



Introduction to ScopusAI for Research

Scopus AI: Trusted content
Powered by responsible AI

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Yootapong Klinthongchai, D.E. (Dr Win)
Customer Success Manager, Elsevier
y.klinthongchai@elsevier.com



Housekeeping

- Please add your questions to the Q&A throughout the session
- We will review and address questions during the discussion section
- Thank you for your engagement!



Agenda: our commitment to you

- **Scopus foundations: Curated, enriched and connected data**
- **Introduction to ScopusAI**
- **Demonstration**
- **Q&A**

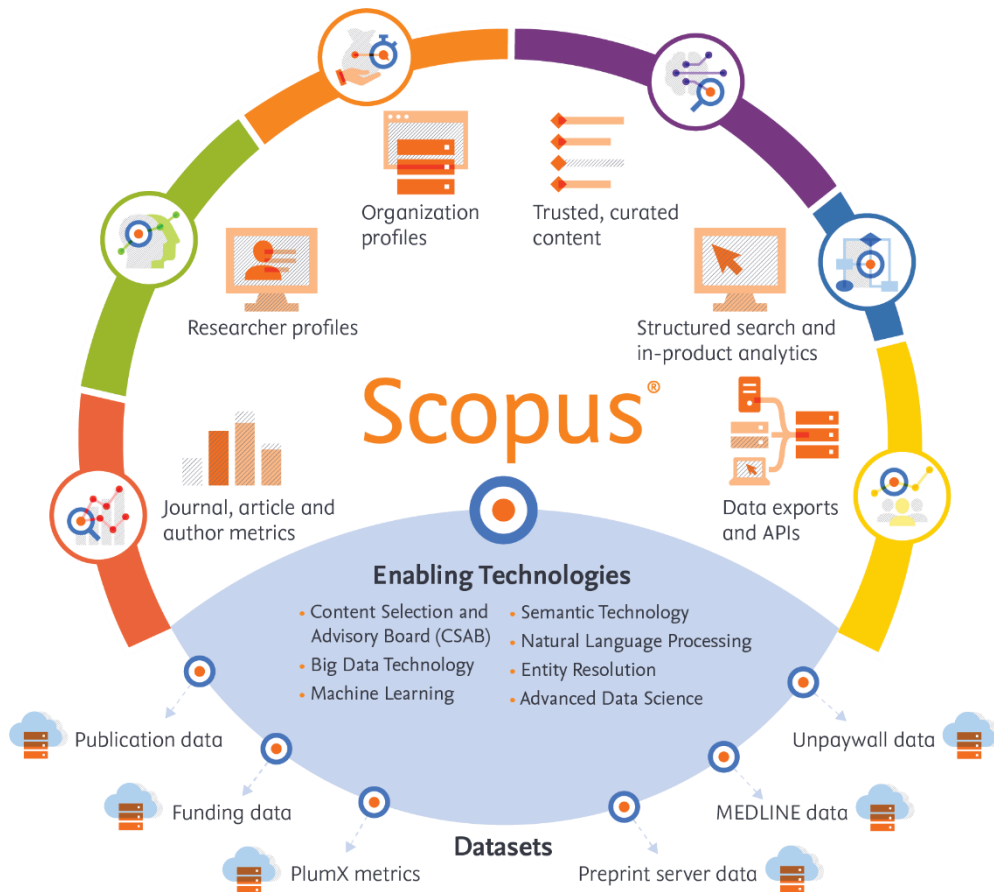
Audience Poll



How often do you use Scopus?

Scopus foundations: Curated, enriched and connected data

Scopus



Powerful search, profiles, metrics, APIs and structured data to help you **progress, evaluate and reflect** your institution's research activity

Featuring

- 90M+ items
- 94K+ organization profiles
- 17M+ researcher profiles
- **3.5M+ awards and 450+ funders**

From

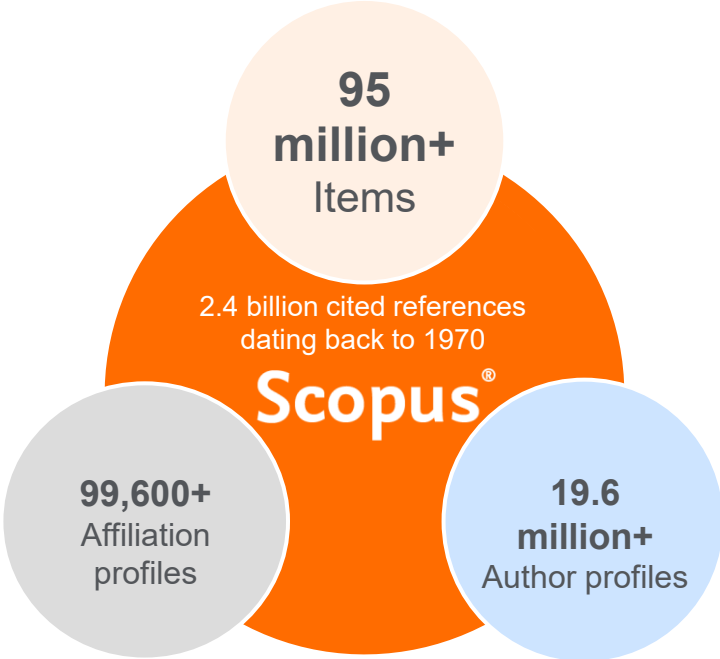
28K serials, 149K conferences, 292K books, 6,128 active Gold OA journals, from 7K+ publishers in 105 countries

- 20.74M OA documents
- 1.7M preprints from multiple servers
- "Articles in Press" from >8,740 titles

Daily updates

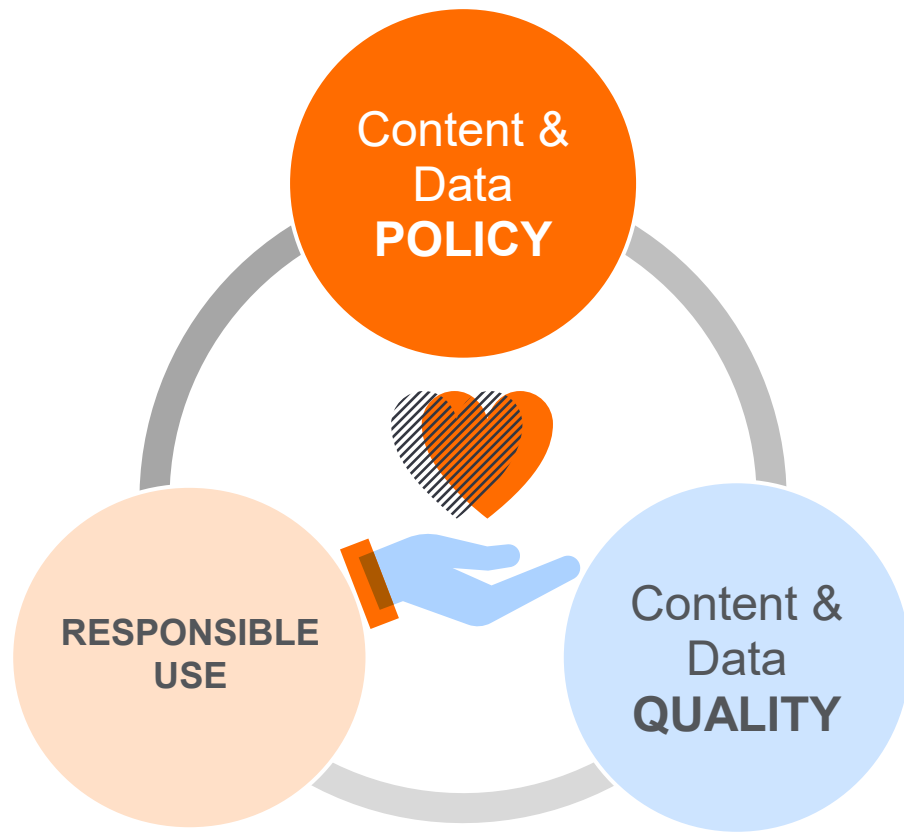
- **~11K articles indexed per day indexed**

