

# How to find resources for engineering disciplines and physical sciences

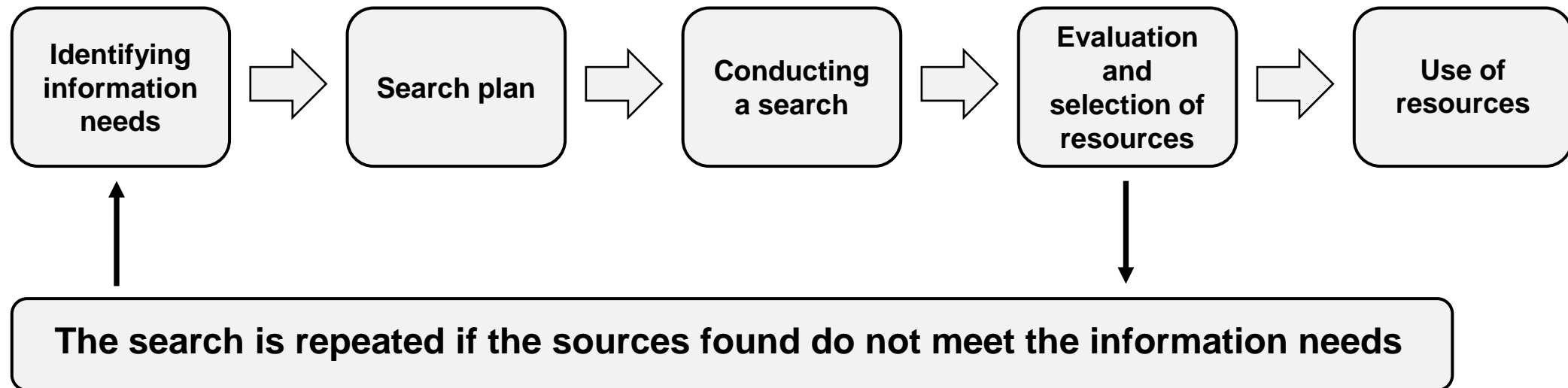
The Library of Kaunas University of Technology  
[biblioteka@ktu.lt](mailto:biblioteka@ktu.lt)

- ☐ information search strategy;
- ☐ the choice of keywords and projecting an effective inquiry;
- ☐ the search of information in KTU virtual library;
- ☐ the search of e-books;
- ☐ the search of articles online;
- ☐ the search of patents and standards;
- ☐ the search of information in open access resources.



# Stages in the search for information

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# Identifying information needs



## Before beginning to write scientific work:

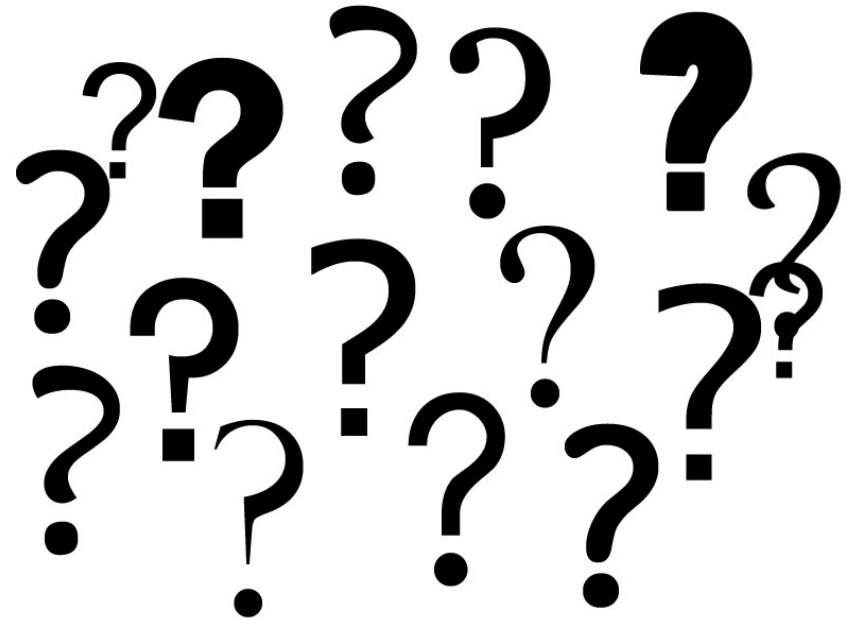
- ✓ conduct information search;
- ✓ look for the information in encyclopaedias, reference books and dictionaries;
- ✓ look through books, scientific articles (carry out search in databases).

## Collected information should help you:

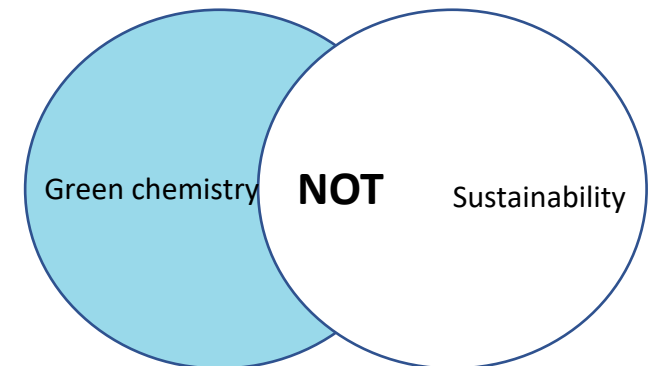
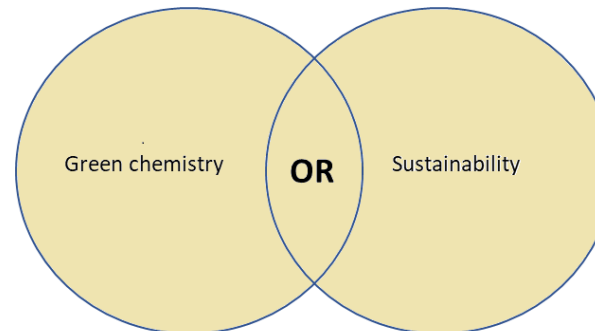
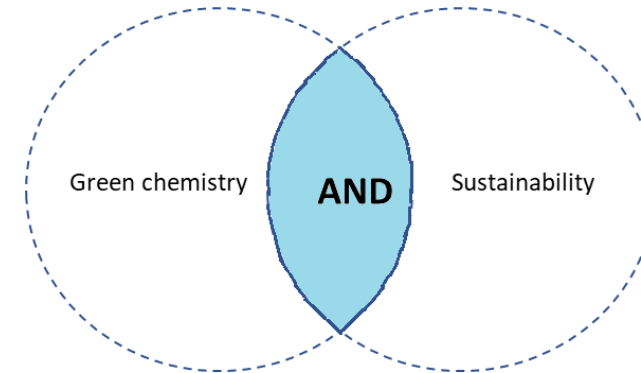
- ✓ to reveal wider and narrower spheres of the topic;
- ✓ to describe the aim and problem;
- ✓ to find concepts, terms and their synonyms, which while looking for information could be used as keywords.

**Before carrying out a search of information, answer these questions:**

- ✓ How recent does the information need to be?
- ✓ What type of information sources do you need?
- ✓ What sort of information sources do you need?
- ✓ What format of information is necessary?
- ✓ Which languages will you use for the search?
- ✓ How much information do you need?
- ✓ How much time will you devote to research?



- ✓ State the essence of information search in one or two sentences, highlight the specifics of the topic;
- ✓ identify keywords and distinguish main concepts and terms;
- ✓ select synonyms and different forms of the words, alternative terms;
- ✓ use logical operators (Boolean logic) (AND, OR, NOT, \* , „ “ , ?).



# Choosing the keywords

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## Various information publications:

- encyclopedias, reference books, dictionaries
- dictionaries and encyclopedias available online:
  - ✓ [AccessScience](#)
  - ✓ [Dictionary.com](#)
  - ✓ [Encyclopedia.com](#)
  - ✓ [Online Translation Tools](#)
  - ✓ [Reference.com](#)
  - ✓ [Word Web Online](#)

**Thesaurus** (general or specific field dictionaries, which show meaningful connections between words):

- ✓ [Thesaurus.com](#)
- ✓ [EUROVOC](#) – the translations of terms in four languages, topic by topic and alphabetical dictionary
- ✓ [Merriam-Webster](#)
- ✓ [UNESCO Thesaurus](#)
- ✓ Academic Search Complete (through EBSCO) the list of terms related to the subject
- ✓ [IEEE Approved Indexing Keyword List](#)

- ✓ It is impossible to find all relevant information sources.
- ✓ It is very important to keep balance between quantity and quality.
- ✓ There is no right solution, best search tool or the only keyword.
- ✓ You can change your search strategy. Write down selected keywords, search tools, etc.
- ✓ Save the relevant documents and information about them and make notes.
- ✓ You can always ask a librarian for advice.





# Choosing a search tool

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- ✓ virtual libraries;
- ✓ institutional publication ETD (Electronic Thesis or Dissertation) databases;
- ✓ databases;
- ✓ subscribed databases;
- ✓ open access resources;
- ✓ specialised search systems.



## Selection of resources

### The aspects of information quality:

- ✓ reliability
- ✓ The authorship of the resource;
- ✓ resource;
- ✓ newness;
- ✓ publisher;
- ✓ sources cited.



