

# SearchPlus@LANL: Engineering Index® (A Brief Guide)1884+

<http://search.lanl.gov/ssplus/jsp/AdvancedSearch.jsp?collection=eix>

Updated weekly

**Engineering Index**, the world's most comprehensive interdisciplinary engineering database, contains over four million abstracts. Each year, over 220,000 new abstracts are added from almost 4,500 international journals, conference proceedings, books, technical reports, and dissertations. Coverage spans over 175 disciplines and major specialties within engineering. Engineering Index corresponds to the print publication by the same name with coverage back to 1884. Online coverage also begins in 1884 and is updated weekly.

## Selected Indexes

Click on the **Examples** above the search boxes or **Help index** in the left column for more details and examples about searching.

<i>Index name</i>	<i>Description</i>	<i>Example</i>
<b>Author</b>	Enter the last name followed by a space (no comma) and use a space following each initial or full first name.	hughes t hughes thomas
<b>Title/Subject/ Abstract</b>	Words from title, abstract, or subject keywords. Words separated by spaces are <u>searched as a phrase</u> .	spread spectrum
<b>Source</b>	Journals, conference proceedings, books, etc. where an article or paper was published. <u>Searched as a phrase</u>	combustion science
<b>Title</b>	Title of the <i>article</i> , any words. Words separated by spaces are <u>searched as a phrase</u> .	supply chain
<b>Journal, Exact</b>	Exact journal title. This field is particularly useful for one-word journal titles.	engineer
<b>Conference</b>	Search by words in a conference name. The year or place a conference was held can also be searched.	antec <and>1998
<b>Institution</b>	Institutional affiliation of first author or sponsoring organization.	stanford agilent
<b>Subject</b>	Subject categories assigned to articles.	seismic behavior
<b>All fields</b>	Search all the fields of the database. Use when you want the broadest search possible. <u>Searched as a phrase</u> .	polymer
<b>Dates from</b>	Select beginning and ending publication dates to search from the pulldown menus. The default is 1999 - present	1974 to Present
<b>Language</b>	Language of the article. Select a language from pulldown list.	French
<b>Treatment</b>	The document type or publication type of the article.	Review

## Phrase searching

Phrase searching is the default when more than one word is entered in a search box. Truncation will be applied. Or, you can enclose a phrase in quotes for an exact search.

*Examples:*

**knowledge management** retrieves those words together, in that order

**laser ablation** retrieves phrase laser(s) ablat(-ion,-ed,-ing)

**"laser ablation"** in quotes retrieves the exact phrase

## Punctuation and special characters

- Special characters (such as apostrophes, brackets, parentheses, pluses, minuses) are ignored. Use a space in place of these characters. For words containing umlauts, search without the umlaut as well as substituting the letter e for the umlaut, for example, Muller and Mueller.
- Hyphens and periods are treated as spaces.

## Author searching (For best results, use the *Author lookup list*)

- Click on the **Author lookup list** above the search boxes to select author names and name variations.
- To enter author names directly into the search box:
  - To search on author initials, follow the last name with a space (no comma) and use a space or a period following each initial.
  - To search on first names, follow the last name with a space (no comma) and then the first name.
  - To search author names containing hyphens or apostrophes, search with punctuation or substitute a space instead.

### Examples:

**mitchell** retrieves all authors with the last name Mitchell

**mitchell j.** retrieves all authors with the last name Mitchell and with the single or first initial J

**mitchell j.c. or mitchell j c** retrieves all authors with the last name Mitchell and with the initials J.C..

**mitchell john** retrieves all authors with the last name Mitchell and with the first name John

**mitchell j <or> mitchell j c <or> mitchell john <or> mitchell john c** retrieves all variations of this author

## Truncation

- Words of at least 4 characters are automatically "stemmed".
- For an exact search, use double quotation marks.
- The **asterisk (\*)** is the truncation symbol or wild card. Use to denote no characters, or one or more additional characters beyond what was typed. At least two characters must precede the asterisk.

### Examples:

**microwaves** retrieves the stem microwav (including microwave, microwaves, microwaving, microwaved, but not adjectives such as microwavable)

**"microwaves"** using quotations retrieves the exact word

**microwa\*** retrieves everything beginning with microwa

**heat pump** retrieves phrase heat(-s, -ed, -ing) pump(-s, -ed, -ing)

**"heat pumping"** in quotes retrieves the exact phrase

## Operators (Boolean, adjacency/proximity, order)

Terms entered in different search fields are combined with **AND**. Boolean operators can be used within a search field. Enclose operators in angle brackets: < >. Operators are searched in the order they are entered (left to right) unless parentheses are used. Placing a comma between words retrieves papers with occurrences of those words, ex **vaporization, gasification, volatization**. Results are ranked and papers containing all terms are listed first.

<b>AND</b>	requires that both terms be present	<b>membrane &lt;and&gt; catalyst</b>
<b>OR</b>	finds records containing either term	<b>chromium &lt;or&gt; lead</b>
<b>NOT</b>	excludes records containing a term	<b>fuel cell &lt;not&gt; membrane</b>
<b>NEAR/n</b>	finds words in order with intervening words	<b>fingerprint &lt;near/3&gt; matching</b>
<b>ORDER</b>	when word order is important, use directly before <near/n>	<b>fingerprint &lt;order&gt;&lt;near/3&gt;matching</b>
<b>Parentheses</b>	ensure that operations are performed in the correct order	<b>toxic* &lt;and&gt; (chromium &lt;or&gt; lead)</b>

## Marking, printing, and downloading results

**Marking citations:** Mark desired items using the check boxes. To view, select **"Marked records"** in the left frame.

**Printing citations:** To print, **"Choose level of detail"** and the desired output format to **"View in browser"**. Click **"Submit"** and then use the print feature of your browser.

**Mailing citations:** To e-mail results, **"Choose level of detail"** and the desired output format to **"Receive in email"**. Enter your **STANFORD** email account and click **"Submit"**.

**Downloading citations:** To download marked citations, **"Choose level of detail"** and the desired output format to **"Receive in email"** or **"View in browser"**. Click on **"Submit"**. If viewed in browser, then use the "Save as..." function of your browser to save records as displayed.

## Weekly alerting service

Saved search strategies can be run against the weekly update to Engineering Index. Results are emailed. To create an alert, click **Save as alert/search** from the search results screen.