

Navigating Scientific Resources & Staying Organized

Making It Easier to Write a Ph.D. Dissertation, Article, or Proposal

November 2021

Alena Chodounská, Tomáš Razím



Agenda

1. Searching: Introduction
2. Google Scholar
3. Library Resources & Full Text Access
4. Types of Resources
5. Reading & Organizing Resources
6. Publishing and Presenting of the Outputs

1.SEARCHING: INTRODUCTION

Keywords (for Searching)

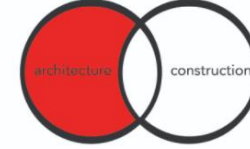
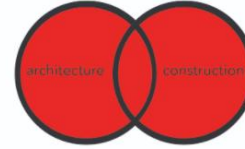
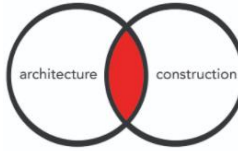
- Which keywords in your subject area are used by other authors?
- Is there a thesaurus/dictionary for your field?
 - [MeSH](#) (Medical Subject Headings)
 - [IEEE Thesaurus and Taxonomy](#)
 - [Mathematics Subject Classification](#)
 - [The Transportation Research Thesaurus](#)
 - [INSPEC Thesaurus](#) (after login)
- Other useful tools:
 - [Wikipedia](#) (translation of terms, fact checking,...)
 - [Google Scholar](#)



Affective computing	
BT:	Artificial
intelligence	
	Human computer
interaction	
RT:	Behavioral sciences
	Cognitive systems
	Emotion recognition
	Human factors
	Psychology

Database Search Tips

- AND, OR, NOT/-
- Phrase searching
- Truncation
- Filters
- Advanced search



“”

*



■ (author, title, abstract, full text, other)

→ [More database tips](#)

Searching Tools for Scientific Resources

- **Search engines**

- [Google Scholar](#)

- Library discovery tool ([NTK](#), [chemTK](#), [CTU](#))

...searching through multiple databases and collections mentioned below

- **Article/book databases**

- Paid databases (eg. [IEEE](#), [ScienceDirect](#), see [library subscribed databases](#))

- Open databases and journals (eg. [DOAJ](#), [PubMed Central](#) and [others](#))

- **Preprint collections** on servers as [arXiv](#), [ResearchGate](#), [Academia.edu](#)
or [institutional repositories](#)

- **Citation databases** [Web of Science](#) and [Scopus](#) (no full text, but links to full text)

- & **P2P servers** as [Sci-Hub](#), [LibGen](#), Ulož.to

2. GOOGLE SCHOLAR

Library Links

☰

Google Scholar

household photovoltaic OR solar system "grid connected"

🔍

📖 Articles

About 43,200 results (0.02 sec)

Any time

Since 2020

Since 2019

Since 2016

Custom range...

Sort by relevance

Sort by date

☒ include patents

☒ include citations

☒ Create alert

[HTML] Simulation and performance analysis of 110 kWp **grid-connected photovoltaic system** for **residential** building in India: A comparative analysis of various PV ...

AK Shukla, K Sudhakar, P Baredar - Energy Reports, 2016 - Elsevier

Abstract **System** simulation is necessary to investigate the feasibility of **Solar PV system** at a given location. This study is done to evaluate the feasibility of **grid connected rooftop solar photovoltaic system** for a **residential** Hostel building at MANIT, Bhopal, India (Latitude: 23° ...

☆ 📄 Cited by 124 Related articles All 4 versions 🔗

[HTML] sciencedirect.com

Full text @ NTK ★

Control and **power** management of a **grid connected residential photovoltaic system** with plug-in hybrid electric vehicle (PHEV) load

Y Gurkaynak, A Khaligh - ... -Fourth Annual IEEE Applied Power ..., 2009 - ieeeexplore.ieee.org

The main objective of this paper is to design and analyze a **residential photovoltaic system** for plug-in hybrid electric vehicle load, in addition to regular **residential** requirements. This **system** is a combination of two subsystems which are cascaded through a DC link. First ...

☆ 📄 Cited by 89 Related articles All 2 versions 🔗

[PDF] ieee.org

Full text @ NTK

Coordinated control of **grid-connected photovoltaic** reactive **power** and battery energy storage **systems** to improve the voltage profile of a **residential** distribution feeder

MN Kabir, Y Mishra, G Ledwich... - IEEE Transactions on ..., 2014 - ieeeexplore.ieee.org

Increasing penetration of **photovoltaic** (PV), as well as increasing peak load demand, has resulted in poor voltage profile for some **residential** distribution networks. This paper proposes coordinated use of PV and battery energy storage (BES) to address voltage rise ...

☆ 📄 Cited by 283 Related articles All 5 versions 🔗

[PDF] ieee.org

Full text @ NTK

Optimal sizing of **grid-connected photovoltaic** battery **systems** for **residential** houses in Australia

J Li - Renewable energy, 2019 - Elsevier

This paper presents optimal sizing algorithms of **grid-connected photovoltaic-battery system** for **residential** houses. The objective is to minimize the total annual cost of electricity. The proposed methodology is based on a genetic algorithm involving a time series simulation of ...

☆ 📄 Cited by 40 Related articles All 7 versions 🔗

Full text @ NTK ★

Near-term economic benefits from **grid-connected residential PV (photovoltaic) systems**

GG Pillai, GA Putrus, T Georgitsioti, NM Pearsall - Energy, 2014 - Elsevier

One of the main reasons attributed to the slow uptake of **grid-connected residential PV (photovoltaic) systems**, is the lack of information about the near-term economic benefits which are as important as long-term viability for **residential** customers. This paper presents a ...

☆ 📄 Cited by 87 Related articles All 11 versions 🔗

Full text @ NTK ★

Steady-state performance of a **grid-connected** rooftop hybrid wind-**photovoltaic power system** with battery storage

F Giraud, ZM Salameh - IEEE transactions on energy ..., 2001 - ieeeexplore.ieee.org

... in time of low demand to use it when the **residential** load needs ... SALAMEH: STEADY-STATE

[PDF] ieee.org

Full text @ NTK

Google Scholar

&

NTK

50°6'14.083"N, 14°23'26.365"E
Národní technická knihovna
National Library of Technology

- [CTU](#) is currently not fully integrated with Google Scholar

Library Links Setting



Articles

Case law

Profiles

 My profile

 My library

 Alerts

 Metrics

 Advanced search

 Settings

Settings

Search results

Languages

Library links

Account

Button

Collections

☒ Search articles (☒ include patents).

☐ Search case law.

Results per page

10

Google's default (10 results) provides the

Where results open

☐ Open each selected result in a new browser window

Bibliography manager

☒ Don't show any citation import links.

