



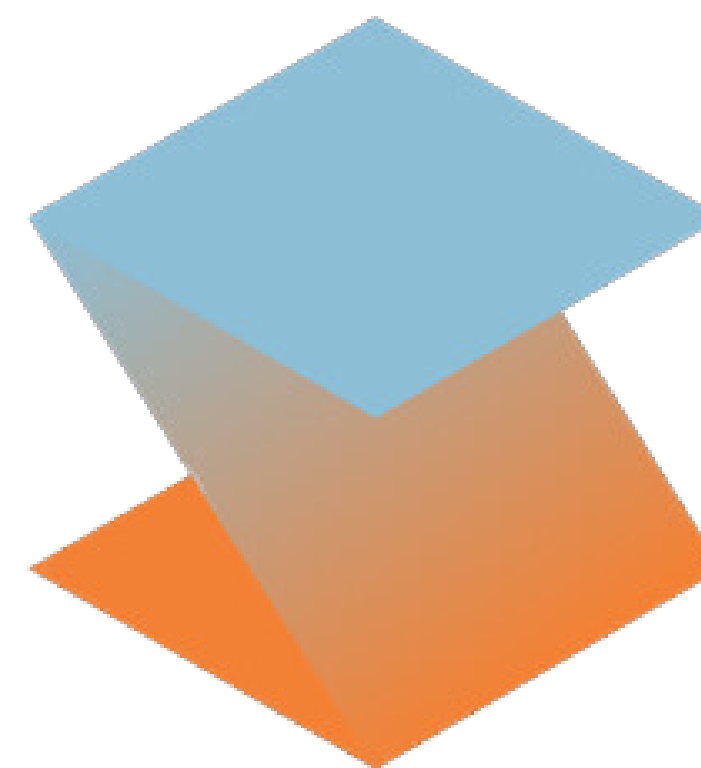
Mahidol University  
Faculty of Science

Stang Mongkolsuk Library  
and Information Division



Stang Library Training  
Information skills for you

# The 2nd Training on Generative AI Research Assistant SciSpace



**Chalermpan Tatip**

Stang Mongkolsuk Library and Information Division



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# Topic

1. About SciSpace
  2. Literature Review
  3. Copilot - Read with AI
  4. Citation Generator
  5. Paraphraser
  6. AI Detector
-

# About SciSpace



**SciSpace is the easiest way to find, understand, and learn any research paper.**

For every paper you read, get simple explanations and answers from AI and discover a network of connected and relevant papers with Metadata of 200 million+ papers and 50 million+ Open Access full-text PDFs

Source : <https://typeset.io/t/about/>

# Price

<p>Basic</p> <p><b>\$0</b></p> <p>No credit card required</p> <p>Current Plan</p> <ul style="list-style-type: none"><li>✓ Copilot answers from standard model</li><li>✓ Limited Copilot messages</li><li>✓ Limited Literature Review searches</li><li>✓ Limited Paraphraser outputs</li></ul>	<p>Premium <b>MOST POPULAR</b></p> <p><b>\$12</b> <small>20</small></p> <p>per month; billed annually</p> <p>Upgrade</p> <ul style="list-style-type: none"><li>✓ Best Copilot answers from our High Quality Model</li><li>✓ Customize Copilot Answers using settings</li><li>✓ Unlimited Copilot messages</li><li>✓ Unlimited Literature Review searches</li><li>✓ Unlimited Paraphraser outputs</li><li>✓ Export in CSV, BIB, RIS and XML</li><li>✓ Priority customer support</li></ul>	<p>Labs &amp; Universities</p> <p><b>\$8</b> <small>48</small> /user/month</p> <p>For <input type="text" value="2"/> users;</p> <p>Total: \$192 • <a href="#">see price chart</a></p> <p>Get team plan</p> <ul style="list-style-type: none"><li>✓ All the benefits of Premium Subscription</li><li>✓ Reduced pricing with higher number of seats</li><li>✓ Role based management with Admins and members</li><li>✓ Dedicated Customer Success Manager</li><li>✓ Enhanced Security</li><li>✓ Priority technical support</li><li>✓ Early access to the upcoming Collaboration features</li></ul>
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Source : <https://typeset.io/pricing/>

# SciSpace Website: <https://typeset.io/>

- Home
- Tools
- Literature Review
- Copilot - Read with AI
- Citation generator
- Paraphraser
- AI Detector

## Do hours worth of reading in minutes

The #1 search engine curated for Science

Try asking or searching for:

- How does climate change impact biodiversity?
- Why are aging Covid patients more susceptible to severe complications?
- How does social media affect the college selection process?
- What are the interesting theories about dark matter and dark energy?
- What is the significance of higher-dimensional algebra?

