

Scopus AI: Trusted content. Powered by responsible AI

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Elsevier

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Q&A

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Welcome 🍌

Feel free to ask the host and panelists questions

Type your question here...



Q&A



Chat



Raise Hand

Zoom Group Chat

To: All panelists and attendees

Type message here ...



Background

Empower your research journey with
Scopus AI — your dynamic
GenAI-powered research companion.

Taking Responsible AI principles seriously



1. We consider the real-world impact of our solutions on people



2. We take action to prevent the creation or reinforcement of unfair bias



3. We can explain how our solutions work



4. We create accountability through human oversight

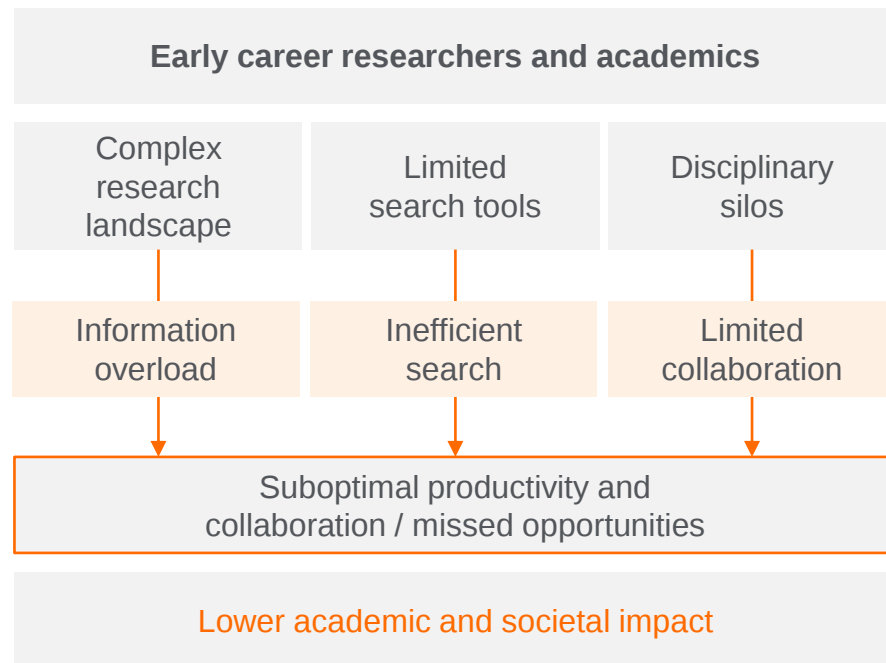


5. We respect privacy and champion robust data governance



Introducing Scopus AI

There are many challenges in research today

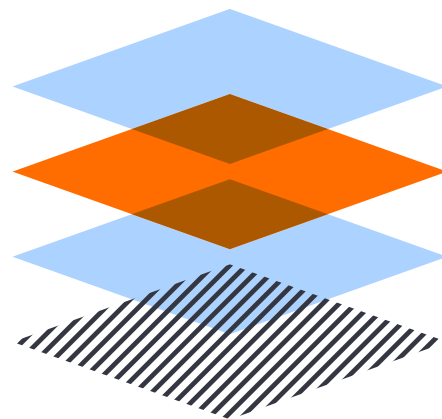


Current tools fail to get you up to speed quickly

Current tools fail to give a focused, easy-to-use summary of unfamiliar research fields, making it difficult to quickly understand important ideas and find connections with potential collaborators.

While traditional tools falter, Scopus AI with generative AI aims to offer brief and reliable summaries of research topics.

This will help you conduct research more efficiently, find relevant information, and facilitate effective collaborations across different disciplines.



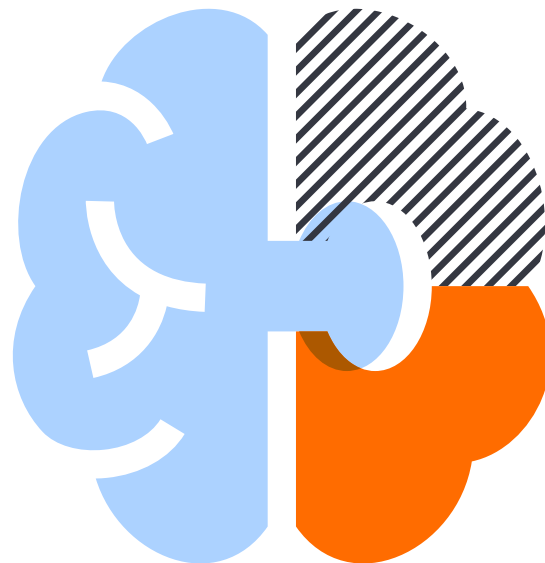
Introducing Scopus AI

Meet Scopus AI.

Our new AI-powered academic search tool uses top-notch peer-reviewed research to provide you with focused and easy-to-understand insights on new terms, concepts and disciplines.

We are collaborating with the research community to lead the development of innovative generative AI techniques for researcher tools.

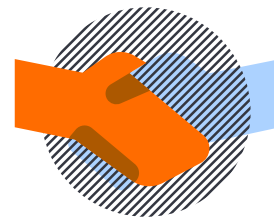
Join us! Let's discover this together.



Scopus AI derives its strength from four primary pillars.

Pillar 1: Trust

Strength	Trusted content	Minimizing hallucinations	Transparency	Limiting bias
Proof Point	All sources on Scopus have been selected by subject matter experts in their field, so you can always trust the content	Scopus AI follows strict prompts ensuring all information comes from curated sources with clear references	This is not a 'black-box', Scopus AI shows its workings so you can decipher how it reached its answers	Scopus AI has taken steps to minimize the risk of bias responses, e.g. for queries that exacerbate prejudice or stereotypes



Scopus AI derives its strength from four primary pillars.

