

AI tools for text generation: Best uses

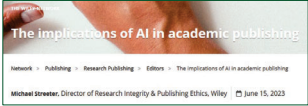
- Translation
- Brainstorming
- Grammar and spelling check
- Style/tone/brevity
- Transcription
- Coding/Programming learning/starting point
- Data retrieval & prediction; process optimization (only with proper prompt engineering & training)

Wiley Position on such tools

bit.ly/wileyethicalguidelines

Artificial Intelligence Generated Content

Artificial Intelligence Generated Content (AIGC) tools—such as ChatGPT and others based on large language models (LLMs)—cannot be considered capable of initiating an original piece of research without direction by human authors. They also cannot be accountable for a published work or for research design, which is a generally held requirement of authorship (as discussed in the previous sections), nor do they have legal standing or the ability to hold or assign copyright. Therefore—in accordance with COPE’s position statement on AI tools—these tools cannot fulfil the role of, nor be listed as, an author of an article. If an author has used this kind of tool to develop any portion of a manuscript, its use must be described transparently and in detail, in the Methods or Acknowledgements section. The author is fully responsible for the accuracy of any information provided by the tool and for correctly referencing any supporting work on which that information depends. Tools that are used to improve spelling, grammar, and general editing are not included in the scope of these guidelines. The final decision about whether use of an AIGC tool is appropriate or permissible in the circumstances of a submitted manuscript or a published article lies with the journal’s editor or other party responsible for the publication’s editorial policy.



- Traditional AI for minor tasks are allowed and do not need disclosure (e.g., spell/grammar/reword apps)
- **Generative-AI for text** (e.g. ChatGPT, Copilot) is **allowed but must be disclosed** in the manuscript. Authors should include details as a footnote or as additional comments in the paper. (Which AI tool, what version, how it was used, where it was used. Authors are fully responsible for the accuracy of the output. Keep track of prompts used.)

AI tools for text generation: AI authorship of articles

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“AI tools **cannot meet the requirements for authorship** as they **cannot take responsibility** for the submitted work.

As non-legal entities, they cannot assert the presence or absence of conflicts of interest nor manage copyright and license agreements.”

–Commission on Publication Ethics (COPE)

AI tools for text generation: AI use by reviewers

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Feeding sections of a paper under review into an AI tool **violates confidentiality** and could pose a **danger to the authors**, especially if any input/prompt is included in the training set.

Referees must never use data/results & conclusions as prompts or feed the manuscript. But one can use AI tools to **improve quality of written feedback**. This must be declared to the editor.

Certain tools might make a referee’s life easier (e.g., reference checking; looking for related work, validating statements made in the introduction section) but must still **not share confidential manuscript information**.

YOUR FIVE-FOLD TEST IN CONSIDERING ANY AI TOOL: L-O-C-A-D

- L: Limitations**
 - What was this AI tool designed to do? What is its purpose? What are its limits? Terms of use?
- O: Ownership**
 - Copyright issues: Who owns the input? The product? The training set? Were proper licenses obtained?
 - Can I use/reuse the product freely for the medium/purpose I am planning?
 - Could I run into any copyright infringement problems?
- C: Confidentiality**
 - Will I inadvertently disclose confidential information?
 - Could I put my work in danger of being scooped?
 - Are my data/prompts being used in the training set?
 - Is my data protected?
- A: Accuracy**
 - Is the output accurate? Can I trust this output?
 - Have I done my own accuracy check of it? Am I prepared to take responsibility for this accuracy?
 - Does the AI/app use current/validated information to produce the result?
- D: Disclosure**
 - Does my institute, the journal, the publisher allow usage? What are the SOPs for disclosure?

AI tools for text generation

Can an app using an LLM/GPT-X/ChatGPT be created with additional info sources & immediate verification?
Can there be tools built/trained to minimize hallucination?

YES.