☐ Show links to import citations into

BibTeX

Show library access links for (choose up to five libraries):

praze



e.g., Harvard

☒ National Library of Technology - Full text @ NTK

☒ Státní technická knihovna - Získat v STK

☒ Masaryk University - Get Fulltext at MU

☒ Vysoká škola chemicko-technologická - Získat přes VŠCHT (SFX)

☒ Czech University of Life Sciences Prague - Získat full text

☐ Czech National Library - Full-text @ NKP (JIB)

☐ Museum of Decorative Arts in Prague - Get it @ UPM via ART SG

☐ Městská knihovna v Praze - Získat v MKP

☐ Národní lékařská knihovna v Praze, ČR - Plný text v NLK

☐ Vysoká škola ekonomická v Praze (Prague University of Econom - Full-Text @ VŠE

☐ Mesttska knihovna v Praze - ProQuest Fulltext

Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library's website or ask a local librarian for assistance.

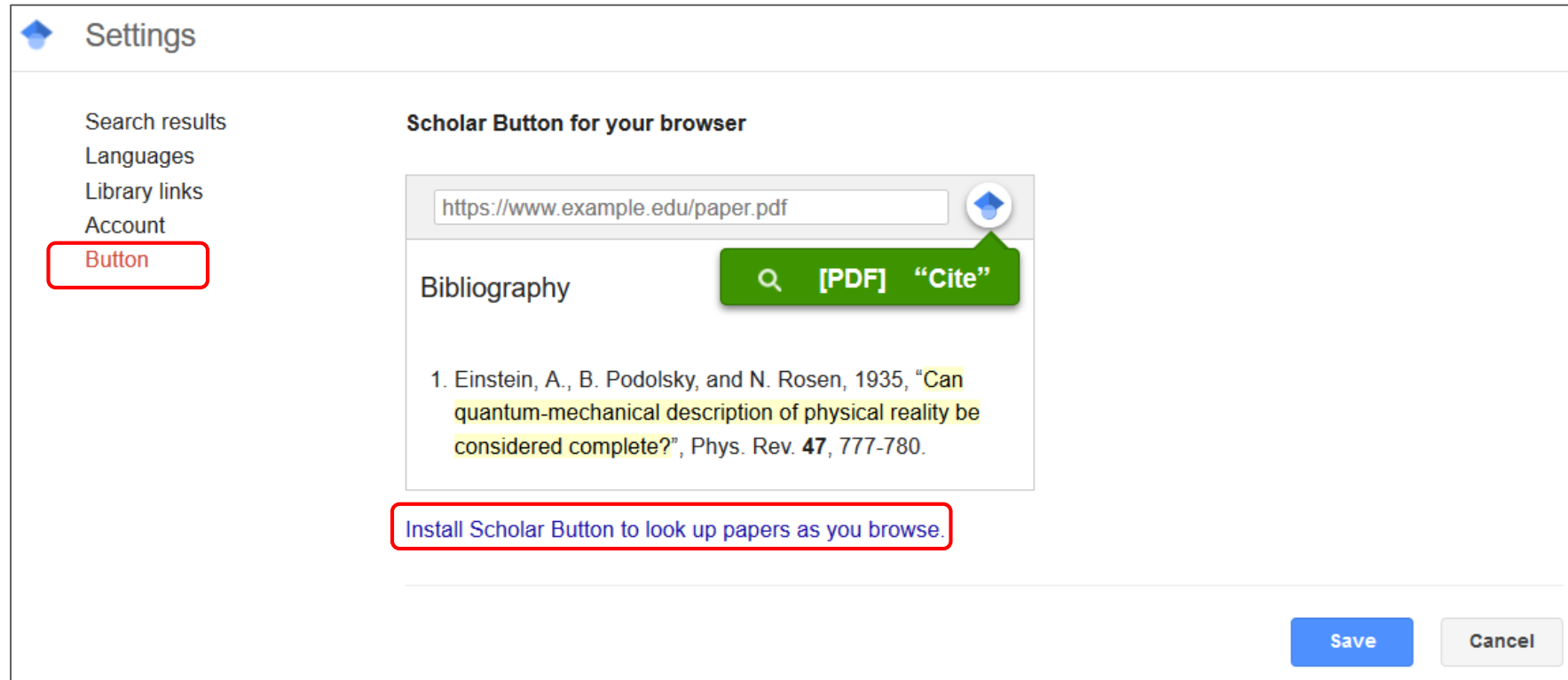
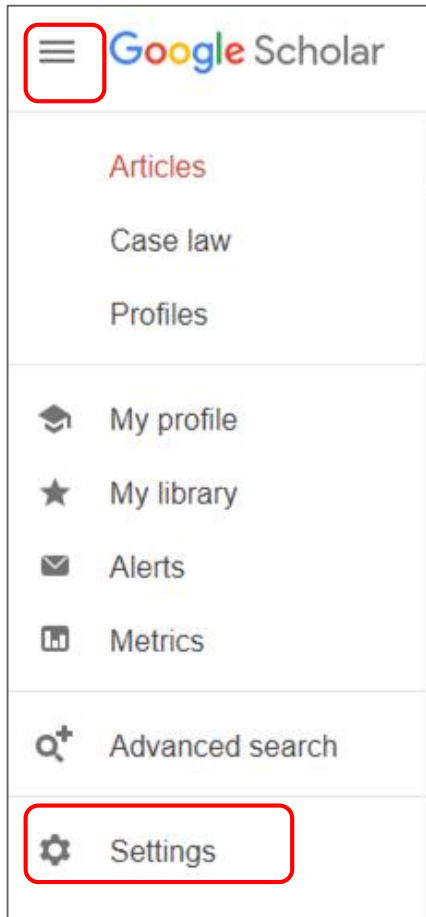
Save

Cancel

Google Scholar Button



- Browser extension ([Chrome](#), [Firefox](#), [Opera](#))



Google Scholar Button



- Quick access to **full text** & citations download

References

[1] Sheehan J, Cambreco V, Duffield J, Garboski M, Shapouri H. An overview of biodiesel and petroleum diesel life cycles. A report by US Department of Agriculture and Energy; 1998. p. 1–35.
[Google Scholar](#)

[2] S. Puhan, N. Vedaraman, B.V. Rambrahaman, G. Nagarajan
Mahua (*Madhuca indica*) seed oil: a source of renewable energy in India
J Sci Ind Res, 64 (2005), pp. 890-896
[View Record in Scopus](#) [Google Scholar](#)

[3]