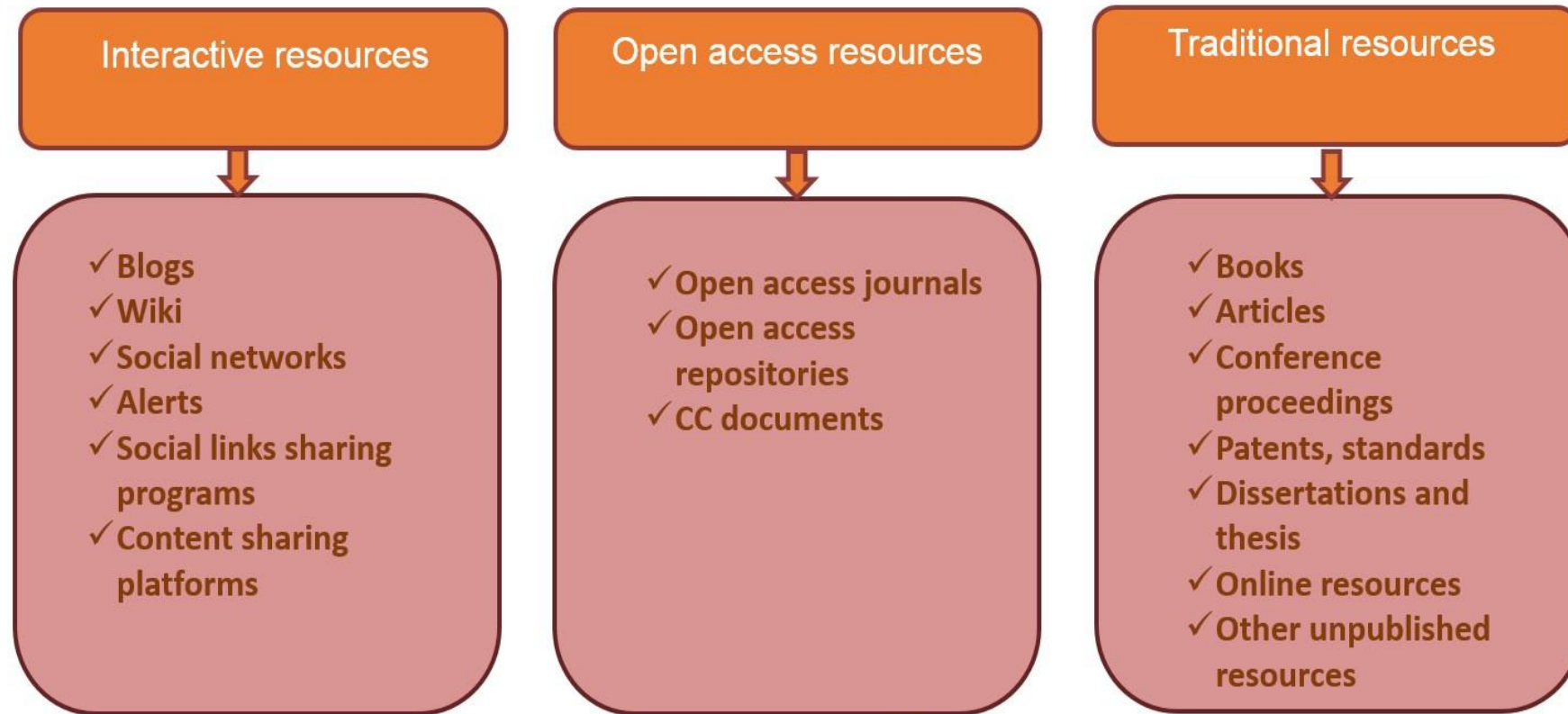
## Revision of the search

**The search is the process that may be repeated. If the results of the search do not satisfy, it is advised:**

- ✓ to look through the spelling of the keywords;
- ✓ to check other keywords;
- ✓ to evaluate the suitability of the chosen tool;
- ✓ to repeat the search from the first step.

# Variety of information resources

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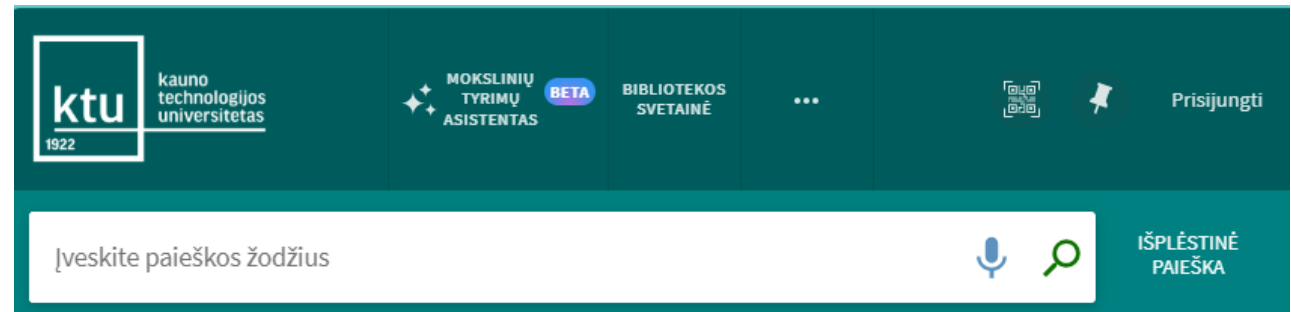


# Where to begin the information search?

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## The library offers:

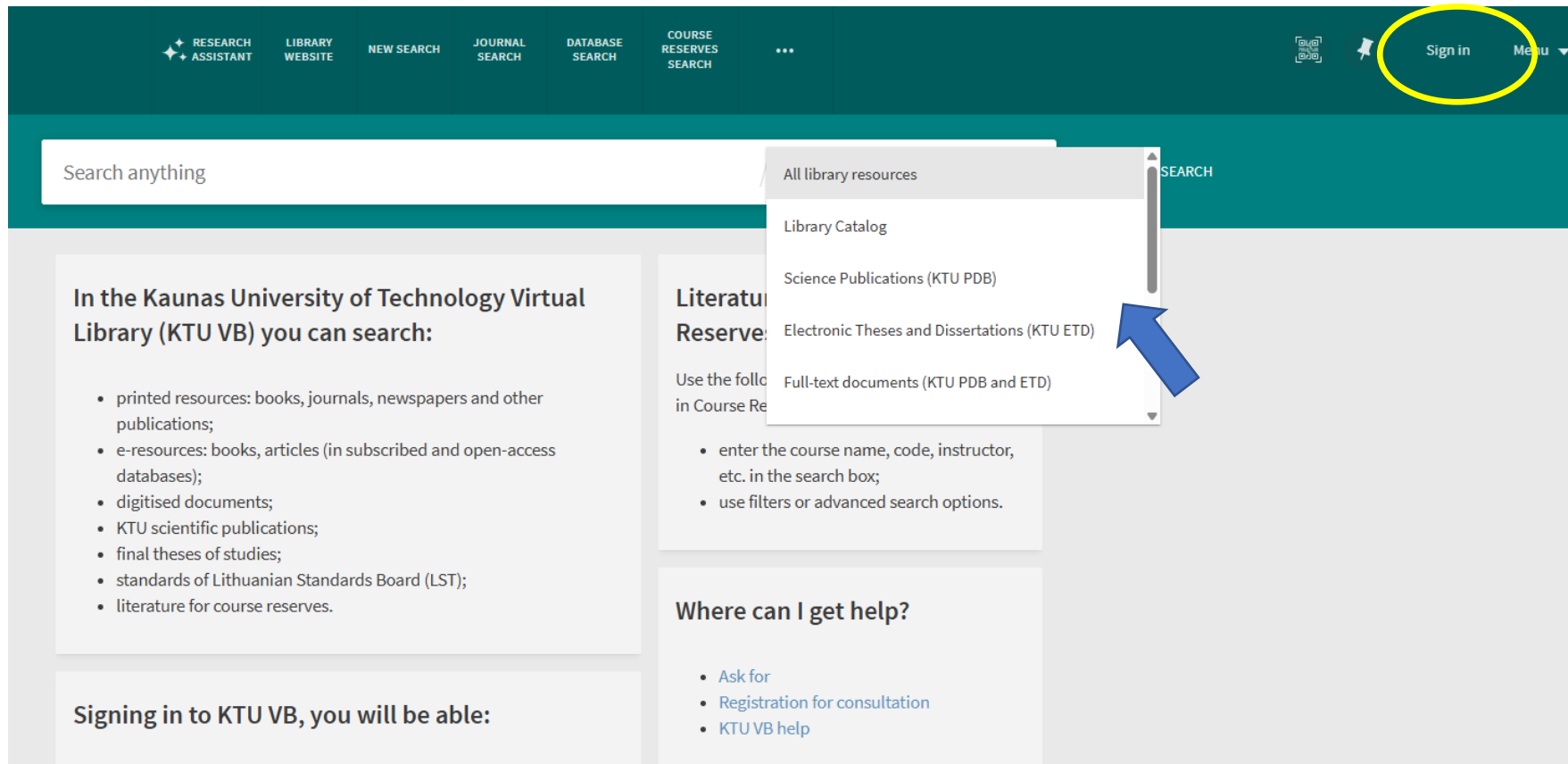
- KTU virtual library [vb.ktu.edu](http://vb.ktu.edu)
- Subscribed databases
- Open access resources



# Search in KTU Virtual Library

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Search based on one slot where information needs to be typed in to find all resources of KTU library



RESEARCH ASSISTANT LIBRARY WEBSITE NEW SEARCH JOURNAL SEARCH DATABASE SEARCH COURSE RESERVES SEARCH ...

Sign in Menu

Search anything

SEARCH

All library resources

Library Catalog

Science Publications (KTU PDB)

Electronic Theses and Dissertations (KTU ETD)

Full-text documents (KTU PDB and ETD)

In the Kaunas University of Technology Virtual Library (KTU VB) you can search:

- printed resources: books, journals, newspapers and other publications;
- e-resources: books, articles (in subscribed and open-access databases);
- digitised documents;
- KTU scientific publications;
- final theses of studies;
- standards of Lithuanian Standards Board (LST);
- literature for course reserves.

Signing in to KTU VB, you will be able:

- Ask for
- Registration for consultation
- KTU VB help

Literature Reserve

Use the following information to search in Course Reserves:

- enter the course name, code, instructor, etc. in the search box;
- use filters or advanced search options.

Where can I get help?

