

Literature Review

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Why Literature Search?

- To make a base for research.
- To gain knowledge in the relevant field
- To know the progress already made in the relevant field (State of the Art)
- To make sure that you are in right path
- To identify the gap and to get the motivation for the study
- To relate your results and publish in relevant journals

Where to Search for Literature?

- International Journals (on-line & off-line)
- Conference Proceedings
- Books
- Internet (be more careful for correctness)
- White papers, in-house publications and documents
- News papers, magazines, etc.,

Steps involved in Literature Review

- Searching for good sources and collecting papers
- Sorting and Prioritising the papers
- First reading of papers and making notes
- Critical Reading and marking the highlights
- Comparative study of noted literature
- Writing the literature review with critical comments

Collection of Information from Literature

- Prepare notes from each paper read
- Read the paper several times and understand the concept clearly
- Note the major points from this paper in the words of authors
- Add your critics to the paper
- Prepare a ready reckoner for the papers referred
- Literature review is a continues process and will continue even after the thesis is submitted to note the developments made in the relevant field

Collection of Information from Literature

- Prepare a ready reckoner in a suitable format as shown below
- This can be recorded in a A3 paper to include all the relevant information
- This reckoner will be of great help throughout the research studies and even afterwards

Authors & Title of Paper	Type of Study	Tools Used	Methodology used	Major Results	Contributions
Lin et al	Analytical and Numerical	Fourier Transforms and Finite Differences	Governing equations solved in both the methods	Identification of limitation of both methods	Comparative study of both methods
Shaw and Shaw	Expt.	Laser light scattering technique	Measurement of dropletsizes in spray and characterisation	Dropsizes distribution under varying conditions	Linking of flow parameters to spray characteristics

How to Write a Good Literature Review?

- Do not write annotated review:

Ex: (poor literature review)

Yehia A Eldrainy *et.al* [3] worked on multiple inlet swirler for gas turbine combustors. This new swirler introduces air tangentially

Masato Mikami *et.al* [4] studied combustion of partially premixed spray jets. Burning behaviors of partially premixed sprays

- Write a synthesis of the literature

The comparative study of relevant literature is a must instead of recording of several statements from literature.

How to Write a Good Literature Review?

- Do not just record the observations made in the paper
- Instead add your comments and critics
- Literature review must be of great help in identifying the procedure, tools and methodology used etc.. hence, the literature review spreads across the entire thesis/paper

Search Engines for Research Papers?

- <http://citeseerx.ist.psu.edu/>
- <http://scholar.google.co.in/>
- [**http://papers.sae.org/Engines**](http://papers.sae.org/Engines)
- <http://www.getcited.org/>
- <http://academic.research.microsoft.com/>
- <http://www.bioline.org.br/>
- <http://www.doaj.org/>
- <http://www.plosone.org/>
- <http://www.bioone.org/>
- <http://iopscience.iop.org/1468-6996/>
- <http://iopscience.iop.org/1367-2630>
- <http://www.sciencedirect.com/>
- <http://www.mendeley.com/>

<http://www.emergingedtech.com/>