[4] **Mahua (*Madhuca indica*) seed oil: A source of renewable energy in India**
S Puhan, N Vedaraman, BV Rambrahaman... - 2005
Mahua oil methyl, ethyl and butyl esters were prepared and studied in a four stroke, direct injection diesel engine for their performance and emissions. The engine test results showed high thermal efficiency in case of methyl ester compared to all other esters and diesel fuel. Different emissions such as carbon monoxide (CO), oxides of nitrogen (NO_x), hydrocarbons (HC) is low for alkyl esters compared to diesel. Among alkyl esters except NO_x all tail pipe emissions are lower in case of methyl ester compared to other esters. The ethyl ester shows ...
Počet citací tohoto článku: 163 [Související články](#)
Všechny verze (počet: 5)
[\[PDF\] niscail.res.in](#)

[5]

Mahua (*Madhuca indica*) seed oil: A source of renewable energy in India

Sukumar Puhan¹, N Vedaraman^{1,*}, B V Rambrahaman¹ and G Nagarajan²

¹Chemical Engineering Division, Central Leather Research Institute, Chennai

²Department of Mechanical Engineering, Anna University, Chennai

Mahua oil methyl, ethyl and butyl esters were prepared and studied in a four stroke, direct injection diesel engine for their performance and emissions. The engine test results showed high thermal efficiency in case of methyl ester compared to all other esters and diesel fuel. Different emissions such as carbon monoxide (CO), oxides of nitrogen (NO_x), hydrocarbons (HC) is low for alkyl esters compared to diesel. Among alkyl esters except NO_x all tail pipe emissions are lower in case of methyl ester compared to other esters. The ethyl ester shows lower NO_x emission compared to other esters. Based on this study, mahua oil methyl ester performs well compared to other esters on the basis of performance and emissions.

Keywords: Biodiesel, Diesel engine, Emissions, Mahua oil, Renewable energy

IPC Code: F02B13/10

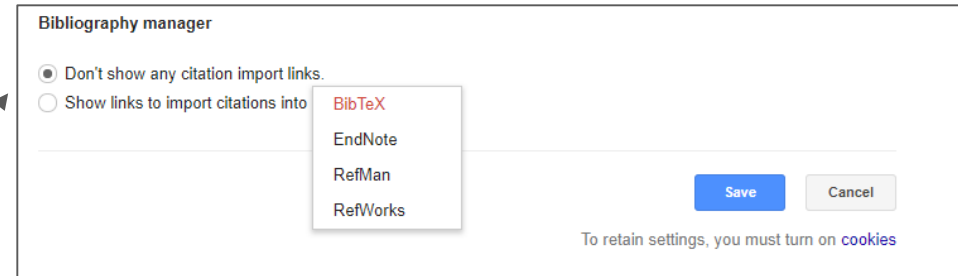
Introduction

Worldwide energy consumption has increased 17 fold in the last century and, as a consequence, the carbon dioxide (CO₂), sulfur dioxide (SO₂) and nitrogen oxides (NO_x) emissions from the combustion of fossil fuels have damaged the atmosphere to a significant extent. CO₂ emissions have risen over the last two decades, reaching an atmospheric content of 360 ppm, estimating the world CO₂ emissions at about 26 billion metric ton per year.

diesel fuels substitute; soybean oil in the USA, rapeseed and sunflower oils in Europe, palm oil in south East Asia and coconut oil in Philippines are being considered as substitutes for diesel fuels. Since edible oil demand is higher than its domestic production (Table 1), there is no possibility of diverting this oil for production of biodiesel in India. Being a tropical country, India is rich in forest resources having a wide range of trees, which yield a significant quantity of oilseeds. The production of

Google Scholar Tips & Tricks

- Library links
- Citation management tools
- Google Scholar Button
- Google Scholar Alerts
- Google Scholar Account
 - GS author profile
 - My library



Bibliography manager

☒ Don't show any citation import links.

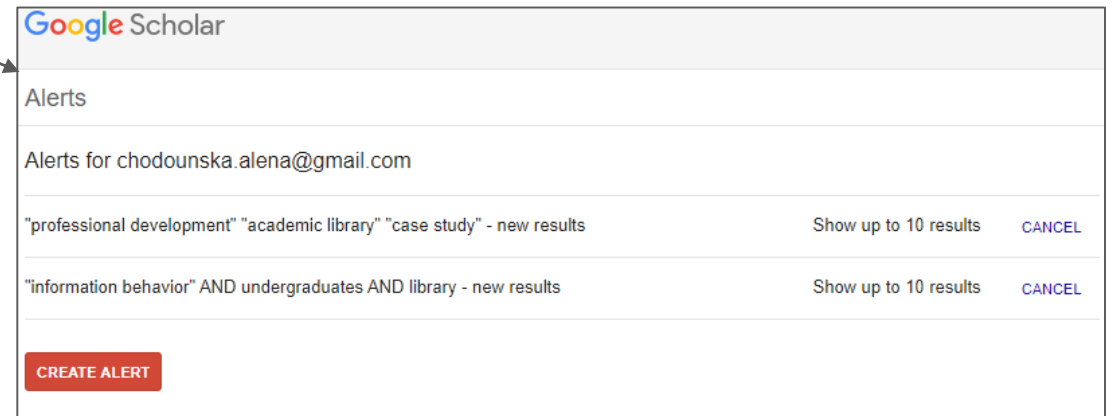
☐ Show links to import citations into

- BibTeX
- EndNote
- RefMan
- RefWorks

[Save](#) [Cancel](#)

To retain settings, you must turn on [cookies](#)

This dialog box allows users to manage citation import links. It has two radio buttons: 'Don't show any citation import links.' (selected) and 'Show links to import citations into'. A dropdown menu is open next to the second option, showing 'BibTeX', 'EndNote', 'RefMan', and 'RefWorks'. There are 'Save' and 'Cancel' buttons at the bottom right, and a note about cookies.



