

Your gateway to information in corrosion sciences and metals.

Accessing the Databases: Go to https://library.pnl.gov/databases.asp?alpha=C&resource_type_id and select *Cambridge Scientific Abstracts (CSA)*.

Select the database(s) of interest. The following cover corrosion, materials, metals and alloys:

- Corrosion Abstracts
- METADEX

For Searching Information, go to the CSA Illumina Quick Reference Card:

<http://oh1.csa.com/support/QRC.pdf>

Quick Search Tips

- Use * for truncation. **Example: metall*** will find metallic, metallurgy, metallographic, etc.
- Use * for finding multi-characters. **Example: alumin*um** will find aluminum and aluminium.
- Use ? for finding single characters. **Example: fib??** finds fiber or fibre.
Vendor recommendation: Avoid using truncation when searching authors' first names; instead, use the Browseable Index feature found under the Search Tools tab.
- Duplicate records are automatically removed when using more than one database, although it is possible to view duplicates if desired.
- Note that the date range defaults to 2000-Current.

Advanced Search Tips

- Adjust search field options by using the drop-down menu arrows, as necessary. **Example:** Change the field to **Keyword** and type **corros*** in the first box and **crack*** in the second box. On the next line, change the field to **Author** and type **Bruemmer** in the first box and **Vetrano** in the second box. This search will look for records with the terms **corros*** or **crack*** or both as keywords and **Bruemmer** or **Vetrano** or both as authors.
- A Date Range option also allows you to search for records between specific years.
- Click the Edit Search link to revise your search.

Find full text: In many cases, you can link to the full-text of articles using a program called SFX:

1. From the search results screen, click the  button. If the Hanford Technical Library subscribes to the item electronically, you will be directed to the publication. For items not available online, a menu of services will be presented. **NOTE:** You will need to temporarily disable any pop-up blockers as they will block the SFX pop-up menus. More information about this service is located at: http://sfx.pnl.gov:9003/sfx_local/htl_help.html.

Research Tools

Alloy Classification Codes in METADEX: METADEX provides specialized fields and codes for Alloys. In the Advanced Search, select the appropriate field code:

- **MC:** Use this code when searching for alloys either by name or code: **Example: MC=cubro** or **MC=bronzes**.
- **ML:** Use this code for specific manufacturers' designations or trade names of alloys or alloy compositions
Example: INCONEL 718 or **90Cu-10Zn**. A list of codes and materials can be found at:
<http://md2.csa.com/factsheets/supplements/alloys.php>

Browseable Indexes: Both databases have indexes to aid in search precision: Author Index, Journal Name Index and Publication Type Index. METADEX has one additional index: Source Index.

To access the Indexes, click the **Search Tools** tab and then the **Indexes** tab.

1. Select the desired index from the drop-down menu. **Note:** Only one index can be searched at a time.
2. Type the desired term or partial term in the **Search the Index** box, and click **Go**. **Example:** Select the Author Index for METADEX. Type **khaleel** into the search box and click **Go**. An alphabetical listing will appear.
3. Click the check box(es) of the desired terms from the list, and click the **Search** button on the left of the screen.

Thesaurus Search: The *Metallurgical Thesaurus* is available to enhance search results. In addition to the English version, there are beta versions in French and Spanish.

To access the Indexes, click the **Search Tools** tab and then the **Thesaurus** tab.

1. Select the desired thesaurus from the drop-down menu.
2. In the **Browse Thesaurus for:** box, type the search term or phrase.
3. Select the desired display option:
 - **Alphabetical Index:** Displays a list of main terms with no indication of relationships. Clicking on a term or phrase will show the broader and narrower terms.
 - **Hierarchy:** Displays all terms that have relationships with the found item (e.g., broader and narrower terms) plus any explanatory notes.
 - **Rotated Index:** Displays all terms that contain the found single word, plus related terms.
4. Click the **Go** button.
5. From the results presented, click the check box(es) of the desired term(s).
6. Select the correct operator (**AND**, **OR**) or the Explode option and click the **Search** button on the left of the screen.

Alerts: Setting up an alert lets you receive references to a specific topic directly to your email account.

From the **Quick Search** or **Advanced Search** screen, click the **Search History** link located at the top right of the screen. The **Search History** screen lists all your searches from your current session.

1. Find the search for which you want to create an alert and click the **Save as Alert** link. You will be prompted to open your personal profile.
2. If you have not yet set up an account with CSA, click the **New User? Create a personal profile** link. You will be prompted for your email and a personal password.
3. After you log in, your selected search will be displayed on the Alerts screen.
4. Set up preferences for:
 - **Limits:** You can limit to Journal Articles Only, and/or English Only.
 - **Databases:** The databases you originally selected will be listed. You may keep those selections or deselect ones you would like to remove.
 - **Comments:** List search strategy, project name or any other notes that will help describe the search to you.
5. Click the **Save Alert** button towards the bottom of the screen to activate the alert. Up to 250 records will be sent to you per alert each week.
6. Any additional search alerts you have will be listed at the bottom of the screen
7. From this screen, you can **Renew**, **Edit** or **Delete** your search or **Run the Search**.

To view existing alerts, click the **Alerts** link in the upper right of the screen. Your latest search will be displayed, and below that, your alerts. You can Renew, Edit or Delete your search or to Run the Search from this screen as well. Alerts will expire after six months if you do not renew or delete them.

Search History

From the **Quick Search** or **Advanced Search** screen, click the **Search History** link located at the top right of the screen.

1. Combine current search strategies by typing the set numbers and operators in the **Combine Search** box.
Example: #4 AND #5. Other operators include **OR** to broaden a search, or **NOT** to exclude a concept.
Example: #1 OR #3 NOT alloy*.

You can also limit by Date Range, Journal Articles Only or English Only from this screen.

Saved Searches: You may save frequently run searches to search at a later time.

The **Search History** screen lists all your searches from your current session.

1. From the **Search History** screen, locate the searches to be saved. Click the **Save** link to the right of the search.
2. To view saved searches, click the **Saved Searches** link from the **Search History** screen.
3. From this screen, you can **Renew**, **Edit** or **Delete** your search or to **Run the Search**.

CSA Hot Topics:

CSA Hot Topics provides comprehensive information on current issues with a subject overview, key citations with abstracts, and links to web sites. Over 50 hot topics are available to view. Click the **New Hot Topic...** link at the top of the page and then click the **Hot Topics** tab.

Broad subject classifications include Arts & Humanities, Biomedical, Environmental, Social Sciences and Technology. Examples of previous hot topics of interest to metals and corrosion include: *Nanomaterials: It's a Small, Small World*; *Solid Oxide Fuel Cells*, and *Titanium*.