((even ChatGPT is adapting with Search/SearchGPT built in))

AI tools for scientists based on GPT

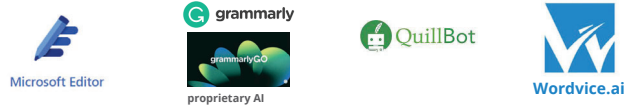
Most popular AI tools based on LLMs with additional layers of data sources and verification. What do they do, are they useful, and are they safe to use? How do we evaluate them?

- Text editing tools
- Semantic Scholar
- Consensus
- Scite.ai
- Elicit
- Research Rabbit
- Potato.ai
- Perplexity
- ChatPDF
- NotebookLM

Note: this is not an ad for any of these.
Most of these are not affiliated with Wiley.

AI tools for scientists: Text editing tools

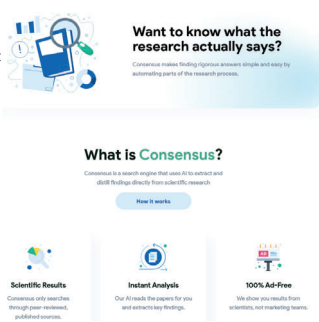
- Many; free/limited use and paid.
- **Not all are generative AI (yet)**
- Usual included tools:
 - Spelling and grammar check
 - Paraphrasing; style and tone correction
 - Citation formatting
 - Plagiarism check
 - AI-assisted writing (various levels)
- Always check:
 - Data usage (storage? selling?) GDPR/data protection requirements
 - Terms of Service; Content ownership
 - Text collection/forwarding/use for training set



AI tools for scientists: Consensus

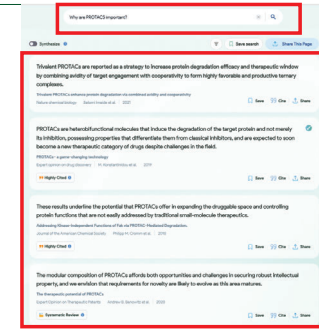
https://consensus.app/

- Search engine which uses AI to provide answers with the consensus of the academic community. Powered by GPT4.
- “Child of ChatGPT and Google Scholar” – Mushtaq Bilal
- You ask a question, it returns answers, but with a source per answer to help you validate. Paper summaries possible.
- Learn consensus for YES/NO questions.
- If question is too complicated, it will say so.



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AI tools for scientists: Elicit

https://elicit.org/

- An “AI Research Assistant”
- Good for looking for references.
- Answers questions and provides resources and summaries in a table.
- Helps find relevant articles for you. Uses semantic similarity, so even papers that are related but use different keywords can be found.
- Powered by Semantic Scholar and GPT

The AI Research Assistant

Elicit uses language models to help you automate research activities, like parts of literature reviews. Elicit can find relevant papers without perfect keyword matches, summarize information about the papers, and answer your questions about them. While answering questions with research is the main focus of Elicit, there are also other research tasks that help with brainstorming, summarization, and text distribution.



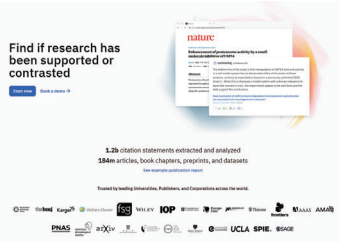
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AI tools for scientists: Scite.AI

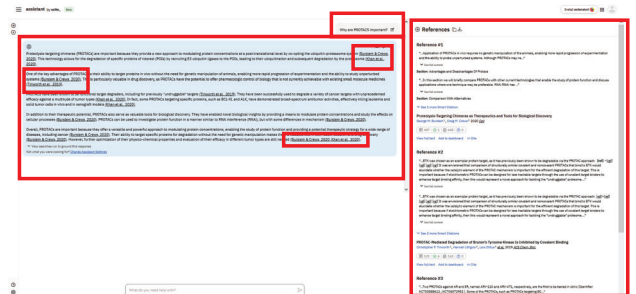
https://scite.ai/

- Also answers questions and provides resources. Can summarize papers. Powered by ChatGPT
- Great for tracking your own papers & their legacy.
- Provides context of citations and if they support or dispute a claim
- Find sources/references for text generated by LLMs
- Connected to ORCID, it can suggest papers for you
- From indexing agreements w/ publishers & open sources.
- NOT free; 7-day free trial, then 16 Eur/Mo; 115 Eur/year