Google Scholar

Alerts

Alerts for chodounska.alena@gmail.com

"professional development" "academic library" "case study" - new results	Show up to 10 results	CANCEL
"information behavior" AND undergraduates AND library - new results	Show up to 10 results	CANCEL

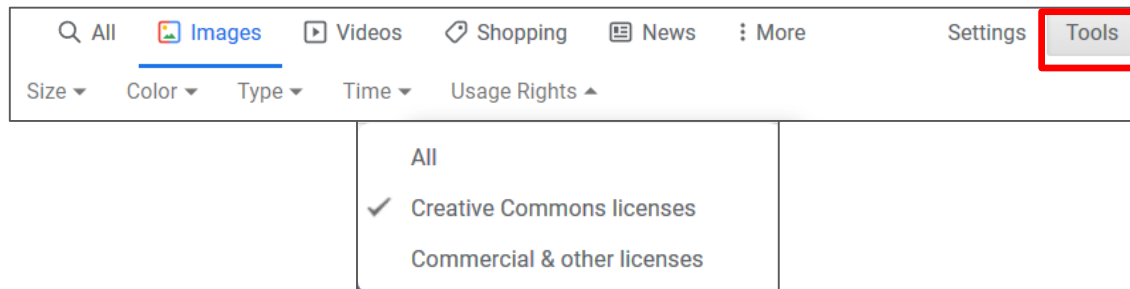
[CREATE ALERT](#)

The Google Scholar Alerts page shows a list of alerts for the user chodounska.alena@gmail.com. There are two alerts listed, each with a search query, a result count, and a 'CANCEL' link. A 'CREATE ALERT' button is at the bottom.

Google Tips & Tricks

- Find the **name of the person** you are citing (especially when you are writing in Czech)
- Find pictures under **open licence**

site:cvut.cz dissertation (all pages with keyword “dissertation” on domain “cvut.cz”)



→ [More Tips & Tricks on Google](#)

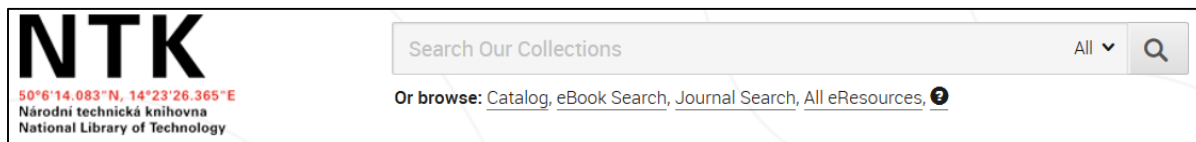
3. LIBRARY RESOURCES & FULL-TEXT ACCESS

Searching @ NTK

- NTK discovery tool
- Browse/find eBooks and eJournals
- Specific databases and electronic collections
- Access to full text
- Document delivery / interlibrary loan

Electronic resources accessible from home

Library Discovery Tools



NTK
50°6'14.083"N, 14°23'26.365"E
Národní technická knihovna
National Library of Technology

Search Our Collections All ▾ 🔍

Or browse: [Catalog](#), [eBook Search](#), [Journal Search](#), [All eResources](#), ?

<https://www.techlib.cz/en/>

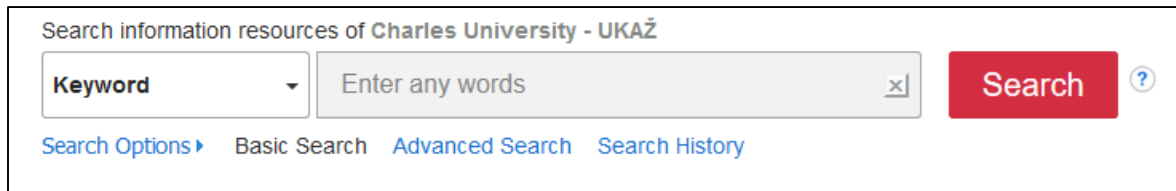


chem^{TK}
Joint UCT, IOCB, and NTK
Library of Chemistry

Search Our Collections All ▾ 🔍

Or browse: [All eResources](#), [Journal search](#), [eBook search](#), [Catalog](#)

<https://www.chemtk.cz/en/>



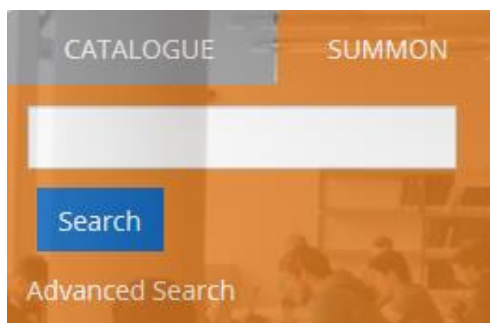
Search information resources of Charles University - UKAŽ

Keyword ▾ Enter any words x

Search ?

[Search Options ▶](#) [Basic Search](#) [Advanced Search](#) [Search History](#)

<https://ukaz.cuni.cz>



CATALOGUE SUMMON

Search

Advanced Search

<http://knihovna.cvut.cz/en/#summon>

- **One box** for searching across **all journals** and **books** (both electronic and print) provided by the library (items from databases like IEEE, ScienceDirect, EBSCO, ProQuest, and more)
- Advanced searching options
- Advanced filtering
- Library print collection included

Log in for off-campus access to full text

24/7 Online Access to Scientific Resources
NTK provides access to a wide array of electronic content. Read more...

1 / 4 [Temporary Access to Online Collections →](#)

Discovery = search all databases from one field

List of all databases (eResources) and eJournals & eBooks

NTK Hours: 8:00 - 2:00 [All hours](#)

- [FAQ](#)
- [Team Study Rooms](#)
- [Print, Scan, Copy](#)
- [Wi-Fi](#)
- [What's On](#)

Current seating occupancy:

259 out of 900

Quick access to main databases including Web of Science and Scopus

News

Digitization of EOD historical books

5. 10. – From October 1–31, you can order digital copies of historical books from nine EOD (eBooks on Demand) member libraries for 10 euros. More information can be found [here](#).

Winter Semester webinars

23. 9. – We've prepared a series of free Winter Semester webinars for [doctoral students](#) and [other early career researchers](#). Registration is open.

Changes starting September 1

1. 9. – Starting September 1, you can use the [Team Study Rooms](#) and the [Quiet Study Room](#) again. Library seating capacity has been increased to 900, and 46 persons can now be in

Selected eResources

- [Cambridge Journals](#)
- [EBSCOhost](#)
- [Emerald Premier](#)
- [Encyclopedia Britannica](#)
- [IEEE Xplore](#)
- [IOPscience](#)
- [Nature Complete](#)
- [Oxford English Dictionary](#)
- [Oxford Journals](#)
- [ProQuest Central](#)
- [ProQuest EBook Central](#)
- [ScienceDirect](#)
- [Scopus](#)
- [SpringerLink](#)
- [Taylor & Francis Online](#)
- [Web of Science](#)
- [Wiley Online Library](#)

Contact Us

- [Contact Form](#)
- (+420) 232 002 535
(Mon: 12–8 p.m., Tue–Fri: 9 a.m.–5 p.m.)
- info@techlib.cz



Quick Links

- [Education & Research Support](#)
- [Subject Guides](#)
- [Tutorials](#)
- [Become a Patron](#)
- [How to... \(tech guides\)](#)
- [Places to Study](#)
- [Suggest a Purchase](#)
- [Interlibrary Loan Services](#)
- [Conference Services & Rentals](#)

www.techlib.cz/en/

Direct Access to Databases and Collections Provided by NTK



Electronic Resources

Most of these [eResources](#) can be accessed outside the library. To search a specific database, select *via NTK*. To search all eResources at once, use the *Search Our Collections* box above.