- Ask for
- Registration for consultation
- KTU VB help

# Filters of search results

Tweak my results

## Availability ^

- Held by library
- Open Access
- Peer-reviewed Journals
- Available online

## Creation Date ^

From To  
1701 2025 [Refine](#)

## Language ^

- Lithuanian
- Undetermined
- Japanese
- Chinese
- Spanish
- Portuguese
- Russian
- Arabic
- Persian
- Indonesian

## Resource Type ^

- Journals
- Rare books
- Bachelor's Theses
- Master's Theses
- Book chapters
- Magazine Articles
- Reviews
- Reference Entries
- Datasets
- Web Resources
- Reports
- Text Resources
- Newsletter Articles
- Other
- Government Documents
- Books
- Conference Proceedings
- Articles

## Subject ^

- Green chemistry
- Catalysis
- Chemical engineering
- Industrial Chemistry/Chemical Engineering
- Environmental chemistry
- Nanotechnology
- Biotechnology
- Organic Chemistry
- Sustainable development
- Sustainable engineering
- Nanostructured materials
- Chemistry, Organic
- Research & information: general
- Composite materials
- Renewable and Green Energy
- Organic compounds Synthesis
- Renewable energy resources
- Biomass energy
- Environmental engineering
- Science & Technology
- Physical Sciences
- Life Sciences & Biomedicine
- Technology
- Chemistry, Multidisciplinary
- Science & Technology - Other Topics

## Collection ^

- MEDLINE
- Elsevier ScienceDirect Journals Complete
- DOAJ Directory of Open Access Journals
- EBSCOhost Academic Search Ultimate
- Springer Nature - Complete Springer Journals
- Wiley Online Library - AutoHoldings Journals
- American Chemical Society Journals
- Royal Society Of Chemistry Package Gold



Expand My Results

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RESEARCH ASSISTANT BETA LIBRARY WEBSITE NEW SEARCH JOURNAL SEARCH DATABASE SEARCH COURSE RESERVES SEARCH ...


green chemistry X All library resources ADVANCED SEARCH

# Saving the search results

For more information on quotation and bibliographical reference tools, you can find them on library webpage:

[Library – trainings](#)

3





BOOK


**Green Chemistry and Green Materials from Plant Oils and Natural Acids. Volume 83**


ISBN: 1837670803; ISBN: 9781837670802; EISBN: 1837671591; EISBN: 9781837671595; EISBN: 9781837671601; EISBN: 1837671605


“ ... than finite. *Green Chemistry and Green Materials from Plant Oils and Natural Acids* covers the application of these natural materials in producing polymers, lubricants and plasticisers.”


[Available Online](#)  [>](#)


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 EASYBIB


 ENDNOTE


 MENDELEY

 RW  
REFWORKS

 PRINT

 CITATION

 PERMALINK

 EMAIL

APA (7th edition)


APA (6th edition)

turabian fullnote bibliography 8th edition

MLA (8th edition)

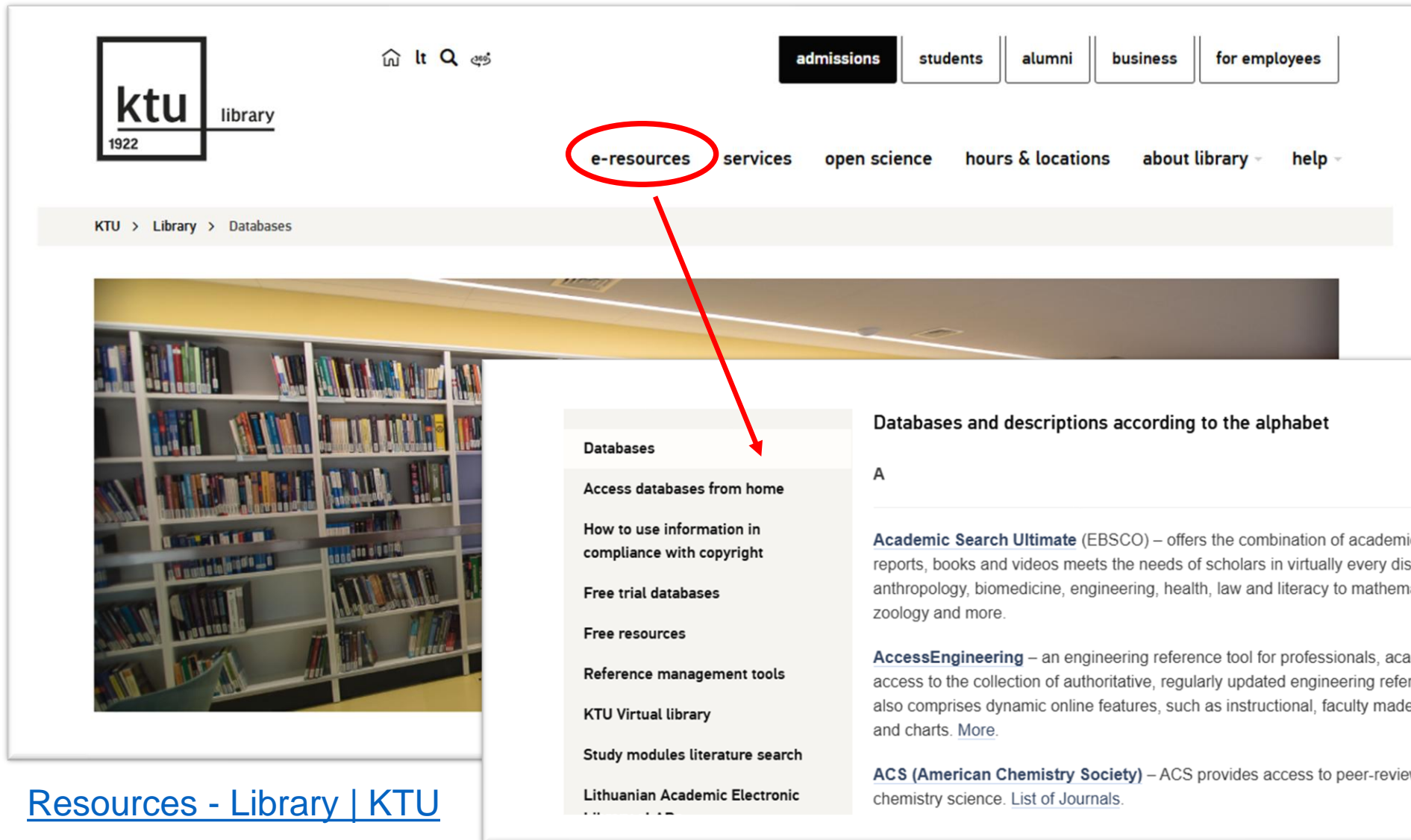
Harvard

Liu, Z. (NCAUR, & Kraus, G. (Iowa S. U. (2023). *Green Chemistry and Green Materials from Plant Oils and Natural Acids. Volume 83* (Vol. 83). Royal Society of Chemistry.

 COPY CITATION TO CLIPBOARD

Remember to check citations for accuracy before including them in your work

# Subscribed Databases



The screenshot displays the KTU Library website. The top navigation bar includes links for admissions, students, alumni, business, and for employees. Below this, a secondary navigation bar features links for e-resources, services, open science, hours & locations, about library, and help. The 'e-resources' link is circled in red, and a red arrow points from it to the 'Databases' section in the left sidebar. The sidebar also lists other resources like 'Access databases from home', 'How to use information in compliance with copyright', 'Free trial databases', 'Free resources', 'Reference management tools', 'KTU Virtual library', 'Study modules literature search', and 'Lithuanian Academic Electronic'. The main content area is titled 'Databases and descriptions according to the alphabet' and lists databases under the letter 'A', including 'Academic Search Ultimate' and 'AccessEngineering'.

**KTU library** 1922

admissions students alumni business for employees

e-resources services open science hours & locations about library help

KTU > Library > Databases

**Databases**

- Access databases from home
- How to use information in compliance with copyright
- Free trial databases
- Free resources
- Reference management tools
- KTU Virtual library
- Study modules literature search
- Lithuanian Academic Electronic

**Databases and descriptions according to the alphabet**

**A**

**Academic Search Ultimate** (EBSCO) – offers the combination of academic journals, magazines, periodicals, reports, books and videos meets the needs of scholars in virtually every discipline ranging from astronomy, anthropology, biomedicine, engineering, health, law and literacy to mathematics, pharmacology, women's studies, zoology and more.

**AccessEngineering** – an engineering reference tool for professionals, academics, and students that provides access to the collection of authoritative, regularly updated engineering reference information. Access Engineering also comprises dynamic online features, such as instructional, faculty made videos, calculators, interactive tables and charts. [More](#).

**ACS (American Chemistry Society)** – ACS provides access to peer-reviewed journals covering various fields of chemistry science. [List of Journals](#).

[Resources - Library | KTU](#)



## Databases. Access from home

The databases can be accessed from home using one of the following options:

- [KTU Virtual Library](#) using the KTU single sign-on.
- Use [remote Ezproxy access](#) – log in with the KTU single sign-on and select the desired database from the list provided.

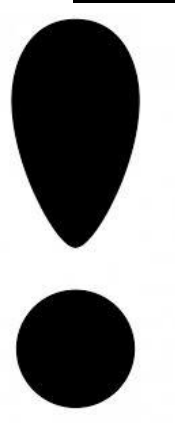
From University computers or wireless internet, you can access the subscribed databases directly without using login details.

## Users are allowed

- ✓ Use electronic resources for studies or research without infringement of copyright laws.
- ✓ Use electronic resources (download/print/copy to an external hard drive) only for personal usage and in small quantities. In case user downloads too many resources his IP address might be blocked by database providers.

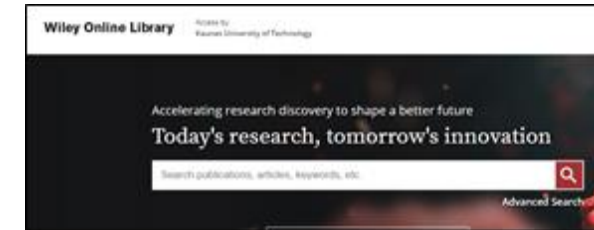
## Users are not allowed

- ✓ Use the software that allows to download and save information on the computer.
- ✓ Upload the information from the subscribed databases online; share the information with the third parties or use the information for commercial purposes.



# The search of books in databases

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[eBook Academic Collection](#) (EBSCO) - database of e-books with various topics.

[eBook Open Access \(OA\) Collection](#) (EBSCO) - This is the set of books of various disciplines, created in collaboration with university press and open resource publishers. It gives access to more than 2,500 e-books on various topics.

