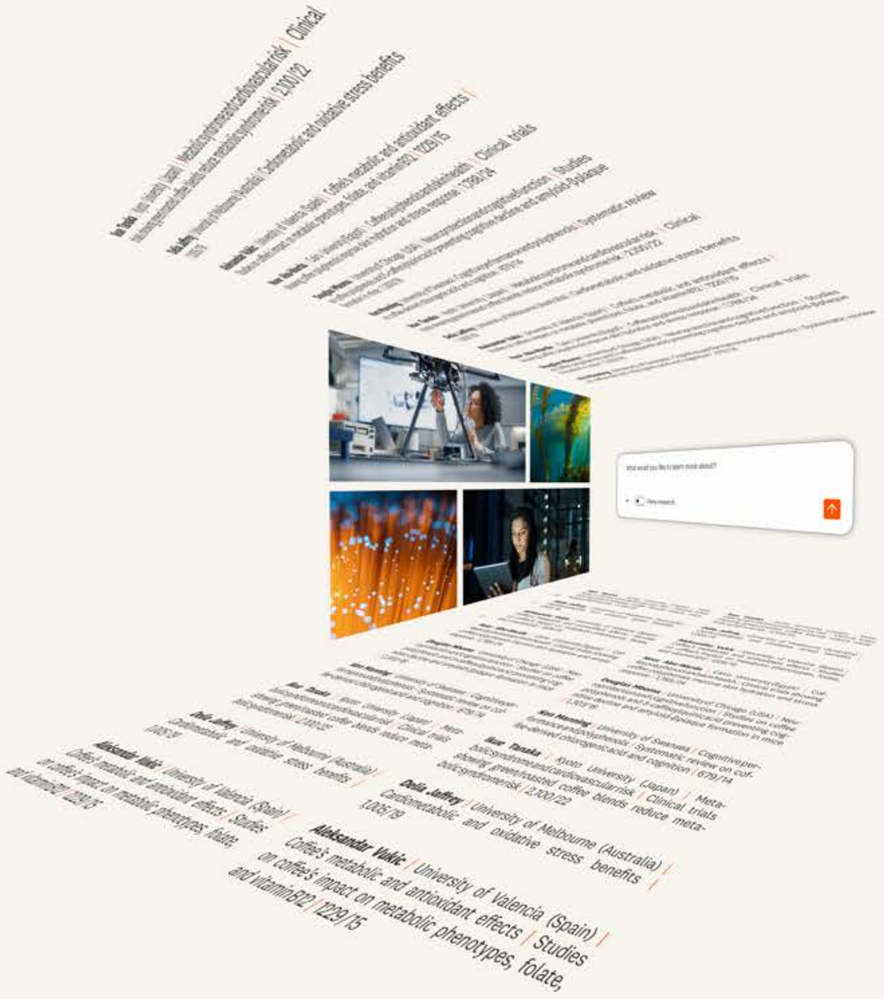
LeapSpace

Use cases and prompt guide



Get inspired by what you can do with LeapSpace

See practical examples across different sectors and domains, whether you are working solo or with a team.

ELSEVIER

Advancing human progress together

Table of contents

This document contains interactive elements.
Use the table of contents on this page and the arrows on each page to navigate through the sections.

Overview

Back to table of contents

Welcome to LeapSpace

LeapSpace™, Elsevier's research-grade, AI-assisted workspace. Built on the world's most comprehensive collection of scientific content, LeapSpace helps academic and corporate researchers uncover deeper insights, accelerate innovation, and collaborate seamlessly in one secure environment. It combines multi-model responsible AI with transparency and clear trust markers, industrial-grade data privacy and security, so that every insight is explainable, traceable, and grounded in the highest-quality global science.

Who is this guide for?

This guide is for R&D users across domains who use LeapSpace day-to-day to explore evidence, accelerate discovery, and collaborate with confidence in a secure environment.

Drive faster insights and impact across sectors

- **Industry:** Pharma and biotech, MedTech, engineering, energy, chemicals, technology and more.
- **Academic and government:** Leading universities, government agencies, research labs, and beyond.

Get started with LeapSpace

Register | Sign in

LeapSpace use cases and prompt guide

Explore how AI is already being applied across R&D today through twelve industry-inspired use cases and prompt scenarios.

This library is designed to help you and your team understand how LeapSpace can be used across various research workflows to deliver measurable impact.

How to use this library

- Inspire onboarding or team adoption
- Guide internal workshops or demos
- Anchor conversations across departments
- Repurpose slides or templates to build your own workflows

Note: updated regularly with new use cases & prompts, stay tuned

What sets LeapSpace apart?

High quality content:
A publisher-neutral AI tool uniting full-text and abstracts, offering a unique combination of content depth and breadth.

Trust Cards:
Our trust cards show sources, surface contradictions and help researchers calibrate the strength of the evidence.

Transparency and trust
All responses are grounded exclusively in research-grade data with humans in the loop to maintain quality & integrity.

Purpose-built for research:
LeapSpace features help researchers rapidly surface hidden connections and gaps. Agentic AI and deep research help users tackle complex, open and interdisciplinary questions.

Versatile AI workspace:
Consolidates a wide range of research tasks into a single workspace, freeing up more time for discovery and critical thinking.

Enterprise-grade privacy and security:
Everything you do in LeapSpace is private, secure and encrypted. We never use your data to train any LLMsLearn more about how Elsevier ensures privacy and security every step of the way.

Overview core features

Created with researchers in mind. Transparency by design to support critical thinking.

1

Explore a topic, find collaborators or funding
Uncover deeper insights, accelerate innovation, and collaborate seamlessly in one secure environment.

2

Upload your own files
Add PDFs/DOC/CSV as private context, with citations so every claim stays traceable.

3

Review Copilot steps
See the plan and search route used, so you can audit relevance and refine the query.

4

Analyze results
Move from summary to evidence: open sources, read excerpts, and judge claim support fast.

5

Trust cards
Open any citation to see why it was used and the exact passage linked to the claim.

6

Ask a follow up question
Tighten scope or pivot without restating context, while keeping sources attached.

7

Find collaborators
Identify experts via Scopus author profiles, then validate fit through matching papers.

8

Find funding
Surface relevant calls with eligibility fields and a link to the funder as source of truth.