Scopus uniquely combines curated content with enriched, linked data



Quickly find relevant and trusted research, identify experts, and access reliable data and metrics to **help the world of research make high value decisions with confidence**

Ingredients of trust for Scopus content and data



Content Selection & Advisory Board (CSAB)

Scopus is vetted by independent experts

- Independent board of subject experts from all over the world
- Comprised of **17 Subject Chairs**
- Chosen for their expertise in specific subject areas; most have (journal) Editor experience.
- Rigorous and transparent quality and ethics selection criteria used to evaluate potential titles
- Regularly re-evaluates Scopus content and discontinues titles no longer meeting the guidelines

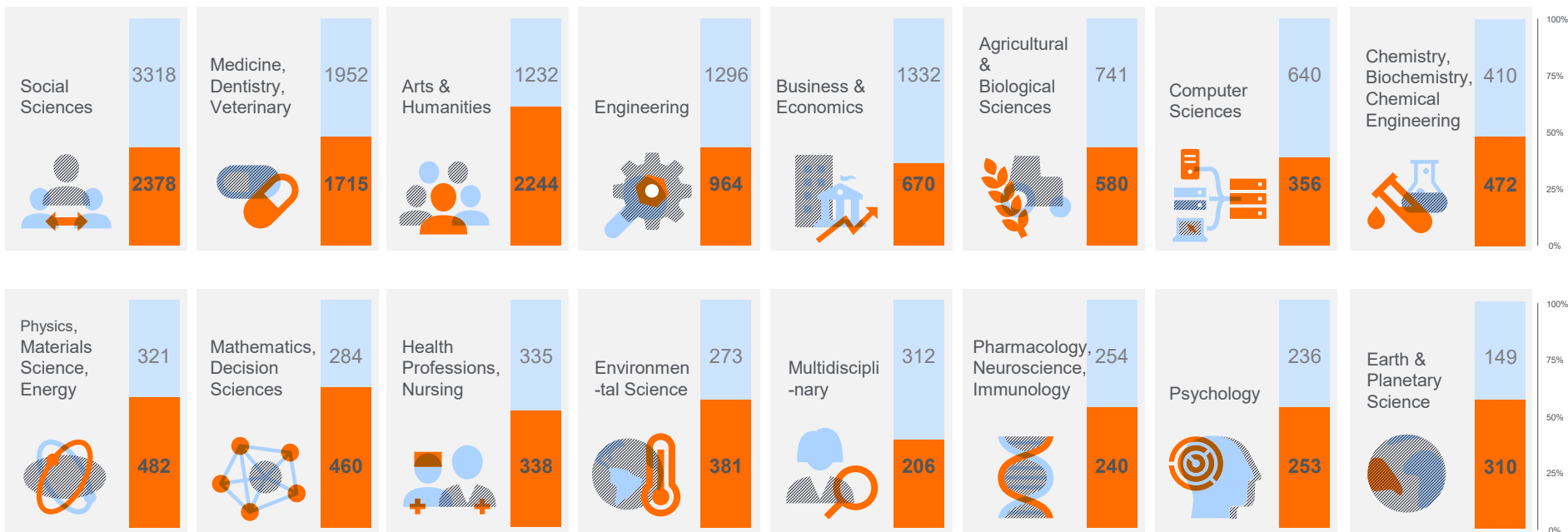


Less than 50% of reviewed titles are also accepted for Scopus

Title review results by primary subject area (2011 – February 2024)

In total, **25,169** titles were reviewed by the CSAB of which **12,078 (48%)** accepted.

Accepted Rejected



Introduction to ScopusAI

Scopus



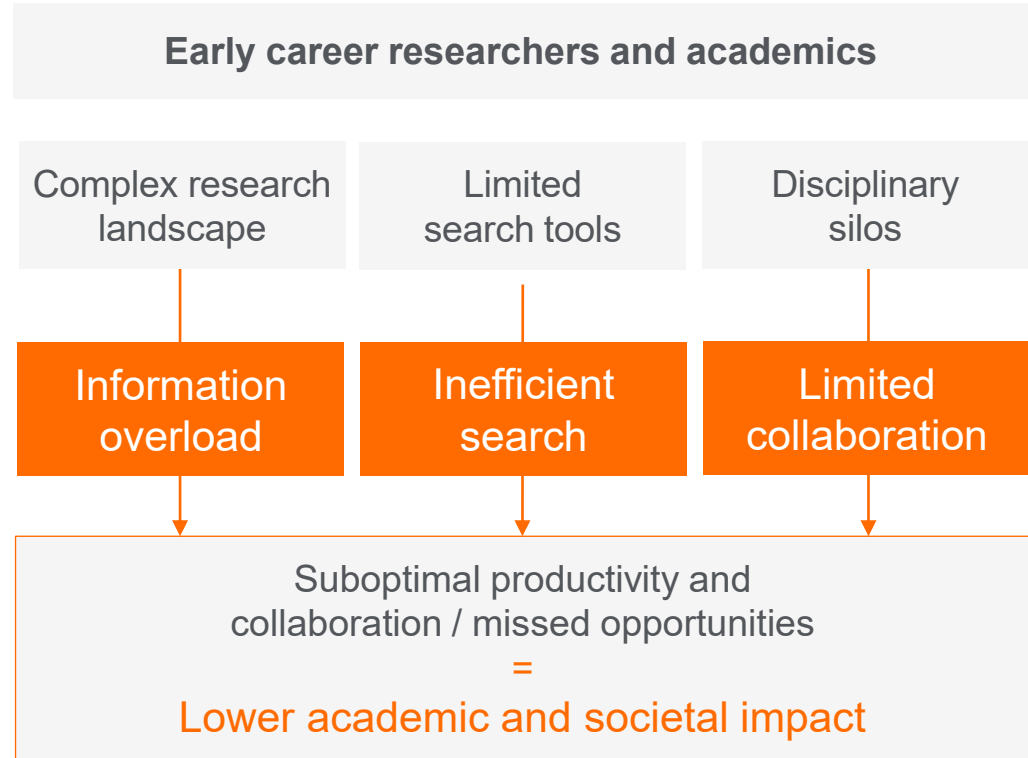
Audience Poll



What is your level of trust in using generative AI solutions to help you with your research work?

There are many challenges in research today

60% of Scopus users told us they wanted a way to learn about new topics more effectively

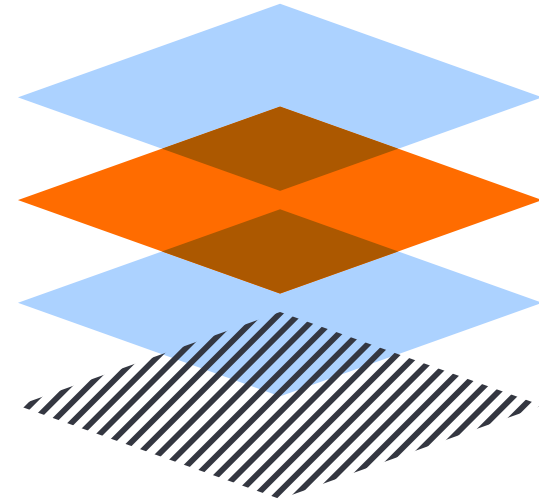


GenAI can help you get up to speed quickly

However, many of the GenAI tools on the market today are **unable to deliver the type – and range – of insights you need** when learning about a new field. For example:

- The topic essentials
- The important ideas and emerging themes
- Who the top researchers are

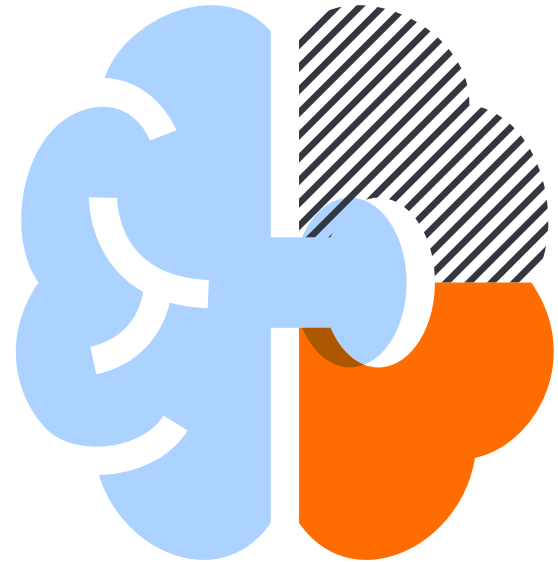
Crucially, many **lack transparency** around how they work — and even the content they draw on.



