Library Research for ME481:
Library resources

Jan Sung
Hamilton Library
Science and Technology Reference
Fall 2023
View with Slideshow
(Ctrl + F5)
The Library is here to assist your research
The Library is here to assist your research

OR:

sciref@hawaii.edu
New Pods
Computer Lab

Printing: with campus cash in OneCard
Recharging: online or with $ ($1-20)
Group Study Room
Presentation Practice Room
Zoom Room
Valid UH email required to reserve room. Valid UH/picture ID must match the last name of the person who booked the room.

Check in at the Circulation Desk with your UH ID or Valid Government Issued ID and the room key will be checked out to you.

**Minimum of 2 UH system students will need to be present to use the room.**

Maximum Capacity – Equals the number chairs in a room

Booking Duration – 30 minute increments

Maximum Daily Booking allowed - 3 hours/day

No food allowed. Liquids are allowed in sealed containers.

As a courtesy to others, please be mindful of your time so other groups are not kept waiting.

**Wednesday, January 11, 2023 – Friday, January 13, 2023**
Services:

- Borrowing Materials
- Study Spaces
- Book Purchases
- Requesting documents (ILL)
- Research Consultation
  - Topic Refinement
  - Database Selection
  - Search Design
- Citation Management
- Information Literacy Instruction
Casual searching vs Professional Research

- Information is the foundation of research and innovation
- Incomplete or biased information will lead to poor performance
- As educated knowledge workers - your responsibility to understand the information world and be skilled in using its tools
- Tools are necessary! - Information explosion
- But not all information tools designed to help you do quality research as their primary function:
  - Good searching $\neq$ easy searching
  - Quick searching $\neq$ systematic searching
The Danger of Algorithms

Figure 1.11. Example of Google’s prioritization of its own properties in web search. Source: Inside Google (2010).
Literature Search Process

1. Research topic
2. Search strategy
3. Database selection
4. Query Refinement
5. Analyze results
6. Citations
Synonyms and Alternate Terms

- When searching the literature, you are asking questions of previous generations of researchers all across the world
- **Not all of them will think or speak like you!**
- Get into the mindset of others, come up with other words for the same thing
- Cultures, languages, time periods, disciplines, contexts, abbreviations, common and scientific
- Terms may evolve with your understanding of the topic
Forming a Search: Core Concepts

What safety features do drones need in order to fly high in mountain regions?

What are the core concepts?
What words are important to the search,
and what words are unnecessary or redundant?

What safety features do drones need in order to fly high in mountain regions?

Boolean operators:
Concepts – connect with AND
Safety AND drones AND “high mountain”
Synonyms or alternative terms – connect with OR
Drone or UAV or “Unmanned aerial vehicle”
Putting it all together

(drone OR UAV OR “unmanned aerial vehicle” OR “uncrewed aerial vehicle”) AND (“high altitude” OR “alpine zone”)

Some databases use different operators

Some databases use special words (controlled vocabularies)

Librarians can assist with the details of searching each database
drone AND safety

drone OR safety

(drone NOT safety)

(use with a great caution)

"drone safety"
Drone – UAV – “Unmanned Aerial Vehicle”
"autonomous electric vehicle"; 
About 446 results 
Sort by · Relevance ↓ · Group by · None ↓ · Deduplicate by · Family ↓ · Results / page · 10 ↓

"self-driving vehicle"; 
About 29,622 results 
Sort by · Relevance ↓ · Group by · None ↓ · Deduplicate by · Family ↓ · Results / page · 10 ↓
Be CAREFUL!! *unless you need immediate access or don’t need completeness.
Database Selection

Consider what you need:

- General information (books)
- Journal articles
- Industry standards
- Patents
- Technical Reports

Searching everything at once = searching everything badly (no one stop shop)
Demonstration

Library - Presentation Rooms, Zoom Rooms, Loanable Technology

OneSearch - Book and Locations Filters, ILL, Digitization

ME Research Guide - https://guides.library.manoa.hawaii.edu/mecheng

Standards Database - ASTM Compass

Citation Database - Web of Science

Patent Database - Google Patents
ILL Request Service for UH Manoa Patrons

Login through the UH Web Login Service
Explores Hawaii's coral reefs.
Pacific Whale Foundation.
©2000
Available at UH Mānoa Hamilton Library Main (QH95.8.E95 2000) and other locations
- get it yourself and check it out
- request to check it out - notify next day
- request to make PDF up to 20% of a book
- request to check it out - notify within 15 min
- request to make PDF up to 20% of a book
- Request - notify within 15 min
- Read it in the Hawaiian Reading Rm
How to Get