9

Deep research
Generate a multi step report that surfaces scope, assumptions, limitations and gaps.

Overview core content

Most comprehensive collection of trusted scientific content.

Full text
Versions of record from journals indexed in Scopus – mostly published after 2000

Elsevier:

- **12 million** articles (including from society-owned journals), book series, handbooks and major reference works
- **~1.1 million** book chapters

Non-Elsevier:

- **2.1 million** open access journal articles (CC-BY) from 50+ publishers and societies

Data correct as of October 2025

Abstracts and metadata
The Scopus corpus of 100+ million interconnected records

- **7,000+** publishers
- **25+** million open access items
- **30,000+** active journals
- **441,000+** books
- **2,8000** preprints
- **21.9+** million author profiles
- **94,000** organization profiles

Data correct as of September 2025

Funding Opportunities
International and local awards from Elsevier's Funding Institutional solution

- **45,000+** active and recurring funding opportunities
- **$100+** billion (USD) worth of active funding opportunities
- **16,000+** government and private funding organizations

Data correct as of November 2025

Note: Although LeapSpace is publisher neutral, the full-text articles it uses are drawn exclusively from journals indexed in Scopus. Users can also upload their own material to enrich analyses

How LeapSpace works

Type in query in your own words/language ("je voudrais savoir..."/I would like to know something about...)

Query

1

GenAI-powered query optimization – breaking down complex queries, determining best search strategy, translation if necessary.

Hybrid search

2

The largest base of trusted, peer-reviewed content

Our unique in-house built method has chunked up all this content into 'passages' of insights, maintaining the context and the citation.

100s of millions 'passages'

Energy efficiency – AI is not used over all 14 million documents. Hybrid search identifies relevant passages and only sends those (with citations and context) securely to an AI provider.

Handful of passages (10+)

3

The most relevant passages found are sent to the GenAI service, along with the query and a set of instructions to generate a response.

GenAI

4

Summary response is generated, including references, links and specific passages cited.

Outcome – Minimized risk of hallucinations

Thanks to explicit instructions, the LLM only uses the information and the citation it is given, designed to minimize the risk of hallucinations.

If the hybrid search does not produce any results, then the tool will say "I could not find any results" instead of trying to find hallucinate responses.

What is peer review?

What are research integrity checks?

Engineering

Use cases and prompts

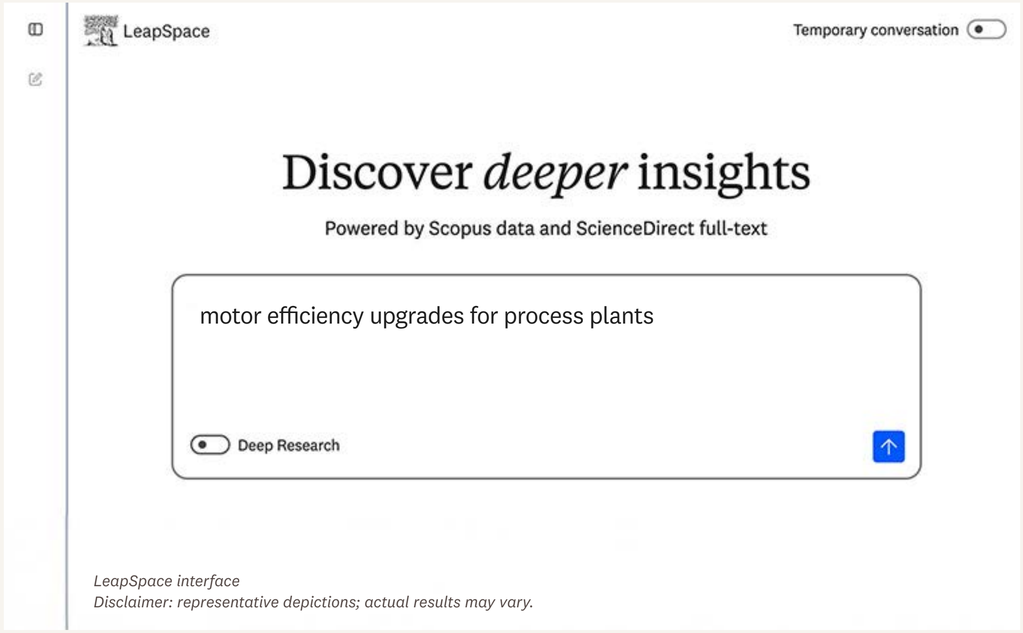
Engineering

1

Use Case: Rapid evidence scan for motor-driven system efficiency upgrades (process plants)

- **Why it matters now:** Motor-driven systems are a major energy and OPEX driver. With rising energy costs and decarbonization targets, even incremental efficiency gains justify action.
- **Category:** Engineering • Industrial electrification • Energy efficiency • Motor-driven systems
- **User:** Plant/Industrial Electrical Eng • Reliability/Asset Performance Eng • Energy/Decarb Lead
- **Features:** Standard search mode (quick exploration) • Copilot (agentic planner) steps • Topic Overview • In-text citations ➔ Reference details/Trust Card (Link to statement: excerpts/ abstracts) • Follow-up suggestions/questions
- **Content:** Scopus (publisher-agnostic abstracts + metadata for breadth) + ScienceDirect (peer-reviewed full text for methods/results/limitations; deeper technical detail)

1 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Follow up: “Build a retrofit options matrix (lever, %kWh range, CAPEX, reliability trade-offs) with 2 citations per row.” Verify the top % claim via **Link to statement** before reuse.