Introducing Scopus AI

Scopus AI is an intuitive and intelligent search tool informed by GenAI that draws exclusively on the trusted, curated content in Scopus.

Built in close collaboration with the academic community, it has been designed to respond to your natural language queries with focused and easy-to-understand insights on new terms, concepts and disciplines.



How do users benefit from using Scopus AI?

- **Finding references**
(e.g., for thesis or manuscript)
- **Getting familiar** with a new topic
- **Deepening understanding** of a research topic
- **Better articulating** a hypotheses or ideas
- **Explaining a complex topic** to juniors / non-academics
- **Collaborating** with others



ScopusAI

Scopus

Scopus AI today

Copilot query tool

Summary and Expanded summary

Natural language queries

Clear references

Explore topics and discover relevant references since 2003 [How it works](#)

What impact does climate change have on coffee production?

[Hide Copilot steps](#) ^

- Creating plan to answer your query
- Performing natural language search:
 - Impact of climate change on coffee production
- Performing keyword search:
 - ("climate change" OR global warming OR "climate crisis" OR "environmental change") AND ("coffee production" OR "coffee farming" OR "coffee cultivation" OR "coffee growing")
- Generating summary

Summary

Climate change has a significant impact on coffee production, affecting both yields and quality. Here are the key impacts supported by relevant abstracts:

- Reduction in Suitable Areas and Yields:** Climate change leads to a reduction in the area suitable for coffee production, lower yields, and increased intensity and frequency of extreme climate events [1](#) [2](#) [3](#) [4](#) .
- Pests and Diseases:** Increased temperature and rainfall variability induce the occurrence of pests and diseases, negatively affecting the volume and quality of coffee production [2](#) [3](#) [5](#) .
- Adaptation Strategies:** Farmers implement adaptation strategies such as selecting appropriate shade tree species, soil fertility maintenance, and pests and diseases management to minimize the detrimental effects of climate change [2](#) [5](#) [6](#) .

Expanded summary ^

Based on the user's query, I will address the impact of climate change on coffee production, the quality of coffee beans, the economic implications, the geographic distribution of coffee cultivation, and adaptive strategies for coffee farmers to mitigate the effects of climate change.

Impact of Climate Change on Coffee Production and Quality

- Recent climate change models predict that coffee production and the livelihood of millions of farmers will be significantly affected by climate change. This is due to increasing temperature and rainfall variability, which will reduce the bio-climatic suitable areas, growth, and yield of coffee, and induce the occurrence of pests and diseases [1](#) [2](#) .

References

- 1 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 71 2023
- 2 The impact of climate change on coffee production of small farmers and their adaptation strategies: a review
Jawo T.O., Kyereh D., Lojka B.
Climate and Development 71 2023
- 3 The impact of climate change and variability on coffee production: a systematic review
Pham Y., Reardon-Smith K., Mushtaq S., Cockfield G.
Climatic Change 71 2019

[Show all 7 references](#)

Deep dive: Copilot

Co-pilot enables Scopus AI to optimize queries for the best results. Testing and offline evaluation has shown it massively improves the quality of the results produced. It also enables Scopus AI to support a full range of queries, from very specific to very broad. Copilot is an advance for Scopus AI which:

- Uses **both keyword and vector search tools** to help improve specificity of results
- **Breaks down complex queries** into separate elements and optimizes them for either vector or keyword search
- Also ensures **query language is optimized** for the English Scopus corpus (e.g., corrects spelling)
- Supports **non-English language** queries
- **Accepts longer text queries**, including full abstracts
- **Considers more search results** (up from 10 in the summary and 20 in the expanded summary to a new upper limit of 30)
- Co-pilot also provides a unique transparency layer that explains exactly how the tool is breaking down/optimizing the query. **This is unique among GenAI solutions currently on the market.**

Do RPL18 mutations cause DBA?

[Hide Copilot steps](#) ^

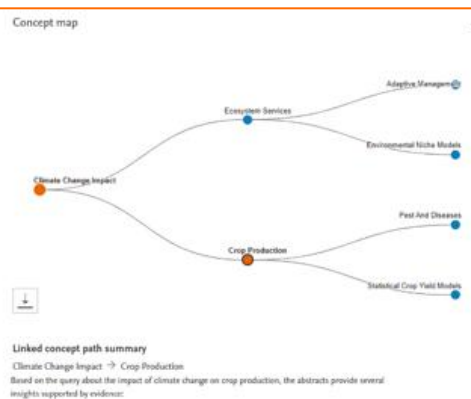
- ⌚ Creating plan to answer your query
- ⌚ Searching for relevant academic papers on Scopus based on:
 - Do RPL18 mutations cause Diamond-Blackfan anemia?
- ⌚ Searching for relevant documents in the topic of:
 - RPL18 mutations and Diamond-Blackfan anemia
 - Keyword query: ("RPL18" OR "ribosomal protein L18" OR "ribosome protein L18" OR "RPL18 gene") AND ("Diamond-Blackfan anemia" OR "DBA" OR "congenital hypoplastic anemia" OR "Diamond-Blackfan syndrome")
- ⌚ Generating summary

Summary

Based on the query about RPL18 mutations causing Diamond-Blackfan anemia (DBA), the evidence from the abstracts provides a direct answer:

Scopus AI today

Concept map



Topic experts

Emerging themes [View](#)

Microplastic Pollution in Freshwater Ecosystems [Consistent theme](#)

The persistent presence of microplastics in freshwater ecosystems continues to be a significant area of research. This theme has maintained steady interest due to the ongoing discovery of microplastic sources, their ecotoxicological effects, and the development of remediation strategies.

[Show references](#)

Potential hypotheses

- Microplastic pollution in freshwater ecosystems has a more significant impact on biodiversity than previously understood
- Innovative bioremediation techniques can significantly reduce microplastic concentrations in freshwater environments

Topic experts

Kath, Jerred M. J.M.

180 citations • 4 matching documents • IF 1.0 index

Jerred M. Kath has expertise in assessing the impact of climate change on coffee production through integrated spatial modeling, scale-dependency analysis of climate risks, and improving irrigation management for coffee farms. Their research on identifying potential coffee growing areas and determining critical thresholds for coffee production under climate change demonstrates their in-depth understanding of the subject.

[View profile](#)

Go deeper

- How does climate change affect the flavor profile of coffee beans?
- What measures can coffee farmers take to mitigate the impact of climate change on their crops?
- How does climate change influence the geographic distribution of coffee growing regions?

