate existing studies. Lastly, it can open doors for **networking and collaboration**. In essence, this chapter is not mere tradition but a compass, positioning your work within the larger academic landscape.



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1. Tapping into University Resources


Begin by exploring your university library and reliable online tools; they house a wealth of peer-reviewed journals and articles that can form the backbone of your state-of-the-art chapter. Don't shy away from consulting professors and colleagues. Often, they can pinpoint seminal papers that can give your research a running start. Additionally, librarians can guide you to lesser-known resources or databases, ensuring a comprehensive grasp of your subject matter. In short, maximize the collective wisdom and tools around you.

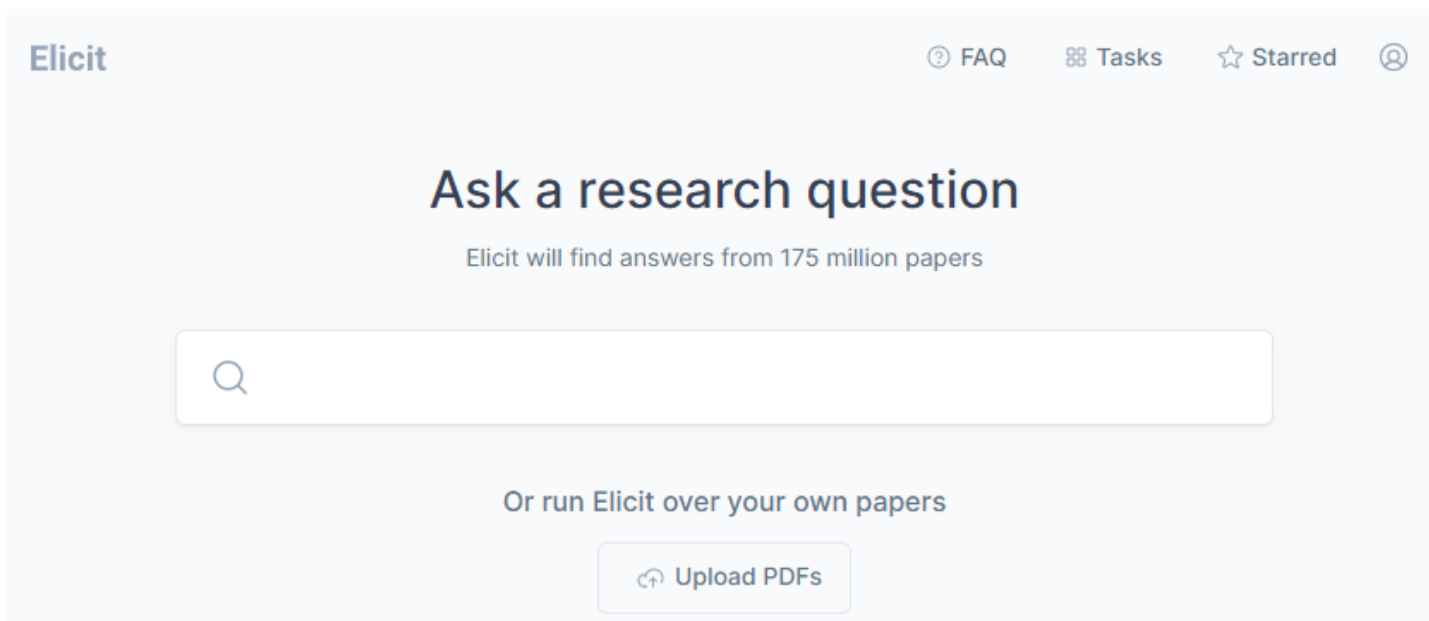
2. Engaging AI Tools

[Elicit.org](https://elicit.org)  (<https://elicit.org>) fosters collaborative research, emphasizing peer feedback and scholarly community. Meanwhile, [Semantic Scholar](https://www.semanticscholar.org)  (<https://www.semanticscholar.org>) leverages AI, sifting through vast literature to highlight the most relevant and impactful papers. Together, they can optimize your research.