Sign in or register
Make your prompt or run and adapt a sample prompt

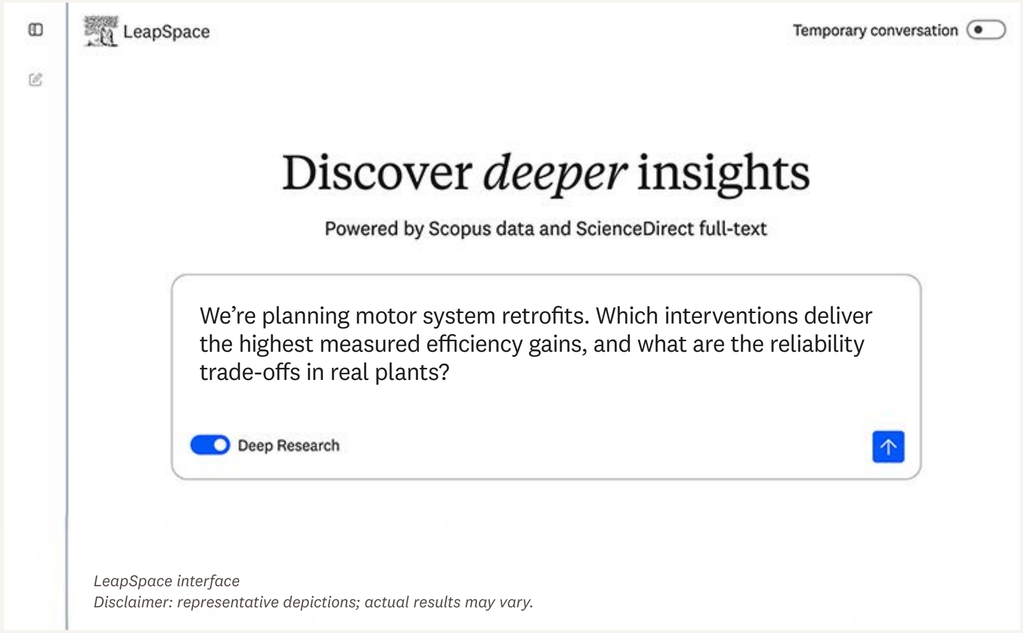
Engineering

2

Use Case (Deep research): CAPEX retrofit decision brief for motor-driven systems (savings + reliability trade-offs)

- **Why it matters now:** Motor retrofit CAPEX decisions lock in cost and reliability for years. Decisions require quantified savings, risk, and operating constraints, not averages.
- **Category:** Engineering • Industrial electrification • Energy efficiency • Motor-driven retrofits
- **User:** Principal/Lead Electrical Eng • Energy Program Lead • Eng Manager / CAPEX owner
- **Features:** Deep Research mode (multi-agent) • Deep Research steps (on-screen audit trail) • research plan/ report • In-text references ➔ Reference details/Trust card • Follow-up questions • Download PDF
- **Content:** Scopus (publisher-neutral abstract layer for breadth) • ScienceDirect (peer-reviewed full text for methods, results, limitations)

2 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Use the **Key Findings Table** to triage. Verify the highest-impact claim via **Reference details ➔ Link to statement**, then export a CAPEX-ready PDF for approval.

Sign in or register
Make your prompt or run and adapt a sample prompt

Energy

Use cases and prompts

“[the response] is very, very well structured…the ‘confidence level’ is something novel that I that I like a lot… the links to the evidence and then even the ranking of the relevancy. That’s pretty good. I haven’t seen anything like that before.”

Operations Head
Top 5 energy company

“[LeapSpace] picked out the relevant articles…maybe I would have spent 45 to 60 minutes in coming up with this list …an hour’s work got reduced to a few seconds.”

Technology Partnerships Manager
Leading chemicals and industrial gas provider

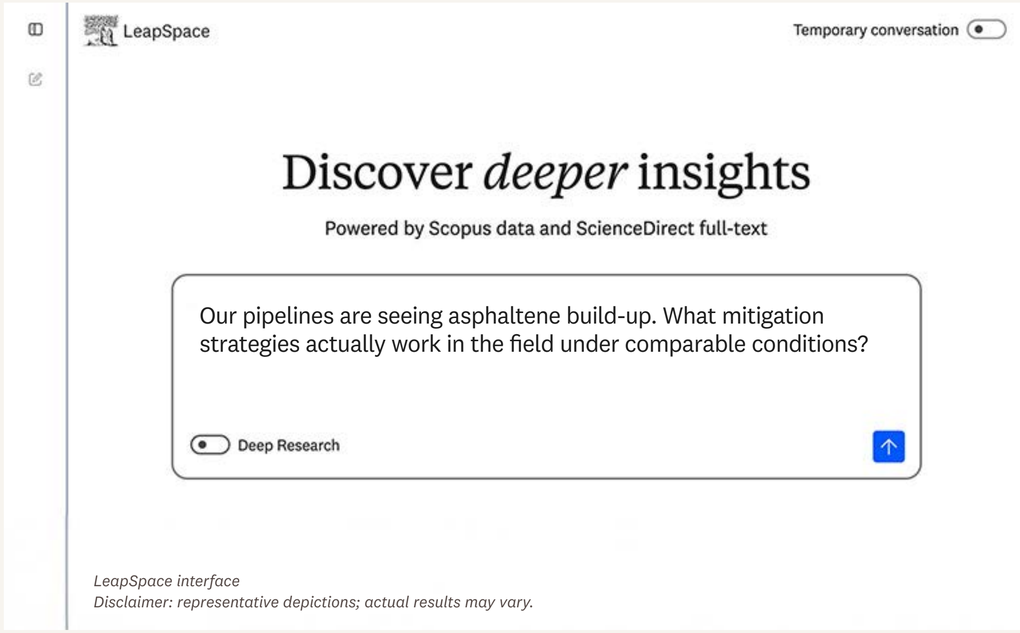
Energy

1

Use Case: Pipeline flow-assurance triage for asphaltene deposition (mitigation options + Shortlist collaborators / KOL)

- **Why it matters now:** Asphaltene deposition drives unplanned downtime, chemical spend, and integrity risk. Field-proven mitigation under current operating conditions is critical.
- **Category:** Energy • Oil & gas ops • Flow assurance (pipelines)
- **User:** Operations Head • Flow Assurance/Integrity Eng • Supplier/Tech liaison
- **Features:** Standard search mode (fast search) • Copilot (agentic planner) steps • In-text citations ➔ Reference details/ Trust Card • Follow-up question •
- **Content:** Scopus (publisher-neutral breadth) • **Find collaborators** (Scopus data (21.9M+ author profiles & 94,000+organization profiles) ScienceDirect (full-text depth where available)

1 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Scan for **field conditions first** (fluid, temperature, flow). Shortlist 2–3 proven mechanisms, then use Find collaborators to identify operators or authors with field experience.