Pillar 2: Community

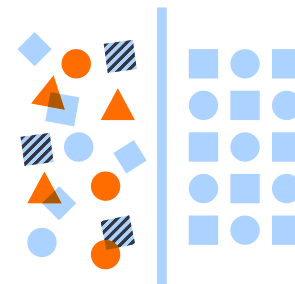
Strength	Community verification	Community collaboration
Proof Point	The Scopus content has been selected and vetted in collaboration with boards of subject matter experts from within the research community	Scopus AI is an iterative tool, A constant loop of community feedback means it continues to evolve in line with the needs of its users



Scopus AI derives its strength from four primary pillars.

Pillar 3: Enhanced & accelerated outcomes

Strength	Accelerated access to knowledge <i>within & about</i> research	Enhanced outcomes across the research lifecycle
Proof Point	Scopus AI search & summaries are designed to save you time by providing you instant access to the most pertinent information related to your query	Scopus AI synthesizes thousands of papers' abstracts and linked connections, delivering richer insights to inform your most important decisions



Scopus AI derives its strength from four primary pillars.

Pillar 4: Full-spectrum understanding

Strength	Explore the frontiers of research	Bridge the knowledge gap	See the full picture
Proof Point	The Scopus AI knowledge graph and RAG fusion powered expanded summaries lead you to the frontiers of a discipline, pointing to notable gaps for impactful future research	Instant summaries of essential information give you the knowledge and confidence to collaborate across disciplines straight away	Scopus AI leverages best in class linked data sets to instantly map the funders, experts and institutions vital to your next research project





How does it work?

The 6-step process

How does it work?



Step 1:

Curation of high-quality Scopus content



Step 2:

Query formulation



Step 3:

Scopus AI: Vector Search & Result Generation



Step 4:

Language Learning Model (LLM) summary generation



Step 5:

Cited references for validation and transparency



Step 6:

Explore further with features like “Go deeper” and “Concept map”

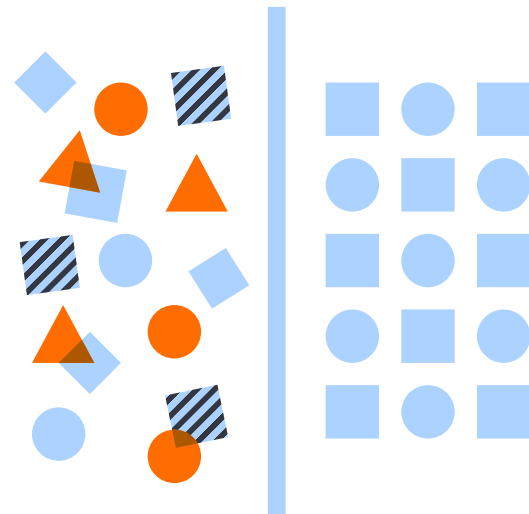
Developed according to our **Responsible AI Principles¹**

Explore these **6 steps** in greater detail on the following slides.

Curation of high-quality Scopus content

The Scopus collection of high-quality, reliable academic content informs the results

1. Scopus AI is informed by **the high-quality, reliable, curated academic content** that the research community knows and trusts.
2. Data is **updated daily**, ensuring the most recent content is included.
3. Abstracts of **all content types** are used for summaries, and prompt engineering minimizes the use of irrelevant documents.

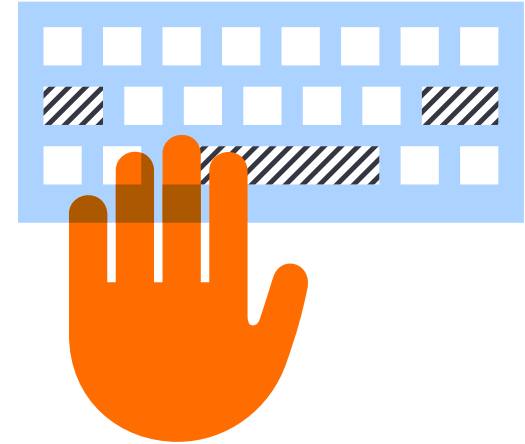


You can be confident that your summary is based on expert-vetted, curated information, generated via a transparent content selection process

Query formulation

You can alter your query type depending on the nature of your question and the level of information you have on the topic

- **You define the query!**
- You can add a simple keyword or phrase or a more complex paragraph, title or part of an abstract.

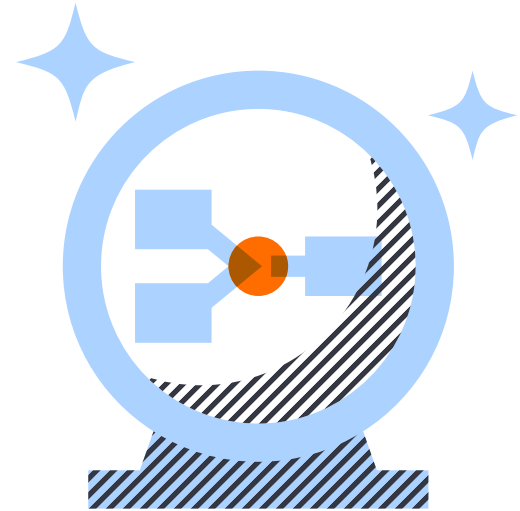


With no search string requirements, you can search based on any information you have

Scopus AI: Vector Search & Result Generation

When you submit a query, Scopus AI immediately gets to work

- Vector transformation: Your query is swiftly transformed into a vector using our **advanced language model**.
- Vector search: We pinpoint the most **pertinent academic documents** based solely on their abstracts.
- Relevance prioritized: Our proprietary **semantic relevancy algorithm** accounts for several factors, including **cosine similarity** (a trusted indicator of relevance), **the recency of the publication, and citation count** to ensure **the quality and relevance** of the results.