Feature	Elicit	Semantic Scholar
Purpose	Literature review	General-purpose research
Search method	Semantic similarity	Keyword search, citation search, topic modeling
Features	Summaries of abstracts, key information extraction	Paper filtering, citation analysis, topic modeling
Cost	Free	Free for personal use, paid plans for institutions

3. Elicit.org

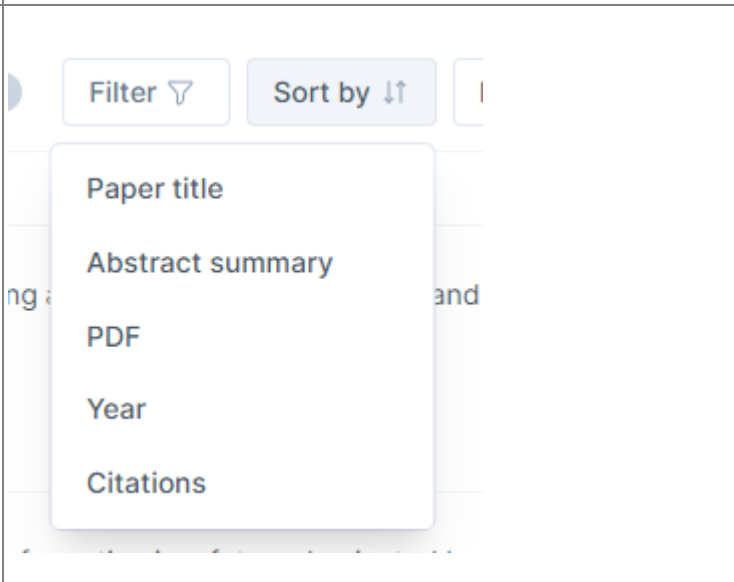
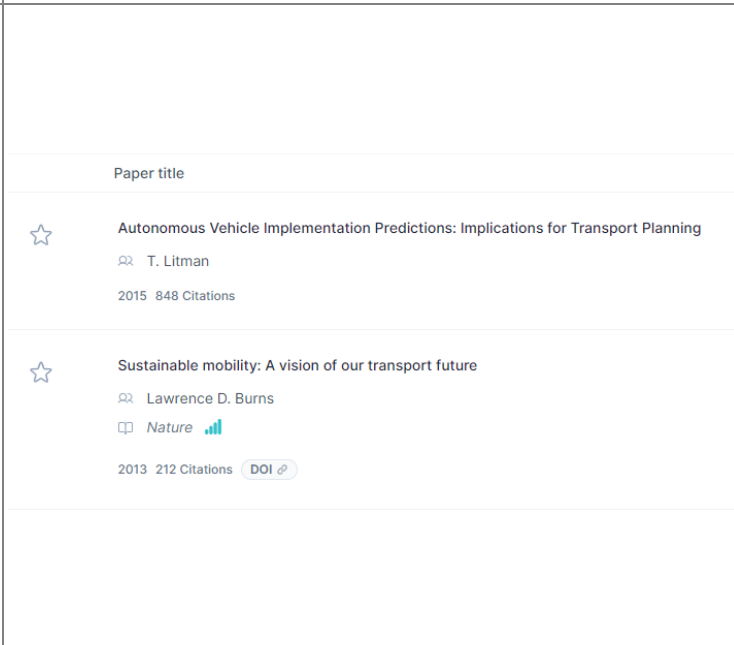

[Elicit.org](https://elicit.org)  (<https://elicit.org>) is a newer tool that uses large language models to generate answers to your questions in plain English. This can be helpful if you are not familiar with the technical jargon of your field or if you are looking for a more comprehensive overview of a topic. Elicit.org also has a feature that allows you to brainstorm questions, which can be helpful if you are not sure what to ask.