Turn insight into action:
Find collaborators
30-sec video

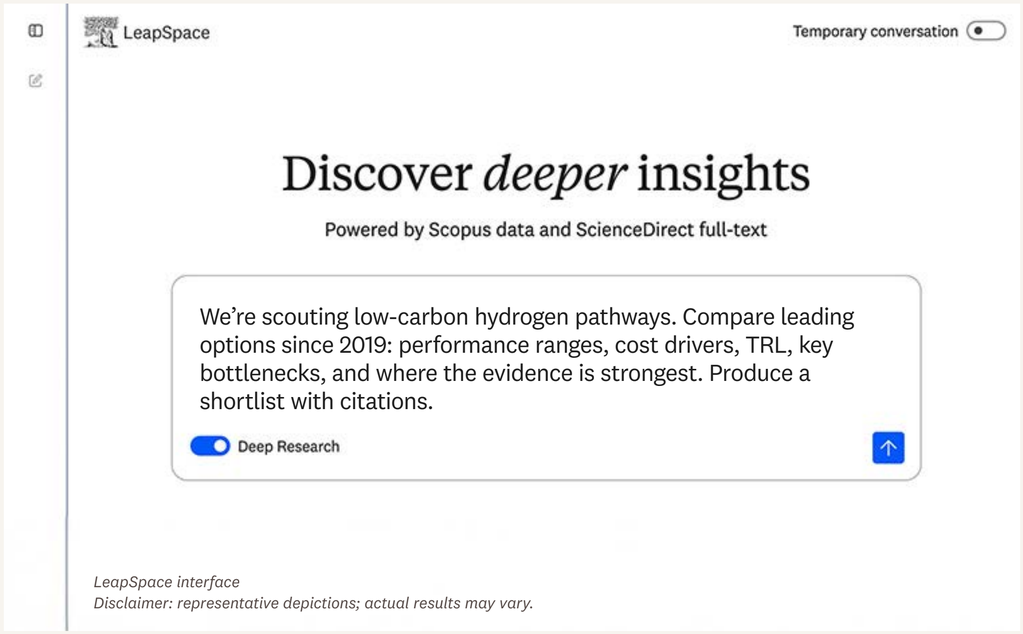
Energy

2

Use Case (Deep research mode): Energy-transition technology scouting brief (shortlist + decision-ready evidence package)

- **Why it matters now:** Tech scouting needs a fast, evidence-backed shortlist across low-carbon hydrogen and CCUS options, with TRL and key uncertainties upfront.
- **Category:** Energy • Energy transition • Low-carbon hydrogen / CCUS
- **User:** Tech scouting / partnerships lead • Decarb program lead • R&D strategist
- **Features:** Deep Research mode (multi-agent) • Deep Research steps • Structured report (scope/assumptions/limits) • In-text citations ➔ Reference details • Follow-up question • **Find collaborators** (45,000 active/ recurring grants/Elsevier's Funding Institutional database)• View as PDF
- **Content:** Scopus (cross-publisher abstracts + metadata) + ScienceDirect (peer-reviewed full text for methods/results/limitations)

2 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

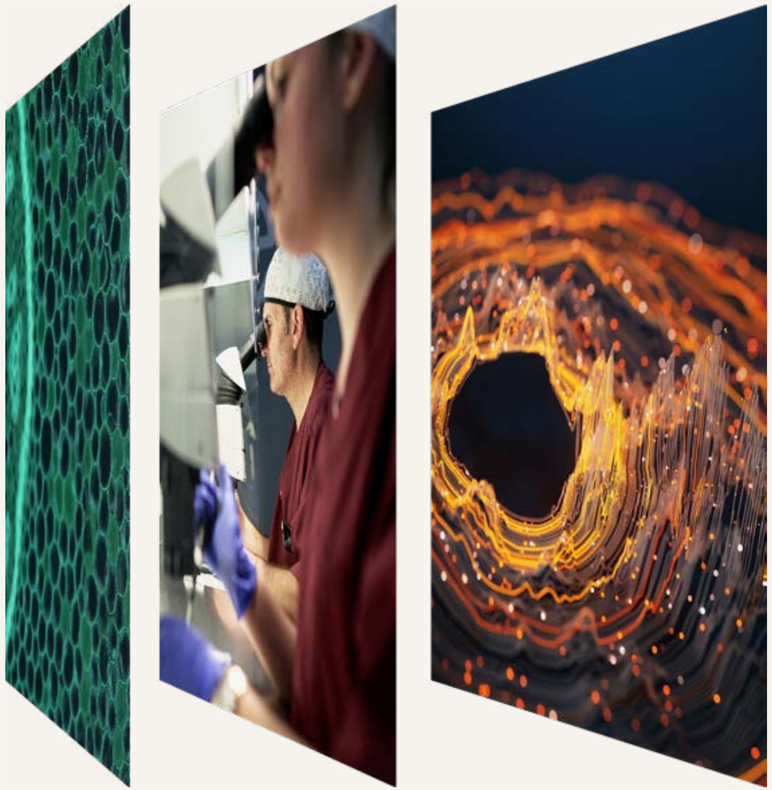
Power user tip:

Follow up: "Build a scoring table (TRL, cost range, efficiency, risks), shortlist the top 3 pathways, and list next pilot steps" then use Find funding for relevant pilot calls and export as PDF.

Turn insight into action:
Find funding
30-sec video

Chemical & Materials

Use cases and prompts



“It would take me maybe a working day or working day and a half to do [the basic research]…this would help me do that part in an hour versus the one and a half days”

R&D Materials Engineer
Global technology leader in automation

“[LeapSpace] picked out the relevant articles…maybe I would have spent 45 to 60 minutes in coming up with this list …an hour’s work got reduced to a few seconds.”