[ProQuest Ebook Central](#) - more than 200 thousand books of technological, physical, biomedical, social and humanity sciences.

[ScienceDirect E-Books](#) - full collection of e-books of various scientific fields.

[Springer Nature Link eBooks](#) - access provided to *Business & Management*, *Economics & Finance*, *Chemistry & Materials Science*, *Computer Science*, *Engineering* e-book collections.

[Wiley Online Library eBooks](#) - access to e-books on the topics related to finances, marketing, engineering, physics, informatics, chemistry and other sciences.

# The search of articles in databases

[Academic Search Ultimate](#) (EBSCO) - offers the combination of academic journals, magazines, periodicals, reports, books and videos in every discipline ranging from astronomy, anthropology, biomedicine, engineering, health, law and literacy to mathematics and more.

[Emerald Premier eJournals Collection](#) - peer-reviewed journals with full text articles in social science and engineering.

[ScienceDirect Journals](#) - database contains the full-text of Elsevier Science journals in fields of Science and Social Sciences. Full-text access is available back to 2012.

[Springer Nature LINK Journals](#) - peer-reviewed journals published by *Springer Verlag* and *Kluwer Academic Press*. Database covers topics in various disciplines..

[Taylor & Francis eJournals](#) - peer-reviewed journals in various fields of Sciences, Social Sciences and Humanities. Access provided to issues published back to 1997.

[Wiley Online Library eJournals](#) - access to *Wiley* publishing house journals. Access to [483 journals](#) until 2013, as well as STM (Science Technology Medicine: [417 journals](#)).

[Nature](#) - access to four subscribed, highly-regarded, weekly journals on physical and engineering sciences (access is granted to the volumes from 2006 till now).

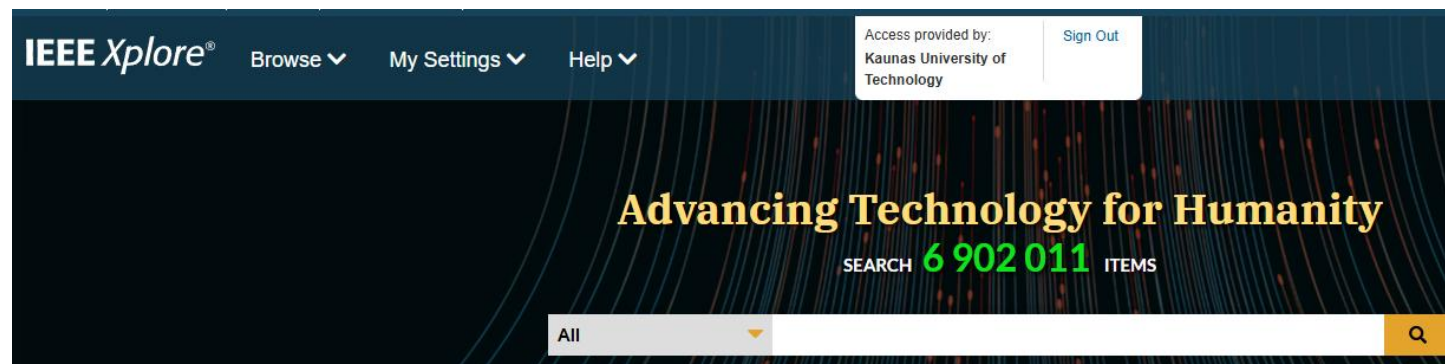
# The search of articles in specialized databases

[IEEE Xplore](#) - Institute of Electrical and Electronics Engineers (IEEE) and the Institution of Electrical Engineers (IEE) published journals, conference proceedings, standards and other publications since 1988.

[IOP science](#) - a database published by Institute of Physics providing a full-text articles from peer-reviewed journals in physics, mathematics and related disciplines.

[Reaxys](#) - a unique web-based chemistry database consisting of deeply excerpted compounds and related factual properties, reaction and synthesis information as well as bibliographic data, navigated and displayed via an actionable interface.

[SciFinder-n](#) - database of chemistry, which provides information about materials, including their chemical reactions, chemical names, properties, commercial availability and regulation, chemical reactions, patents (*PatentPak*).



# The search in open access resources

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**Google books** <http://books.google.com> - full text books read just online, they cannot be downloaded, printed or saved.

**DOAB** (*Directory of Open Access Books*) <http://www.doabooks.org> - open access resource to the catalogue of books.

**DOAJ** (*Directory of Open Access Journals*) <http://www.doaj.org> - open access journal catalogue. The journals included in this catalogue ensure free access to full text articles. This catalogue includes more than 13,000 journals.

**HighWire Press** <https://portal.highwire.org/lists/devecon.dtl> - is created and supervised by Stanford University in the USA. Open Access journals marked as free.

# The search for articles in open access resources

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**National repository:** The Lithuanian Academic Electronic Library ([eLABa](http://www.elaba.lt))

**BioMed Central** <http://www.biomedcentral.com>: open access journals of medicine, biology, biomedical engineering and biotechnology, e.g. BioMedical Engineering OnLine, Biotechnology for Biofuels, BMC Biotechnology, Journal of Biological Engineering, Journal of Biomedical Science, Journal of Nanobiotechnology, etc..

**PLoS (Public Library of Science)** <http://www.plos.org> - is a nonprofit publisher of open-access journals in science, technology, and medicine and other scientific literature.



# The search engines of scientific information

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[Google Scholar](#) - a worldwide scientific information search engine.  
Reviewed resources (articles, dissertations, books, summaries, etc.)  
from different fields of studies.

[Dimensions](#) - a scientific information search engine.

Open access resources are marked by “Open Access”.

[BASE](#) - scientific information search engine.

Open access resources are marked by “Open Access”.

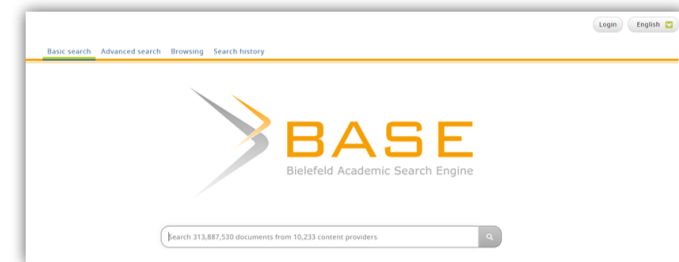
[Core \(Connecting Repositories\)](#) - the world's most voluminous search engines  
which provides an open access to scientific documents from repositories and to a collection of journals.

[WorldWideScience](#) - a global science gateway comprised of  
national and international scientific databases and portals.

Google Scholar

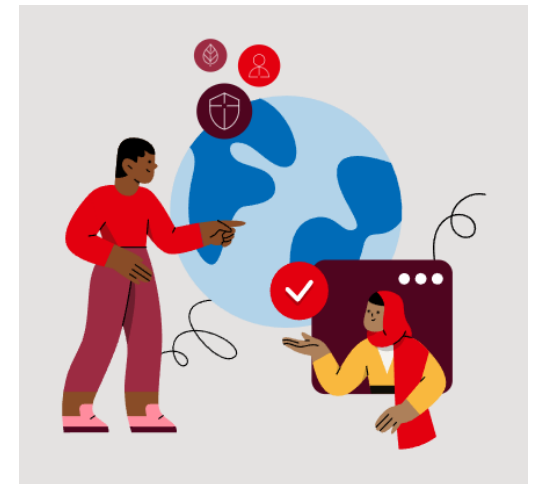
☒ Articles ☐ Case law

Stand on the shoulders of giants



# The search of standards

- ❑ [Lithuanian Standards Board \(LST\) Standards Catalogue](#) is accessed through KTU Virtual library or Library Catalogue.
- ❑ the International Organization for Standardization (ISO)  
<http://www.iso.org>
- ❑ European technical standardization system:
  - ✓ The European Committee for Electrotechnical Standardization (CENELEC) <https://www.cenelec.eu/about-cenelec/>
  - ✓ The European Committee for Standardization (CEN)  
<https://www.cenelec.eu/about-cen/>
  - ✓ The European Telecommunications Standards Institute (ETSI)  
<http://www.etsi.org>





! There are various programs which use AI to look for articles, e.g.: *Semantic Scholar, Elicit, Litmaps, research Rabbit, Keenious, etc.*, yet they are not licensed by Kaunas University of Technology and their use is your own responsibility.

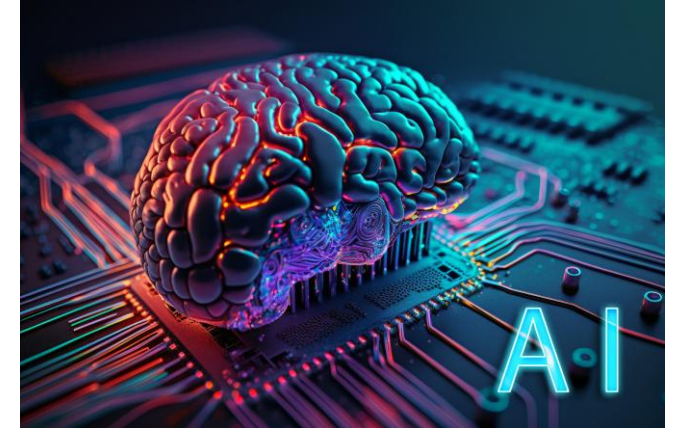
## Advice

If you know something about the topic you are researching and you can evaluate the content generated by AI, you can, for example:

- ✓ to ask AI to offer you keywords which are related to your topic;
- ✓ to get new views about the topic.

## Attention! Don't forget to evaluate the resources!

Even though with the help of AI you found the resource which really exists (webpage, article, etc.), it can be unsuitable to use.