Use filters to find resources relevant to a particular subject, in a particular format, or by language.

Title	Access	Description
Academic Search Ultimate	via NTK	Description
AccessScience New	via NTK	Description
ACM Digital Library	via NTK	Description
ACS New	Open access	Description
American Institute of Physics - Complete	via NTK	Description
Analytical Abstracts	via NTK	Description
Anopress IT	Workstations in the library	Description
Apress	via NTK	Description
APS e-Journals	via NTK	Description

Search and Filters

Type to filter

- | RESOURCE TYPE
- | CONTENT TYPE
- | SUBJECTS
- | ACCESS
- | CONTENT LANGUAGE

Contacts

eResources Acquisition

✉ eiz@techlib.cz
☎ (+420) 232 002 572

eResources Administration

✉ eservices@techlib.cz

See also

- [Subject Guides](#)
- [eBooks A-Z](#)
- [eJournals A-Z](#)
- [Remote Access](#)
- [Access & Privileges](#)
- [Interlibrary Loan and Document Delivery](#)
- [Suggest a purchase](#)
- [Reference and Research Help](#)
- [Library Rules](#)
- [Catalog](#)
- [Scientific resources for COVID-19](#)

Getting Full Text (when Sci-Hub is down) ;-)

1. Always make sure you are logged onto the library website for **off-campus access**
2. Activate Library links on Google Scholar
3. Use tools on library web page



eJournals	eArticles	eBooks
Journal Search • Search for journal title or ISSN	Discovery tool • “Phrase search” of article title • Supplement with name of one author for better accuracy	Discovery tool • “Phrase search” of book title • Supplement with name of one author for better accuracy eBook Search • Search for book title, ISBN, or author

Getting Full Text: Other Options

International ILL Order Form for individual NTK patrons

You wish to get * ☐ A loan
☐ A copy

Name *

Address in the Czech Republic - Street

Address - City *

Zip Code *

Email *

Phone

Your status * ☐ Scholar / Scientist / Researcher
☐ Doctoral Student
☐ Student
☐ Other

Purpose of this order * ☐ Research
☐ Teaching
☐ Studies
☐ Other

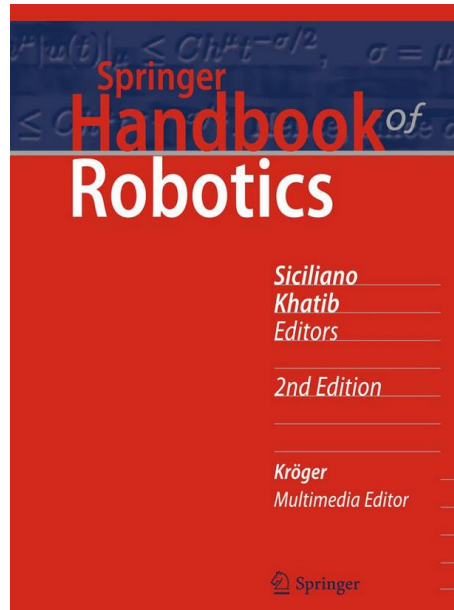
For materials that are not available online:

- Use [ILL form](#) (Interlibrary Loan)
- Ask for assistance:
info@techlib.cz

4. TYPES OF RESOURCES

Handbooks, Textbooks, & Encyclopedias

- To get familiar with **terminology** and **context** for a new project



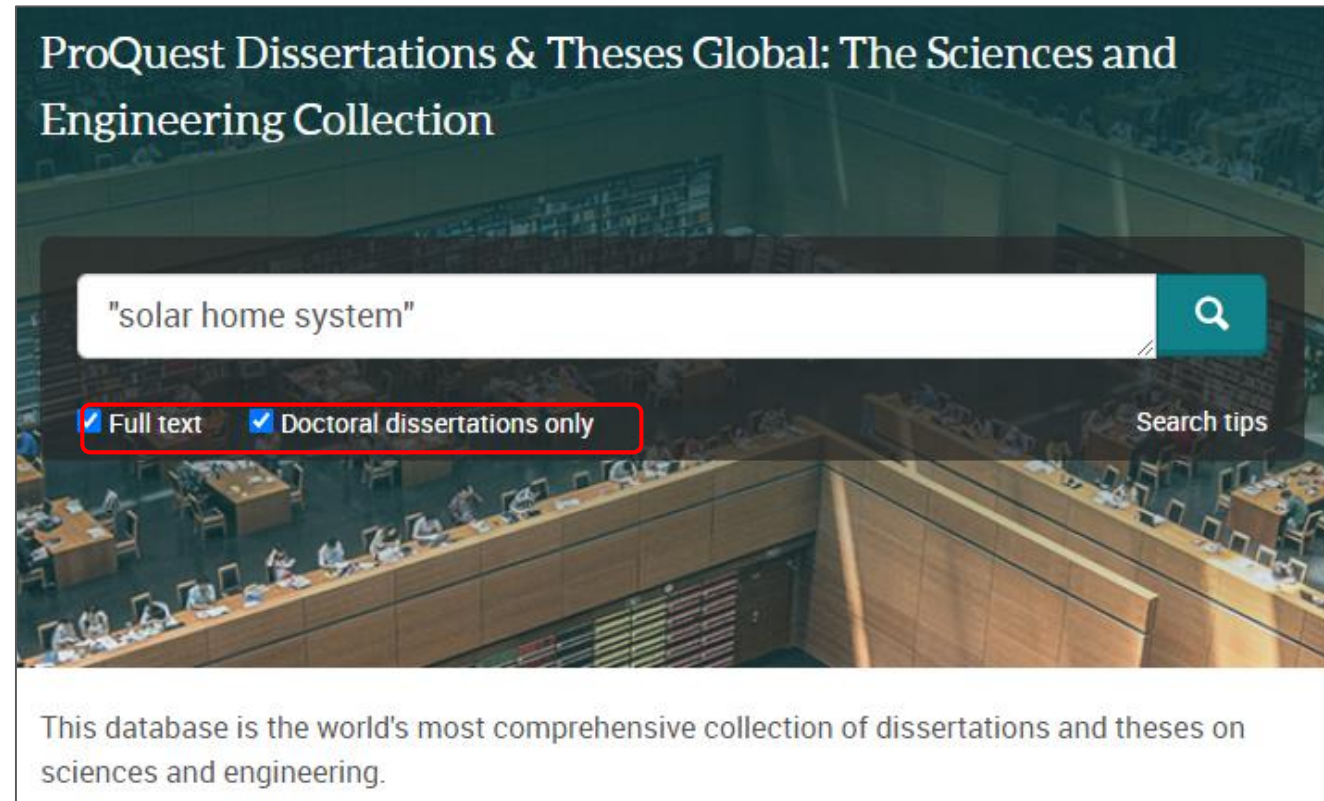
Part G Human-Centered and Life-Like Robotics	
56 Humanoids	
Charles C. Kemp, Paul Fitzpatrick, Hirohisa Hirukawa, Kazuhito Yokoi, Kensuke Harada, Yoshio Matsumoto	
56.1	Why Humanoids?
56.2	History and Overview
56.3	Locomotion
56.4	Manipulation
56.5	Whole-Body Activities
56.6	Communication
56.7	Conclusions and Further Reading
	References
57 Safety for Physical Human-Robot Interaction	
Antonio Bicchi, Michael A. Peshkin, J. Edward Colgate	
57.1	Motivations for Safe pHRI
57.2	Safety for Hands-Off pHRI
57.3	Design of Intrinsically Safe Robots
57.4	Safety for Hands-On pHRI
57.5	Safety Standards for pHRI
57.6	Conclusions
	References
58 Social Robots that Interact with People	
Cynthia Breazeal, Atsuo Takanishi, Tetsunori Kobayashi	
58.1	Social Robot Embodiment
58.2	Multimodal Communication
58.3	Expressive Emotion-Based Interaction
58.4	Socio-cognitive Skills
58.5	Conclusion and Further Reading
	References
59 Robot Programming by Demonstration	
Aude Billard, Sylvain Calinon, Rüdiger Dillmann, Stefan Schaal	
59.1	History