Technology Partnerships Manager
Leading chemicals and industrial gas provider

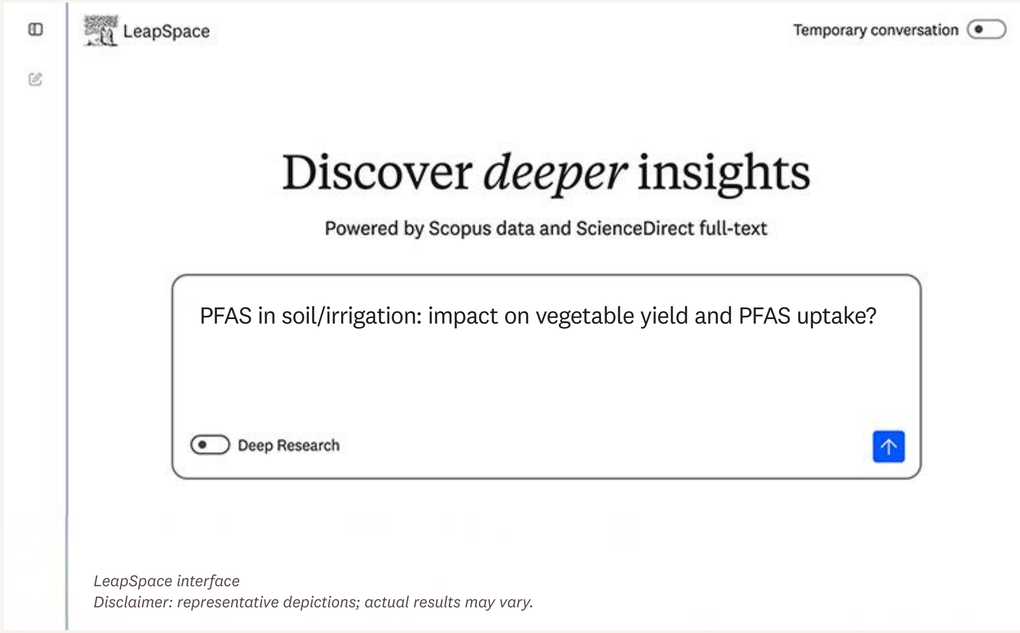
Chemicals & Materials

1

Use Case: Evidence review for PFAS impact on vegetable cultivation

- **Why it matters now:** PFAS limits are tightening. Teams need evidence on yield impacts + edible-tissue uptake to guide risk/mitigation.
- **Category:** Chemicals & Materials (Environmental, Health, and Safety /Agrochemicals)
- **User:** corporate R&D or regulatory functions
- **Feature:** Standard search mode (quick exploration) • Copilot (traceable + automatic decision to analyze abstracts, full text, or both + cited/structured response (references built in) + Trust Card.
- **Content:** Content: Scopus (publisher-neutral abstract layer for breadth) • ScienceDirect (peer-reviewed full text for methods, results, limitations)

1 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Follow up: “Make a table (PFAS, crop, tissue, exposure level, effect size, study type) with citations.” Click citation ➔ “Link to statement” before reusing any number.

Watch quick search with this prompt in action

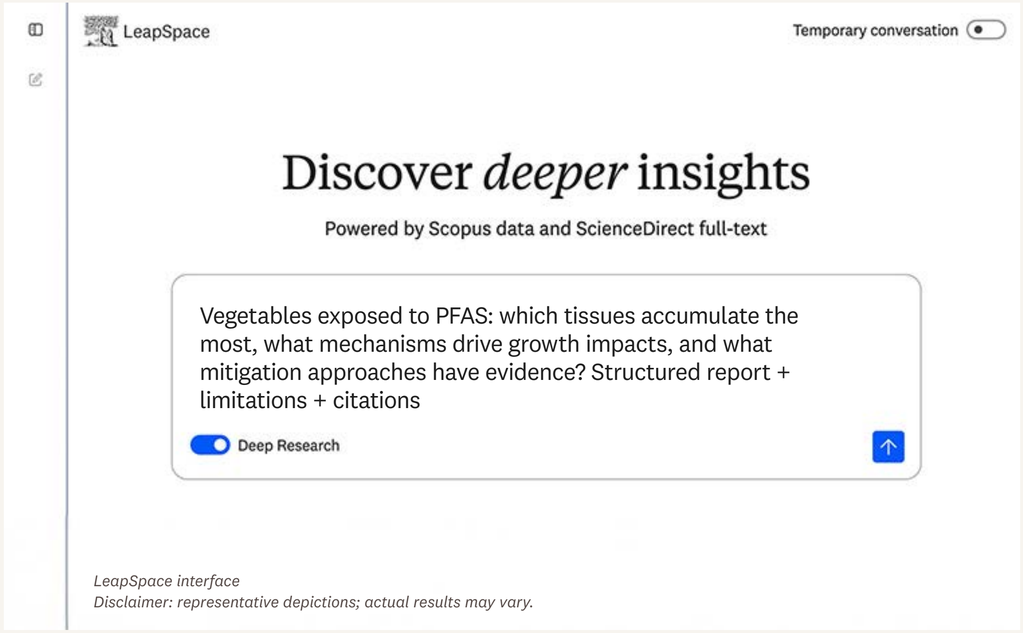
Chemicals & Materials

2

Use Case (Deep research mode): Broader exploration and evidence review for PFAS impact on vegetable cultivation

- **Why it matters now:** Multi-page evidence pack for regulatory/R&D decisions: tissue accumulation, mechanisms, mitigation evidence + traceable citations.
- **Category:** Chemicals & Materials (Environmental, Health, and Safety /Agrochemicals)
- **User:** corporate R&D or regulatory functions
- **Feature:** Deep Research mode (multi-agent) • Deep Research steps ➔ Reference details
- **Content:** Scopus (publisher-neutral abstract layer for breadth) • ScienceDirect (peer-reviewed full text for methods, results, limitations)

2 **Prompt example**



LeapSpace interface
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Power user tip:

Follow up: “Convert into a monitoring + decision checklist (sampling matrix, key confounders, study-quality flags) with citations.”