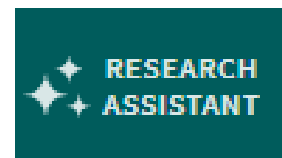
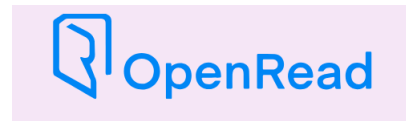
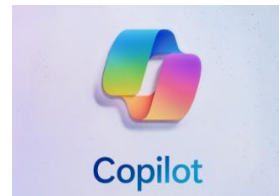
# Artificial intelligence tools

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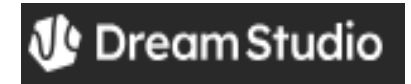
## Several text tools



Scopus AI



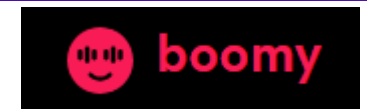
## Tools generating images



## Video tools



## AI tools for music



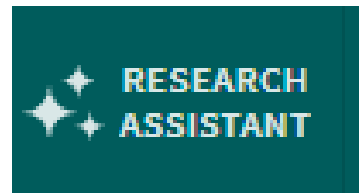
# Tools offered by university

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**Scopus AI** – is a search tool that utilizes generative AI (GenAI) technology to assist users in retrieving and summarizing information. [1]

**Microsoft Copilot** – is an AI-powered tool that helps with your work tasks by offering contextual assistance, automating routine tasks, and analyzing data.

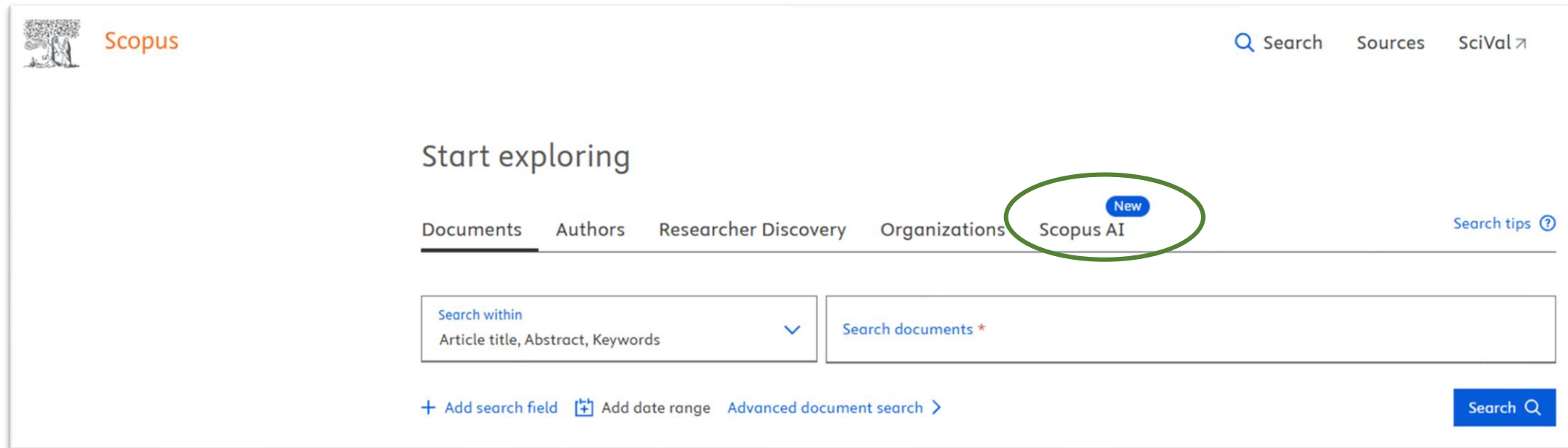
**Research Assistant** - The Primo Research Assistant is a tool powered by Generative Artificial Intelligence, which allows to explore academic content by asking questions in natural language. The tool uses most of the content found in KTU virtual library to identify five documents that can help answer your question.



# Scopus AI: How does it works?

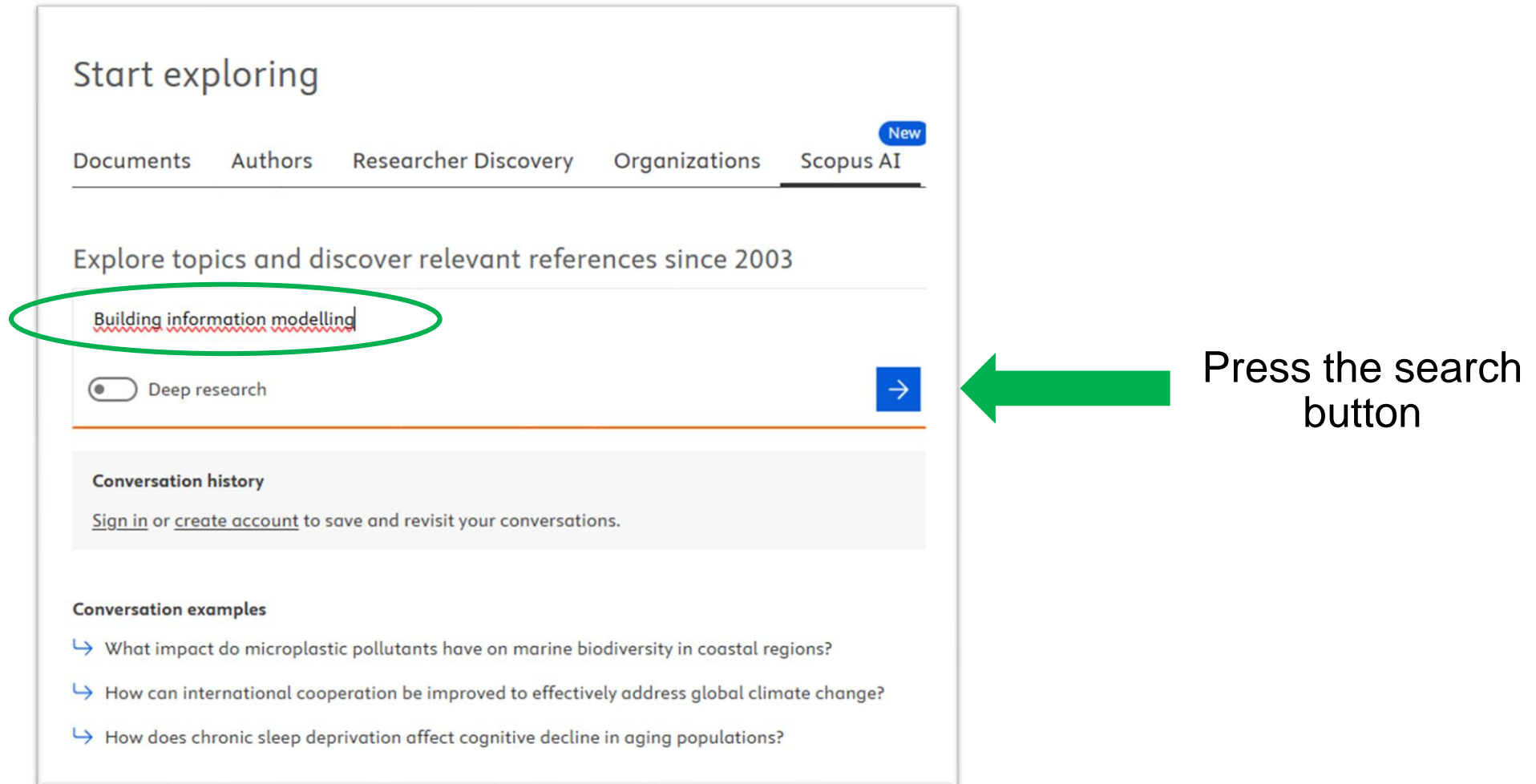
**Scopus** is one of the largest abstract and citation database of peer-reviewed literature delivering a comprehensive overview of the world's research output. Available in the [KTU virtual library](#) by selecting [Database Search](#) or on the library page [E-resources – Databases and their descriptions](#).

1. From the Scopus homepage, select the **Scopus AI** tab



# Scopus AI: Queries

2. Type a query into Scopus AI in the words, format and language of your choice: Scopus AI supports natural language queries.



The screenshot displays the Scopus AI interface. At the top, there's a header "Start exploring" followed by navigation tabs: "Documents", "Authors", "Researcher Discovery", "Organizations", and "Scopus AI" (which is highlighted with a blue underline and a "New" badge). Below the tabs, a sub-header reads "Explore topics and discover relevant references since 2003". A search input field contains the text "Building information modelling", which is circled in green. Below the input field is a toggle switch labeled "Deep research" and a blue button with a right-pointing arrow. A large green arrow points from the text "Press the search button" to this button. Below the search area, there's a section titled "Conversation history" with the text "Sign in or create account to save and revisit your conversations." and another section titled "Conversation examples" with three sample queries, each preceded by a blue arrow icon.

Start exploring

Documents Authors Researcher Discovery Organizations **Scopus AI** New

Explore topics and discover relevant references since 2003

Building information modelling

☐ Deep research

[→](#)

Press the search button

**Conversation history**

[Sign in](#) or [create account](#) to save and revisit your conversations.

**Conversation examples**

- ↳ What impact do microplastic pollutants have on marine biodiversity in coastal regions?
- ↳ How can international cooperation be improved to effectively address global climate change?
- ↳ How does chronic sleep deprivation affect cognitive decline in aging populations?

On the **Summary page**, you can:

- ✓ view the abstracts, references, and main documents;
- ✓ view an *Expanded summary*;
- ✓ select “*Export all references*” and upload the specified documents to, for example, *Mendeley* or *RefWorks*.

The screenshot displays the Scopus AI Summary page for the topic 'Building information modelling'. The page is divided into two main sections: 'Summary' and 'References'. The 'Summary' section includes a title, a brief description of BIM, and a list of 'Core Characteristics of BIM' with four bullet points. The 'References' section lists three references. Annotations include a green arrow pointing from the 'Summary with Scopus references' box to the 'Summary' section, and another green arrow pointing from the 'Resources found by the AI tool' box to the 'References' section.

**Summary with Scopus references**

**Building information modelling**  
Show Copilot steps ▾

**Summary**  
**Building Information Modelling (BIM)**

Building Information Modelling (BIM) is a transformative technology in the Architecture, Engineering, and Construction (AEC) industries, offering a comprehensive approach to managing building projects throughout their lifecycle. Here are the key aspects and benefits of BIM:

**Core Characteristics of BIM**

- **Visualization:** BIM provides a digital representation of every aspect of a building, allowing stakeholders to visualize the project in a simulated environment [1](#) [2](#).
- **Coordination:** It enhances collaboration among project stakeholders by creating a centralized data model, ensuring consistency and continuity of information [3](#) [4](#).
- **Simulation:** BIM allows for the simulation of various scenarios, including design, construction, and operational phases, to identify potential issues early [1](#) [2](#).
- **Optimization:** The technology supports optimal maintenance, leading to better decision-making.