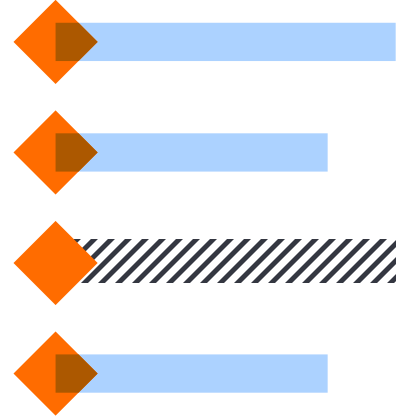


Our sophisticated approach ensures you receive only the most relevant and authoritative responses

Language Learning Model (LLM) use for summary generation

With the most relevant documents and your query in hand, the LLM is tasked to generate a summary

- The **Scopus team creates prompts** for the large language model (LLM) to generate summaries, aiming to provide essential information about a topic so that **you can quickly grasp the basics and become well-informed in that area.**
- The LLM is prompted to create a summary that attempts to answer your query using **relevant information from the abstracts selected** by the vector search.
- If a query does not result in relevant results, **the model doesn't fabricate information**, instead, it informs you that reliable information is not available. It then provides you with related prompts that you may find more useful.

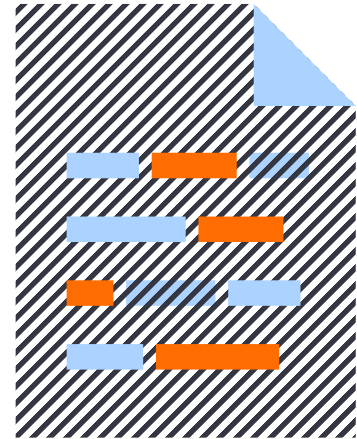


The LLM's summaries are designed to help you quickly grasp new areas, based only on reliable information. The LLM will not fabricate answers it can't provide.

Cited references for validation and transparency

With summaries grounded in Scopus citations, you can validate insights and use them with confidence

- Most importantly, **the LLM is guided to back up any claims** using the abstracts and reference them when doing so.
- **You have the citations you need to check the work of the LLM.** And what you take away from the model is substantiated by vetted references.
- **It's summarization you can trust.**



Scopus AI is built to help you validate and back up your work as you always do; it's a professional tool that fits seamlessly into your current workflows.

Deepen your exploration

Review recommended prompts to learn more about your topic, visualize your concept in the context of related fields, and more

- The 'Go deeper' questions will **prompt new questions**, helping you drill down and broaden your understanding.
- The 'Concept map' feature provides a **visual overview of the subject area** based on your query and the associated keywords with each of our abstract.
- Interested in hearing from the most influential voices in the field? The 'Foundational papers' option lists the **most high-impact Scopus papers on any topic** and 'Topic experts' displays the **top researchers** linked to your query.



Get more context and suggested next steps to deepen your exploration and continue your learning journey

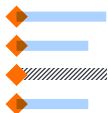
Scopus AI capabilities

Access quality insights faster using advanced technologies and expertise and high-quality, trusted data



Generative AI Models

Generative AI models are computer systems that can autonomously produce new and creative content, resembling human-generated data. *We use this technique to generate summaries of relevant publications in response to your query.*



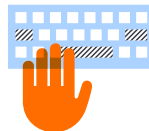
Large Language Model (LLM)

Advanced type of artificial intelligence system capable of processing and generating human-like natural language responses by analyzing vast amounts of data. *We use LLMs to generate summaries in response to your queries.*



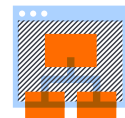
Vector search

Converting a text to an array (vector) enables complex mathematical work on the text, like finding another vector that is similar to it, using cosine similarity. Generally accepted to be more effective than other search types. *We use vector search to identify relevant publications to your query.*



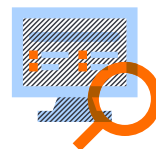
Query

Typically, user input or question posed in natural language that a search engine or LLM attempts to understand and respond to with relevant information or content. *Here, we use your query to conduct a vector search for relevant publications; then we prompt the LLM to extract information from the identified publications.*



Prompt engineering

An AI-based technique for refining prompts so that the language model optimizes the output and produces a desired response type. *We develop prompts to help you learn the foundations, context, and get up to speed quickly.*



Semantic relevancy algorithm

A sophisticated method, incorporating multiple checkpoints, for determining the relevance of search results to a query. *We use cosine similarity, publication recency and citation count to determine relevance of publications to your query.*



Scopus AI Demo

What does it deliver?

Natural language queries

Ease your search: Ask questions about a subject in a natural, conversational manner.

Visual representation of entities

See the big picture: View a graphical representation of the keywords to reveal hidden connections and insights.

Academic Expert Search

See who the experts are. Rapidly identify the leading authors based on your query alongside explanations of their relevant expertise.

Summary with Scopus references

Instant overview: Skip the lengthy reading. Read a concise and trustworthy summary with academic references for each search. Dig deeper with expanded summaries.

Foundational papers

Discover influential papers. Rapidly pinpoint seminal works, navigating academic progress and impact with precision and ease.

Deeper query exploration

Uncover more: Explore beyond the surface. Our AI offers relevant queries to discover new perspectives.

