Chemical Engineering & Biotechnology Abstracts

Dialog®

Description

The database covers all aspects chemical engineering, biological engineering, and related fields. Sources are international scientific and user-related journals, conference proceedings, doctoral theses, and German research reports. CEABA aims to deliver chemical or process engineers, chemists, biotechnologists, and industrial scientists insights to the literature of process and bioprocess engineering, chemical engineering and biotechnology.

Since WTI Frankfurt eG took over the database in 2011 the number of abstracts added to the database has increased from around 9000 per year to almost 70000 in 2014. Since 2007 the "Thesaurus Technik and Management" of WTI Frankfurt is used for indexing the documents in CEABA. The majority of records have English abstracts; all records have English-language indexing.

Subject Coverage

- process engineering: unit operation, separation processes, loss prevention
- process systems engineering: process design, development and control
- industrial process plants: plant design, equipment, safety, retrofitting, management
- transport phenomena: fluid dynamics, heat transfer, mass transfer
- safety engineering: plant safety, occupational health and safety
- chemical reaction engineering
- mechanical process engineering
- thermal process engineering
- theoretical chemical engineering
- chemistry: electrochemistry, analytical chemistry, petrochemistry, green chemistry
- thermodynamics
- substance data and material data
- corrosion engineering
- measurement and testing technology, sensors bioprocess engineering
- biomedical engineering
- cellular engineering
- genetic engineering
- biological systems engineering
- biomimetics
- food engineering
- pharmaceutical engineering
- materials science: metals, composites, ceramics, polymers
- environmental engineering: wastewater, waste management, water supply, air pollution, soil pollution, remediation
- nanotechnology
- energy: fuel cells, battery, power plants, fuels, harvesting, saving
- sustainability
- renewable sources

Use Chemical Engineering & Biotechnology Abstracts to answer questions like:

- What information has recently been published on butterfly valves used in chemical processing?
- Has anything been published on jet mixing involving a liquid or liquids; one of the phases can be a gas?
- What recent technological developments have there been in the removal of toxins from diesel emissions?

Date Coverage

1966 – present

Update Frequency

Weekly

Geographic Coverage

International

Document Types

- Journal Articles
- Conferences, Symposia, Meetings
- Books and Monographs
- Dissertations

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Publisher

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Germany

SEARCH FIELDS

You can use field codes on the Basic Search, Advanced Search, and Command Line Search pages to limit searches to specific fields. The table below lists the field codes for this database.

Field name	Field code	Example	Description and Notes
Abstract	AB	ab(greenhouse) ab("greenhouse effect*") ab(greenhouse near/4 effect) ab(greenhouse and gas*)	Use adjacency and/or Boolean operators to narrow search results. Abstracts in languages other than English may be included.
Accession number	AN	an(20100100783)	A unique document identification number assigned by the Information Provider
All fields	ALL	all("solar panel*") all(solar and panel*) all(solar near/4 panel*)	Use adjacency and/or Boolean operators to narrow search results.
Author[1] Author First Name Author Last Name	AU AUFN AULN	au(woodman, t*) aufn(thomas) or aufn(t*) auln(woodman)	Includes all authors. Also searchable via the Look Up Citation tool.
First author	FAU	fau(wood, d*)	First author is included in Author browse, but its position cannot be specified in the Author browse.
Author affiliation	AF	af(yale) af(stanford univ*)	Includes as much data as is available in the original document – such as department, organization, address, city, state, country, author email.
Classification[1]	CC CL	cc("acoustic measuring methods") cc("chemical react*")	Also known as Subject category.
Coden	CODEN	coden(mctcef)	
Document title	TI	ti("laser beam*") ti(laser and treatment) ti(laser near/5 treatment and beam*)	Use adjacency and/or Boolean operators to narrow search results.
Document type	DTYPE	dtype(article)	
First available	FAV	fav(2014-04-23)	Indicates the first time a document was loaded in a specific database on PQD. It will not change regardless of how many times the document is subsequently reloaded - as long as the accession number does not change.