Watch **Deep research** in action

Technology

Use cases and prompts

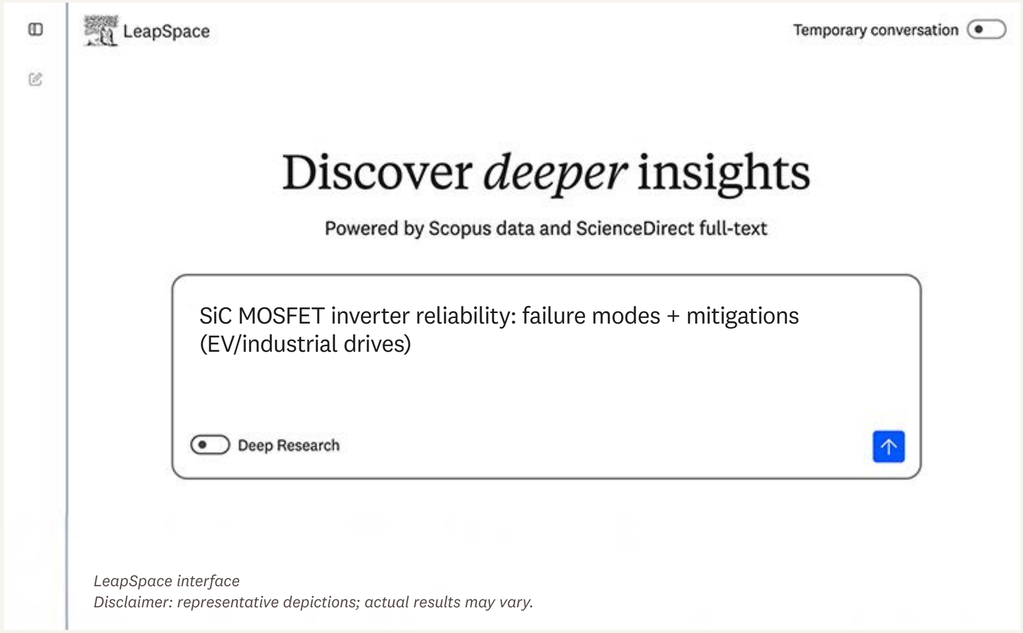
Technology

1

Use Case: Reliability risk scan for semiconductors/ power electronics (design constraints + standards)

- **Why it matters now:** SiC power electronics are scaling fast; reliability risks and standards constraints drive qualification cost and recall risk.
- **Category:** Technology • Semiconductors • Power electronics • Mobility/industrial systems
- **User:** Hardware R&D • Systems architect • Reliability/validation lead
- **Features:** Standard search mode (fast exploration) • Copilot (agentic planner) steps • Topic Overview • In-text citations ➔ Reference details/Trust Card (Link to statement: excerpts/ abstracts) • Follow-up suggestions/questions
- **Content:** Scopus breadth + full-text depth for methods/results/limitations

1 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Follow up: “Turn this into a qualification checklist (stressor ➔ test ➔ pass/fail ➔ instrumentation) with citations.” Verify 2 “measured impact” claims via “Link to statement”.

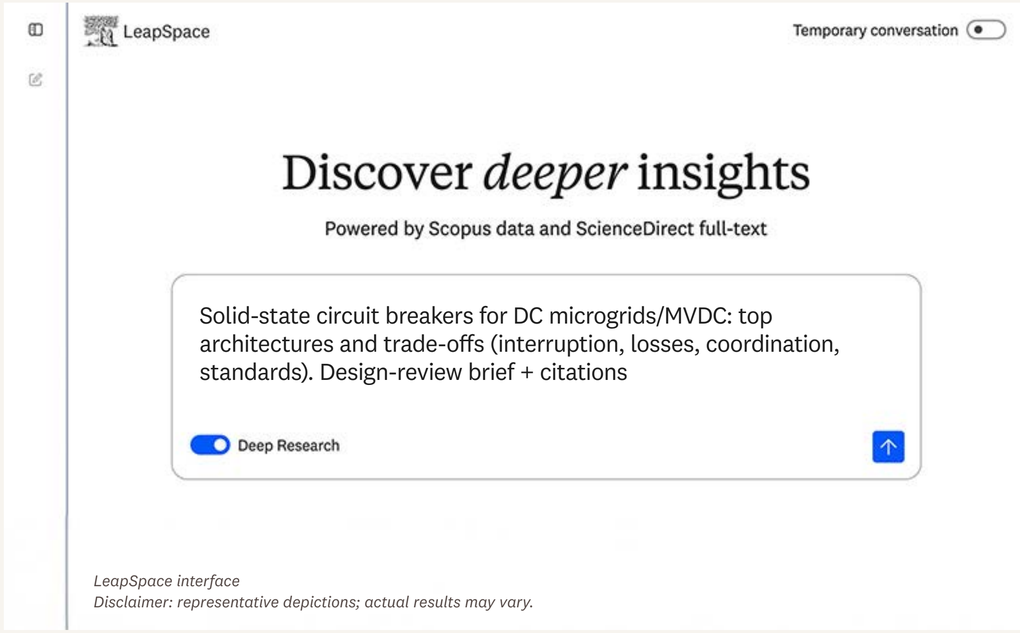
Technology

2

Use Case (Deep research mode): Systematic review + architecture trade-offs (DC grids / MVDC)

- **Why it matters now:** DC microgrid/MVDC architecture choices hinge on protection (SSCBs, coordination) and standards readiness.
- **Category:** Technology • Grid electronics • DC microgrids/ MVDC · Standards
- User: Power systems R&D • Product mgmt. • Standards/compliance
- **Features:** Deep Research mode (multi-agent) • Deep Research steps • research plan/report • In-text references ➔ Reference details/Trust card • Find collaborators • View as PDF
- **Content:** Deep Research + heavy reference base is a core demo highlight • Publisher neutral

2 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Use Key Findings as a design-review gate: confirm the top performance claim via citation ➔ “Link to statement”; then follow up: “Create a trade-off table with cited metrics + standards gaps.”

Pharma & Biotech

Use cases and prompts

“Researchers frequently face competing demands between comprehensive literature reviews and lab work. LeapSpace accelerates literature search and analysis without requiring advanced techniques such as Boolean logic. In Deep Research mode, you get detailed, reference-rich reports with traceable sources drawn from Scopus abstracts and peer-reviewed full-text articles. Based on my early experience, LeapSpace brings a wide range of research tasks into a single workspace, giving scientists more time to think deeply and collaborate more effectively.”