What threat does climate change pose to coffee production?

Summary

Climate change poses a significant threat to coffee production, particularly in Central America. 1. The impact of climate change on coffee production includes reduced yields, lower quality, and increased vulnerability to pests and diseases. 2. The Intergovernmental Panel on Climate Change (IPCC) predicts that climate change will decrease worldwide coffee yields and reduce suitable land for coffee production by 2050. 3. The changing climate imposes greater pressure on coffee production systems, which has direct consequences on the livelihoods of coffee producers. 4. [Read more](#)

[Show all references](#)

Expanded summary

Climate change poses several threats to coffee production, affecting plant growth, development, quality, and flavor. Here are the key findings from the relevant abstracts:

1. Climate change negatively affects coffee plant growth and development due to increased frequency of extreme climate events, such as drought and heat stress. 1 2 3

[Show all references](#)

Download

Foundational papers

The Impact of Climate Change on Indigenous Arabica Coffee (Coffea arabica): Predicting Future Trends and Identifying Priorities

A.P. Davis, Aaron P., T.W. Gole, Tadesse Woldemariam, S. Baena, Susana, J.F., Moat, Justin F.

PLoS ONE 2012

[Show more foundational papers](#)

269 citations

Topic Experts

Ramalho, José C. J. C.

3578 citations 5 matching documents 41 h index

José C. Ramalho is an expert in the impact of climate change on coffee production, as evidenced by their research on the biochemical and molecular responses of coffee plants to supra-optimal temperatures and elevated CO₂, as well as their investigation into the effects of drought, warming, and high CO₂ on coffee in the context of future climate change scenarios.

Van Asten, Piet J. A. P. J.

2875 citations 3 matching documents 31 h index

Piet J. A. Van Asten is an expert in the adaptation strategies of coffee production to climate change. Their work focuses on understanding the critical thresholds for global coffee production under climate change, the influence of vapour pressure deficit on coffee ripening, and the exploration of adaptation strategies for coffee production in the face of climate change using process-based models.

How does rising global temperatures affect the growth and yield of coffee plants?

What are the specific climate-related factors that contribute to the spread of coffee diseases and pests?

How does changing rainfall patterns impact the quality and flavor profile of coffee beans?

What does it deliver?

Natural language queries

Ease your search: Researchers can ask questions about a subject in a natural, conversational manner.

Explore new topics and discover relevant references from 2013 [How it works](#)

What would you like to learn more about?

What threat does climate change pose to coffee production?



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References

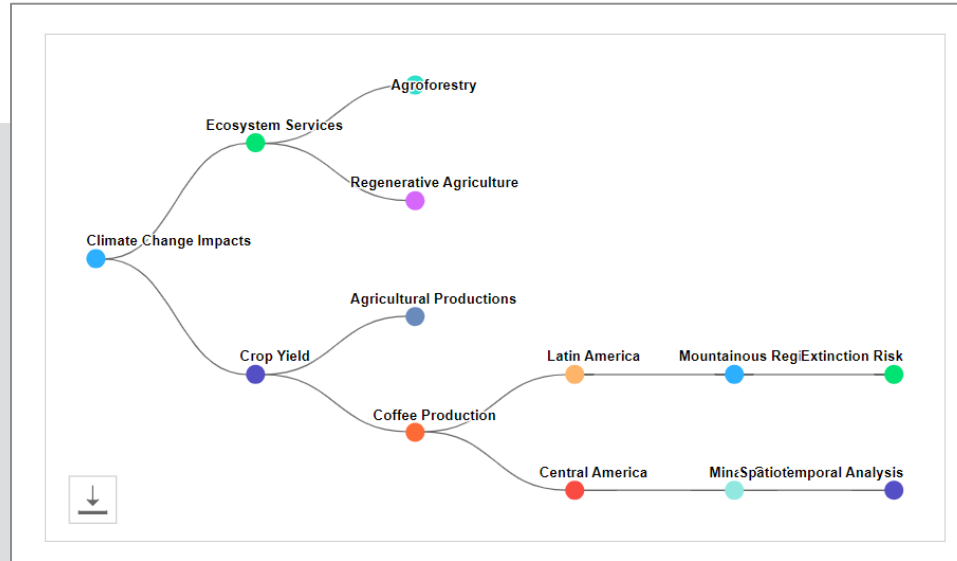
- 1 Coffee and chocolate in danger
Gross M.
Current Biology 2014
- 2 Opportunities for enhancing the climate resilience of coffee production through improved crop, soil and water management
Bracken P., Burgess P.J., Girkin N.T.
Agroecology and Sustainable Food Systems 2023
- 3 A Systematic Review on the Impacts of Climate Change on Coffee Agrosystems
Bilen C., El Chami D., Mereu V., (...), Spano D.
Plants 2023
- 4 Impact of climate change on coffee production
Guerrero-Carrera J., Jaramillo-Villanueva J.L., Mora-Rivera J., (...), Chulim-Estrella N.
Tropical and Subtropical Agroecosystems 2020

[Show all references](#)

What does it deliver?

Visual representation of entities

See the big picture: Our tool visually maps search results, offering a comprehensive overview that allows researchers to navigate complex relationships easily.



What does it deliver?

More comprehensive overview

More detail: The Expanded summary feature provides the option to view provide a more comprehensive and in-depth response.