**References**

Reference 1  
Building information modeling (BIM) and analysis of more traditional CAD  
[Li J.](#)  
*Applied Mechanics and Materials* 71 2014

Reference 2  
Implementation of laser scanning and BIM technology in damaged buildings reconstruction  
[Alekhin V.N.](#), [Abdullah H.](#)  
*AIP Conference Proceedings* 71 2023

Reference 3  
Building Information Modelling  
[Adepoju O.](#)

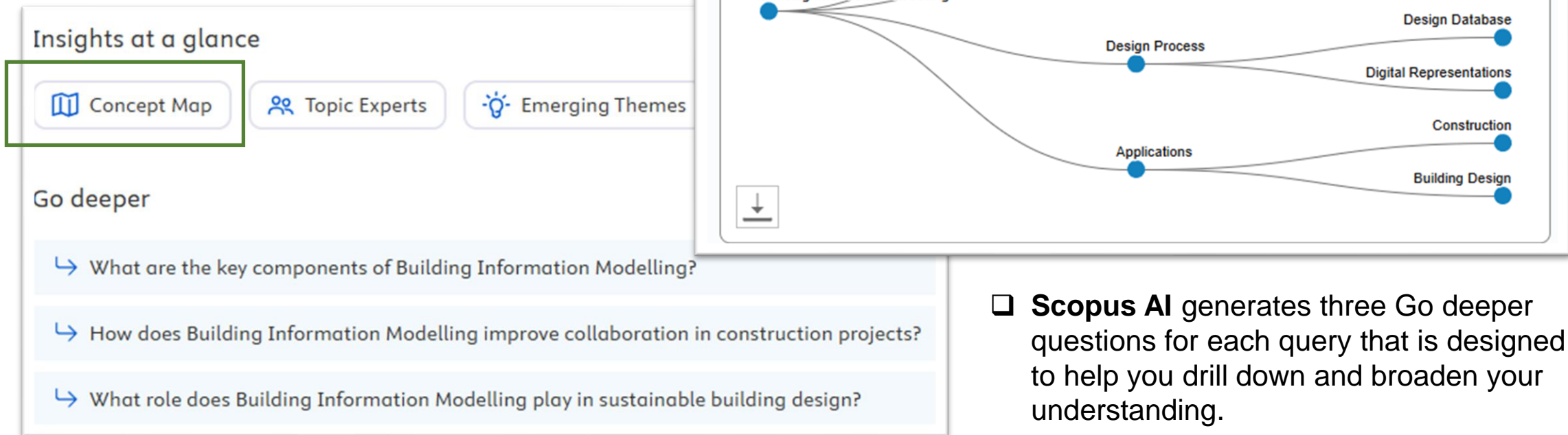
**Resources found by the AI tool**



# Scopus Concept Map

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- ❑ The **Concept map** is designed to help you get a more complete picture of your theme and its relationship to other research areas.



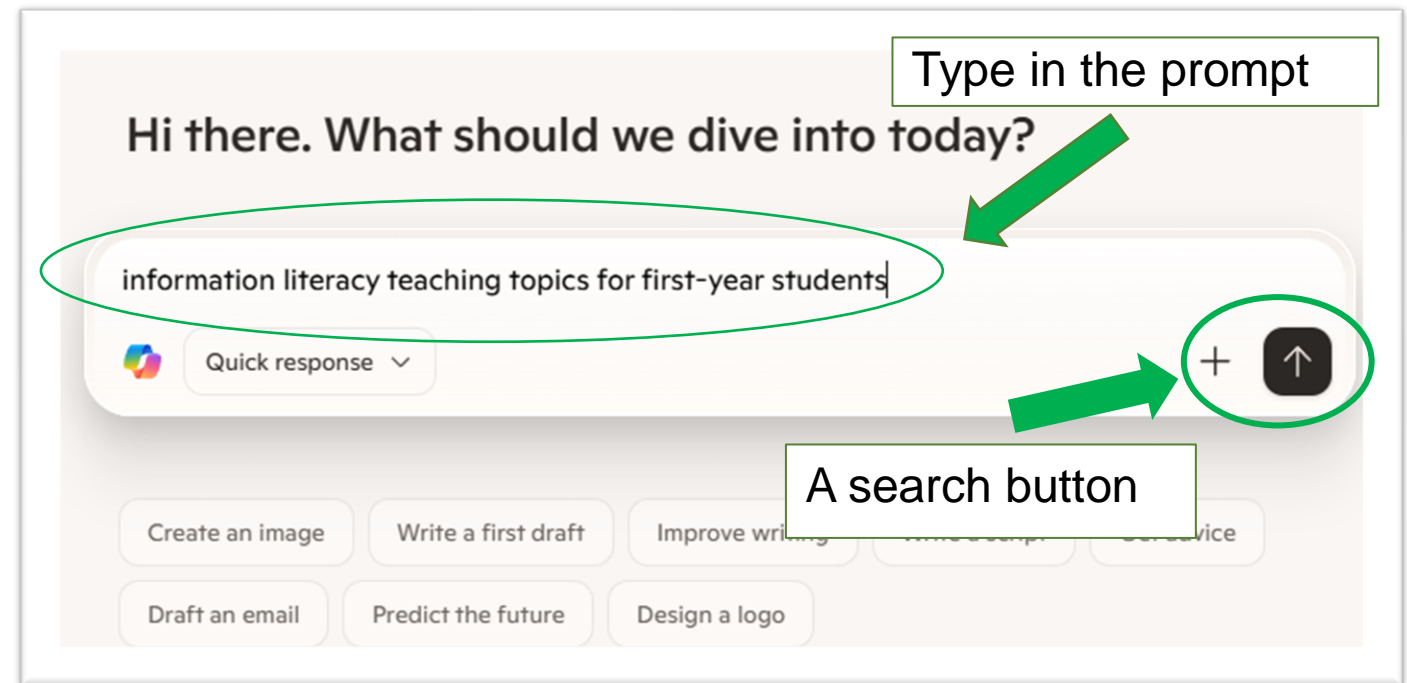
- ❑ **Scopus AI** generates three Go deeper questions for each query that is designed to help you drill down and broaden your understanding.

# Microsoft Copilot capabilities

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- ✓ **Document creation:** Microsoft 365 Copilot helps you draft reports, presentations, and emails by generating content and offering editing suggestions;
- ✓ **Data analysis:** In Excel, Microsoft 365 Copilot can help you analyze data trends, generate formulas, and create visualizations;
- ✓ **Project management:** With Microsoft 365 Copilot in Microsoft Teams, it's easier to track tasks and schedules to keep projects on course;
- ✓ **Communication:** In Outlook, Microsoft 365 Copilot can help summarize key action items from your inbox by topic or sender.

Available online: [copilot.microsoft.com](https://copilot.microsoft.com)





The screenshot displays the Microsoft Copilot web interface. On the left is a sidebar with navigation options: 'Discover' (Your daily news and inspiration), 'Creator Gallery' (Your inspiration studio, marked 'New'), and 'Labs' (Experimental AI initiatives). Below these are sections for 'Pages' (with a 'Create a page' button) and 'Conversations' (showing a list of topics, including 'Information Literacy Topics for Fir...'). The main content area is titled 'Today' and features a green oval highlighting the prompt 'information literacy teaching topics for first-year students'. A green arrow points from the text 'A formulated prompt' to this oval. Below the prompt, Copilot responds with a paragraph and a list of 'Core Information Literacy Topics'. A green bracket on the right side of the list points to the text 'Query results'. The list includes three main categories: 'Understanding Information Sources' (with sub-points on scholarly vs. popular publications, primary vs. secondary sources, and evaluating credibility), 'Search Strategies' (with sub-points on using academic databases, keyword development, and navigating catalogs), and 'Evaluating Information' (with a sub-point on identifying bias and misinformation). At the bottom is a 'Message Copilot' input box with a 'Quick response' dropdown and icons for adding attachments or images.

Copilot

Discover  
Your daily news and inspiration

Creator Gallery **New**  
Your inspiration studio

Labs  
Experimental AI initiatives

Pages

Work on writing, code, or your next big idea in a focused space. I can offer edits and feedback along the way.

Create a page

Conversations

Today

Information Literacy Topics for Fir... ⋮

Today

information literacy teaching topics for first-year students

Great question! First-year students are at a pivotal stage in developing their academic and critical thinking skills, so teaching information literacy can have a lasting impact. Here are some engaging and essential topics to include in your curriculum:

**Core Information Literacy Topics**

- **Understanding Information Sources**
  - Differences between scholarly, popular, and trade publications
  - Primary vs. secondary sources
  - Evaluating websites and media for credibility
- **Search Strategies**
  - Using academic databases effectively
  - Keyword development and Boolean logic
  - Navigating library catalogs and online repositories
- **Evaluating Information**
  - Identifying bias and misinformation