Foundational documents

Foundational documents

393 citations

A letter exp: climate change profile of global production of Arabica and Robusta coffee

C. Bunn, Christian, P.R., Udoewah, Peter Roman, O. Odule-Rwera, Odule, D., Kiroch, Deter

Climate Change 7 2011

214 citations

Projected shifts in Coffea arabica suitability among major global producing regions due to climate change

O. Odule-Rwera, Odule, P.R., Udoewah, Peter Roman, C. Bunn, Christian, G., G., Schoth, Gert

Plant ONE 7 2011

[Show more documents](#)

NEW: Emerging themes

Go deeper questions

What is included in a Scopus AI response?



Summary

A fully referenced Summary that includes guidance on the tool's confidence in the response



Expanded summary

An extended referenced summary that explores each query from multiple perspectives



Go deeper questions

A series of prompts designed to help you continue exploring and learning



Concept map

A clickable visual that uses keywords to provide a bird's-eye view of the topic space



Foundational documents

A list of influential articles that inspired the articles cited in the summaries



Topic experts

The top researchers in your chosen field (based on their volume of related publications)



NEW: Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity; for example, those that are new or currently underserved by the literature

Scopus AI natural language queries

Your search, your way

Ask questions on your chosen topic in a natural, conversational manner, supported by our powerful new **Copilot search tool**.

Benefits of Copilot

- Can combine both vector and keyword search
- Breaks down and optimizes queries to improve the specificity of results
- Supports queries in multiple languages
- Accepts longer text queries
- Considers more results

Copilot also provides a transparency layer that explains exactly how the tool has broken down and optimized your query. **It is one of very few GenAI solutions on the market to do this.**

Explore topics and discover relevant references since 2003 [How it works](#)

How can game theory be applied to corporate compliance programs?



How can game theory be applied to corporate compliance programs?

Hide Copilot steps 

- ⊙ Creating plan to answer your query
- ⊙ Performing natural language search:
 - Application of game theory in corporate compliance programs
- ⊙ Performing keyword search:
 - ("game theory" OR "strategic interaction" OR "decision theory" OR "interactive decision making") AND ("corporate compliance" OR "business compliance" OR "regulatory compliance" OR "corporate governance") AND ("programs" OR "initiatives" OR "strategies" OR "policies")
- ⊙ Generating summary

Summaries with Scopus references

Learn about your chosen topic

- The **easy-to-digest Summary** provides a concise response to your initial query.
- The **Expanded summary** offers more depth and a wider range of perspectives.

Summary

Climate change poses a significant threat to coffee production, impacting both yields and quality [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) . Here's a breakdown of the specific threats:

Direct and Indirect Impacts:

- Reduction in suitable production areas, lower yields, increased frequency of extreme climate events, and greater incidence of pests and diseases are direct impacts of climate change on coffee production [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .
- Changes in rainfall patterns, temperature rise, and erratic weather negatively affect the volume and quality of coffee production [10](#) [11](#) [14](#) [9](#) .

Adaptation Strategies:

- Sustainable management practices, such as agroforestry and altering agrochemical inputs, can enhance the resilience of coffee production to climate change [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .
- Relocation of coffee plantations to more climatically suitable areas, irrigation, and diversification of coffee farms with trees are potential adaptation strategies [12](#) .

Vulnerability of Smallholder Farmers:

- Smallholder coffee farmers, who represent the majority of coffee producers, are highly vulnerable to the impact of climate change due to financial insecurity and limited access to adaptation measures [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .

In conclusion, the adverse effects of climate change on coffee production necessitate urgent implementation of adaptation strategies and policy interventions to support the resilience of coffee farmers and ensure the sustainability of coffee production [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .

References

- 1 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
 - 2 Coffee in the crosshairs of climate change: agroforestry as abatis
Rice R.A.
Agroecology and Sustainable Food Systems 2018
 - 3 Coffee and chocolate in danger
Gross M.
Current Biology 2014
- [Show all 14 references](#)

Foundational documents

348 citations
A bitter cup: climate change profile of global production of Arabica and Robusta coffee
C., Bunn, Christian, P.R., Läderach, Peter Roman, O., Ovalle-Rivera, Oriana, D., Kirschke, Dieter
Climatic Change 2015

Expanded summary

Based on the user's query, I will provide a summary that addresses the impact of climate change on coffee production, including its effects on yield and quality, the specific environmental factors affected, the economic implications, and sustainable agricultural practices to mitigate these impacts.

Impact of Climate Change on Coffee Production:

- Climate change poses a significant threat to coffee production, affecting both yields and quality [1](#) [2](#) [3](#) [4](#) [5](#) .
- Adverse environmental impacts include a reduction in suitable production areas, lower yields, increased intensity and frequency of extreme climate events, and a greater incidence of pests and diseases [1](#) [2](#) [3](#) .
- Changes in temperature, rainfall variability, and soil moisture are key environmental factors affected by climate change, leading to decreased coffee suitability areas, growth, yield, and increased pest and disease pressure [2](#) [4](#) [5](#) .

Economic Implications:

- The economic implications of climate change on the coffee industry are substantial, as coffee production supports the livelihoods of over 25 million people globally, the majority of whom are smallholder farmers located in the coffee belt spanning the tropics [1](#) .
- Climate change is projected to significantly lower coffee production, with potential yield decreases between 25% and 75% by the 2050s, leading to economic challenges for both farmers and national economies [6](#) [7](#) .

Mitigation Strategies:

- Sustainable management practices are urgently needed to enhance the resilience of coffee production and livelihoods to climate change [1](#) .
- Specific adaptation strategies pursued by farmers to reduce the impacts of climate change include selecting

Transparency and context about our confidence in the responses

Reflection layer

The prompt engineering guides the large language model to signpost in the summaries how relevant the response is to your query.

In this example, the language at the top of the Summary makes it clear that confidence in the response is medium, while the last paragraph adds nuance about the information available.

* Interface and functionality subject to change

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

Do RPL18 mutations cause DBA

☒ Copilot 

Do RPL18 mutations cause DBA

[Show Copilot steps](#) ▾

Summary

Based on the available abstracts, it can be inferred that mutations in ribosomal protein L18 (RPL18) are associated with Diamond-Blackfan anemia (DBA) [1](#) [2](#) . Here's a summary of the relevant findings:

- **Association with DBA:** Mutations in RPL18 have been identified in DBA patients, and the deficiency of RPL18 mirrors the erythroid defects observed in DBA [1](#) .
- **Pathogenesis:** Research using a zebrafish model demonstrated that RPL18 deficiency leads to a lack of mature red blood cells and activates the JAK2-STAT3 pathway, suggesting its involvement in the pathogenesis of DBA [1](#) .
- **Genetic Aetiology:** Whole exome sequencing analysis identified a non-synonymous variant in RPL18 in a family with DBA, resulting in pre-rRNA processing defects [2](#) .
- **Implications:** The identification of RPL18 mutations in DBA patients provides insights into the genetic basis of the disease and its potential role in ribosomal function and erythropoiesis [1](#) [2](#) .

In conclusion, the available evidence supports the association of RPL18 mutations with DBA, shedding light on the genetic underpinnings and potential pathogenic mechanisms of the disease.

Go deeper queries

Continue learning and exploring

Scopus AI generates three **Go deeper questions** for each query that help you drill down and broaden your understanding.

↳ 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?

