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# Chemistry Research Guide

Revised 1-13-09

## Obtaining the full text

### ILLiad – Interlibrary Loan

ILLiad is a system for students, faculty, & staff to borrow books, articles, and other resources from libraries across the country if the full text is not available at SUU.

On the SUU Library Web, <http://www.li.suu.edu>, click on **ILLiad – InterLibrary Loan**.

If you haven't used ILLiad before, click on **First Time Users**.

Read the information then scroll to the bottom.

Click on **First Time Users Click Here**.

Enter the requested information then click on **Submit Information**.

Enter your **Username** and **Password** then click on **logon to ILLiad**.

Click on **Request an Article** or on **Request a Book**.

Enter the bibliographic information for the item you want. Copy and paste if possible.

Click on **Submit Request**.

## SciFinder Scholar

SciFinder Scholar is a research discovery tool that allows you to explore the CAS databases containing literature from many scientific disciplines including biomedical research, chemistry, engineering, materials science, agricultural science, and more!

### Restrictions:

Must be a student or faculty member at Southern Utah University.

Must be accessed from an SUU IP address.

Allows only one user from SUU at a time.

May only be used for your own academic research.

May not be used for commercial research.

May store up to 5,000 records, but they must be deleted when your research is complete.

Violation by any user could result in termination of the license for all users.

Contact the University's Key Contact with any questions:

Randy Christensen

435-586-7946

christensen@suu.edu

Library 306A

### Registration:

Before using SciFinder Scholar, you need to create your own SciFinder username and password.

Using a computer with an SUU IP address, go to this URL:

<https://scifinder.cas.org/registration/index.html?corpKey=CC4B37B3-86F3-50AB-4DDD-BF6CF919236C>

*Note: Unless you are an exceptional typist, I recommend that you copy and paste. If needed, Randy Christensen can send you an electronic copy.*

Enter your contact information.

The e-mail address you provide must have SUU's e-mail domain. Examples:

**yourusername@suuemail.net**

**yourusername@suu.edu**

Your username must be unique and contain 5-15 characters. It can contain only letters or a combination of letters, numbers and these special characters: - (dash), \_ (underscore), . (period), @ (at symbol)

Your password must contain 7-15 characters and **include at least three of the following**:

Letters

Mixed upper- and lowercase letters

Numbers

Non-alphanumeric characters such as @, #, %, &, \*

Select a security question from the drop-down list and provide the answer.

Click **Register**.

After you submit the form, CAS sends you an e-mail message with instructions for completing the registration process. This institution check is the reason for needing an e-mail with SUU's e-mail domain.

### Accessing SciFinder Scholar

After you are registered, login to SciFinder Scholar from this URL:

<https://scifinder.cas.org>

### Searching SciFinder Scholar

"Accept" the license agreement and press "Continue" to go past the announcement page.

At **Research Topic**, type your keyword(s). Example: **geothermal energy and Utah**

Place a check on the desired results, then select **Get References**.

Click on **Full Text**.

*Note: If nothing appear, check to see if the Popup Blocker needs to be turned off.*

*Most results will not have the Full Text available. Use **ILLiad – Interlibrary Loan** to obtain.*

## Journals

### Academic Search Premier

Is designed for college and university topics. The database contains full text and abstracts for journals in many disciplines. Choices may be limited to "full text" and "peer reviewed" journals.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.

At **Basic Research Databases**, click on **Academic Search Premier**.

Place a check on **Full Text**.

Place a check on **Scholarly (Peer Reviewed) Journals**.

In the entry box, type your keyword(s). Example: **malate synthase**

Boolean connectors may also be used. Example: **malate synthase and fermentation**

Click on **Search**.

Click on the link indicating full text.

### Citation Generator

Do a search in Academic Search Premier.

Click on the link to the article. It should display.

Hover over the icons in the upper-right corner. The fourth one over should say **Cite this article**.

Copy the citation for your desired format.

Paste the citation into your bibliography.

*Warning: The citations are not perfect. Double-check the details using the appropriate style manual.*

### Full Text Journal Finder

Shows journals located in databases. Some are full text, depending on the journal.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Full Text Journal Finder**.

At **Search Journals by Subject**, select **Sciences**.

Click **Search**.

Scroll to **Chemistry** or a science of your choice.

Click on a subdivision. Example: **Biochemistry**

Under a journal title, example: **ACS chemical biology**, click on the link to the database.

Enter your search word(s). Example: **angiotensin**

Click **Search**.

## ACS Publications

Contains journals and magazines from the American Chemical Society. Has full text.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.

At **Databases by Subject**, click on **Physical Science & Technology**.

Click on **ACS Publications**.

Type your keyword(s) in the desired field. Example: **enzymatic hydrogen** in the **Title** field.

Press **Enter** or click **Search**.

Click on one of the full text formats.