https://www.linkedin.com/pulse/sciteai-gpt-chatbot-science-writing-damien-sou/RC3%4A9
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Scite Assistant (very similar to Consensus): Ask questions, get answers with references.

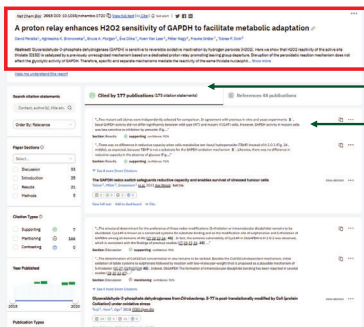


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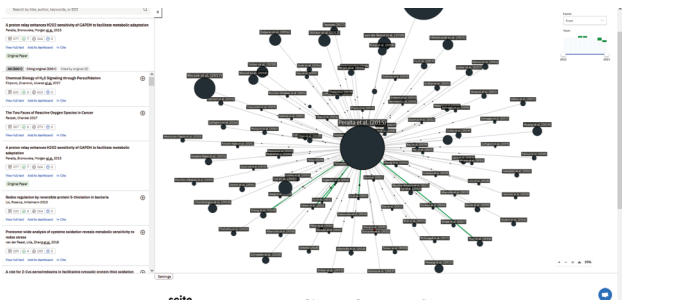


Lists all papers that have cited yours.

Shows quotes from citing paper that support and/or mention your claim/study, with a % confidence level from the AI (can be corrected by user).

Counts citation types: Supporting, Mentioning, or Contrasting.

Visualize a map of your citations (mentions, supports, contrasts, how closely they support, and their interconnectedness)



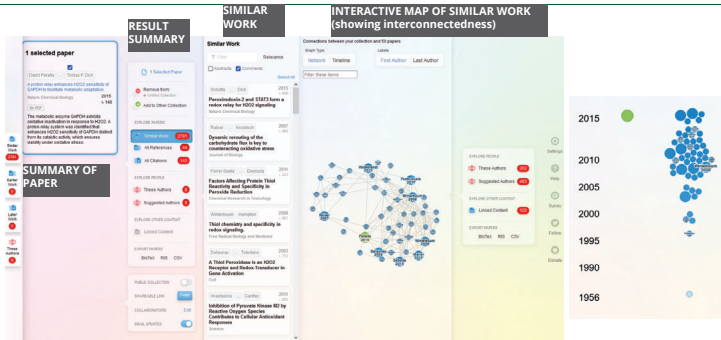
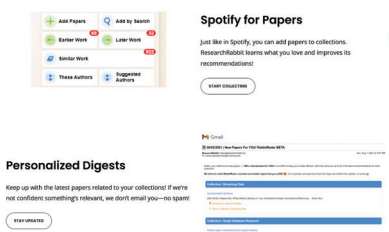
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AI tools for scientists: Research Rabbit

https://www.researchrabbit.ai/

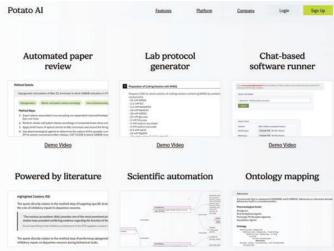
- “The Spotify of Research”
- Helps with literature search & organization
- Sorts your lit in collections & makes recommendations
- Cluster papers by relationship, timeline
- Visualizes papers & their relationships
- Maps author networks; interact with other authors/research (social media-esque aspect)
- Powered by PubMed & Semantic Scholar
- FREE



Potato AI

https://readyssetpotato.com/

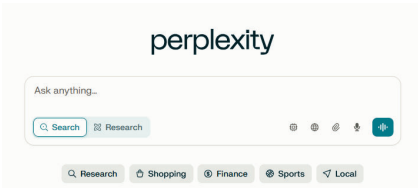
- First Wiley Partner in its Co-Innovation Program for AI
- AI research assistant powered by peer-reviewed literature that enables high-quality science.
- A literature-based tool to plan, collaborate on, and run new methods.
- Has a free plan; 5 users per team.