Expanded summary

Climate change poses several threats to coffee production, affecting plant growth, development, quality, and flavor. Here are the key findings from the relevant abstracts:

1. Climate change negatively affects coffee plant growth and development due to increased frequency of extreme climate events, such as drought and heat stress . [1](#) [2](#) [3](#)
2. Specific climate-related risks to coffee production include a reduction in suitable production areas, lower yields, increased pest and disease incidence, and changes in precipitation patterns . [1](#) [2](#) [4](#)
3. Climate change impacts coffee quality and flavor by reducing the optimal areas for coffee cultivation and increasing the distribution of pests and diseases that indirectly affect coffee production . [2](#)

What does it deliver?

Foundational papers

Discover influential papers. Rapidly pinpoint seminal works, navigating academic progress and impact with precision and ease.

Foundational papers



The Impact of Climate Change on Indigenous Arabica Coffee (*Coffea arabica*): Predicting Future Trends and Identifying Priorities

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citations

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PLoS ONE ↗ 2012

Towards a climate change adaptation strategy for coffee communities and ecosystems in the Sierra Madre de Chiapas, Mexico

152

citations

G., Schroth, Gotz, P.R., Läderach, Peter Roman, J., Dempewolf, Jan, (...),
J., Ramírez-Villegas, Julián

Mitigation and Adaptation Strategies for Global Change ↗ 2009

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What does it deliver?

Deeper query exploration

Uncover more: Explore beyond the surface. Our AI offers relevant queries for further exploration, leading to hidden insights in various research fields.

- ↳ How does rising global temperatures affect the growth and yield of coffee plants?
- ↳ What are the specific climate-related factors that contribute to the spread of coffee diseases and pests?
- ↳ How does changing rainfall patterns impact the quality and flavor profile of coffee beans?

Get search and discovery built for you

With a search and discovery tool dedicated to exploring and comprehending new knowledge, you can:

- Easily access the insights you need to get up to speed quickly.
- Trust cited summaries of search topics and results, including Scopus references for validation, ensuring you can confidently share your findings.
- Prepare for more successful interdisciplinary exploration with just a simple, natural language search and a click of a button.



Scopus AI serves a variety of needs

Find references (e.g., for thesis or manuscript)

Get familiar with a new topic

Deepen my understanding of my research topic

Better articulate my hypotheses or ideas

Explain a complex topic to juniors / non academics

Collaborate with others



Thank you

Kirill Ivanov k.ivanov@elsevier.com

Galina Yakshonak g.yakshonak@elsevier.com





Q & A

Coming soon... Funding Institutional



Funding Institutional

Create Account

Sign in

- Discover relevant funding opportunities
- Gain actionable insights on the funding landscape

Get started >

Request a 2-week free trial >



Discovery

Identify new funding sources through enhanced keyword or faceted searches based on eligibility and suggestions



Insights

Get insights into the funding landscape by combining awarded grants, funder and funding opportunity data



Decisions

Increase grant success rates using data and intelligence, identifying the most eligible researchers and collaborators

Funding Institutional offers access to the following content

37,000+

Active and recurring funding opportunities

\$98+ Billion (USD)

Worth of active funding opportunity

7+ Million

Awarded grants

\$4.4+ Trillion (USD)

Worth of awarded grants

14,000+

Government and private funding organizations

*Data as of Nov 2023

Researcher Benefits

- Discover funding
- Smart funding opportunity recommendations, email alerts on deadlines, and saved searches
- Map the funding landscape in various areas of research and geographies
- Insights into funders and their previously awarded grants for competitive intelligence

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[Show all references](#)



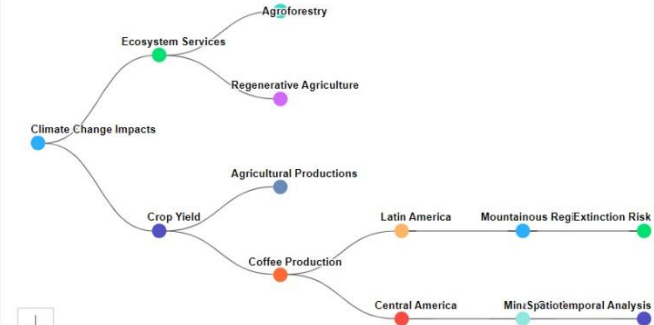
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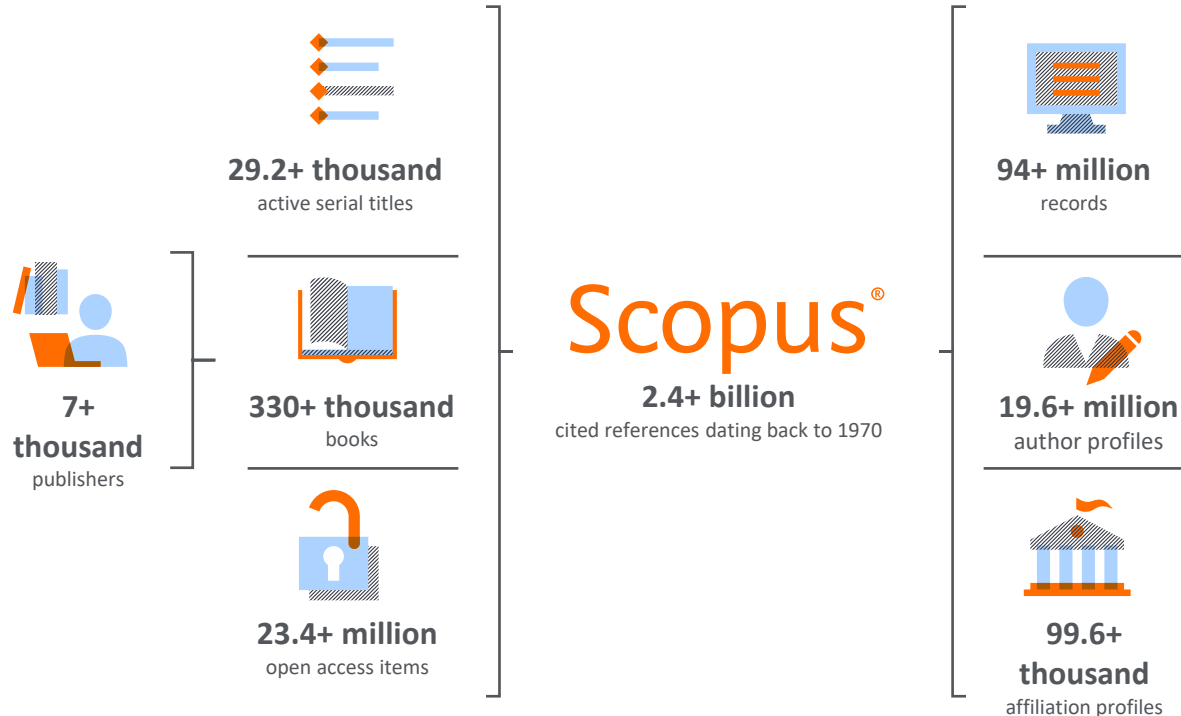
↳ What are the specific climate-related factors that contribute to the spread of coffee diseases and pests?