REQUEST: Physical Item / PDF scan from UHM Print Copy

LOCATIONS

Pickup Institution

- University of Hawaii at Mānoa

Pickup Location

Comment

PDF Scan Request

- Chapter/Article Title

Need more? (e.g. table of contents, index, etc.)

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SEND DIGITIZATION REQUEST
ScienceDirect

ScienceDirect is home to journals. UH Manoa subscribes to several databases in agriculture, medicine, physics, and business.

Search Electronic Resources

Note: Most electronic resources to which the Library subscribes are RESTRICTED to University of Hawaii at Manoa students, faculty, and staff to comply with licensing agreements. Community Cards are not eligible for login to restricted resources.

Login with UH user name

Login through the UH Web Login Service

NOTE: Your UH Username must match the 8-digit UH Number in a current Manoa Library Account. You may activate your 10-digit UH Manoa Library barcode or 8-digit UH Number online [https://manoa.hawaii.edu/library/services/borrow-renew-request/borrowing-privileges-and-access/library-id-registration/]. Find your 8-digit UH Number (XXXX-XXXX) at the top of the screen after logging in to UH ITS User Name Management web page. Please allow 4 days for processing. Or you may print the form and take it to the Circulation Desk at Hamilton or Sinclair Library for immediate service.

ATTENTION: you must have cookies ENABLED in your browser's privacy/security preferences in
Find articles with these terms

(Drone OR UAV) AND safety

Refine by:

- Subscribed journals
- Years
  - 2024 (52)
  - 2023 (2,476)
  - 2022 (2,436)
- Article type
  - Review articles (1,583)
  - Research articles (8,521)
  - Encyclopedia (176)
  - Book chapters (1,460)
Correlation between molecular microbial community and nitrogen cycling on ornithogenic soil affected by tsunami in Japan

Alofumi Hosoda, Mao Kurosaki, Kentaro Kazama, Hirotatsu Murano, Chitoshi Mizota, Yasuaki Nishizawa

https://doi.org/10.1016/j.egg.2022.100114
Correlation between molecular microbial community and nitrogen cycling on ornithogenic soil affected by tsunami in Japan
Hosoda, Akifumi; Kuroasaki, Mao; Kazama, Kentaro; Murano, Hirotsugu; Mizota, Chitoshi; Niizuma, Yasuaki
ISSN: 24059854, 2405-9854; DOI: 10.1016/j.eggg.2022.100114
Ecological Genetics and Genomics Ecological genetics and genomics, 2022, Vol.23, p.100114

How to get it
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Title (Journal, Book, Conference Proceedings, etc.) (required)
Please do not abbreviate unless your citation is abbreviated

Ecological Genetics and Genomics

Item Title (required)

Correlation between molecular microbial community and nitrogen cycling on ornithogen

Item Author

Hosoda, Akifumi

Volume

23

Issue Number or Designation
Web of Science
(formerly known as Science Citation Index SCI)

Gold standard citation database

Highest Cited Journals in the Sciences - source for peer reviewed articles

1980-2023 Coverage
The impact factor (IF) is a measure of the frequency with which the average article in a journal has been cited in a particular year.
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Select your options
Limit your search by adding more search terms here - very useful
ME Research Guide - https://guides.library.manoa.hawaii.edu/mecheng

Databases relevant to mechanical engineering

Listed here are several databases relevant to mechanical engineering research. Curious about other databases? Browse the Scitech Reference Department's complete list of databases used for the sciences and technology.

- API (American Petroleum Institute) Standards
- ASME (American Society of Mechanical Engineers) Digital Collection
- ASTM Standards and Engineering Digital Library
- IEEE/IEEET Electronic Library
- Web of Science

Find articles via OneSearch Manoa

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It takes 1 hour to dry a shirt under the sun. How long does it take to dry 5 shirts under the sun?