SciSpace is an incredible (AI-powered) tool to help you understand research papers better. It can explain and elaborate most academic texts in simple words.



Mushtaq Bilal, PhD | Researcher @ Syddansk Universitet

# Literature Review

3. Upload paper in PDF format

## SciSpace Literature Review

1. Type keywords or a question in the search field

Search or ask a question

TRY NEW AI SEARCH

Try asking or searching for:

- Q How does climate change impact biodiversity?
- Q Why are aging Covid patients more susceptible to severe complications?
- Q How does social media affect the college selection process?
- Q What are the interesting theories about dark matter and dark energy?
- Q What is the significance of higher-dimensional algebra?

2. select an example question

# Literature Review

## Insight from top 5 papers

English (en)

Climate change has a significant impact on biodiversity. It can lead to the loss of species, particularly those with specific water resource adaptations. Climate change affects water resources, such as water scarcity and shortages, which directly impact the growth, behavior, and habitats of species, including humans. Water shortages due to climate change put the human population at risk in terms of crop productivity, food security, and economic activities. Climate change also affects polar environments, which are high species richness areas, and can result in the degradation of habitats and adverse consequences for species. Additionally, climate change contributes to the decline in biodiversity through habitat loss, changes in temperature and precipitation, and increased exposure to novel pathogens. The impact of climate change on biodiversity and food security is a global concern that requires effective policies and interventions to mitigate its effects. [1][2][3][4][5]

Was this helpful?

Ask a follow up

Review the summarized insight for a quick and informative overview of what the top papers say

Add columns (2)

PDF

Open Access

More filters

Sort by: Relevance

CSV

Papers (10)

i

Insights

Open access • Peer Review • DOI  
**Impact of Climate Change on Water Resources and its Implications on Biodiversity: A Review**  
Fredrick Ojija +1 more  
27 Jan 2023 - East African journal of environment and natural resources

PDF     Ask a Question

Climate change impacts biodiversity by affecting water resources, leading to water scarcity and shortages that directly affect species' growth, behavior, habitats, and population size.

Open access • Journal Article • DOI  
**Climate change and its impact on biodiversity and human welfare**  
K. R. Shivanna  
01 Jun 2022

Climate change impacts biodiversity by causing loss of habitat, changes in ecosystems, and increased extinction rates.

Search or add columns...



Get more information by adding columns. E.g. "What are some useful applications?"



Popular suggestions

+ TL;DR

+ Conclusions

+ Summarized Abstract

+ Results

+ Summarized Introduction

+ Copilot

en



# Literature Review

## Insight from top 5 papers

Climate change has a significant impact on biodiversity. It can lead to the loss of species, particularly those with specific water resource adaptations as water scarcity and shortages, which directly impact the growth, behavior, and habitats of species, including humans. Water shortages due to changes in precipitation patterns can lead to crop productivity, food security, and economic activities. Climate change also affects polar environments, which are high species richness habitats and adverse consequences for species. Additionally, climate change contributes to the decline in biodiversity through habitat loss, and exposure to novel pathogens. The impact of climate change on biodiversity and food security is a global concern that requires effective policies [5]

Was this helpful?

Ask a follow up

Ask follow-up questions to Copilot on summarized insights to gain a deeper understanding and clarify any doubts you may have.

Add columns (2)

PDF

Open Access

### Papers (10)

Open access • Peer Review • DOI

[Impact of Climate Change on Water Resources and its Implications on Biodiversity: A Review](#)

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27 Jan 2023 - East African journal of environment and natural resources

PDF Ask a Question

Climate change impacts biodiversity by affecting water resources, leading to water scarcity and shortages that directly affect species' growth, behavior, habitats, and population size.

Open access • Journal Article • DOI

[Climate change and its impact on biodiversity and human welfare](#)

K. R. Shivanna

01 Jun 2022

Climate change impacts biodiversity by causing loss of habitat, changes in ecosystems, and increased extinction rates.

Copilot

English (en)

Can you identify any novel methodologies or approaches used in these papers?