↳ How does changing rainfall patterns impact the quality and flavor profile of coffee beans?

Scopus foundations

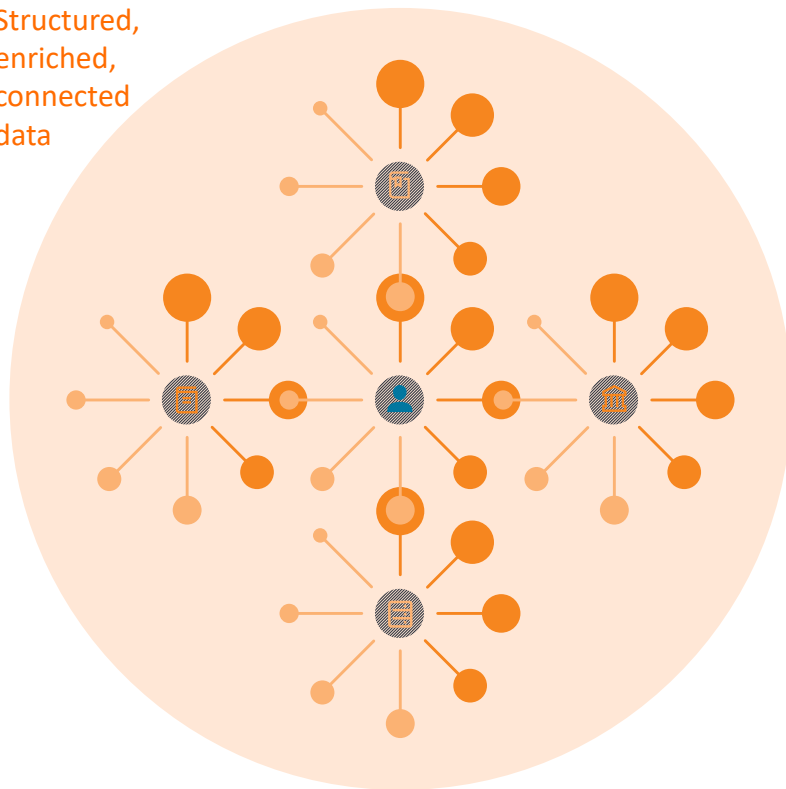
Curated, enriched and connected data that
surfaces signals about research that are
intuitive to access and understand

Enhance research and scholarship with comprehensive data and analytics

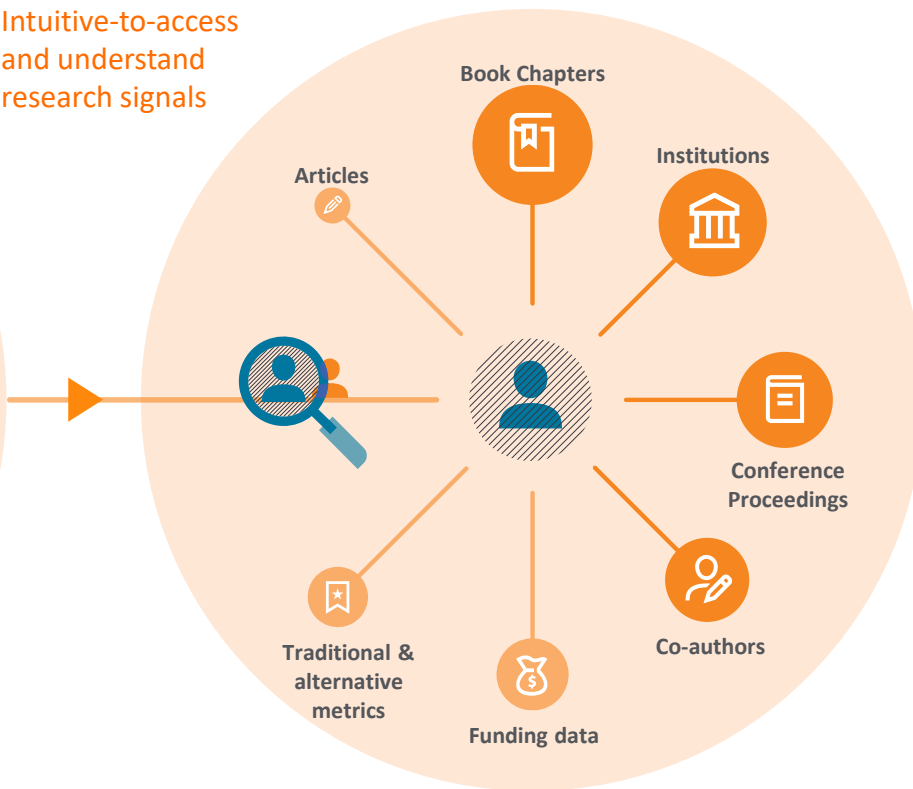


Curated, enriched and connected data delivers insights about research that are confidence-inspiring, informed by context and intuitive to access