Message Copilot

Quick response ▾

+

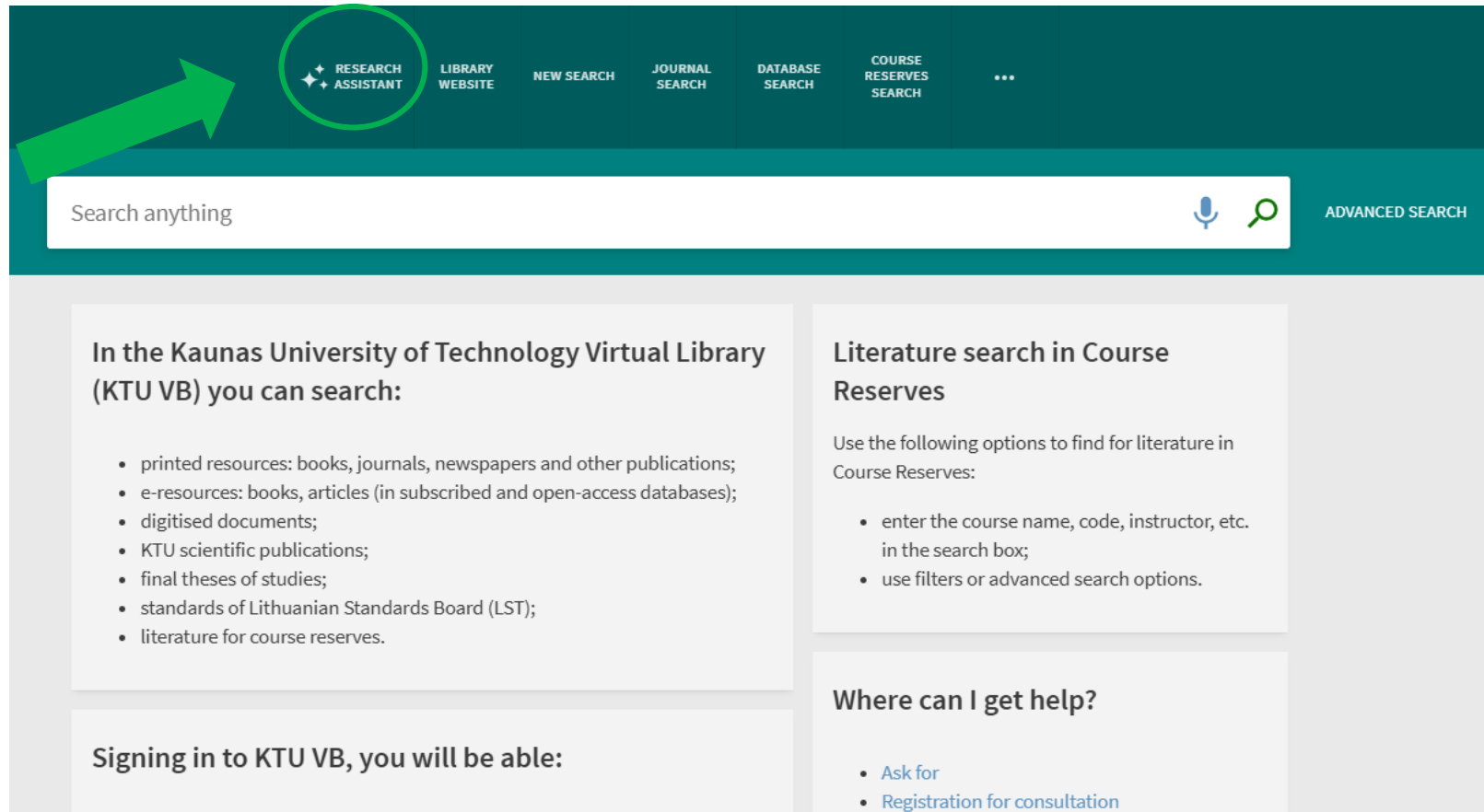
📎

A formulated prompt

Query results

# Research Assistant (1)

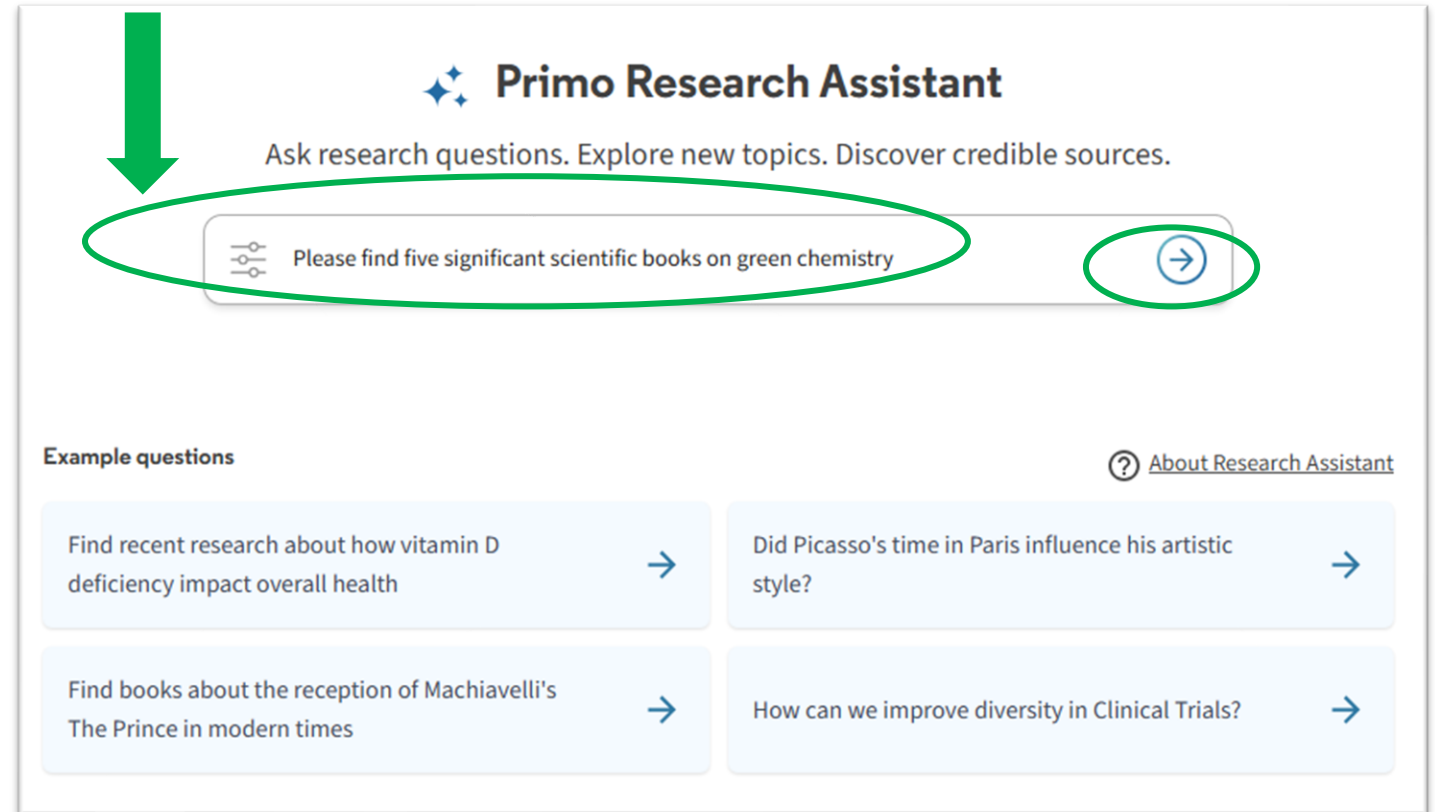
ktu



Available online <https://virtualbiblioteka.ktu.edu> and log in with the KTU single username and password.

# Research Assistant (2)


- ✓ Your question is converted into a query that the search engine understands with the help of a Large Language Model and identifies the most relevant documents in the index;
- ✓ It ranks them according to how well they can answer the question;
- ✓ creates an answer from the top 5 sources.




- ❑ If you ask a question in another language than English, the Assistant will search in both, your local language and English, and write the answer in the language of your question.

# Research Assistant (3)

ktu

 Please find five significant scientific books on green chemistry

 Sources

**1 BOOK**

Sustainable Green Chemical Processes and Their Allied Applications  
Inamuddin et al. 2020

**2 BOOK**

Green Chemistry  
Savitskaya, Tatsiana et al. 2021

**3 BOOK**


Green Chemistry and Computational Chemistry  
Mammino, Liliana L 2021

**4 BOOK**


Green Chemistry  
Benvenuto, Mark Anthony et al. 2021


**5 BOOK**

Green Chemistry for Beginners  
Srivastava, Anju et al. 2021



**View more results** from your library search

 Overview of sources

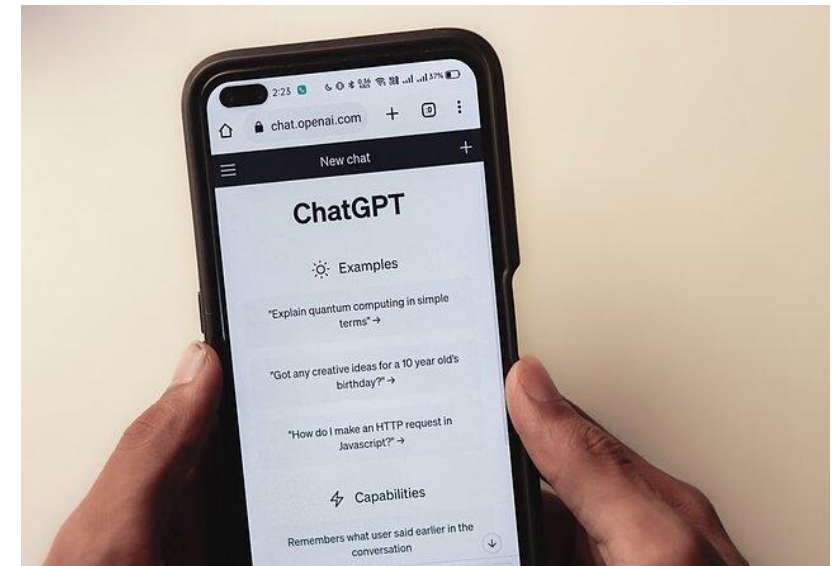
Green chemistry is an essential field that focuses on developing safer and more environmentally friendly processes for synthesizing various products, including organic and inorganic compounds, medicines, and food supplements. The principles of green chemistry emphasize waste prevention, atom economy, and the use of less toxic raw materials and solvents, aiming to reduce environmentally damaging byproducts and enhance energy efficiency. This approach is crucial for sustainable development and minimizing the negative impacts of urbanization, industrialization, and unethical agricultural practices on the environment and human health. 

The sources found by the AI tool

- ✓ There may be more than one possible answer and different resources that are relevant. If you are not satisfied with your answers, use the “Try again” button.
- ✓ Keep in mind that AI-generated answers should be verified for correctness, as they may not always be accurate or up-to-date.
- ✓ The Primo Research Assistant is not a replacement for human expertise.