Senior Information Specialist
Global pharmaceutical company

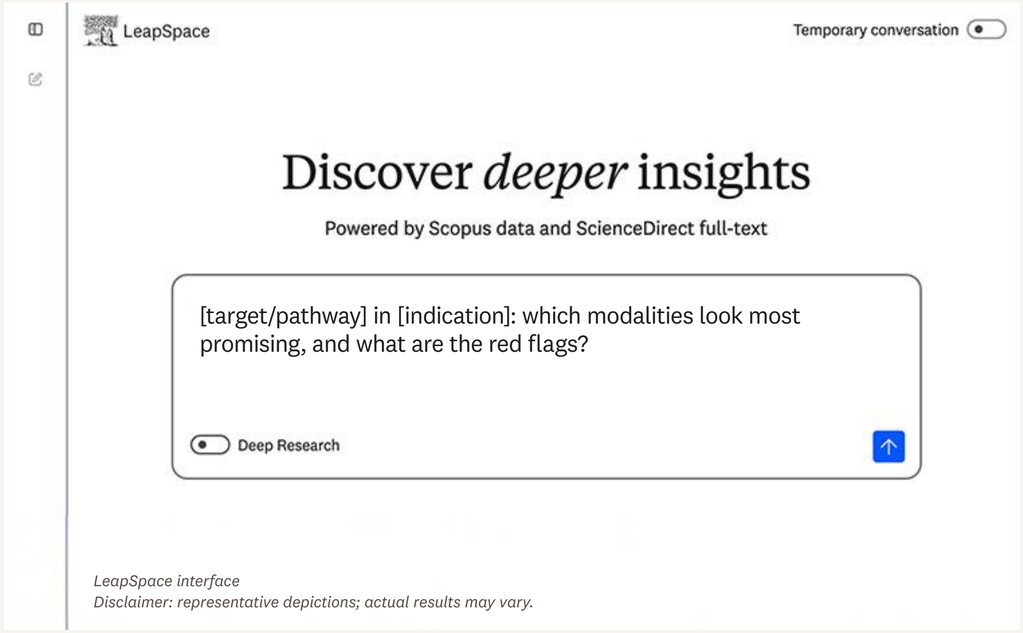
Pharma & Biotech

1

Use Case: Evidence triage for target and modality decisions (discovery)

- **Why it matters now:** Early target/modality decisions are expensive to reverse; fast evidence triage helps focus on true signal + avoid blind alleys.
- **Category:** Pharma • Drug discovery • Target/MoA triage
- **User:** Medicinal Chemist • Computational Chemist • Discovery Project Lead
- **Features:** Standard search mode (quick exploration) • Copilot (agentic planner) steps • Topic Overview • In-text citations ➔ Reference details/Trust Card (Link to statement: excerpts/ abstracts) • Follow-up suggestions/questions
- **Content:** Scopus (publisher-neutral breadth) • ScienceDirect (peer-reviewed full text depth)

1 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Follow up: “Build a modality matrix (MoA, stage, efficacy signal, liabilities, biomarkers/ patient selection) with citations.” Click “Link to statement” for any key claim.

Watch **Deep research** in action

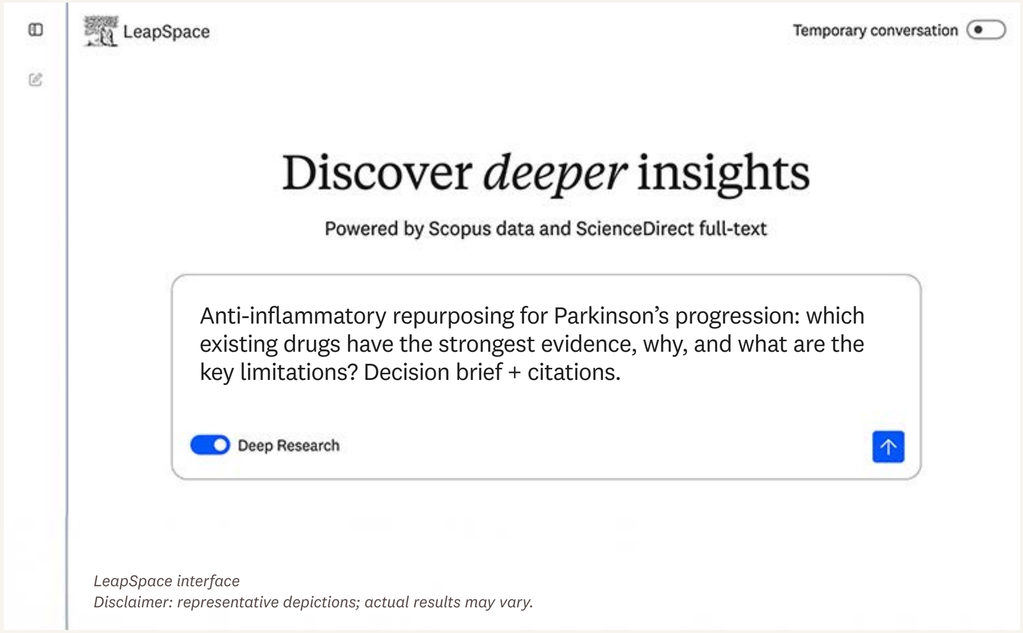
Pharma & Biotech

2

Use Case (Deep research mode): Decision brief for indication expansion / repurposing

- **Why it matters now:** Decision brief for repurposing/ indication expansion: evidence strength, feasibility, and clear gaps (cited).
- **Category:** Pharma • Translational science • Portfolio / indication strategy
- **User:** Translational Medicine Lead • Clinical Scientist • Scientific/Medical Writer
- **Features:** Deep Research mode (multi-agent) • Deep Research steps • Deep research report • In-text references ➔ Trust card via "**Link to statement**" • Follow-up question Content: Scopus + ScienceDirect (methods, results, limitations)

2 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Follow up: "Rank candidates by evidence strength + feasibility (BBB exposure, dosing, safety, endpoints) and flag missing data." Verify top 2 claims via "Link to statement".

Welcome to LeapSpace Youtube Playlist

Medtech

Use cases and prompts

“I trust the result very much and this is different to what I usually do. Usually, I search then I then I try to refine and then I search for verification or validation…when I really could limit that time, that would be very beneficial for me.”