SICILIANO, Bruno a Oussama KHATIB, ed. [Springer Handbook of Robotics](#). 2nd. Berlin: Springer, 2016. ISBN 9783319325507.

→ robotic AND (handbook OR text book OR encyclopedias OR dictionary)

Dissertations

- Get inspired by the approaches of others to similar dissertation topics and the formatting they used for structuring their theses
- Follow their lists of resources
- Make sure that your mentor would approve your choice of the sample theses and avoid plagiarism



- *Czech institutional repositories* ([CTU](#), [UCT](#), [CU](#), [Grey literature](#))
- [ProQuest Thesis](#) and [other international repositories](#)

Review Articles

- Type of scholarly articles that provide summary and analysis of previous research on the specific topic/problem/question
 - Review, Systematic Review, Meta-Research, Meta-Analysis
 - Good for learning about:
 - The state-of-the-art
 - Comprehensive lists of relevant resources
 - Previous research
- "social robot" AND (review OR meta-analysis OR meta-research)
- Use a filter (available e.g., in Scopus, Web of Science, Semantic Scholar)



CHEN, Shu-Chuan, Cindy JONES a Wendy MOYLE. Social Robots for Depression in Older Adults: A Systematic Review. *Journal of Nursing Scholarship* [online]. 2018, 50(6) [cit. 2018-11-13]. DOI: 10.1111/jnu.12423. ISSN 15276546. Dostupné z: <http://doi.wiley.com/10.1111/jnu.12423>

Finding Seminal Articles

- **Core articles** for specific fields
- Quick orientation for new (interdisciplinary) projects

Use **citation databases** to find reliable journals and proceedings:

→ ("waste water" OR "grey water")
sorted via number of citations in
Web of Science or SCOPUS

Chaudhuri, L. (n.d.). *Seminal Works*. EdD Executive Leadership
<https://resources.library.lemoyne.edu/guides/EdD/Systematic-Review/Seminal-Works>

Scopus (@ NTK)

Analyze search results

Show all abstracts Sort on: Cited by (highest)

☐ All Export Download View citation overview View cited by Add to List ...

	Document title	Authors	Year	Source	Cited by
☐ 1	Pseudo-second order model for sorption processes	Ho, Y.S., McKay, G.	1999	Process Biochemistry 34(5), pp. 451-465	10449

View abstract View at Publisher Related documents

Web of Science (@ NTK)

Refine results

0/117,893 Add To Marked List Export

Citations: highest first 1 of 2,000

☐ 1 Pseudo-second order model for sorption processes 10,998 Citations

Ho, YS and McKay, G
Jul 1999 | PROCESS BIOCHEMISTRY 34 (5), pp.451-465

A literature review of the use of sorbents and biosorbents to treat polluted aqueous effluents containing dyes/organics or metal ions has been conducted. Over 70 systems have been reported since 1984 and over 43 of these reported the mechanism as being a pseudo-first order kinetic mechanism. Three sorption kinetic models are presented in this pa ... [Show more](#)

Full Text at Publisher ***

85 References

[Related records](#)

→ Learn more about Citation Databases at [our webinars](#) (November 16 & November 23)

Finding Seminal Articles (2)

Other **search engines for academic resources** that enable sorting results by number of citations:

- [Semantic Scholar](https://www.semanticscholar.org/) (a free search engine developed by the [Allen Institute for AI](https://allenai.org/))
- [Dimensions](https://app.dimensions.ai/discover/publication) (a commercial scholarly search platform, the free version includes searching in publications and datasets only)

About 65,300 results for "waste water" OR "grey water"

Top 100 relevant results, sorted by citation count

Fields of Study Date Range Has PDF Publication Type Author Journals & Conferences Sort by Citation Co...

Life cycle assessment of municipal waste water systems
A. Tillman, M. Svingby, Henrik Lundström · Environmental Science · 1 May 1998
Life Cycle Assessment was applied to municipal planning in a study of waste water systems in Bergsjön, a Göteborg suburb, and Hamburgsund, a coastal village. Existing waste water treatment consists... [Expand](#)
192 PDF View on Springer Save Alert Cite

Anaerobic treatment as a core technology for energy, nutrients and water recovery from source-separated domestic waste(water).
G. Zeeman, K. Kujawa, +9 authors G. Lettinga · Environmental Science, Biology · Water science and technology : a journal of the... · 1 April 2008
TLDR Based on results of pilot scale research with source-separated black water (BW) and grey water (GW), a new sanitation concept is proposed and the total energy saving amounts to 200 MJ/year in comparison with conventional sanitation. [Expand](#)
151 View on PubMed Save Alert Cite