# How to form an effective prompt?

- ✓ Ask in a concise, clear and concrete manner - the more precisely you ask the question, the better the result will be.
- ✓ Formulate a clear objective - explain to the chatbot what you want to come up with or achieve.
- ✓ Give the chatbot a role - help it understand from what perspective it should analyze the situation.
- ✓ Define the style and audience of the answer, e.g.: "Explain in a way that even a sixth grader can understand".
- ✓ Clarify restrictions and format, e.g.: "The answer must consist of 5 steps".
- ✓ Provide examples of a good response, e.g.: "Use examples from these sources... . [2]

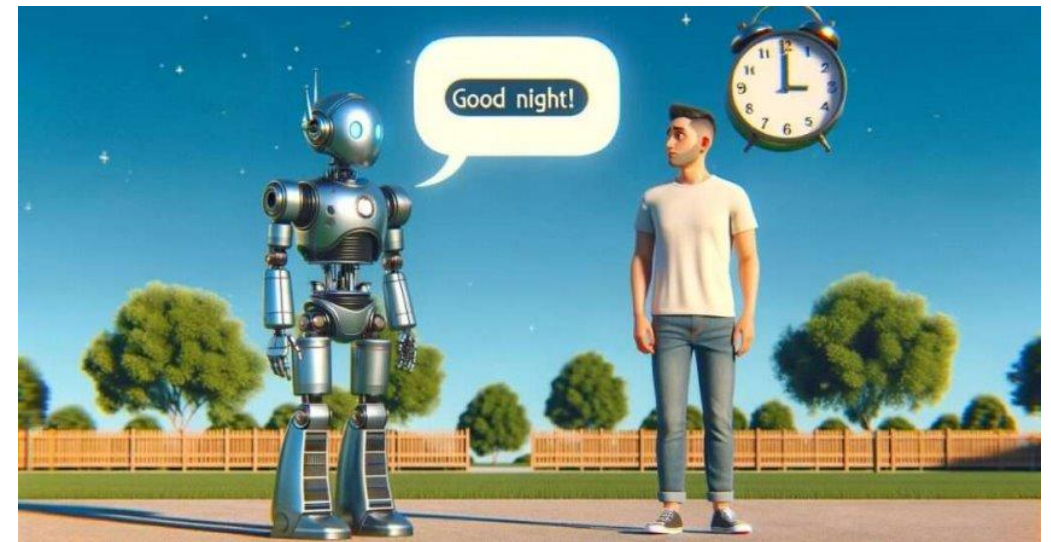


**Fig. 1.** Why My ChatGPT Account is Blocked?  
How To Fix It? [3]

# Top 5 things to be aware of (1)

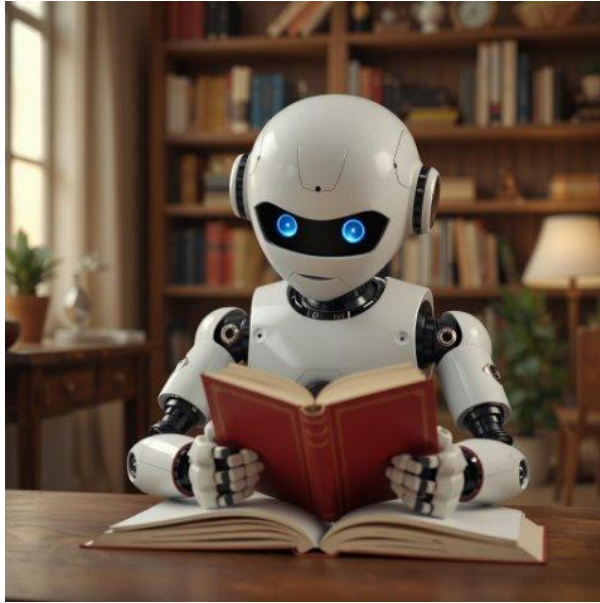
ktu

1. **"Be wary of false citations**, even if the sources sound legitimate or you are provided with quotes from the article. Large Language Models (LLMs) like Chat GPT can often "hallucinate" or invent sources that sound convincingly real. It can make up articles from [established publications](#) and even [court cases](#) with quotes from imaginary opinions" [4].



**Fig. 2.** What are AI hallucinations? [5]





**Fig. 3.** Friendly robot reading a book [6]

2. **"Reading summaries is not a replacement for critically engaging with the text.** Think of AI software that provides summaries of text as your first scan of a reading; it can help you get a general sense of the reading, but you may miss out on a lot of the nuance and subtle features of the text that can be essential for using it later in your own writing,,.

3. **"Be aware of the possibility of bias in the information** you are presented. Sometimes GDI provides responses that take data out of context or reinforce harmful stereotypes. Though the responses provided by GDI may give the appearance of a complex, reflective, and deeply reasoned process, remember, current platforms are heavily susceptible to the quality of prompts that are entered and lack of moral understanding of the information they provide. Having a critical approach to the information you are presented is just as necessary as if you were engaging with other resources for your research" [4].

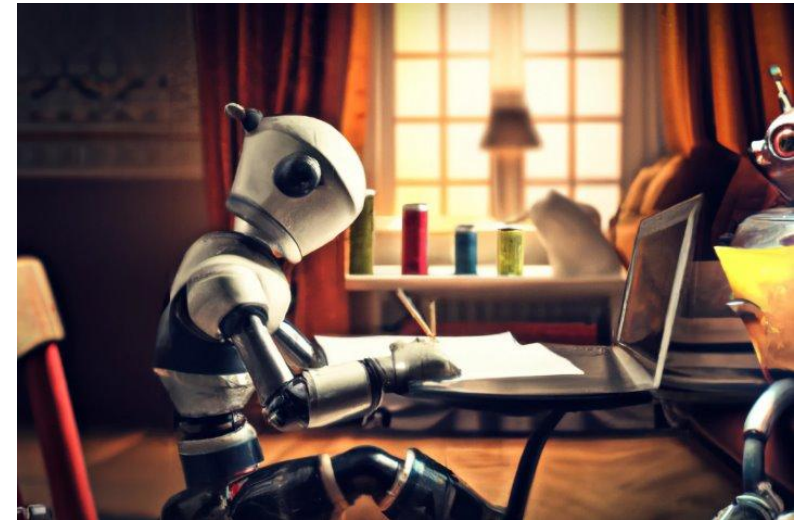
# Top 5 things to be aware of (4)

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## 4. **"Don't let generative AI do your work for you.**

Relying on generative AI to substitute the work needed to develop a skill or practice is not only a detriment to your own learning experience, but it offloads, as Marc Watkins notes, "the entire moral, ethical, and responsible thinking we expect from a human being,,.

5. "While generative AI can help you work through various stages of the research process, remember **you are ultimately responsible for knowing what is needed at each stage of your research** and for the information you submit for evaluation,,. [4]



**Fig. 4.** Growing Concern Over Students Using AI to Cheat on Homework [7]



# Help

## ▲ Final Degree Projects

[Final Degree Projects: similarity check in the Turnitin system and uploading to eLABa repository](#)

[Slides “Final Degree Projects: How to do Check Similarity in the Turnitin System and Upload it to eLABa repository”](#)

## ▲ Library training

[Training schedule / registration](#)

[Training sessions, learning materials / Video](#)

[Library trainings in Moodle](#)

## ▲ Registration

[Registration for Consultation](#)

[Register for Guided tours](#)

[Work room reservations](#)

## ▲ Resources

[Subscribed databases](#)

[Free trial databases](#)

[KTU Study Modules Literature](#)

[Lithuanian Academic Electronic Library eLABa](#)

[KTU research journals](#)

## ▲ Information for users using subscription databases

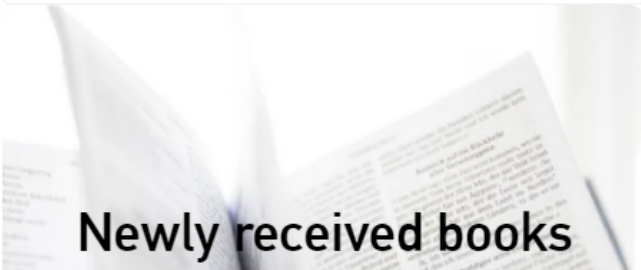
[Access to the subscribed databases from home](#)

[What is allowed / not allowed in databases](#)

## ▲ Useful

[Reference management tools](#)

[Software installed on library computers](#)



Newly received books

# References

1. ELSEVIER. *Scopus LibGuide: Scopus AI*. Available from: <https://elsevier.libguides.com/Scopus/ScopusAI>
2. LRT LT. *Kaip teisingai formuoti užklausą „ChatGPT“, kad gautumėte naudingą atsakymą? [How to formulate prompt correctly on ChatGPT in order to get a useful answer?]*. Available from: <https://www.lrt.lt/naujienos/mokslas-ir-it/11/2321809/kaip-teisingai-formuoti-uzklausa-chatgpt-kad-gautumete-naudinga-atsakyma> [viewed 2025-07-14].
3. TECHNOTIFICATION. *Why My ChatGPT Account is Blocked? How To Fix It?*. Available from: <https://www.technotification.com/2023/06/why-my-chatgpt-account-is-blocked-how-to-fix-it.html> [viewed 2025-07-14].
4. WOLFSON COLLEGE. *Study Skills*. Available from: <https://libguides.cam.ac.uk/wolfsoncollege/academic-ai> [viewed 2025-07-24].
5. AISERA. *What are AI hallucinations?*. Available from: <https://aisera.com/blog/ai-hallucination/> [viewed 2025-07-24].
6. FOTOR. *Home page*. Available from: <https://www.fotor.com/images/create> [viewed 2025-07-24].
7. LHS TODAY. *Growing Concern Over Students Using AI to Cheat on Homework*. Available from: <https://lhstoday.org/39127/news/growing-concern-over-students-using-ai-to-cheat-on-homework/> [viewed 2025-07-24].

# How to find resources for engineering disciplines and physical sciences

The Library of Kaunas University of Technology  
[biblioteka@ktu.lt](mailto:biblioteka@ktu.lt)