Engineering Quality Manager
Top 10 Medtech company

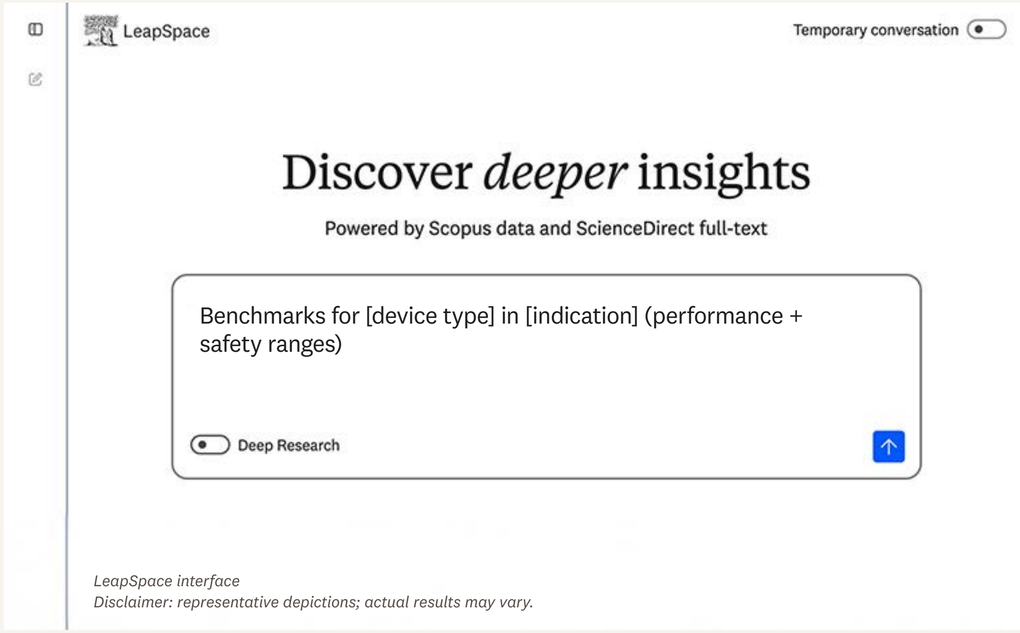
Medtech

1

Use Case: SOTA scan of current devices + clinical benchmarks (for clinical indication device function)

- **Why it matters now:** Device landscapes move quickly; teams need current benchmarks to set specs, positioning, and evidence strategy
- **Category:** Medtech • Device R&D • Clinical evidence triage
- **User:** Clinical Scientist (device) • Biomedical / Systems Engineer • Medical Affairs (evidence lead)
- **Features:** Standard search mode (quick exploration) • Copilot (agentic planner) steps • Topic Overview • In-text citations ➔ Reference details/Trust Card • Cited Source Alignment • Follow-up suggestions/questions
- **Content:** Scopus (publisher-neutral abstracts + metadata) + ScienceDirect (full-text depth where available)

1 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Benchmark-first: “Create a table (device archetype, primary endpoint, best-reported range, study setting) with citations.” Click “Link to statement” for any benchmark you’ll reuse.

How to access Reading Assistant and Compare Experiments from LeapSpace

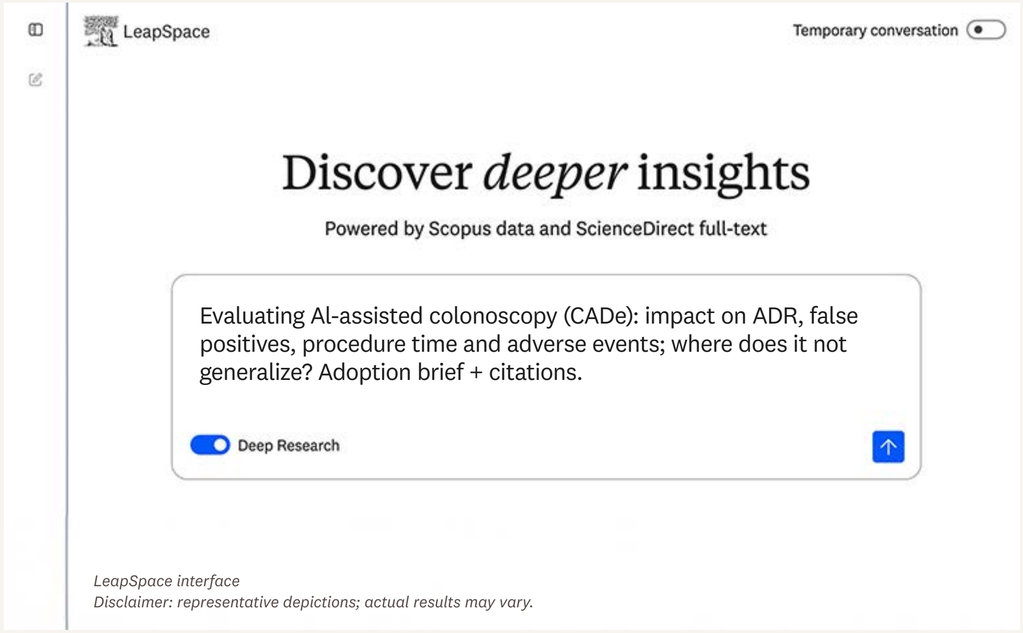
Medtech

2

Use Case (Deep research mode): Clinical evaluation brief for device adoption (benefit + harm + workflow trade-offs)

- **Why it matters now:** Adoption decisions require evidence on benefit–harm–workflow trade-offs and generalizability before clinical/regulatory sign-off.
- **Category:** Medtech • Clinical evidence • Devices & diagnostics • SaMD/AI validation
- **User:** Clinical Affairs/Medical Affairs • Regulatory/QA • Product / Evidence lead
- **Features:** Deep Research mode (multi-agent) • Deep Research steps • Key Findings Table • In-text references (audit trail) ➔ Reference details • Trust Card via “Link to statement” • Follow-up question • View as PDF
- **Content:** Scopus (cross-publisher breadth) + ScienceDirect (full-text depth where available)

2 **Prompt example**



LeapSpace interface
Disclaimer: representative depictions; actual results may vary.

Power user tip:

Use Key Findings as triage. Follow up: “Summarize the 3 strongest studies (design, population, endpoints, effect size, limits) in one table with citations; confirm endpoints via ‘Link to statement’.”

Take 2 minutes to watch LeapSpace Demo 2m-video

Start using LeapSpace
Your research-grade AI-assisted workspace built on trusted science

Register | Sign in