Field name	Field code	Example	Description and Notes
ISSN	ISSN	issn(0946-7076) issn(09467076)	Use of hyphen is optional. Also searchable via the Look Up Citation tool.
Issue	ISS	iss(12)	Also searchable via the Look Up Citation tool.
Journal name	JN	jn(technology) jn("catalysis today") jn(powder and technology)	Journal names only. For complete Publication name types, use PUB. Also searchable via the Look Up Citation tool for Publication name.
Language	LA	la(english) la(german) la(english or german)	
Pagination	PG	pg(5-12)	
Start page	PAGE	page(5)	First page. The Start page is also searchable on the Look Up Citation page.
Publication date	PD	pd(2010*) pd(2014-2015)	Only a publication year is shown. Date range searching is supported.
Publication title[1]	PUB	pub(technology) pub("catalysis today") pub(powder and technology)	Includes all Publication names. Use JN when searching for just Journal title.
Publication year	YR PY	yr(2010)	Displayed in *Publication date*. Date range searching is supported.
Source information	SRC	src(technology and 5)	Includes Publication title, Volume, Issue, ISSN, Publication date and Pagination. Also searchable via the Look Up Citation Tool.
Updated	UD	ud(20150607) ud(>20141231)	Hyphens are optional. Date range searching is supported.
Volume	VO	vo(5)	Also searchable via the Look Up Citation Tool.

[1] A Lookup/Browse feature is available for this field in the Advanced Search dropdown or in Browse fields.
[2] Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes", then click on "FDB command" to get a list of database names and codes that can be searched with FDB.

Search Tools

Field codes may be used in searches entered on the Basic Search, Advanced Search and Command Line Search pages. The tools available for searching are ***Search fields***, ***Limit Options***, ***Browse Fields***, ***"Narrow Results By" Limiters*** and ***Look Up Citation***. Each is listed separately below. Some data can be searched using more than one tool.

Limit Options

Limit options are quick and easy ways of searching certain common concepts. A check box is available for:

Abstract included

Short lists of choices are available for:

Document type, Language

Date limiters are available in which you can select single dates or ranges for date of **publication** and date **updated**.

Browse Fields

You can browse the contents of certain fields by using Look Up lists. These are particularly useful to validate spellings or the presence of specific data. Terms found in the course of browsing may be selected and automatically added to the Advanced Search form. Look Up lists are available in the fields drop-down for:

Author, Classification, Publication Title

"Narrow Results By" Limiters

When results of a search are presented, the results display is accompanied by a list of "Narrow results by" options shown on the right-hand panel. Click on any of these options and you will see a ranked list showing the most frequently occurring terms in your results. Click on the term to apply it to ("narrow") your search results. Narrow results by Limiters in Chemical Engineering & Biotechnology Abstracts include:

Author, Classification, Document type, Language, Publication title, Publication date

Look Up Citation

If you need to trace a particular bibliographic reference, use the Look Up Citation feature. Find a link to this toward the top left-hand corner of the Advanced Search page, or in the drop list under Advanced on any search form; click this and you will go to a form where you can enter any known details of the citation, including document title, author, journal name, volume, issue, page, publication date, ISSN.

DOCUMENT FORMATS

Document Format	Fields	Online	Export / Download
Brief view	Title and Publication date	✓	
Detailed view	Same as Brief view plus a 3-line KWIC window	✓	
KWIC (Keyword in Context)	Detailed view plus all occurrences of your search terms, highlighted within the fields where the terms occur	✓	✓
Preview	Title, Author, Publication title, Publisher, Volume, Issue, Pagination, Publication date, Abstract, Subject	✓	
Brief citation	Bibliographic record minus Abstract and Indexing	✓	✓
Citation / Abstract	Bibliographic record	✓[1]	✓
Custom	Choose the fields you want		✓[2]

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[2] Custom export/download format is available in the following mediums only: HTML, PDF, RefWorks, RTF, Text only.

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