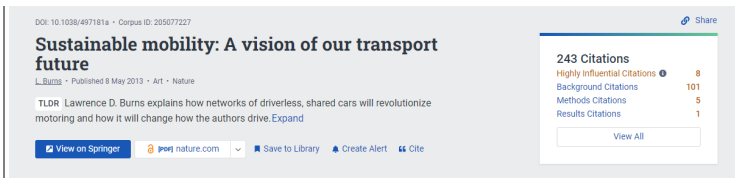


<https://elicit.org>

Home page elicit.org [1]

4. Example: Finding relevant articles with Elicit.org & Semantic Scholar

<p>Step1: Paste your free text or abstract into eleciti.org</p>	<p>here: we pasted the previous text from Getting Started" step 5: Transforming the Commuting Experience: The Promise of Driverless Cars</p>
<p>Step 2: Sort by "Citations"</p>	
<p>Step 3: Select a paper of interest.</p>	
<p>Step 4: Click ""semantic scholar" to get more details</p>	
<p>step 5: Find PDF, Copy Citation</p>	<p>You are now in semanticscholar.org</p>



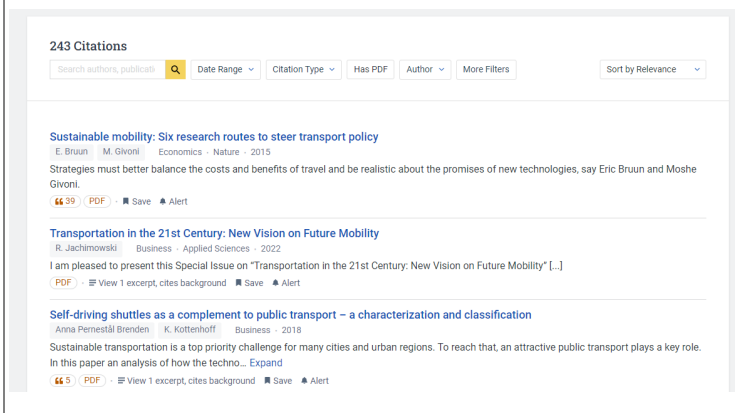
copy citation by pressing "Cite". and you will be able to receive this:

- Burns, L.D. (2013). Sustainable mobility: A vision of our transport future. Nature, 497, 181-182.

Press "Save to Library" to save reference

Press PDF to download PDF

Step 6: Find Further Rereferences by finding papers that cited the article



Tutorials for Elicit.org

[Using elicit.org for AI help with literature review](#) ➡

[Write a Research Proposal in 2 Days with Elicit](#) ➡

(<https://youtu.be/V1PL0QN9gNU>) (<https://youtu.be/YO9UIBWx6jw>)


[5]

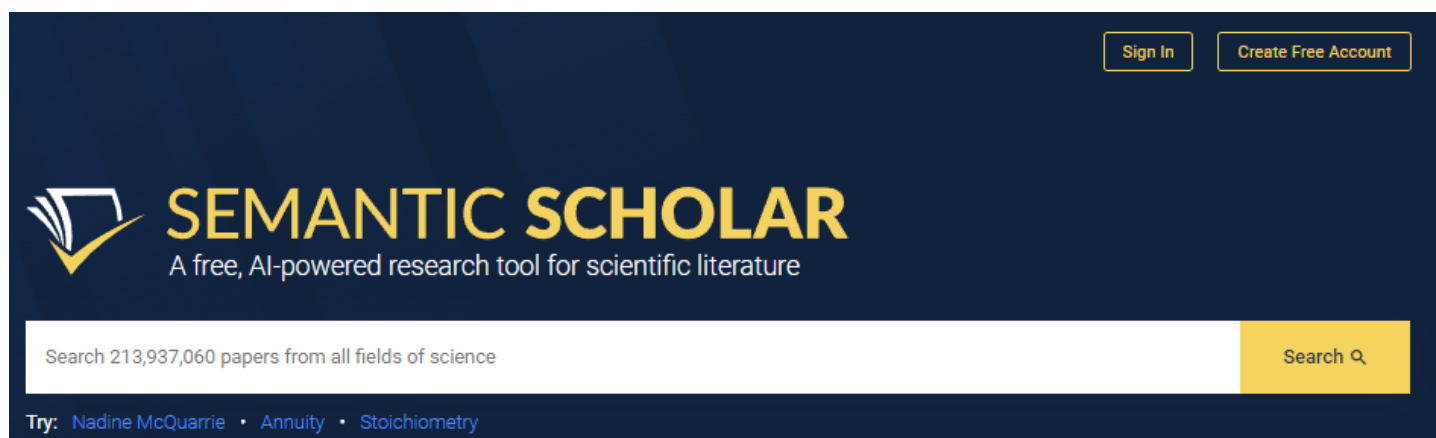
[6]