Structured,
enriched,
connected
data



Intuitive-to-access
and understand
research signals



Comprehensive coverage

Globally sourced

- **7,000+ publishers**
- **105 countries**
- **40 languages**

Format and historically inclusive

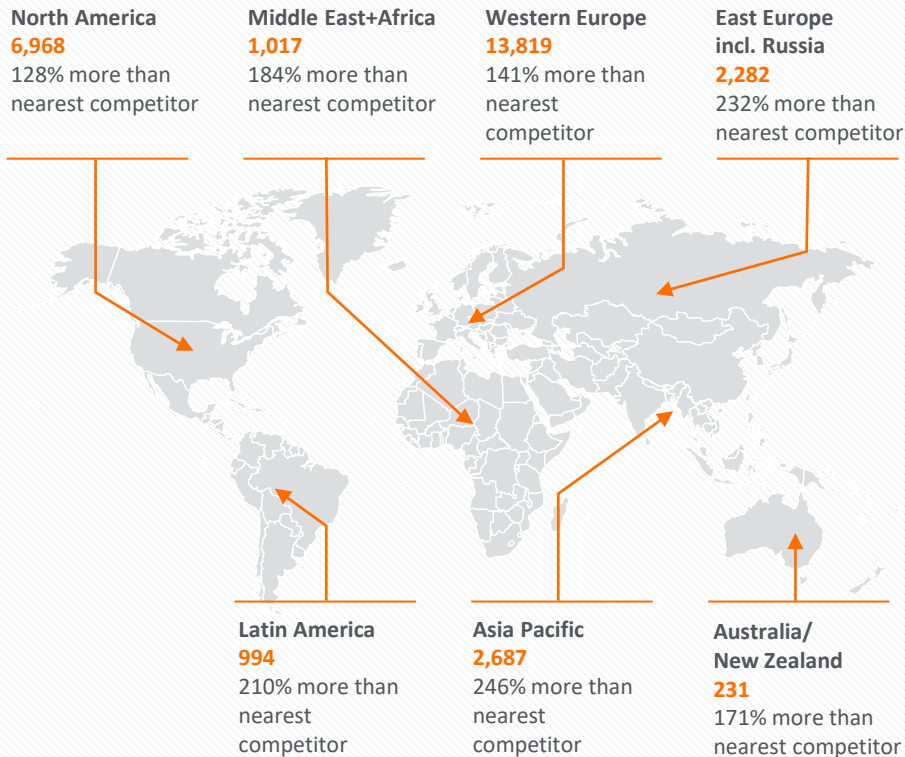
- **More curated, global content** than competitors
- Historical coverage **back to 1788**
- **23.4+ M open access documents**
- Multiple regional content types (**journals, conferences, books, book series**)

Current

- **Updated daily**

Global Representation

(number of active titles)



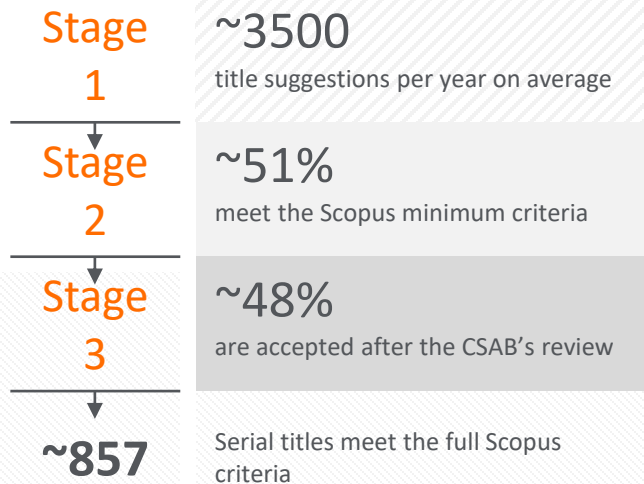
Vetted by independent experts

Scopus Content Selection and Advisory Board (CSAB)

- Independent board of subject experts from all over the world
- Comprised of 17 Subject Chairs
- Chosen for their expertise in specific subject areas; many have (journal) Editor experience.

Selection and reevaluation process

- Rigorous and transparent quality and ethics selection criteria used to evaluate potential titles
- Regularly reevaluates Scopus content and discontinues titles no longer meeting the guidelines



Scopus Coverage Summary

Global representation means global discovery across all subjects and content types

94.4M records from **29.2K** serials, **152K** conferences and **334K** books

from more than **7,000** publishers in **105** countries

- Updated daily—**13,000+** new articles per day indexed
- **23.4M+** open access documents
- “Articles in Press” from **>8,740** titles
- **2.0M+** preprints from multiple preprint servers
- **7,115** active Gold Open Access journals indexed

Number of journals by subject area**	Journals	Conferences	Books	Patents
Physical sciences 15,151	28,153* active peer-reviewed journals	158K conference events	74.3K individual book series volumes	50.5M patents
Health sciences 14,940	7,115 Gold OA Journals (DOAJ/ROAD)	12.1M+ conference papers	330K+ stand-alone books	5 major patent offices:
Social sciences and humanities 15,446	21.1M fully-indexed funding acknowledgements	12.9% of database items	2.89M total book items	• WIPO • EPO • USPTO • JPO • UK IPO
Life sciences 8,094	2.03M preprints • Full metadata, abstracts and cited references (refs post-1970 only) • Citations back to 1970	Mainly Engineering and Computer Sciences	Focus on Social Sciences and A&H	

*Journals may be classified in multiple subject areas; this count includes current actively indexed titles only

**These counts include both active and inactive titles; total number of Scopus journals in database including inactive titles is 43,400

Updated December 2023

Scopus AI

A user-centered solution

Explore new topics and discover relevant references from 2013 [How it works](#)

What would you like to learn more about?