Semantic Scholar: <https://www.semanticscholar.org/>

"waste water" OR "grey water" Free text in full data Save / Exp

PUBLICATIONS	DATASETS	GRANTS	PATENTS	CLINICAL TRIALS	POLICY DOCUMENTS
453,634	2,088	4,347	904,189	13	13,694

☒ Show abstract Sort by: Citations

Title, Author(s), Bibliographic reference - [About the metrics](#)

Standard methods for the examination of water and waste water.
F W Gilcreas
1966, American Journal of Public Health and the Nations Health - Article
Citations 11k Open Access Add to Library

Dimensions: <https://app.dimensions.ai/discover/publication>

The Most Up-to-date, State-of-the-art Search

- Follow key scholars and institutions in your research field
- Preprint servers ([arXiv](https://arxiv.org/), [bioRxiv](https://www.biorxiv.org/), others): articles published before peer review
- Conference papers, conference proceeding books
- Informal exploration of early-stage ideas: blogs, social networks, lectures

The screenshot shows the arXiv.org homepage. At the top, it features the Cornell University logo and a login button. A search bar is located in the top right corner. Below the header, a red banner contains the text "arXiv.org" and a search bar. The main content area is divided into two columns. The left column, titled "Subject search and browse:", lists various academic fields with a dropdown menu currently showing "Physics". The right column, titled "COVID-19 Quick Links", provides information about SARS-CoV-2 preprints and includes a warning about the non-peer-reviewed nature of e-prints. The bottom of the page shows the "Mathematics" section.

Cornell University

We gratefully acknowledge support from the Simons Foundation and member institutions.

arXiv.org

Search... All fields Search

Help | Advanced Search

arXiv is a free distribution service and an open-access archive for 1,799,817 scholarly articles in the fields of physics, mathematics, computer science, quantitative biology, quantitative finance, statistics, electrical engineering and systems science, and economics. Materials on this site are not peer-reviewed by arXiv.

Subject search and browse:

Computer Science Search Form Interface Catchup

Physics

Mathematics

Quantitative Biology

Computer Science

Quantitative Finance

Statistics

Electrical Engineering and Systems Science

Economics

Astrophysics (astro-ph new, recent, search)

includes: Astrophysics of Galaxies; Cosmology and Nongalactic Astrophysics; Earth and Planetary Astrophysics; High Energy Astrophysical Phenomena; Instrumentation and Methods for Astrophysics; Solar and Stellar Astrophysics

Condensed Matter (cond-mat new, recent, search)

includes: Disordered Systems and Neural Networks; Materials Science; Mesoscale and Nanoscale Physics; Other Condensed Matter; Quantum Gases; Soft Condensed Matter; Statistical Mechanics; Strongly Correlated Electrons; Superconductivity

General Relativity and Quantum Cosmology (gr-qc new, recent, search)

High Energy Physics - Experiment (hep-ex new, recent, search)

High Energy Physics - Lattice (hep-lat new, recent, search)

High Energy Physics - Phenomenology (hep-ph new, recent, search)

High Energy Physics - Theory (hep-th new, recent, search)

Mathematical Physics (math-ph new, recent, search)

Nonlinear Sciences (nlin new, recent, search)

includes: Adaptation and Self-Organizing Systems; Cellular Automata and Lattice Gases; Chaotic Dynamics; Exactly Solvable and Integrable Systems; Pattern Formation and Solitons

Nuclear Experiment (nucl-ex new, recent, search)

Nuclear Theory (nucl-th new, recent, search)

Physics (physics new, recent, search)

includes: Accelerator Physics; Applied Physics; Atmospheric and Oceanic Physics; Atomic and Molecular Clusters; Atomic Physics; Biological Physics; Chemical Physics; Classical Physics; Computational Physics; Data Analysis, Statistics and Probability; Fluid Dynamics; General Physics; Geophysics; History and Philosophy of Physics; Instrumentation and Detectors; Medical Physics; Optics; Physics and Society; Physics Education; Plasma Physics; Popular Physics; Space Physics

Quantum Physics (quant-ph new, recent, search)

COVID-19 Quick Links

See COVID-19 SARS-CoV-2 preprints from

- arXiv
- medRxiv and bioRxiv

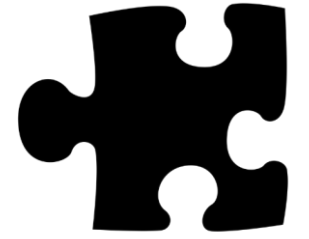
Important: e-prints posted on arXiv are not peer-reviewed by arXiv; they should not be relied upon without context to guide clinical practice or health-related behavior and should not be reported in news media as established information without consulting multiple experts in the field.

Mathematics

<https://arxiv.org/>

5. READING & ORGANIZING RESOURCES

Writing & Reading



- What is the current state-of-the-art in my field?
- Who are the top researchers?
- How does my work fit into the research corpus?



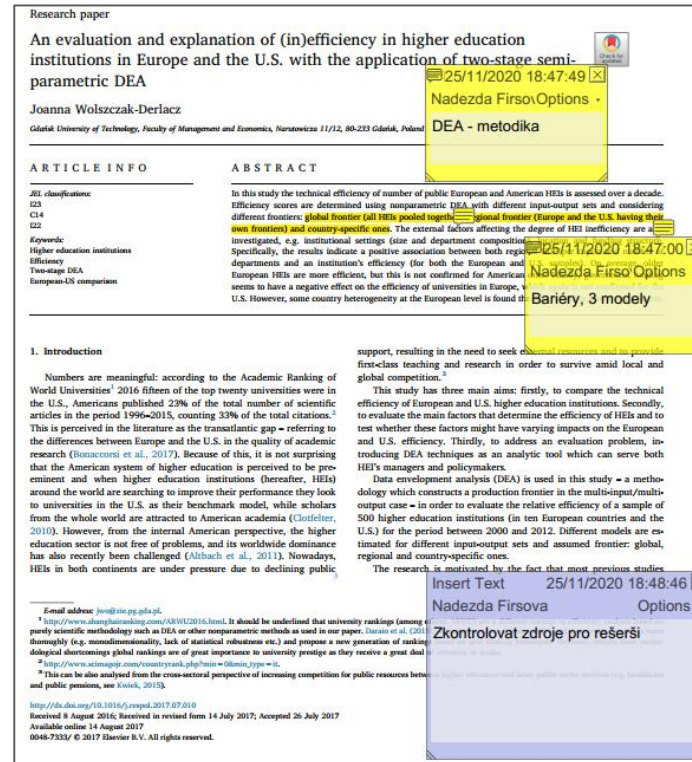
Read

Reading: Smart, Careful, Mindful

- Be smart and picky. Focus on abstract, conclusion, and specific issues (e.g., research design) before reading the whole paper
- Make notes from the very beginning; it will save your time later
- Create your own system to organize materials and thoughts
- Get familiar with writing and citing habits in your field