5. Semantic Scholar

Semantic Scholar is a more established tool that has a larger database of papers. It also has features for tracking your research and visualizing the relationships between different papers. This can be helpful if you are conducting a complex research project or if you are looking for specific information from a paper. Semantic Scholar is also more technical and can be difficult to use for beginners.

1. **Start with Semantic Scholar:** Begin your exploration on [Semantic Scholar](https://www.semanticscholar.org/)  (<https://www.semanticscholar.org/>) to help you find the most relevant academic papers. You can search by keywords, authors, or specific paper titles.
2. **Filter and Sort:** Use Semantic Scholar's filtering options to narrow down results by year, author, or journal. This can help you focus on the most recent or influential papers in your domain.
3. **Citation Analysis:** One of Semantic Scholar's strengths is its citation analysis. Look at which papers are frequently cited to gauge their influence and importance in the field.
4. **Related Work:** Utilize the "Related Work" section on Semantic Scholar. It provides a list of papers that are closely related to your topic of interest.
5. **Author Profiles:** If you find a researcher who's made significant contributions to your area of interest, click on their profile. Semantic Scholar will show you all of their publications, allowing you to trace the evolution of their work and related developments in the field.
6. **Alerts and Recommendations:** Set up alerts on Semantic Scholar for specific keywords or topics. This way, you'll be notified of new papers and breakthroughs as they're published.
7. **Integrate Chatbot Insights:** If you're using a domain-specific chatbot, integrate the insights and references you receive from it with your findings on Semantic Scholar. Cross-reference any sources or papers the chatbot suggests.



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Home page Semantic Scholar [2]

Tutorials for Semantic Scholar

[Semantic Scholar, A Free AI-Powered Academic Search Engine](#) 

<http://Semantic%20Scholar,%20A%20Free%20AI-Powered%20Academic%20Search%20Engine>

[3]


[Semantic Scholar - Product Demo](#) 

<https://www.youtube.com/watch?v=q1hEO2kUjsI>

[4]



6. Jenni.ai

[Jenni.ai](https://jenni.ai)  is an AI-powered writing assistant that helps users create content faster and more efficiently. It offers a range of features, including AI autocomplete, in-text citations, paraphrasing and rewriting, source-based generation, and a chat assistant to help users understand and summarize their research papers. Jenni.ai supports multiple citation styles, including APA, MLA, IEEE, and Harvard, and allows users to save and manage their research in a library for easy citation. With Jenni.ai, users can overcome writer’s block and produce high-quality content in less time.



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Home page Jenni.ai [7]

Tutorials for Jenni.ai

[How to use Jenni AI](https://youtu.be/Qnh6EFtGIFg),  [Jenni AI Review \(2023\) -](https://youtu.be/F1ZFXsk6Tcc)

[\(https://youtu.be/Qnh6EFtGIFg\)](https://youtu.be/Qnh6EFtGIFg) [Should You Get This AI](https://youtu.be/F1ZFXsk6Tcc)

[Writer?](https://youtu.be/F1ZFXsk6Tcc) 

[\(https://youtu.be/F1ZFXsk6Tcc\)](https://youtu.be/F1ZFXsk6Tcc)

[8]









Acknowledgments

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AI tools are [acknowledged here \(https://uia.instructure.com/courses/14569/pages/home-ai-acknowledgements\)](https://uia.instructure.com/courses/14569/pages/home-ai-acknowledgements).

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