## Scirus

Searches over 450 million science-specific Web pages. Has citations and abstracts only.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.

At **Databases by Subject**, click on **Physical Science & Technology**.

Scroll to and click on **Scirus**.

Type your keyword(s) now or click on Advanced search then enter them. Example: **elemental speciation**

Click **Search**.

Place a check on the desired entries. Click on **Email, Save or Export checked results**.

Order the full text through ILLiad.

## DOAJ – Directory of Open Access Journals

Contains hundreds of free, online journals organized by topic. Has full text.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.

At **Databases by Subject**, click on **Physical Science & Technology**.

Click on **DOAJ – Directory of Open Access Journals**.

Type your keyword(s) and select the field if desired. Example: **vapor pressure** in the **Key words** field.

Click **Search articles**.

Click **Full text**.

## Sage Journals Online

Access to 485 Sage scholarly journals in various subject areas. Has full text.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.

At **Databases by Subject**, click on **Physical Science & Technology**.

Click on **Sage Journals Online**.

Type your keyword(s) or click on Advanced Search then type them. Example: **emotional disorders and chemi\***

*Notice the use of truncation in the search example above. Chemi\* will find chemical, chemistry, etc.*

Click **Full Text (PDF)**.

## HighWire

Hosts a large repository of free, peer-reviewed content including Medline. Has full text.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.

At **Databases by Subject**, click on **Physical Science & Technology**.

Click on **HighWire**.

At **Articles**, select **All (including PubMed)**.

Type your keyword(s). Example: **haloferax**

Click **Search**.

At the desired article, click on **Full Text** or **PDF**.

## JSTOR

Provides back issues of academic journals. Has full text.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.  
At **Databases by Subject**, click on **Physical Science & Technology**.  
Click on **JSTOR**.  
Click on **Search**.  
Type your keyword(s). Example: **organometallic compounds**  
Click on the **Search arrow**.  
Click on the title of the desired article.  
Click on the arrows at the side of the article to go to the next or previous page.

### **Annual Reviews**

Critically reviews the most significant primary research literature for 29 focused disciplines within the biological, medical, physical, and social sciences. Has full text.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.  
At **Databases by Subject**, click on **Physical Science & Technology**.  
Click on **Annual Reviews**.  
Type your keyword(s). Example: **extremophiles**  
Click on **AR Search**.  
To see, click on the title link then click on **Full Text** or **PDF**.

### **CRC Handbook of Chemistry and Physics**

Contain basic constants, units, conversion factors, symbols, terminology, properties of elements and compounds, etc.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Articles**.  
At **Databases by Subject**, click on **Physical Science & Technology**.  
Click on **CRC Handbook of Chemistry and Physics**.  
At **Text Search**, type your keyword(s). Example: **zirconium**  
Click on the desired link.

Another approach is to browse through the **Table of Contents**.  
In the left menu, click on the **Table of Contents** tab.  
Click on the plus sign beside the desired section.

Note: It is also available as a book at the SUU Library. The call number is: **Reference QD 199 .H236**

## **Books**

### **Reference Books (First floor, Reference book shelves.)**

Dictionaries and encyclopedias provide background information on your topic. Thesauri can be used to find subject headings and synonyms for your topic:

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Books**.  
Click on **SUU Library Catalog**.  
Login or click on **Search the Catalog** to enter as a guest.  
At **Location**, scroll down to and select **Reference**.  
At **words or phrase**, type **chemistry** (or another keyword of your choice).  
Click **Search**.

### **Books by Subject**

Shows a list of subjects, subdivisions, see and see also references.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Books**.  
Click on **SUU Library Catalog**.  
Login or click on **Search the Catalog** to enter as a guest.  
At the right, under **Catalog Searches**, click on **Browsing**.  
Type keyword(s), example **organic chemistry**, then click on **subject**.

Click on a desired subject or click on **Next** to see the next screen.  
Write the call number of the book, then go find it.

### **Utah's Catalog**

Searches for books in all of Utah's academic libraries.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Books**.

Click on **Utah's Catalog**.

Select the desired libraries.

Type your keyword(s) in the desired field. Example: **neural receptors** in the **Keyword** field.

Click **Start Search**.

Scroll down through the various libraries.

Request the books through **ILLiad** or check them out at the owning Utah library using reciprocal borrowing.

### **WorldCat**

Catalog of over a billion books and other materials in libraries world-wide.

On the SUU Library Web, <http://www.li.suu.edu>, click on **Find Books**.

Click on **WorldCat**.

Type your keyword(s) in the desired field.

Example: **Aspinall** in the **Author** field and **polysaccharides** in the **Title** field.

Click **Search**.

Click on **Libraries worldwide that own item**.

Request the books through **ILLiad**.

You can also click on **Cite This Item** to create an entry for your bibliography.