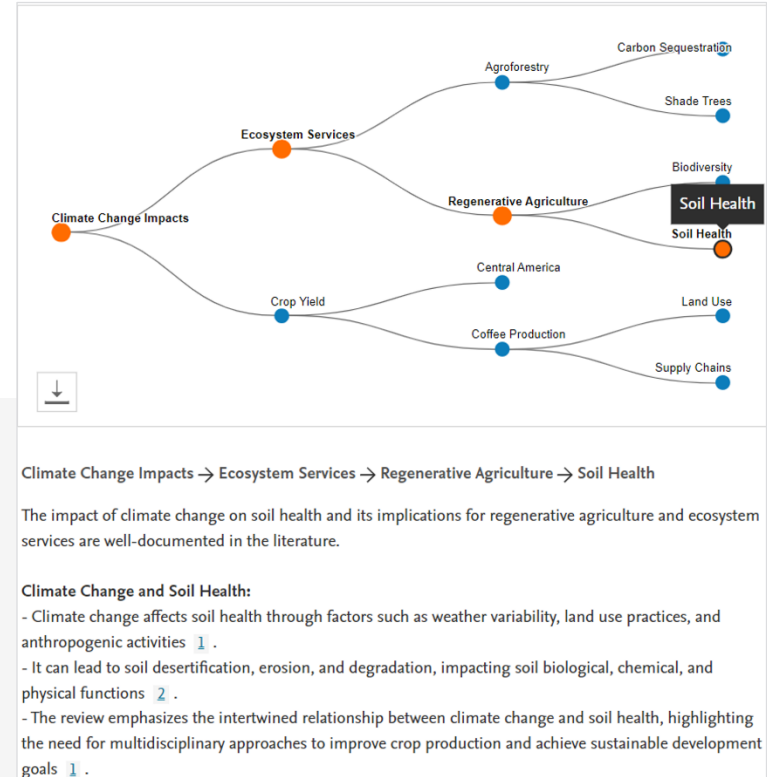
↳ How does changing rainfall patterns impact the quality and flavor profile of coffee beans?

The Concept map

See the big picture

The **Concept map** helps you get a bird's-eye view of the topic space and a more complete picture of your theme and its relationship to other research areas.

Clicking on a node will highlight how the node relates to the topic, and an explanation of the relationship will be provided beneath the Concept map.



Foundational documents

Discover influential papers

The list of **Foundational documents** illustrates which papers heavily influenced the documents that Scopus AI used to write its response, specifically the Summary.

Foundational documents

189 citations

The ribosomal basis of diamond-blackfan anemia:
Mutation and database update

I., Boria, Ilenia, E., Garelli, Emanuela, H.T., Gazda, Hanna T.,
(...), I., Dianzani, Irma

Human Mutation ↗ 2010

336 citations

Ribosomal Protein L5 and L11 Mutations Are Associated
with Cleft Palate and Abnormal Thumbs in Diamond-
Blackfan Anemia Patients

H.T., Gazda, Hanna T., M.R., Sheen, Mee Rie,
A., Vlachos, Adrianna, (...), A.H., Beggs, Alan H.

American Journal of Human Genetics ↗ 2008

[Show more documents](#)

Topic experts

Meet the experts

Scopus AI draws on the rich Author Profiles in Scopus to introduce the most active authors in your chosen field, along with explanations of their relevant expertise.

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

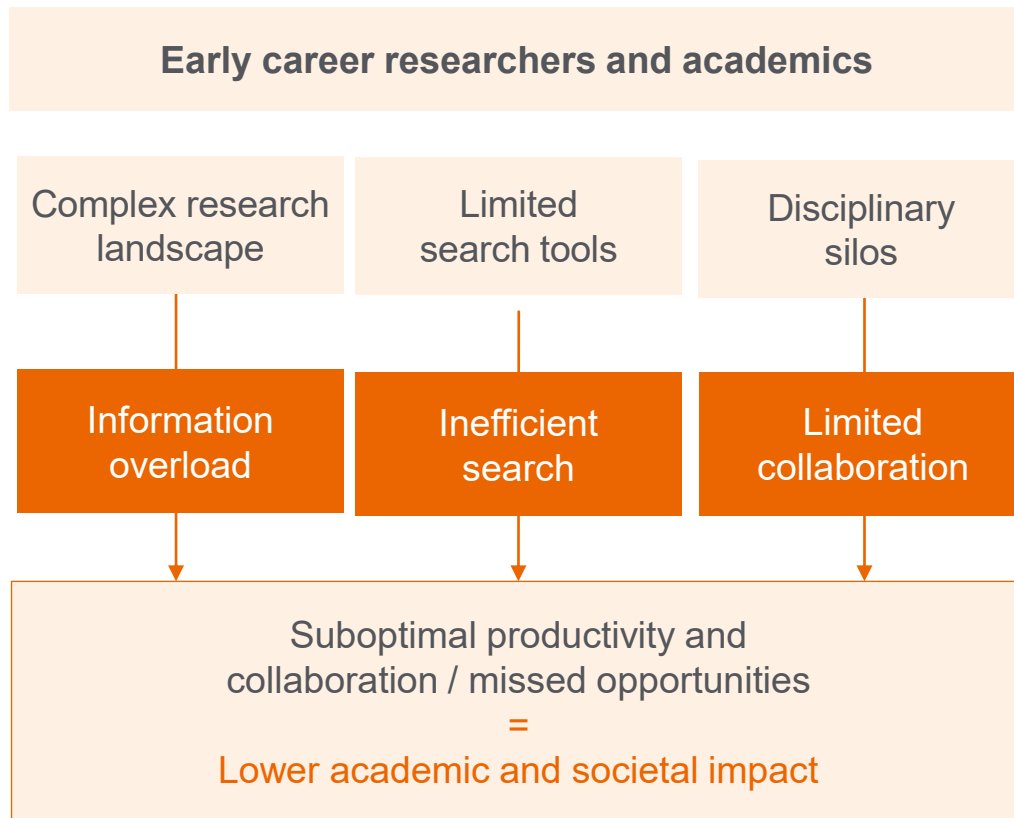
Piet J.A. Van Asten is an expert in the adaptation strategies of coffee production to climate change. Their work focuses on understanding the critical thresholds for global coffee production under climate change, the influence of vapour pressure deficit on coffee ripening, and the exploration of adaptation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

Understanding the power of Emerging themes on Scopus AI

There are many challenges in research today

60%

of Scopus users told us
they wanted a way to
**learn about new topics
more effectively**

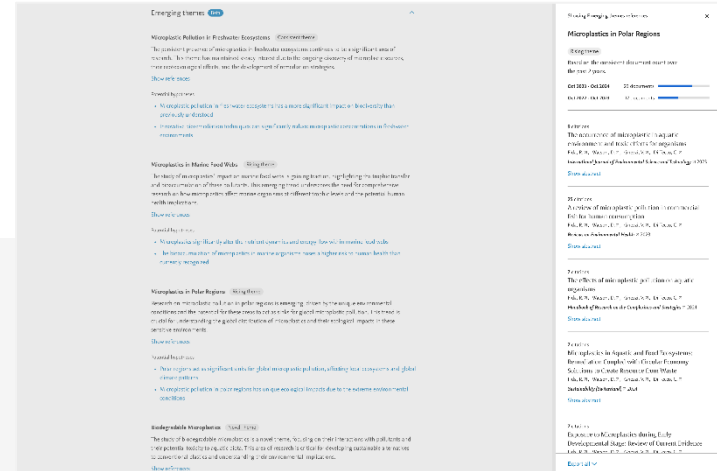


Emerging themes

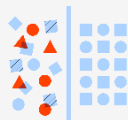
Identify your next research area

Emerging themes is the logical next step on your discovery journey.

This new feature provides a comprehensive map of the themes in your selected research area and identifies the ‘whitespace’ you can use to target your next publication, collaboration or funding opportunity.



What is included in Emerging themes?



Theme identification

Cluster similar ideas to understand the broader research landscape and key topics.



Publishing trends

Examine how research clusters evolve over time, revealing growth and emerging trends.



Hypothesis identification

Uncover research gaps and intersections to inspire innovative and impactful hypotheses.



NEW: Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity; for example, those that are new or currently underserved by the literature

What is the output of Emerging themes?

For each theme identified, Emerging themes provides:

- A** Mini descriptive **summary**
- B** Suggested research **hypotheses** for further testing
- C** **References** so you can explore the documents the summary is based upon.