6:28 am

The papers discuss the use of climatic models, emission scenarios, migration scenarios, and extinction scenarios to understand the impact of climate change on biodiversity and food security .

- The papers highlight the need for effective policies, high-yielding stress-resistant varieties, climate-resilient irrigation structures, and agriculture to achieve food security under climate change scenarios .
- The papers emphasize the importance of

Were there any unexpected or surprising findings? [+5 more](#)

Write your question...





# Literature Review

## 1. Use search filters like publication type, year of publication, and PDF availability to narrow down the results

The screenshot shows a search results page with a filter bar at the top. The filter bar includes options for 'PDF', 'Open Access', 'Year', and 'Publication Type'. A 'Year' filter dropdown is open, showing options for 'Last 3 Years' and 'Last 5 Years'. The search results are displayed in a table with columns for paper details and abstracts. A sidebar on the right contains a search bar and a list of 'Popular suggestions' for columns to add, such as 'TL;DR', 'Conclusions', and 'Summarized Abstract'. A 'Copilot' button is visible at the bottom right.

**2. Add new or remove existing fields to customize the search results table to your specific needs.**

# Literature Review

**Add columns (2)** |  PDF  Open Access [More filters](#) [Clear filters](#)

Journal Article • DOI [↗](#)

**Impact of climate change on biodiversity loss: global evidence**

Muzafar Shah Habibullah +3 more

03 Aug 2021 • Environmental Science and Pollution Research

[🔖](#) [🗣️](#) [🔗](#) [💬 Ask a Question](#)

**1. Use Copilot to get deep information**

Climate change leads to species extinction and shifts in species distribution.  
Climate change affects food security and agricultural fields.

**2. Click pdf to access full-text or bookmark or cite this paper**

**Impact of climate change on biodiversity and food security: a global perspective—a review article**

Melese Genete Muluneh

01 Dec 2021 • Agricultural and Food Science

[📄 PDF](#) [🔖](#) [🗣️](#) [🔗](#) [💬 Ask a Question](#)

**Climate change and its impact on biodiversity and human welfare**

K. R. Shivanna

01 Jun 2022

[📄 PDF](#) [🔖](#) [🗣️](#) [🔗](#) [💬 Ask a Question](#)

**Copilot** English (en) [🗨️](#)

6:29 am

Follow up [📄](#)

Tell me more about Climate change affects food security and agricultural yields in this study.

6:47 am

- Climate change has a significant impact on food security, particularly in communities and locations that depend on rain-fed agriculture .
- The study highlights that crops and plants have thresholds beyond which their growth and yield are compromised due to climate change .
- It is projected that agricultural yields in Africa alone could decline by more than

# Literature Review

Home / Papers / Impact of climate change on biodiversity and fo...

[Overview](#) [Full-text](#) [References \(301\)](#) [Related Papers \(5\)](#)

Journal Article • [DOI](#) •

[Full-text](#) [Trace](#) [Bookmark](#) [Quote](#) [Share](#)

## Impact of climate change on biodiversity and food security: a global perspective—a review article

Melese Genete Muluneh

01 Dec 2021 • Agricultural and Food Science (Springer Science and Business Media LLC) • Vol. 10, Iss: 1, pp 1-25

**TL;DR:** In this paper, the authors identify, appraise, and synthesize the link between climate change, biodiversity, and food security, and recommend degraded land restoration, land use changes, use of bio-energy, sustainable forest management, and community based biodiversity conservation are recommended to mitigate climate change impacts.

**Abstract:** Climate change is happening due to natural factors and human activities. It expe ...read more

Limitations

Methods used

Future works

Conclusions

Results

Summarise introduction

Dataset used

### 1. Click on topic to see more information

Content maybe subject to [copyright](#) [Report](#)

Σ Explain math & table

117% [+](#) [-](#) [Full Screen](#) [More](#)

Help?

Muluneh Agric & Food Secur (2021) 10:36  
<https://doi.org/10.1186/s40066-021-00318-5>

Agriculture & Food Security

Copilot

English (en)



### 2. Or select an example question

General (12)

My questions (0)

- Explain Abstract of this paper in 2 lines
- What are the contributions of this paper
- Find Related Papers
- Explain the practical implications of this paper
- Summarise introduction of this paper
- Literature survey of this paper
- Methods used in this paper
- What data has been used in this paper
- Results of the paper


Write your question...

