

Grok: what ai resources are available for technical literature searches

Several AI-powered resources are available to assist with technical literature searches, offering features like semantic search, summarization, and data extraction. Here are some notable options based on current tools and their capabilities:

1. **Semantic Scholar** - A free, AI-driven search engine with over 200 million papers across all scientific fields. It uses natural language processing to provide semantically similar results, TLDR summaries, and personalized research feeds.
2. **Elicit** - An AI research assistant that searches over 125 million papers from Semantic Scholar. It excels at finding relevant papers based on questions, summarizing key points, and extracting data into tables, with a free basic tier available.
3. **SciSpace** - A free tool offering access to over 200 million peer-reviewed articles. It allows users to chat with papers, summarize content, and understand technical elements like mathematical expressions, with additional features like paraphrasing.
4. **Research Rabbit** - A free, citation-based tool for discovering papers and authors. It builds visual networks of related research, offers personalized recommendations, and helps track new literature.
5. **Consensus** - An AI-powered academic search engine that extracts findings from papers and synthesizes insights. It provides free unlimited searches, with advanced features like summaries and consensus meters available via a paid tier (\$9/month).
6. **Perplexity AI** - A free "answer engine" with an academic focus option, searching Semantic Scholar and PubMed. It's useful for quick overviews and includes file upload capabilities.
7. **Connected Papers** - A freemium tool that creates visual citation maps from a single paper, helping identify related works. Limited to 5 free graphs per month, with paid options for more.
8. **Litmaps** - A freemium tool using Semantic Scholar data to generate citation maps and seedmaps, aiding in discovering key authors and research gaps.
9. **Iris.ai** - A paid tool designed for R&D teams, offering smart searches, content analysis, and summaries across technical fields like material science and biotech. It requires a subscription for full access.
10. **Undermind** - Developed by MIT researchers, this AI search engine provides in-depth research overviews, claiming to be 10-50 times more effective than Google Scholar. Access details may vary, often requiring registration.

These tools vary in cost (free, freemium, or paid) and focus, from broad searches to niche technical analysis. For best results, combine them with traditional databases like PubMed or Google Scholar, as AI tools may not cover paywalled content comprehensively. Always verify findings with original sources, especially for critical research.