What threat does climate change pose to coffee production?



What threat does climate change pose to coffee production?

Summary

Climate change poses a significant threat to coffee production, particularly in Central America . [1](#) The impact of climate change on coffee production includes a reduction in suitable areas for cultivation, lower yields, increased frequency of extreme climate events, and a greater incidence of pests and diseases . [2](#) Coffee farmers, especially smallholders, are highly vulnerable to these impacts . [1](#) The Intergovernmental Panel on Climate Change (IPCC) predicts that climate change will decrease worldwide coffee yields and reduce coffee-suitable land by 2050 . [3](#) To mitigate these risks, adaptive measures such as altitudinal shifts, resilient cultivars, and altering agrochemical inputs are being explored . [2](#) However, more research is needed to better understand the problem and develop timely adaptation and mitigation strategies . [4](#) Overall, climate change poses a significant threat to coffee production, which could have negative consequences for the livelihoods of coffee producers and the global coffee market . [1](#) [2](#)

References

- [1](#) Coffee and chocolate in danger
Gross M.
Current Biology ↗ 2014
- [2](#) Opportunities for enhancing the climate resilience of coffee production through improved crop, soil and water management
Bracken P., Burgess P.J., Girkin N.T.
Agroecology and Sustainable Food Systems ↗ 2023
- [3](#) A Systematic Review on the Impacts of Climate Change on Coffee Agrosystems
Bilen C., El Chami D., Mereu V., (...), Spano D.
Plants ↗ 2023

"The Scopus AI interface is intuitive and easy to use, it allows the researcher to obtain an overview of a problem, as well as identify authors and approaches, in a more agile search session than conventional search.

It is a valuable tool for literature reviews, construction of theoretical frameworks and verification of relationships between variables, among other applications that are actually impossible to delimit."

Elisenda Aguilera

Researcher at Pompeu Fabra University in Spain



[Read the full preprint](#)

Involving users in the design process



Validate user
need



Understand
researcher journey



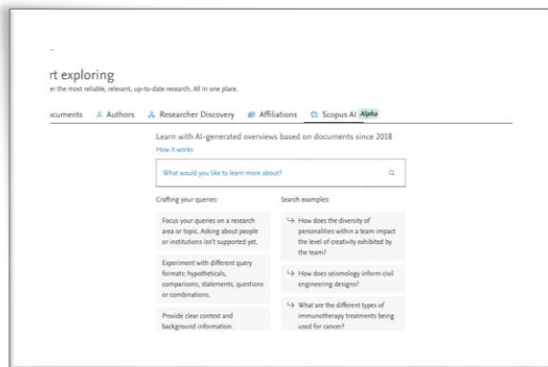
Identify
pain-points



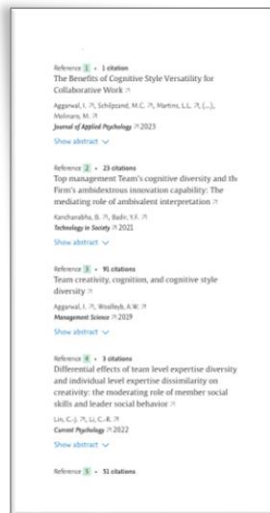
Test
new ideas

Decisions made based on user feedback

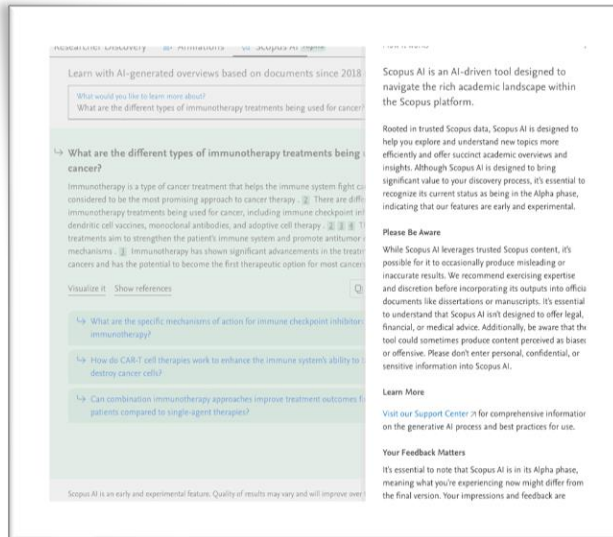
Scopus AI position in Scopus



Emphasizing references



Onboarding and guidance



Scopus AI is helpful and easy to use



Valuable and relevant information

- Appreciate data generated is based on Scopus indexed documents
- Helps further investigation and exploration the topic
- Time saver



Simple, clear, and easy-to-use interface

- Easy to learn how to use

*I like it. As a researcher, my problem is to understand the world, to organise future research directions, and to understand the main topics and how they relate. **This can take months to create, and here I get it out-of-the-box!***

*Scopus AI is **my new starting point**, not Google.*

Scopus AI is the future of how we work as researchers.