Science Diplomacy in Climate Change Rising Theme

A Science diplomacy is increasingly recognized as a vital component of international climate cooperation. This theme focuses on the role of scientific research and collaboration in informing and shaping climate policy, emphasizing the importance of integrating scientific knowledge into diplomatic efforts.

[Show references](#)

Potential Hypotheses:

- B**
- Science diplomacy can bridge gaps between scientific research and policy-making, leading to more informed and effective climate action
 - International scientific collaborations can enhance the global response to climate change by providing robust data and innovative solutions

Arctic and Antarctic Climate Cooperation Novel Theme

The emerging focus on climate cooperation in the Arctic and Antarctic regions represents a novel theme. This theme explores the unique challenges and opportunities for international collaboration in these polar regions, which are critical for understanding and mitigating global climate change impacts.

[Show references](#)

Potential Hypotheses:

- International cooperation in the Arctic and Antarctic regions can provide critical insights and solutions for global climate change mitigation
- Enhanced scientific collaboration in polar regions can lead to more effective climate policies and adaptation strategies

Science Diplomacy in Climate Change C

Rising Theme

Growing research areas identified through steadily increasing publications over the past two years.

Nov 2023 - Nov 2024 18 documents

Nov 2022 - Nov 2023 9 documents

0 citations

BRIDGING SCIENCE AND DIPLOMACY TO BUILD A UNIVERSAL AGREEMENT ON THE SCIENCE OF CLIMATE CHANGE: The Intergovernmental Panel on Climate Change [↗](#)

De Pryck, K. [↗](#)

The Routledge Handbook of Collective Intelligence for Democracy and Governance [↗](#)
2023

[Show abstract](#) [↕](#)

0 citations

IPCC [↗](#)

Lynn, J. [↗](#)

Handbook of the Anthropocene: Humans between Heritage and

Identifying the 'whitespace' that can push your field forward

- **Consistent theme:** Similar level of coverage over the two 12-month periods.
- **Rising theme:** While coverage is similar, the area appears to be growing.
- **Novel theme:** Coverage is relatively low, i.e., this is a new theme, or it is underserved by the current literature.

Sleep Biomarkers and Cognitive Decline Consistent Theme

The relationship between sleep biomarkers and cognitive decline has been a consistent area of research. Studies have focused on identifying reliable sleep parameters that predict cognitive decline and Alzheimer's disease. This theme is significant as it can lead to early detection and intervention strategies for neurodegenerative diseases.

[Show references](#)

Potential Hypotheses:

- [Specific sleep biomarkers can predict the onset of Alzheimer's disease years before clinical symptoms appear](#)
- [Interventions targeting sleep quality can delay the progression of cognitive decline in at-risk populations](#)

Disparities in Sleep and Cognitive Decline Rising Theme

Recent research has highlighted the disparities in sleep quality and cognitive decline among different racial and ethnic groups. This rising theme is critical for addressing health inequities and developing tailored interventions to improve sleep and cognitive health in diverse populations.

[Show references](#)

Potential Hypotheses:

- [Racial and ethnic disparities in sleep quality contribute significantly to differences in cognitive decline rates](#)
- [Culturally tailored sleep interventions can reduce cognitive decline disparities among minority populations](#)

Sleep Deprivation and Neuroelectrophysiological Changes Novel Theme

Recent studies have explored the neuroelectrophysiological changes associated with sleep deprivation, revealing its impact on cognitive flexibility and conflict monitoring processes. This novel theme is crucial for developing a deeper understanding of the neural mechanisms affected by sleep deprivation.

[Show references](#)

Potential Hypotheses:

- [Sleep deprivation-induced neuroelectrophysiological changes are reversible with targeted cognitive therapies](#)
- [Chronic sleep deprivation leads to permanent alterations in neuroelectrophysiological patterns associated with cognitive functions](#)

How does the Emerging themes feature work?

Vector Calculation performs two searches:

- **Year 1:** relevant abstracts published within the last 12 months
- **Year 2:** Relevant abstracts 12-month period prior to that

Selects ~300 relevant abstracts per search, clusters them by topic using vector similarity, and compares clusters to reveal a list of Emerging themes.

Body Positivity Movements on Social Media Consistent Theme

The consistent exploration of body positivity movements on social media platforms like Instagram and TikTok indicates a growing interest in how positive body image content can mitigate the negative effects of idealized body standards. This theme suggests potential for developing strategies to promote healthier body image perceptions among teenagers.

[Show references](#)

Potential Hypotheses:

- Exposure to body-positive content on social media improves body satisfaction and reduces appearance anxiety in teenagers
- Body positivity movements on social media can serve as effective interventions for combating body dissatisfaction among adolescents

Social Media Use and Body Image Interventions Rising Theme

The rising interest in interventions aimed at reducing social media use to improve body image and self-esteem among teenagers highlights a proactive approach to addressing the negative impacts of social media. This theme reflects a growing recognition of the need for practical solutions to mitigate the adverse effects of social media on adolescent mental health.

[Show references](#)

Potential Hypotheses:

- Reducing social media use leads to significant improvements in body image and weight esteem among adolescents
- Media literacy programs can effectively promote body satisfaction and healthy eating behaviors in teenagers

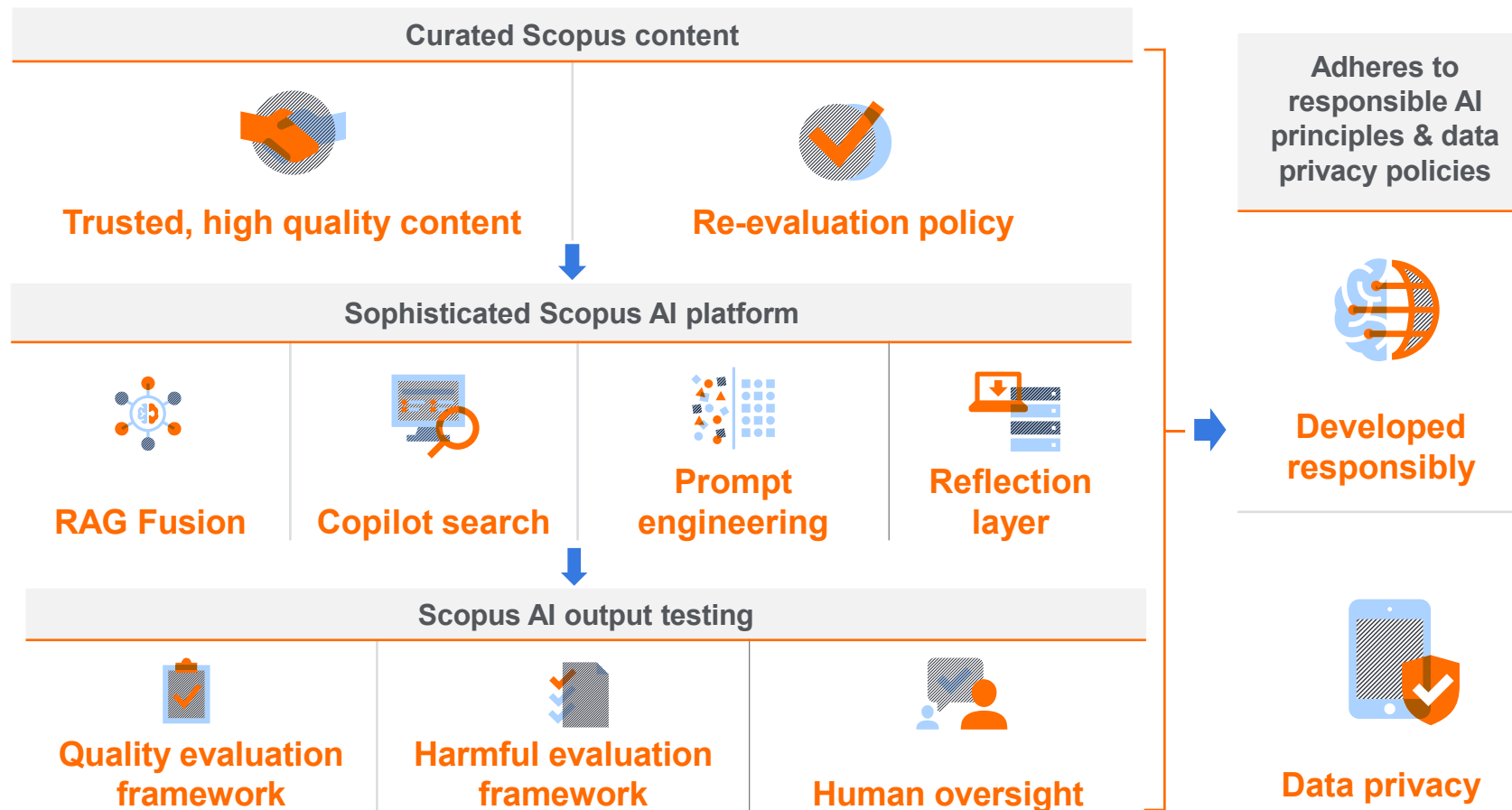
The Role of Augmented Reality Filters in Body Image Perception Novel Theme