Managing Resources

- Be systematic: organize your resources and their citations
- Ranking system option for evaluating usefulness
- Notes about the relationship to your work (methodology, contradictory or confirmatory conclusions, and so on)
- Electronic or written notes



Example of electronic notes



Example of written notes

Citation Management Tools

- Download and manage citations
- Create personal library
- Insert tags and notes
- Collaboration
- Generation of reference list
- Integrate with word processing software tools for easy insertion of citations into documents

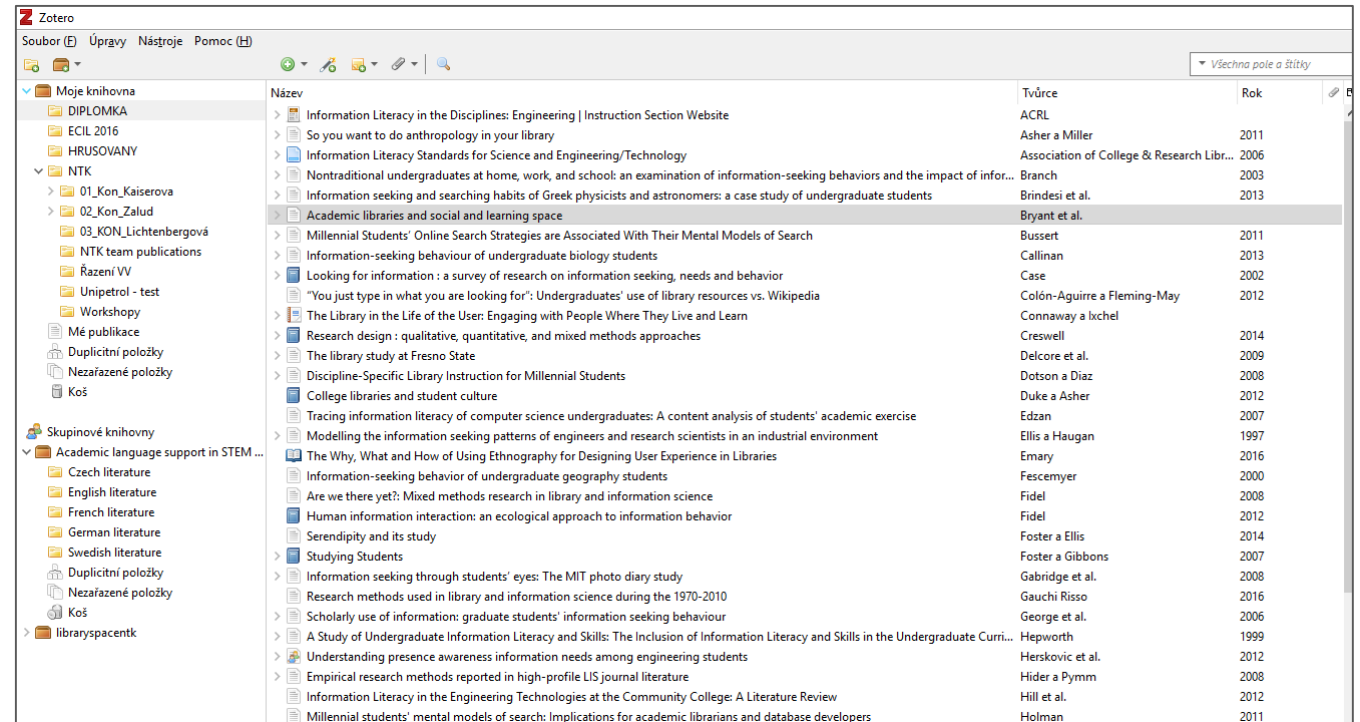
[Zotero](#)

[CitacePRO](#)

[Mendeley](#)

[JabRef](#) (integrated with LaTeX)

[EndNote](#) (subscription for UCT students)



Use them, but don't trust them absolutely!

6. PUBLISHING AND PRESENTING RESEARCH OUTPUTS

How to Find High-quality Journals and Conferences

- Ask your mentor and/or peers
- Use citation and analytical databases to identify reliable journals and conferences: [Web of Science](#), [Scopus](#), [Inspec Analytics](#)
- Try recommender services such as those from [Elsevier JournalFinder](#), [WoS Manuscript Matcher](#)
- Look for conferences specifically intended for doctoral candidates in order to gain experience presenting in English (e.g., [ECRF-ICSA](#), [DOKBAT](#))
- Read tips about [avoiding predatory and questionable conferences](#)

Eaton, S.E. (2018). Avoiding predatory journals and questionable conferences: A resource guide. *University of Calgary*.

<https://files.eric.ed.gov/fulltext/ED579189.pdf>

Palmer, J. C. (2016). Navigating your first academic conference. *Psychological Science Agenda*.

<https://www.apa.org/science/about/psa/2016/10/academic-conference>

Choosing the Right Journal or Conference

- Consider relevance of the conference to your field as well as its intended audience
- Review its quality & reputation (journal metrics, editorial board, conference organizers, mentor recommendations)
- Review the [peer-review process](#) and author services provided
- Investigate discoverability (e.g., can the journal or conference be easily found online)
- [Open Access](#), [Open Data](#)
- Article processing charge (APC) and other costs and benefits of submitting an article or attending the conference
- Learn whether you can submit the same content to multiple journals or conferences at the same time (or not)

Northcentral University Library (2021). *Research Process: Scholarly Publication*.

<https://ncu.libguides.com/researchprocess/scholarlypublication>

Berkeley Library. (n.d.) *Scholarly Publishing*.

<https://www.lib.berkeley.edu/scholarly-communication/publishing>

UNC University Libraries. (2021). *Measure Your Research Impact: Where to Publish*.

<https://guides.lib.unc.edu/measure-impact/publish>

Summary

- Activate **Library links on Google Scholar**
- Always make sure you are logged into the library web for **off-campus access to full-text articles**
- Contact your librarian for materials that are hard-to-find
- Make notes and create your own system to organize materials from the very beginning of a project
- Use citation managers, but don't trust them absolutely!
- Critically consider journals and conferences and be aware of the publishing and conference submission process.

Get Assistance

Schedule a [consultation](#):

- Please don't be shy; [our team](#) includes doctoral students who know the issues you face.
- We also provide consultations about creating a comprehensive search strategy and organizing yourself as you begin a specific writing project.

Useful links:

- [STEMskiller](#) - comprehensive skills set map for early career researchers
- [LaTeX support](#)
- [Bibliometric services](#)
- [Subject guides](#)



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Thank you

Questions?