NEW [+](#) [Σ](#)

Show desk

# Literature Review

Overview **Full-text** References (301) Related Papers (5)

 Explain math & table


evaporative power of the atmosphere, along with solar radiation, carbon dioxide level, ambient temperature, and the availability of water and inorganic nutrients [72]. However, those important parameters upon which the existence of life depends are affected by human-induced and natural factors. Consequently, over the last century, the rapidly expanding human population and economies place increasing demands on biodiversity resources [73]. One-third to one-half of the world's terrestrial surface has been substantially altered by human activity [74]. Species existing both at the Arctic and Antarctic environments are tainted by pollutants



the interaction of CC with pre-existing threats to the biota is the most serious and pressing problem above all. Habitat fragmentation, invasive species, pollution, overexploitation, and global CC are among the direct threats to the biodiversity (Table 1) [67]. On the other hand, the causes of biodiversity loss are more complex and interrelated with many other factors. Among which are overpopulation and overconsumption. This is compounded by social, economic, and political forces. Furthermore, socioeconomic structures, policies, weak governance, and legislation, corruption, and lack of enforcement, often intensify the threats to biodiversity [81].

Select text or mathematical equations or tables for summarize or explain it.

**Table 1** Threats to global biodiversity and their impacts

Factors	Impacts on biodiversity	Sources
Habitat loss and fragmentation	Decrease in natural habitat, homogenization of species composition, fragmentation of landscapes, and soil degradation	[40, 67]
Invasive alien species	Competition with and predation on native species Changes in ecosystem function Extinctions and Homogenization	[28, 37]
Overexploitation	Genetic contamination Extinctions and decreased populations Alien species introduced after resource depletion	[28, 37]
Climate change	Homogenization and changes in ecosystem functioning Extinctions Expansion or contraction of species ranges	[28, 37]
Pollution	Changes in species compositions and interactions Higher mortality rates Nutrient loading and acidification	[28, 37]
Anthropogenic threats	species extinction Habitat loss and conversion Degradation and fragmentation Over Harvesting	[82, 83]

 Copilot

 English (en) 

 Save as note  Follow up  

Explain the text

**Table 1** Threats to global biodiversity and their impacts

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Pollution	Changes in species compositions and interactions Higher mortality rates Nutrient loading and acidification	[28, 37]
Anthropogenic threats	species extinction Habitat loss and conversion Degradation and fragmentation Over Harvesting	[82, 83]

8:08 am

- Table 1 in the paper lists the various threats to global biodiversity and their impacts.
- The table provides a comprehensive overview of the different factors that contribute to the loss of biodiversity across the world.

Explain Abstract of this paper in 2 lines, What are the

+12 more 

# Citation Generator

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## Browse all styles

Sort by: Popularity ^

Showing all 2,551 results

**Search or select citation style more than 2,500 styles**

Popularity

Relevance

A - Z

Z - A

APA : American Psychological Association 7th edition

MLA : Modern Language Association 9th edition

Begell House - Chicago Manual of Style

MLA : Modern Language Association 8th edition

Vancouver

Elsevier - Vancouver

AMR : Academy of Management Review

Accident Analysis and Prevention

# Citation Generator

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## Vancouver citation generator

Sit back and relax. Let SciSpace give you instant and accurate Vancouver citations

1. Select source/document type to create reference e.g.

Webpage Journal Article Book Book Chapter

My References

Enter URL

Search

Citation Style: Vancouver

2. Enter URL or title of article in the search field

[Add manually](#)

3. If you can't find results, you can add information manually

Article title -

URL -

Website title -

Date accessed -

Date published -

+ Start new

ctrl + G

Generate

4. Click generate to create reference list

# Citation Generator

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## Vancouver citation generator

Sit back and relax. Let SciSpace give you instant and accurate Vancouver citations

### Example of Vancouver citation style

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Q

Citation Style: Vancouver

**Copy text or download citation as BibTeX**

**Main Citation:**

1.Bangkok Air Quality Index (AQI) and Thailand Air Pollution | IQAir [Internet]. 2023 [cited 2023Aug28].. Available from: <https://www.iqair.com/th-en/thailand/bangkok>

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**In-text citation:**


(1)

# Paraphraser

## Scholarly Paraphrasing Tool

Make your academic writing more clear and original with SciSpace's Paraphraser. Write in more tones and languages than Quillbot, and humanize your text with our AI detector.