Perplexity

https://www.perplexity.ai/

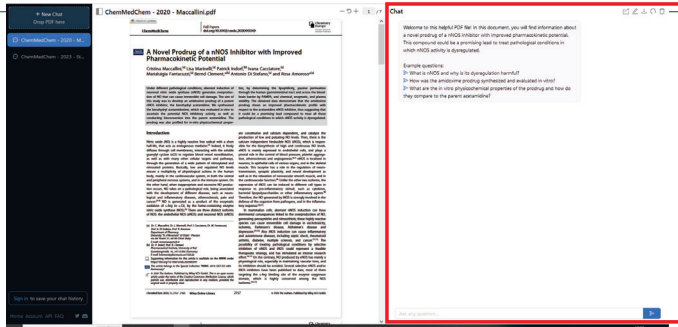
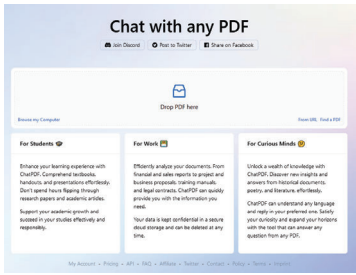
- Search engine that uses an LLM to respond to queries. Has a quick search and more in-depth pro search feature.
- One can upload files to fine-tune prompts and answers.
- LLM and web search all combined into one space.
- Based on GPT, Claude, and their proprietary AI/LLM



AI tools for scientists: ChatPDF

https://www.chatpdf.com/

- Reading assistant; summarizes an uploaded PDF
- Recommends questions you can ask.
- Powered by ChatGPT, so has same limits as a plain LLM. Can refer to pages in the PDF where the answers support are supposed to be.
- Cannot analyze images/figures
- One must validate the answers and references on their own.
- BUT concerning copyright; only use for articles you own the copyright to, public domain level or open-access articles. **Think about reuse rights! Remember, the tool doesn't change whatever limits the original copyright/license has set.**
- Free 3PDFs per day.

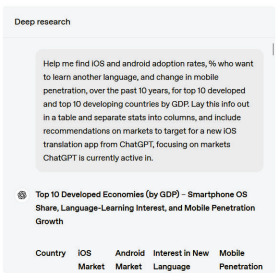


Microsoft Copilot & GPT; Deep Research

https://openai.com/index/introducing-deep-research/

DEEP RESEARCH

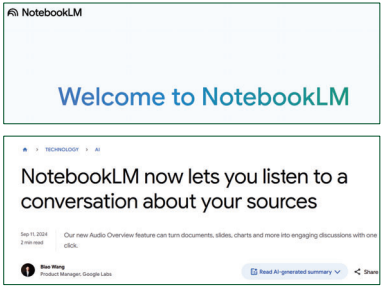
- Only from Feb. 2025
- GPT Pro & Plus users; Free use in Copilot but limited prompts (5/mo) without a license.
- For multi-step, multi-faceted, domain-specific inquiries where depth and detail are critical.
- “Analyzes & synthesizes hundreds of online sources to create a comprehensive report at the level of a research analyst.”
- Optimized for web browsing & data analysis.



