

Research Support Tools

(Available at IITR)

There are a variety of ‘Research Support Tools’ available at IITR to support your research. Based on their purpose, these research support tools have been categorized under the following headings.

1. For Literature Searching
2. To Manage your Literature
3. Citation & Reference Management
4. To Write your Research Report correctly
5. To Avoid Plagiarism

1. Tools for Literature Searching

There are a variety of bibliographic databases subscribed by IIT Roorkee to support your research – a few of them are multi-disciplinary and a few are subject-specific.

Multi-disciplinary Databases:

- a. **Scopus** (available at <https://www.scopus.com>)
Scopus is the largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Use this tool to search nearly 39,000 journals and conference proceedings in a single window.
- b. **Web of Science** (available at <http://webofscience.com>)
Search the world’s leading scholarly journals, books, and proceedings in the sciences, social sciences, and arts and humanities and navigate the full citation network. Use this tool to search more than 21,000 high quality journals and conference proceedings in a single window. It includes all the journals indexed in Science Citation Index and Social Science Citation Index.

Subject-specific Databases:

- a. **Compendex** (available at <https://www.engineeringvillage.com>)
Compendex is the broadest and most complete engineering literature database available in the world.

- b. **Inspec** (available at <https://www.engineeringvillage.com>)
Inspec was created by the Institution of Engineering and Technology (IET), and is one of the world's most definitive bibliographic scientific engineering research databases.
- c. **PaperChem** (available at <https://www.engineeringvillage.com>)
A database of abstracted and indexed literature created specifically for research in the Pulp and Paper industry.
- d. **SciFinder** (available at <https://scifinder-n.cas.org>)
SciFinder is a research discovery application that provides integrated access to the world's most comprehensive and authoritative source of references, *substances and reactions in chemistry* and related sciences. **NOTE:** It requires username/password. You can register [HERE](#) with your IITR email id (if faced with any difficulty, you may contact journals@iitr.ac.in).
- e. **MathSciNet** (available at <https://mathscinet.ams.org>)
MathSciNet contains over 3 million items and 2 million direct links to original articles in more than 3,000 journals from over 250 publishers.
- f. **PsycARTICLES** (available at <https://psycnet.apa.org>)
The only electronic article catalog of the superior research published by APA and affiliated journals, contains more than 2,00,000 records.

2. Tools to Manage your Literature

Reference Manager – Mendeley and Zotero

Organizing downloaded research papers and other literature, annotating them while reading, taking notes, tagging, searching and retrieving are day-to-day work a researcher does during literature review. Use of reference manager can be a powerful addition to all such research activities related to literature review. The other powerful use of reference managers (i.e. citation & reference) is explained in the following section.

The most popular reference managers are EndNote, Mendeley and Zotero. **Mendeley** (www.mendeley.com) and **Zotero** (<https://www.zotero.org>) are free Reference Managers; you can use them by creating free accounts at their websites. However, Mendeley is easier to use and is more efficient than Zotero.

To learn more about how Mendeley can help you in your research, watch this [VIDEO](#) (10 min); and for getting started with Mendeley refer to this [PRESENTATION](#). You may also search for tutorials and videos for Mendeley and Zotero.

3. Tools for Citation & Reference Management

Reference Manager – Mendeley, Zotero and EndNote

The most powerful use of reference managers is to automatically cite the sources while writing, to automatically generate the complete bibliography of all the cited sources and to convert the complete write up from one style (e.g. IEEE style) to other (e.g. Nature style). In fact, with the help of reference managers the write up can be converted from any style to more than 8000 citation styles, that too in few seconds.

You can use *Mendeley* (www.mendeley.com) or *Zotero* (<https://www.zotero.org>), both Web version and Desktop version, for free by creating free account on their websites. Moreover, for this purpose, *EndNote* (<https://www.myendnoteweb.com>) Web version is also available. It can manage references and citations very efficiently; however, like Mendeley, it does not provide the functionality to manage literature. You can use EndNote Web version after registering on its website.

To learn more about how Mendeley can help you in your research, watch this [VIDEO](#) (10 min); and for getting started with Mendeley refer to this [PRESENTATION](#). You may also search for tutorials and videos for Mendeley, Zotero and EndNote.

4. Tool to Write your Research Report correctly

Grammarly

Grammarly helps you eliminate errors and find the perfect words to express yourself. You can take help of this tool to improve your English writing – from grammar and spelling to style and tone.

IITR subscribed the Grammarly Premium in the month of January 2020; and, at present, more than 3000 members are using it at IITR. To register and create your Grammarly Premium account, refer to the [USER GUIDE](#).

5. Tool to Avoid Plagiarism

Turnitin

Plagiarism is considered as a form of misconduct in scholarly communications. You, as a researcher, must have heard about it; or you might know what it is? To help you avoid plagiarism in your writing, the world's most widely-used tool – Turnitin – is available at IITR.

Refer to the [USER GUIDE](#) to learn about how to get started.