[See why we are better than Quillbot](#)

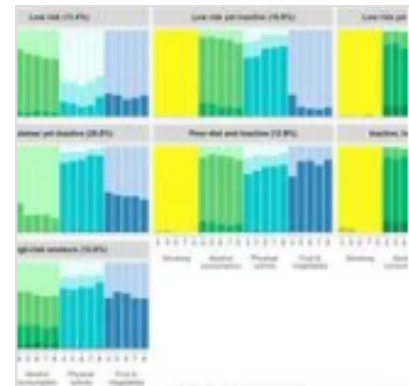
☰ My outputs (1)  Feedback

Academic Fluent Formal **Informal** More ▾

Length:  Variation:   Same as Input ▾

Health-risk behaviours tend to be stable as people age and so ought to be addressed early. We identified seven clusters of older adults with distinct patterns of behaviour, socio-demographic characteristics and multimorbidity prevalence. Intervention developers could use this information to identify high-risk subpopulations and tailor interventions to their behaviour patterns and socio-demographic profiles.

Health-risk behaviors usually stay the same as we get older, so it's best to deal with them early on. We found seven groups of older folks with different behaviors, backgrounds, and rates of having multiple health conditions. People creating interventions could find this data helpful in pinpointing high-risk groups and customizing interventions to match how they behave and their backgrounds.



### Longitudinal clustering of health behaviours and their association with...

Background Health-risk behaviours such as smoking, unhealthy nutrition, alcohol consumption...

 plosone

New input 53/150 words

Paraphrase

60 words

 AI detection





# AI Detector

## Academic AI Detector

Catch GPT-4, ChatGPT, Jasper, and other AI writers' presence in scholarly content.

[Input Text](#) [Upload PDF](#)

**Examples** [Chat GPT](#) [Quillbot](#) [Jasper](#) [AI + Human text](#) [Abstract by AI](#)

[My Text Scans](#)

Start writing here or paste some scientific text and click analyse

[New input](#) 0/1000 words

Scientific  Non Scientific

Analyse

Once you analyse any text/doc, your report will show up here.

Share this tool with your friends.



# AI Detector

**You**  
Definition of Cancer?

**ChatGPT**  
Cancer is a disease characterized by the uncontrolled growth and spread of abnormal cells in the body. These cells can form tumors and interfere with the normal functions of the body. Cancer can occur in almost any part of the body and can spread to other areas, making it a potentially life-threatening condition.

🔊 📄 ↻ 🗑️

## Academic AI Detector

Catch GPT-4, ChatGPT, Jasper, and other AI writers' presence in scholarly content.

Input Text Upload PDF

Examples Chat GPT Quillbot Jasper AI + Human text Abstract by AI My Text Scans (10)

Cancer is a group of diseases characterized by the uncontrolled growth and spread of abnormal cells in the body. These cells can form tumors, invade nearby tissues, and spread to other parts of the body. There are more than 100 different types of cancer, each with its own causes, symptoms, and treatment options.

**AI detection report**

**100%**

**Essentially AI**

The text is almost entirely produced using AI, without any contribution from humans

3 out of 3 sentences were AI written.

**AI USAGE PROBABILITY**

High AI	2 sentences
Moderate AI	1 sentence
Low AI	


New input 53/1000 words Scientific Non Scientific Reanalyse


# AI Detector


Oxford **Learner's Dictionaries**


---

**cancer** *noun*

 B2

 /'kænsə(r)/

 /'kænsər/

1 ★  [uncountable, countable] a serious disease in which **growths** of cells, also called cancers, form in the body and kill normal body cells. The disease often causes death.

## Academic AI Detector

Catch GPT-4, ChatGPT, Jasper, and other AI writers' presence in scholarly content.

Input Text Upload PDF

Examples Chat GPT Quillbot Jasper AI + Human text Abstract by AI My Text Scans (9)

a serious disease in which growths of cells, also called cancers, form in the body and kill normal body cells. The disease often causes death.

**AI detection report**

**0%**

**Essentially Human**

The text is written almost entirely by a human

**0 out of 2** sentences were AI written.

**AI USAGE PROBABILITY**

- High AI
- Moderate AI
- Low AI

New input 25/1000 words  Scientific  Non Scientific **Reanalyse**



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# Limitation

- The majority of data on SciSpace are abstract.
  - Exclusively available on an online platform.
  - Some content in Research Topic may be absent.
  - Refrain from uploading your Information to SciSpace.
  - Copilot possess limited knowledge to responses.
-