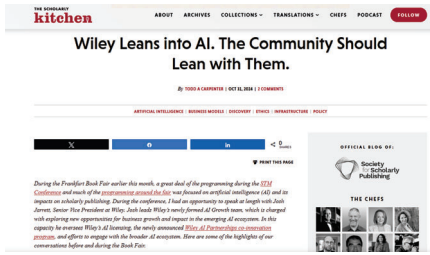
Google NotebookLM

https://notebooklm.google.com

- Research & note-taking online tool; can prepare review notes.
- By Google Labs, powered by Google Gemini Document interaction
- “Deep Dive”: summary of a written document as an engaging two-person podcast



Wiley and AI



Available at <https://scholarlykitchen.sspnet.org/2024/10/31/wileys-josh-jarret-interview-about-impact-of-ai/>

bit.ly/wileyaistudy

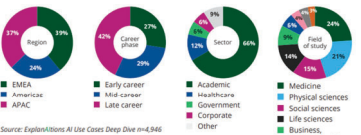
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bit.ly/wileyaiprinciples

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The ExplainAItions study

Online survey



Who's more likely to have already used AI in the research process?

- Researchers in China (59%) and Germany (57%)
- Early career researchers (57%)
- Computer science (57%) and business, economics, and finance researchers (55%)

Source: ExplainAItions GenAI Perceptions, Attitudes, and Behaviors, n=1,043

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bit.ly/wileyaistudy

Key takeaways

- Despite limited current use, researchers know that developing AI skills will be highly important to them personally in the near future
- Most researchers believe AI already exceeds human performance in more than half of the studied use cases, signaling strong confidence in AI capabilities
- Uncertainty is a major barrier to researchers making the most of AI's potential
- Approximately 70% of participants express a desire for clear guidelines on AI use in scholarly research and support in avoiding potential pitfalls.

Wiley AI Principles (Good guide for publishers/businesses)

bit.ly/wileyaiprinciples

- A **visionary** and **vigilant** approach to AI.
- AI as an **opportunity** to **accelerate** the pace of **innovation** in research, learning, and publishing
- Stay **aware of the risks** associated with AI and are taking steps to mitigate them.

1. HUMAN OVERSIGHT

- AI solutions must be developed, leveraged, and maintained with **human oversight**.

2. TRUSTWORTHINESS & TRANSPARENCY

- Wiley makes transparency and trustworthiness core elements of our AI use and development.

3. SAFETY & FAIRNESS

- We are committed to ensuring our AI systems and processes are **safe and fair**.

4. GOVERNANCE & ACCOUNTABILITY

- We will maintain **appropriate governance** over our use of AI and its incorporation into our business to **manage risks and assure accountability**.

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Technology Empowering Publishers with AI

Wiley's AI-as-a-Service features deliver powerful Artificial Intelligence solutions directly through our platform to publishing and solutions partners. We empower partners to make their content discoverable and engage their audiences in a personalized manner and maintain a competitive edge in a rapidly evolving industry.

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Knowledge Enrichment

Impact & Benefit

- Transforms raw content into structured, enriched, and ready-to-publish formats

AI Features

- Manuscript Transformation
- Grant and Keyword Extraction

Enhanced Audience Data

Impact & Benefit

- Verifies author identity, ensuring accurate attribution and credibility

AI Features

- Author Disambiguation

Screening & Integrity

Impact & Benefit

- Upholds the highest standards of ethics and integrity in publications

AI Features

- Author/Editor/Reviewer Validation
- Papermill Detection*

Knowledge Discovery

Impact & Benefit

- Personalizes and optimizes the connection between content, authors, and readers

AI Features

- Journal and Reviewer Suggestions

Current availability: features and services highlighted above are available for use.
*Papermill Detection is currently in pilot.

AI Tools for Researchers

Do not be afraid of AI tools.
Familiarize & train yourself.
Read the fine print; L-O-C-A-D.

Use them lawfully and ethically.
Let them **enhance** the way you do research, but **not replace** human critical thinking, analysis, and creativity.

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AI USAGE:

Limits
Ownership
Confidentiality
Accuracy
Disclosure

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bit.ly/wileyaistudy

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VIELEN DANK!
SALAMAT!
THANK YOU!

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