

# Annotated Bibliography

EA30 – Spring 2017

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## 1 Abstract

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## 2 Instructions

Please complete the annotated bibliography by the 17th of April.

## 2.1 Searching for Academic Sources

There are numerous electronic sources to evaluate and obtain academic sources of information. Usually, we consider peer reviewed articles to have the highest quality scholarship. As a rule of thumb, this is a good start, but there is also a great deal of variation between sources, even journal titles can vary in quality. Thus, it's best to evaluate a range of sources and appreciate the subtle differences in quality and prestige.

First, you should search CUC databases using key words, such as Pb and lead. I admit the lead is tricky, because it's not a useful term due to a double meaning. I suggest heavy metals or trace metals with the other key words, i.e. fate and transport, toxicity, etc, depending on the topic you selected.

Below are links to some useful databases:

- Web of Science
- JStore
- Google Scholar

## 2.2 Writing an Annotated Bibliography

After adding your citation to the Pb\_literature.bib, using the BibTeX format, cite your reference using the syntax below. Then, write a concise annotation that summarizes the central theme and scope of the book or article. Include one or more sentences that (a) evaluate the authority or background of the author, (b) comment on the intended audience, (c) compare or contrast this work with another you have cited, or (d) explain how this work illuminates your bibliography topic.

## 2.3 Implementing in L<sup>A</sup>T<sub>E</sub>X

L<sup>A</sup>T<sub>E</sub>X is a software program used for desktop publishing. With an eye for detail, the program was developed to give the author a great deal of control. In contrast, Microsoft Word is designed to have lots of options, but these seem to get in the way of controlling the outcome.

L<sup>A</sup>T<sub>E</sub>X is an open source program and relies on specific formatting commands that begin with a backslash. For example to start a new section heading, we use `\section{section name}` and `\subsection{subsection name}` to create a subsection heading.

Below might be an example of what we are trying to accomplish using our Rstudio resources. The L<sup>A</sup>T<sub>E</sub>X command for the citation is `\bibentry{key}`, where key identifies the citation based on the BibTeX citation entry as shown below.

However, we also need to add the citation to the \*.bib file, in this case the file is called "Pb.literature.bib". Open the file. You can see each entry within the curly brackets. Also, it starts with the definition of the entry, e.g. article, book,

conference proceedings. We can easily add the citation using the databases cited above. All you need to do is search for the citation manager or citation tool and select a citation format “bibtex”. Copy and paste the bibtex format (try to put it in the correct location, i.e. alphabetic order). Note the “key” is the first word after the citation definition.

## 2.4 Annotated Example

. Summarizes important information about Pb. This paper reviews work that span x years starting with early ...and noting recent information that includes .... ? first describe xyz and how these issues have been largely ....

To help the readers, you might create subsection and even subsubsections, using `\subsection{subsection name}` and `\subsubsection{subsubsection name}`.

## 3 Industrial Sources (Khalil)

## 4 Use in Industry (except gasoline) (Caudia)

## 5 “Ethyl” gas and airplane fuels (Viraj)

## 6 Atmospheric transport and deposition

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## 7 Aquatic transport (Olivia)

## 8 Sinks (Katie)

## 9 Food web dynamics (Mireya)

Rick D. Cardwell, David K. Deforest, Kevin V. Brix, and William J. Adams. Do Cd, Cu, Ni, Pb, and Zn biomagnify in aquatic ecosystems? *Reviews of Environmental Contamination and Toxicology*, 226:101–122, 2013. ISSN 0179-5953. 10.1007/978-1-4614-6898-1<sub>4</sub>.*INSERTTEXT*

David E. Alexander. Bioaccumulation, bioconcentration, biomagnification. In *Environmental Geology*, Encyclopedia of Earth Science, pages 43–44. Springer Netherlands, 1999. ISBN 978-0-412-74050-3 978-1-4020-4494-6. URL [http://link.springer.com/referenceworkentry/10.1007/1-4020-4494-1\\_31](http://link.springer.com/referenceworkentry/10.1007/1-4020-4494-1_31). DOI:

10.1007/1-4020-4494-1\_31. Published in the Encyclopedia of Earth Science, this paper provides essential definitions for bioaccumulation, bioconcentration, and biomagnification. The paper is written for a scientific journal and employs a lot of biological terminology that may be inaccessible to some. The paper explains that heavy metals, such as lead, tend to bioaccumulate and then biomagnify because they pass through the lipid bilayer and cannot be easily dispelled by the body.

**10 Toxicity (non-human) (Kelli)**

**11 Human health effects (physiological, toxicity) (Thea)**

**12 Public health effects (crime, IQ, etc) (Marissa)**