The novel exploration of augmented reality (AR) filters and their impact on body image perception among teenagers represents a cutting-edge area of research. This theme delves into how AR filters, commonly used on social media platforms, influence self-esteem and body satisfaction, offering new insights into the digital manipulation of self-image.

Each of the themes is assigned to one of three categories:

- **Consistent:** Theme has received a similar level of coverage over the two 12-month periods.
- **Rising:** While the level of coverage is similar, the area appears to be growing in the more recent year.
- **Novel:** Coverage of the theme is relatively low, i.e., this is a new theme, or it is underserved by the current literature. This signals potential 'whitespace' you can use to target research, funding, collaborations and more.

How does Scopus AI ensure quality and reliability?



Natural conversation follow-up

Enter follow-up questions so you can keep **digging deeper**.

Refocus your query to explore **new perspectives** without starting over.

Zoom in on specific areas of interest to **enhance clarity and precision** in your understanding.

Go deeper

- How does gender influence preferred coping strategies for workplace stress?
- How does gender influence the way individuals perceive and cope with workplace stress?
- What role does gender play in how individuals seek help for workplace stress?

Ask a follow-up question

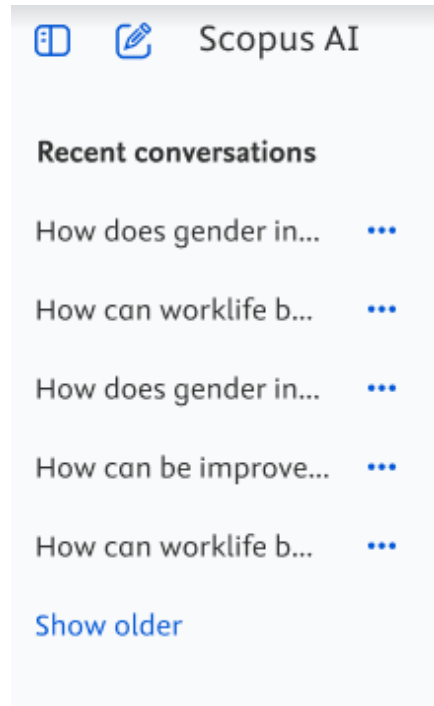


Conversational history

Automatically saves past **conversations** so you can revisit key insights at any time.

Enables you to **resume a query** where you left off.

Provides a useful **overview of your previous topic explorations**.



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Masked Autoencoders Are Scalable Vision Learners

He, Kaiming; Chen, Xinlei; Xie, Saining; Li, Yanghao; Dollar, Piotr; Girshick, Ross

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^a Facebook AI Research (FAIR)

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Abstract
This paper shows that masked autoencoders (MAE) are scalable self-supervised learners for computer vision. Our MAE approach is simple: we mask random patches of the input image and reconstruct the missing pixels. It is based on two core designs. First, we develop an asymmetric encoder-decoder architecture, with an encoder that operates only on the visible subset of patches (without mask tokens), along with a lightweight decoder that reconstructs the original image from the latent representation and mask tokens. Second, we find that masking a high proportion of the input image, e.g., 75%, yields a nontrivial and meaningful self-supervisory task. Coupling these two designs enables us to train large models efficiently and effectively: we accelerate training (by 3x or more) and improve accuracy. Our scalable approach allows for learning high-capacity models that generalize well: e.g., a vanilla ViT-Huge model achieves the best accuracy (87.8%) among methods that use only ImageNet-1K data. Transfer performance in downstream tasks outperforms supervised pretraining and shows promising scaling behavior. © 2022 IEEE.

Author keywords
Representation learning; Self- & semi- & meta- & unsupervised learning

Indexed keywords

Engineering controlled terms
Computer vision; Decoding; Image reconstruction; Learning systems

Engineering uncontrolled terms
Auto encoders; Core design; Encoder-decoder architecture; Input image; Large models; Original images; Representation learning; Scalable approach; Self- & semi- & meta- & unsupervised learning; Simple++

Engineering main heading
Signal encoding

Abstract

Author keywords

Indexed keywords

SciVal Topics

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[1Cite](#) [View at Publisher](#) [Order Document](#)
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Cited by counts

Abstract

Author keywords

What is included in a Scopus AI response?



Summary

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Expanded summary

An extended referenced summary that explores each query from multiple perspectives



Go deeper questions

A series of prompts designed to help you continue exploring and learning



Concept map

A clickable visual that uses keywords to provide a bird's-eye view of the topic space



Foundational documents

A list of influential articles that inspired the articles cited in the summaries



Topic experts

The top researchers in your chosen field (based on their volume of related publications)



Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity



Conversational Follow up

A free text field that enables you to enter follow-up questions and keep digging deeper



Conversational History

An automated list of all your previous queries so you can resume an existing search at any time



Scopus AI

Deep Research

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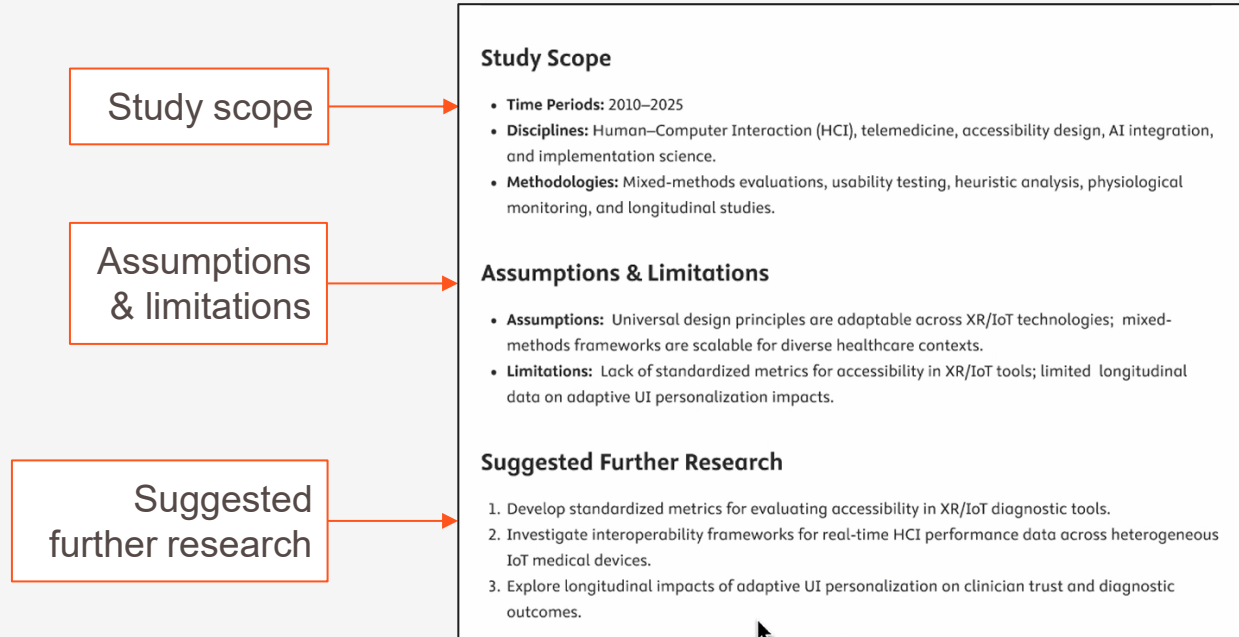
The anatomy of a Deep Research report

