

LITERATURE SEARCH

Goal: For now our goal is that you find the topic and specific model for your main project. (Only later your goal will also be to become an expert, i.e. to know related previous work.)

Outline:

Go to our PHYS 338 webpage

http://www.eg.bucknell.edu/~kvollmay/phys338_s2017/

and scroll down to "Literature Search Tools". I will guide you through the provided links and you will get to practice them with topics which sparked your interest.

1. Links on PHYS 338 webpage

I will give you a quick guide through the links of the PHYS 338 webpage.

- Web of Science and Google Scholar are for finding papers. This is your main tool kit.
- Library & IT is the top page, from which you can get to all other pages. Here you find also Interlibrary Loan (ILL) which you need for getting papers or books, to which Bucknell does not have access to.
- Databases includes Web of Science and other Databases for humanities and social science papers. Use this link when you try to use Web of Science from outside of Bucknell.
- Book: BU Library Catalog (World Cat). This is for finding books at Bucknell and also at other libraries.
- The physics resources are for some specific journals which you most likely will need and also the preprint server arXiv.

2. Web of Science

Click on the Web of Science link. (In case you are using Web of Science while not being directly on the Bucknell internet, you can get into Web of Science by using the Databases link and then Web of Science, which will ask you for your Bucknell login information.) Below a list I will guide you through:

- click on top left orange "Search"
- Add Another Field; Topic or other setting
- Search by topic (e.g. Ising Model or any other topic)
- refine search (e.g. ising ferromagnet and simulation)
- click on title → Cited References (Past)
- Times Cited (Future) (you might further down in results to get nonzero citations)
- View Related Records
- get paper via Full Text from Publisher or via Links

- to get paper via ILL, if Bucknell has no access to it, use Links then Find articles and then GET IT. (add to the ising ferromagnet and simulation search also Ozkan as author and click on the result Phase transitions, volume 58, pages 94-105, 2016)
- take notes in extra file to keep the information about good papers and also which keywords worked and which not
- search by author if you found well written papers by specific author
- search by year if you look for specific paper or if you e.g. want to search for more recent papers only.