

# Egleston Scholars – Fall 2014

## Science and Engineering Library Homepage

[library.columbia.edu/locations/science-engineering.html](http://library.columbia.edu/locations/science-engineering.html)

## Finding Articles

**Article databases and indexes** – full text content, citations and abstracts

- Engineering Village
- Web of Science
- CLIO

**If we don't own it** – ILL (Interlibrary Loan) or Borrow Direct

### Search tips: unknown item searching

- Brainstorm some search terms - start broadly and gradually refine results
  - Look at controlled vocabularies or tagged keywords in other articles
  - Start off searching in topic, keyword and title fields
- Use AND, OR and NOT to combine and build more powerful searches
  - Usually can be used in search boxes, or as drop down menu options
- Use “quotation marks” for exact phrases
- Use \* to find plurals and variants (\*celeration will find acceleration and deceleration; child\* will find children, childhood). Very useful for author searches when used w/ first initial.
- Citation chasing – use the bibliographies of useful articles you find to locate other articles and authors to search
- Cited by – most databases will now give you information on articles that cite the article you are looking at. This is very useful not only in finding other relevant research, but also in gauging how influential that work has been in the field.

## Finding Patents

### Patents, Standards, and Reports

[library.columbia.edu/subject-guides/engineering/patents.html](http://library.columbia.edu/subject-guides/engineering/patents.html)

### Google Patent Search

[www.google.com/patents?hl=en](http://www.google.com/patents?hl=en)

### Espacenet

[worldwide.espacenet.com/advancedSearch?locale=en\\_EP/](http://worldwide.espacenet.com/advancedSearch?locale=en_EP/)

### Derwent Innovations Index

[www.columbia.edu/cgi-bin/cul/resolve?AUL4112](http://www.columbia.edu/cgi-bin/cul/resolve?AUL4112)



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## Search tips: basic strategy

- Step 1: Keyword search in Patent Index
- Step 2: Identify important classifications
- Step 3: Search granted patents and/or patent applications
- Step 4: Review documents
- Step 5: Check cited and citing references
- Step 6: Repeat from Step 3.

## Citation Management

### Why use citation management software?

- Organizes your research (citations, PDFs, screenshots, images, etc.)
- Saves time! “Cite While You Write” feature with MS Word
  - Formats in-text citations for papers
  - Creates bibliographies for papers

### Software

[library.columbia.edu/locations/dsc/software\\_biblio.html](http://library.columbia.edu/locations/dsc/software_biblio.html)

## Science & Engineering Research at Columbia

### SEAS Department Websites

[engineering.columbia.edu/departments](http://engineering.columbia.edu/departments)

### Science @ Columbia tumblr.

[columbiascience.tumblr.com](http://columbiascience.tumblr.com)

## Questions?

### Contact Us

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