Referenced overview
of key findings

Key Findings Table		
Theme	Key Insights	Supporting Citations
Real-Time Feedback Mechanisms	Adaptive feedback systems improve clinician-patient communication and diagnostic accuracy.	1 2 3 4 5
Clinician Workflow Integration	Seamless integration of AI tools enhances usability and adoption in remote diagnostics.	6 7 8 9 10
Accessibility	Universal design principles ensure inclusivity for users with sensory and motor impairments.	1 2 3
User Interface	Context-adaptive interfaces reduce cognitive load and	1 2 3
Direct Answer		
Innovative Research Questions:		
1. How can multimodal real-time feedback systems (audio, visual, haptic) be optimized to reduce clinician cognitive load while improving diagnostic accuracy in remote settings?		
2. What role do physiological indicators (e.g., heart rate variability, fNIRS) play in adapting HCI interventions to support clinician performance and reduce diagnostic errors?		
3. How can universal design principles be operationalized in XR/IoT-based remote diagnostic tools to ensure accessibility for users with combined sensory and motor impairments?		
4. How does longitudinal use of human-centered decision support systems impact clinician trust, habit formation, and patient adherence in remote care?		

Direct answer to query

The anatomy of a Deep Research report



The anatomy of a Deep Research report

Main body

Synthesis paragraph

Introduction

Context and Significance

Remote medical diagnostics have emerged as a cornerstone of modern healthcare, driven by advancements in telemedicine, IoT, and AI technologies. Human-Computer Interaction (HCI) plays a pivotal role in enhancing diagnostic accuracy, clinician workflows, and patient engagement. However, challenges such as cognitive overload, accessibility barriers, and workflow misalignment persist, necessitating innovative research and evaluation methodologies [1](#) [2](#) [3](#)

Scope and Objectives

This report explores innovative research questions and user study methodologies to improve HCI in remote medical diagnostics. Key areas include interface design, real-time feedback mechanisms, accessibility, and clinician workflow integration.

Innovative Research Questions in Human-Computer Interaction for Remote Medical Diagnostics

Novel HCI Challenges and Opportunities in Remote Diagnostics

- **Intelligent Interaction Methods:** How can adaptive multimodal feedback systems reduce cognitive load while enhancing diagnostic precision? [14](#) [15](#) [16](#)
- **AI and IoMT Integration:** What are the best practices for embedding AI-driven decision support tools into clinician workflows? [17](#) [18](#) [19](#)
- **Emerging Technologies:** How can XR and IoT technologies be leveraged to create immersive, accessible diagnostic environments? [20](#) [21](#)

Optimizing User Interface Design for Remote Diagnostic Systems

- **Context-Adaptive Interfaces:** How can dynamic GUIs tailored to clinical contexts improve usability and reduce errors? [22](#) [23](#)
- **Heuristic Evaluations:** What role do heuristic evaluations play in identifying critical usability issues in medical interfaces? [24](#) [25](#)

The anatomy of a Deep Research report

Discussion and future research directions

Discussion and Future Directions

Bridging Research and Clinical Practice

Human-centered design and stakeholder engagement are critical for translating HCI research into clinical workflows. Iterative co-design processes ensure tools align with clinician and patient needs [47](#) [48](#)

Leveraging Emerging Technologies

AI, IoT, and XR technologies offer transformative potential for remote diagnostics. Addressing challenges in privacy, interoperability, and accessibility will unlock their full capabilities [49](#) [50](#)

Advancing Evaluation Methodologies

Developing robust, scalable, and context-aware user study frameworks is essential for continuous improvement of remote diagnostic systems [51](#) [52](#)

Conclusion

Summary of Contributions

This report identifies innovative research questions and user study methodologies to advance HCI in remote medical diagnostics. Key areas include real-time feedback, accessibility, and workflow integration.

Recommendations for Researchers and Practitioners

1. Prioritize universal design principles in emerging technologies.
2. Employ mixed-methods frameworks for comprehensive usability evaluations.
3. Conduct longitudinal studies to assess sustained impacts on clinician trust and patient outcomes.

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Conclusion and recommendations

Use Deep Research to:

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- **Turn complexity into clarity:** Aggregate insights across domains into one comprehensive, synthesized report
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- **Identify research gaps:** Spot areas ripe for investigation and innovation
- **Identify cross-disciplinary connections:** Reveal unexpected links between fields for new approaches and collaborations



How it works

How Deep Research mode works

Step 1

Breaks your query down into components

Step 2

Selects the best sources and search tools to answer them

Step 3

Continues adapting and iterating as it searches

Step 4

Aggregates and synthesizes findings for the Deep Research report



Deep Research is just the latest in the family of Scopus AI features

Summary

A high-level, fully referenced Summary that includes guidance on the tool's confidence in the response

Expanded summary

An extended referenced summary that uses RAG Fusion to explore each query from multiple perspectives

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A list of influential articles that inspired the articles cited in the summaries

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The top researchers in your chosen field (based on their volume of related publications)

Deep Research report

A multi-page analysis with insights and ideas to help you move forward – ideal for complex or open questions

Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity

Conversational Follow-Up

A free text field that enables you to enter follow-up questions and keep digging deeper

Conversational history

An automated list of all your previous queries so you can resume an existing search at any time

Demonstration

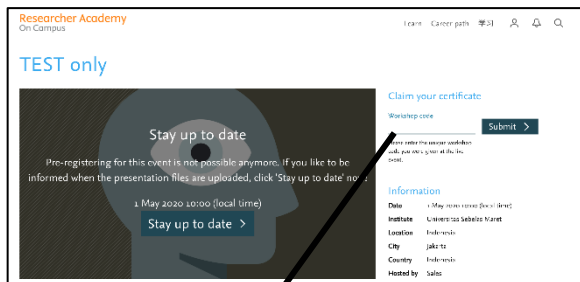


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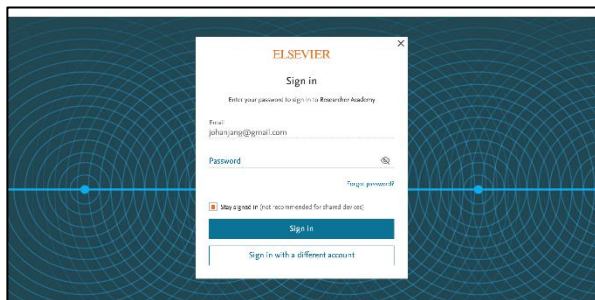
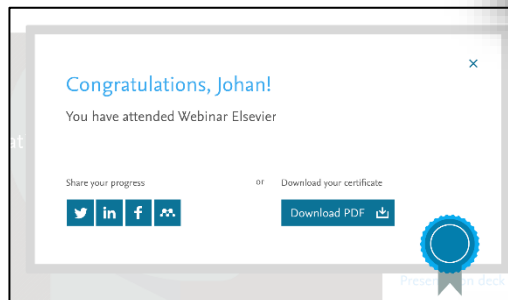


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